Digital Camera
ZV-1F

If your camera's system software (firmware) is Ver.1.10 or later, use Creators' App on your smartphone. Imaging Edge Mobile Plus cannot be used.
For details on Creators' App, refer to the following website.
https://www.sony.net/ca/

Recommended pages in the Help Guide

Finding functions from MENU

You can check the list of the menu items. You can also move to the explanation page for each item from the menu item on the list.

Bluetooth Rmt Ctrl

You can operate the camera using a Bluetooth compatible remote commander (sold separately) or shooting grip (sold separately).

File Format (movie)

You can select the movie file format.

S&Q Settings

You can record a moment that cannot be captured by the naked eye (slow-motion recording), or record a long-term phenomenon into a compressed movie (quick-motion recording).

Assigning frequently used functions to buttons (Custom Key Setting)

You can assign frequently used functions to the desired buttons.

Support information

Looking for valuable information, such as essential points on shooting

This website introduces convenient functions, ways of usage, and setting examples. Refer to the website when you set up your camera.

Firmware, Questions & Answers and Compatibility

This website provides Firmware update, Question & Answers and Compatibility information

Appendix

If you have problems

Digital Camera
ZV-1F

How to use the "Help Guide"

The "Help Guide" is a "Web Instruction Manual" that has been designed to describe the functions and operating methods of this camera. Use the "Help Guide" to search for any information that you require in order to make full use of the camera.
(The "Help Guide" screens shown on this page are for reference only. They may differ from the actual on-screen display of your model.)

> **Hint**
>
> - The "Startup Guide" supplied with the camera describes basic operating methods and precautions for use. Please refer to the "Startup Guide" in combination with this "Help Guide."

Icons used in the "Help Guide"

[■] [▶] [S&Q] : Menu items displayed in the still image shooting modes
[■] [▶] [S&Q] : Menu items displayed in the movie recording modes and slow-motion/quick-motion shooting modes
[■] [▶] [S&Q] : Menu items displayed in any of the still image shooting modes, movie recording modes, or slow-motion/quick-motion shooting modes
For details on each shooting mode, refer to "Using the menu."

Finding your desired information

Method A: Searching by keyword
Enter a search keyword ("white balance," "focus area," etc.), and use the search results to display the description page that you want to view. If you enter two or more keywords by separating them with spaces (blanks), you can search for pages that contain all of those keywords.

Method B: Viewing the table of contents
Select a heading from the table of contents to display the description page.

Screen displayed on a computer

Screen displayed on a smartphone

(A)

(B)
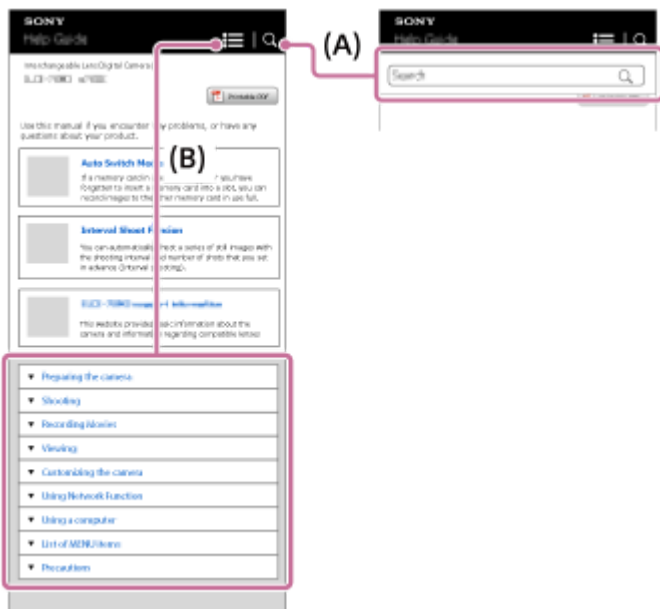
Method C: Finding functions from MENU

If you want to search for information while checking it against the MENU screen of the camera, use the "Finding functions from MENU" page. Select a MENU item from the list to go directly to the description page.

(C)
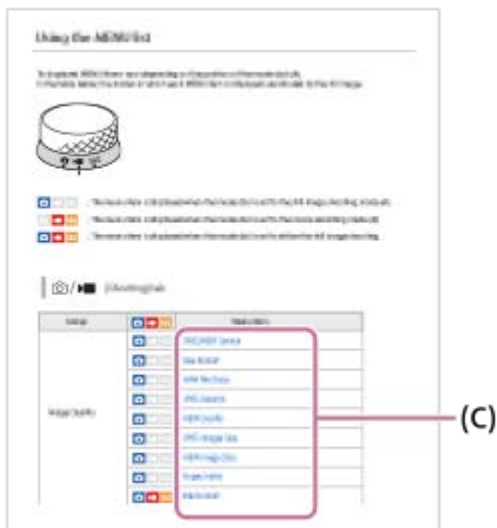
Viewing information about related features

"Related Topic" at the bottom of each page lists sections that contain information related to the description page currently being displayed. For a deeper understanding of the currently displayed page, refer to the listed sections as well.
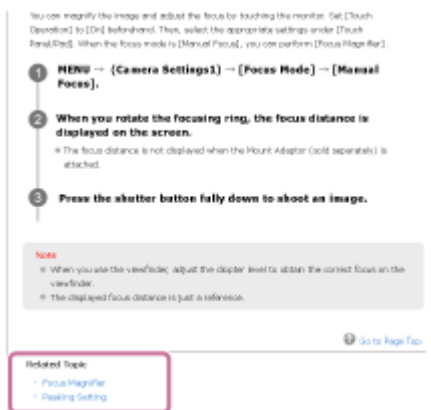
Printing all the pages of the "Help Guide"

To print all the pages, select the [📄 Printable PDF] button in the upper right corner of the top page. When the PDF file appears, use the printing menu of the browser to print it out.
This function is not available for certain languages.

Printing only the currently displayed page (only on a computer)

To print only the page currently being displayed, select the [🖨 Print] button at the top of the page. When the printing screen appears, specify your printer.
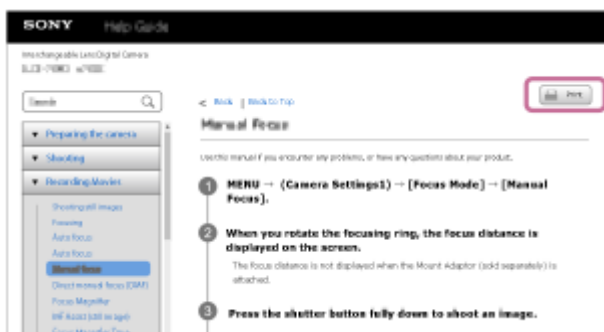
Digital Camera
ZV-1F

Checking the camera and the supplied items

The number in parentheses indicates the number of pieces.

- Camera (1)
- NP-BX1 Rechargeable Battery Pack (1)
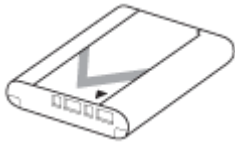
- USB Type-C cable (1)
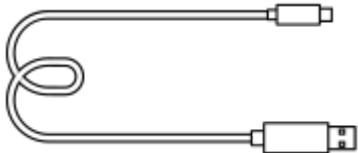
- Wind screen (1) (Attached to the wind screen adaptor)

- Wind screen adaptor (1)
- Lens cap (1) (Attached to the camera)
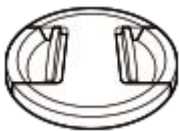
- Startup Guide (1)
- Reference Guide (1)

Digital Camera
ZV-1F

Memory cards that can be used

This camera supports SD memory cards and Memory Stick media.
When using microSD memory cards or Memory Stick Micro media with this camera, be sure to use the appropriate adaptor.

For still-image shooting

The following memory cards can be used.

- SD/SDHC/SDXC memory cards
- Memory Stick PRO Duo/Memory Stick PRO-HG Duo media

For movie recording

Movie recording formats and compatible memory cards are as follows.
Slow-motion and quick-motion movie shooting are not available with [XAVC S 4K].

▶■ File Format	Supported memory card
XAVC S 4K 60Mbps*	• SDHC/SDXC card (Class 10, or U1 or faster) • Memory Stick PRO-HG Duo
XAVC S HD 50Mbps or lower*	• SDHC/SDXC card (Class 10, or U1 or faster) • Memory Stick PRO-HG Duo
XAVC S HD 60Mbps	• SDHC/SDXC card (Class 10, or U1 or faster) • Memory Stick PRO-HG Duo
XAVC S 4K 100Mbps*	• SDHC/SDXC card (U3)
XAVC S HD 100Mbps	• SDHC/SDXC card (U3)

*   Including when recording proxy movies at the same time

> **Note**
>
> - When an SDHC memory card is used to record an XAVC S movie over extended periods of time, the recorded movies will be divided into files 4 GB in size.
>
> - Charge the battery pack sufficiently before attempting to recover the database files on the memory card.

Related Topic

- [Notes on memory card](#)

- Number of recordable images
- Recordable movie times
- S&Q Settings

Digital Camera
ZV-1F

Precautions

Refer also to "Notes on use" in the Startup Guide (supplied) for this product.

On the data specifications described in this manual

- The data on performance and specifications in this manual are based on an ordinary ambient temperature of 25ºC (77°F), except where otherwise indicated.
- For the battery pack, the data are based on a battery pack that was fully charged until the charge lamp turned off.

On operating temperatures

- Shooting in extremely cold or hot environments that exceed the operating temperature range is not recommended.
- Under high ambient temperatures, the temperature of the camera rises quickly.
- When the temperature of the camera rises, the image quality may deteriorate. It is recommended that you wait until the temperature of the camera drops before continuing to shoot.
- Depending on the camera and battery temperature, the camera may become unable to record movies or the power may turn off automatically to protect the camera. A message will be displayed on the screen before the power turns off or you can no longer record movies. In this case, leave the power off and wait until the camera and battery temperature goes down. If you turn on the power without letting the camera and battery cool sufficiently, the power may turn off again, or you may still be unable to record movies.

Notes on recording for long periods of time or recording 4K movies

Especially during 4K shooting, the recording time may be shorter under low temperature conditions. Warm up the battery pack or replace it with a new battery.

Notes on playing movies on other devices

XAVC S movies can only be played back on compatible devices.

Notes on recording/playback

- Before you start recording, make a trial recording to make sure that the camera is working correctly.
- Playback of images recorded with your product on other equipment and playback of images recorded or edited with other equipment on your product are not guaranteed.
- Sony can provide no guarantees in the event of failure to record, or loss of or damage to recorded images or audio data, due to a malfunction of the camera or recording media, etc. We recommend backing up important data.
- Once you format the memory card, all the data recorded on the memory card will be deleted and cannot be restored. Before formatting, copy the data to a computer or other device.

Backing up memory cards

Data may be corrupted in the following cases. Be sure to back up the data for protection.

- When the memory card is removed, the USB cable is disconnected, or the product is turned off in the middle of a read or write operation.
- When the memory card is used in locations subject to static electricity or electrical noise.

Database file error

- If you insert a memory card that does not contain an image database file into the product and turn on the power, the product automatically creates an image database file using some of the memory card's capacity. The process may take a long time and you cannot operate the product until the process is completed.
- If a database file error occurs, export all images to your computer, and then format the memory card using this product.

Do not use/store the product in the following places

- In an extremely hot, cold or humid place
  In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Storing under direct sunlight or near a heater
  The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
  It may cause malfunctions and an inability to record data. In addition, the recording media may become unusable, and recorded data may be corrupted.
- Near strong magnetic place
- In sandy or dusty places
  Be careful not to let sand or dust get into the product. This may cause the product to malfunction, and in some cases this malfunction cannot be repaired.
- In places with high humidity
  This may cause the lens to mold.
- In areas where strong radio waves or radiation are being emitted
  Recording and playback may not function correctly.

On moisture condensation

- If the product is brought directly from a cold to a warm location, moisture may condense inside or outside the product. This moisture condensation may cause a malfunction of the product.
- To prevent moisture condensation when you bring the product directly from a cold to a warm location, first put it in a plastic bag and seal it to prevent air from entering. Wait for about an hour until the temperature of the product has reached the ambient temperature.
- If moisture condensation occurs, turn off the product and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

Precaution on carrying

- Do not hold, hit, or apply excessive force to the following parts, if your camera is equipped with them:

  - The lens part
  - The movable monitor part
  - The movable flash part
  - The movable viewfinder part

- Do not carry the camera with the tripod attached. This may cause the tripod socket hole to break.
- Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

Notes on handling the product

- Before you connect the cable to the terminal, be sure to check the orientation of the terminal. Then, insert the cable straight. Do not insert or remove the cable forcefully. This may cause the terminal part to break.
- The camera uses magnetic parts including magnets. Do not bring objects affected by magnetism, including credit cards and floppy disks, close to the camera.
- This camera is equipped with a magnetic sensor. The camera may turn on if it is placed too close to a magnet or a device with an internal magnet. Take care not to place the camera near any magnetic devices.
- The recorded image may be different from the image you monitored before recording.

On storing

- For lens-integrated cameras
Always attach the lens cap when you are not using the camera. (Only for models supplied with a lens cap)
- For interchangeable-lens cameras
Always attach the lens front cap or body cap when you are not using the camera. To prevent dust or debris from getting inside the camera, remove dust from the body cap before attaching it to the camera.
- If the camera is dirty after use, clean it. Water, sand, dust, salt, etc. left in the camera may cause a malfunction.

Notes on using lenses

- When using the power zoom lens, be careful not to get your fingers or any other objects caught in the lens. (Only for models with a power zoom feature or interchangeable lens cameras)
- If you must place the camera under a light source such as sunlight, attach the lens cap to the camera. (Only for models supplied with a lens cap or interchangeable lens cameras)
- If sunlight or a strong light source enters the camera through the lens, it may focus inside the camera and cause smoke or fire. Attach the lens cap to the lens when storing the camera. When you shoot with backlighting, keep the sun sufficiently far away from the angle of view. Note that smoke or fire may occur even if the light source is slightly away from the angle of view.
- Do not directly expose the lens to beams such as laser beams. These may damage the image sensor and cause the camera to malfunction.
- If the subject is too close, the image may show any dust or fingerprints on the lens. Wipe the lens with a soft cloth, etc.

Notes on the flash (Only for models with a flash)

- Keep your fingers away from the flash. The light-emitting part may get hot.
- Remove any dirt from the surface of the flash. Dirt on the surface of the flash may emit smoke or burn due to heat generated by the emission of light. If there is dirt/dust, clean it off with a soft cloth.
- Restore the flash to its original position after using it. Make sure that the flash portion is not sticking up. (Only for models with a movable flash)

Notes on the Multi Interface Shoe (Only for models with a Multi Interface Shoe)

- When attaching or detaching accessories such as an external flash to the Multi Interface Shoe, first turn the power to OFF. When attaching the accessory, confirm that it is firmly fastened to the camera.
- Do not use the Multi Interface Shoe with a commercially available flash that applies voltages of 250 V or more or has the opposite polarity of the camera. It may cause a malfunction.

Notes on the viewfinder and flash (Only for models with a viewfinder or a flash)

- Take care that your finger is not in the way when pushing the viewfinder or flash down. (Only for models with a movable viewfinder or a movable flash)
- If water, dust or sand adheres to the viewfinder or flash unit, it may cause a malfunction. (Only for models with a movable viewfinder or a movable flash)

Notes on the viewfinder (Only for models with a viewfinder)

- When shooting with the viewfinder, you may experience symptoms such as eyestrain, fatigue, travel sickness, or nausea. We recommend that you take a break at regular intervals when you are shooting with the viewfinder.
In case you may feel uncomfortable, refrain from using the viewfinder until your condition recovers, and consult your doctor if necessary.
- Do not forcibly push down the viewfinder when the eyepiece is pulled out. It may cause a malfunction. (Only for models with a movable viewfinder and an eyepiece that can be pulled out)
- If you pan the camera while looking into the viewfinder or move your eyes around, the image in the viewfinder may be distorted or the color of the image may change. This is a characteristic of the lens or display device and is not a malfunction. When you shoot an image, we recommend that you look at the center area of the viewfinder.
- The image may be slightly distorted near the corners of the viewfinder. This is not a malfunction. When you want to see the full composition with all its details, you can also use the monitor.
- If you use the camera in a cold location, the image may have a trailing appearance. This is not a malfunction.

- Do not directly expose the viewfinder to beams such as laser beams. These may damage the inside of the viewfinder and cause the camera to malfunction.

Notes on the monitor

- Do not press against the monitor. The monitor may be discolored and that may cause a malfunction.
- If the monitor has drops of water or other liquids on it, wipe it with a soft cloth. If the monitor stays wet, the surface of the monitor may change or deteriorate. This may cause a malfunction.
- If you use the camera in a cold location, the image may have a trailing appearance. This is not a malfunction.
- When you connect cables to the terminals on the camera, the rotating range of the monitor may become limited.

Notes on the image sensor

If you point the camera at an extremely strong light source while shooting images with a low ISO sensitivity, highlighted areas in the images may be recorded as black areas.

Notes on the wind screen

- If the wind screen is stored for a long time in a place exposed to direct sunlight or near a heating device, it may become discolored. The texture and degree of raising of the hairs may change depending on the environment during use and storage as well as aging.
- Brushing or forcefully pulling the hairs on the wind screen may cause them to come off.
- If the wind screen gets wet or dirty, do not remove it from the wind screen adaptor. Wipe it off with a soft, dry cloth and dry it in the shade.

On image data compatibility

This product conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).

Services and software provided by other companies

Network services, content, and the [operating system and] software of this Product may be subject to individual terms and conditions and changed, interrupted or discontinued at any time and may require fees, registration and credit card information.

Notes on connecting to the internet

To connect the camera to a network, connect it through a router or a LAN port with the same function. Failure to connect in this manner may result in security issues.

Notes on security

- SONY WILL NOT BE HELD LIABLE FOR DAMAGES OF ANY KIND RESULTING FROM FAILURE TO IMPLEMENT PROPER SECURITY MEASURES ON TRANSMISSION DEVICES, UNAVOIDABLE DATA LEAKS CAUSED BY TRANSMISSION SPECIFICATIONS, OR OTHER SECURITY PROBLEMS.
- Depending on the usage environment, unauthorized third parties on the network may be able to access the product. When connecting the camera to a network, be sure to confirm that the network is protected securely.
- The content of communications may be unknowingly intercepted by unauthorized third parties in the vicinity of the signals. When using wireless LAN communication, implement proper security measures to protect the content of communications.

Optional accessories

- It is recommended that you use genuine Sony accessories.
- Some Sony accessories are only available in certain countries and regions.

Digital Camera
ZV-1F

Notes on the battery pack and charging the battery

Notes on using the battery pack

- Be sure to use only genuine Sony brand battery packs.
- The correct remaining battery indicator may not be displayed under some operating or environmental conditions.
- Do not expose the battery pack to water. The battery pack is not water-resistant.
- Do not leave the battery pack in extremely hot places, such as in a car or under direct sunlight.

Notes on charging the battery pack

- Charge the battery pack (supplied) before using the product for the first time.
- The charged battery pack will discharge little by little even if you do not use it. Charge the battery pack each time before you use the product so that you do not miss any opportunities to shoot images.
- Do not charge battery packs except battery packs specified for this product. Doing so can result in leaks, overheating, explosions, electric shocks, burns, or injuries.
- When you use a completely new battery pack or a battery pack that has not been used for a long time, the charge lamp (CHARGE) may flash quickly when the battery is charged. If this happens, remove the battery pack and then re-insert it to recharge.
- We recommend charging the battery pack in an ambient temperature of between 10 °C and 30 °C (50 °F and 86 °F). The battery pack may not be correctly charged in temperatures outside this range.
- Operation cannot be guaranteed with all external power supplies.
- When charging is finished, disconnect the AC Adaptor from the wall outlet (wall socket) or disconnect the USB cable from the camera. Not doing so may result in a shorter battery life.
- Do not continuously or repeatedly charge the battery pack without using it if it is already fully charged or close to fully charged. Doing so may cause a deterioration in battery performance.
- If the product's charge lamp flashes while charging, remove the battery pack being charged, and then insert the same battery pack firmly back into the product. If the charge lamp flashes again, this may indicate a faulty battery or that a battery pack other than the specified type has been inserted. Check that the battery pack is the specified type.
If the battery pack is the specified type, remove the battery pack, replace it with a new or different one and check that the newly inserted battery is charging correctly. If the newly inserted battery is charging correctly, the previously inserted battery may be faulty.

Remaining battery indicator

- The remaining battery indicator appears on the screen.

A: Battery level high
B: Battery exhausted

- It takes about one minute for the correct remaining battery indicator to appear.
- The correct remaining battery indicator may not be displayed under some operating or environmental conditions.
- If you do not operate the product for a certain period of time while the power is on, the product turns off automatically (Auto power-off function).
- If the remaining battery indicator does not appear on the screen, press the DISP (Display Setting) button to display it.

Effective use of the battery pack

- Battery performance decreases in low temperature environments. So in cold places, the operational time of the battery pack is shorter. To ensure longer battery pack use, we recommend putting the battery pack in your pocket close to your body to warm it up, and insert it in the product immediately before you start shooting. If there are any metal objects such as keys in your pocket, be careful of causing a short-circuit.
- The battery pack will become depleted quickly if you shoot images continuously and frequently, turn the power on/off frequently, or set the monitor very bright.
- We recommend preparing spare battery packs and taking trial shots before taking the actual shots.
- If the battery terminal is dirty, you may not be able to turn on the product or the battery pack may not be properly charged. In that case, clean the battery by lightly wiping off any dust using a soft cloth or a cotton swab.

How to store the battery pack

To maintain the battery pack's function, charge the battery pack and then fully discharge it in the camera at least once a year before storing it. Store the battery in a cool, dry place after removing it from the camera.

On battery life

- The battery life is limited. If you use the same battery repeatedly, or use the same battery for a long period, the battery capacity decreases gradually. If the available time of the battery is shortened significantly, it is probably time to replace the battery pack with a new one.
- The battery life varies according to how the battery pack is stored and the operating conditions and environment in which each battery pack is used.

Digital Camera
ZV-1F

Notes on memory card

- If ⟦⚠⟧ (overheating warning icon) is displayed on the monitor, do not remove the memory card from the camera right away. Instead, wait for a while after turning off the camera, and then remove the memory card. If you touch the memory card while it is hot, you may drop it and the memory card may be damaged. Be careful when removing the memory card.
- If you repeatedly shoot and delete images for a long time, fragmentation of data in a file in the memory card may occur, and movie recording may be interrupted in the middle of shooting. If this happens, save your images to a computer or other storage location, then execute [Format] using this camera.
- Do not remove the battery pack or the memory card, disconnect the USB cable, or turn the camera off while the access lamp is lit up. This may cause the data on the memory card to become damaged.
- Be sure to back up the data for protection.
- Not all memory cards are guaranteed to operate correctly.
- Images recorded on an SDXC memory card cannot be imported to or played on computers or AV devices not compatible with exFAT when connected using a USB cable. Make sure that the device is compatible with exFAT before connecting it to the camera. If you connect your camera to an incompatible device, you may be prompted to format the card. Never format the card in response to this prompt, as doing so will erase all data on the card. (exFAT is the file system used on SDXC memory cards.)
- Do not expose the memory card to water.
- Do not strike, bend or drop the memory card.
- Do not use or store the memory card under the following conditions:
  - High temperature locations such as in a car parked under the sun
  - Locations exposed to direct sunlight
  - Humid locations or locations with corrosive substances present

- If the memory card is used near areas with strong magnetization, or used in locations subject to static electricity or electrical noise, the data on the memory card may become damaged.
- Do not touch the terminal section of the memory card with your hand or a metal object.
- Do not leave the memory card within the reach of small children. They might accidentally swallow it.
- Do not disassemble or modify the memory card.
- The memory card may be hot just after it has been used for a long time. Be careful when you handle it.
- Memory card formatted with a computer is not guaranteed to operate with the product. Be sure to format the memory card using this product.
- Data read/write speeds differ depending on the combination of the memory card and the equipment used.
- Do not press down hard when writing in the memo space on the memory card.
- Do not attach a label on the memory card itself nor on a memory card adaptor. You may not be able to remove the memory card.
- If the write-protect switch or delete-protect switch of an SD memory card is set to the LOCK position, you cannot record or delete images. In this case, set the switch to the record position.
- To use a Memory Stick Micro media or microSD memory card with this product:
  - Be sure to insert the memory card into a dedicated adaptor. If you insert a memory card into the product without a memory card adaptor, you might not be able to remove it from the product.
  - When inserting a memory card into a memory card adaptor, be sure that the memory card is inserted in the correct direction and then insert it as far as it will go. If the card is not inserted properly, it may result in a malfunction.

- About Memory Stick PRO Duo media and Memory Stick PRO-HG Duo media:
  - This Memory Stick is equipped with MagicGate function. MagicGate is copyright protection technology that uses encryption technology.
    Data recording/playback that requires MagicGate functions cannot be performed with this product.

- High-speed data transfer using a parallel interface is supported.

Related Topic

- Format

Digital Camera
ZV-1F

On cleaning

Cleaning the lens

- Do not use a cleaning solution containing organic solvents, such as thinner, or benzine.
- When cleaning the lens surface, remove dust with a commercially available blower. In case of dust that sticks to the surface, wipe it off with a soft cloth or tissue paper slightly moistened with lens cleaning solution. Wipe in a spiral pattern from the center to the outside. Do not spray lens cleaning solution directly onto the lens surface.

Cleaning the product surface

Clean the product surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

- Do not expose the product to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.
- Do not touch the product with any of the above on your hand.
- Do not leave the product in contact with rubber or vinyl for a long time.

Cleaning the monitor

- If you wipe the monitor firmly using tissue paper, etc., the monitor may be scratched.
- If the monitor becomes dirty with fingerprints or dust, gently remove the dust from the surface, and then clean the monitor using soft cloth, etc.

Digital Camera
ZV-1F

Identifying parts
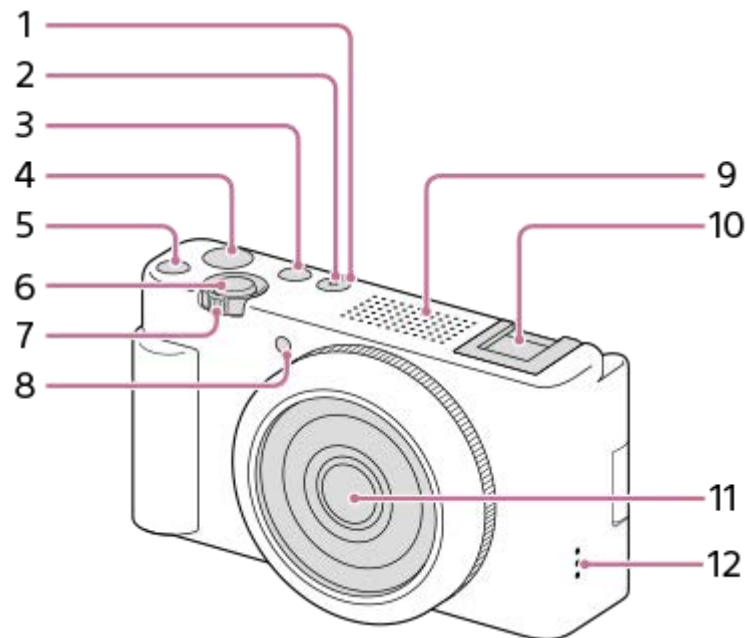
1. ON/OFF (Power) button
2. Power/Charge lamp
3. Still/Movie/S&Q button
4. MOVIE (Movie) button
5. C1 button (Custom button 1)/ ▲▲ (Background Defocus) button
6. Shutter button
7. For shooting: W/T (zoom) lever
   For viewing: ▦ (Index) lever/Playback zoom lever
8. Self-timer lamp/Recording lamp
9. Internal microphone

   • Do not cover this part during movie recording. Doing so may cause noise or lower the volume.

10. Accessory shoe

    • Since the accessory shoe of this camera does not have electronic contacts, it does not support syncing with an external flash or audio input from the hot shoe terminal.

11. Lens
12. Speaker
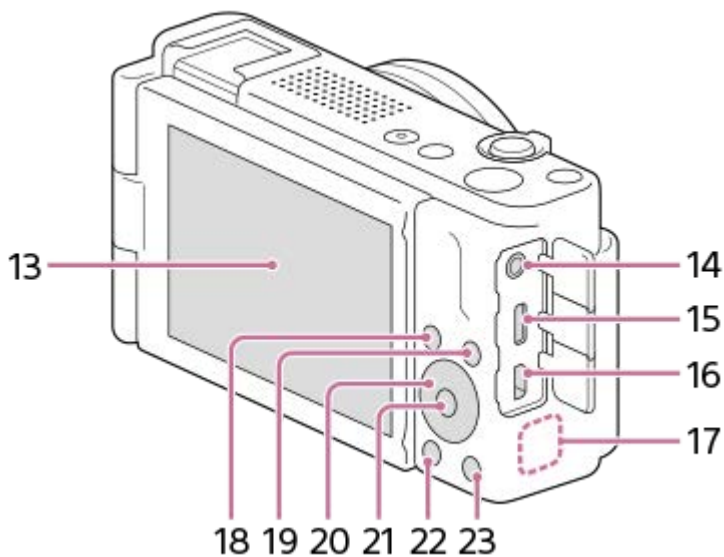
13. Monitor/Touch panel

- You can adjust the monitor to an easily viewable angle and shoot from any position.
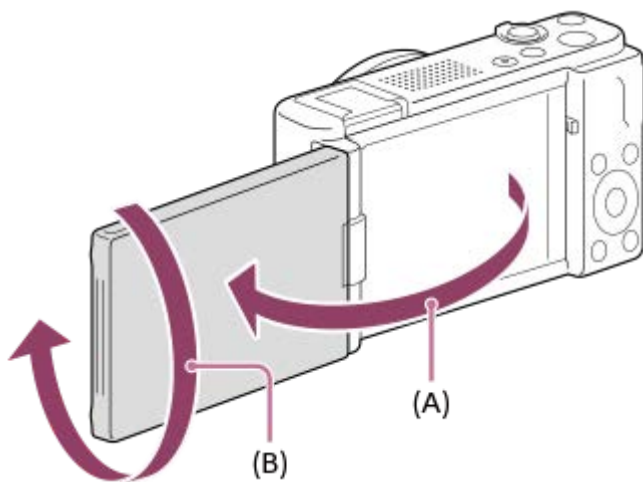
(A): Approx. 176°
(B): Approx. 270°

- If you open the monitor from the closed position with the screen facing inwards, the camera will turn on.
- To choose whether or not the camera turns off when the monitor is closed with the screen facing inwards, select MENU → ⊡ (Setup) → [Power Setting Option] → [Power OFF w/ monitor].
- You may not be able to adjust the monitor angle depending on the type of a tripod you use. In such a case, release the tripod screw once to adjust the monitor angle.
- Do not apply excessive force when opening, closing, or rotating the monitor. Doing so may cause a malfunction.

14. ✎ (Microphone) jack

- When an external microphone is connected, the built-in microphone turns off automatically. When the external microphone is a plugin-power type, the power of the microphone is supplied by the camera.

15. USB Type-C terminal
16. HDMI micro jack
17. Wi-Fi/Bluetooth antenna (built-in)
18. For shooting: Fn (Function) button
For viewing: ↗ (Send to Smartphone) button
19. MENU button
20. Control wheel
21. Center button
22. ▶ (Playback) button
**23.** 🗑 (Delete) button/ (Product Showcase Set) button
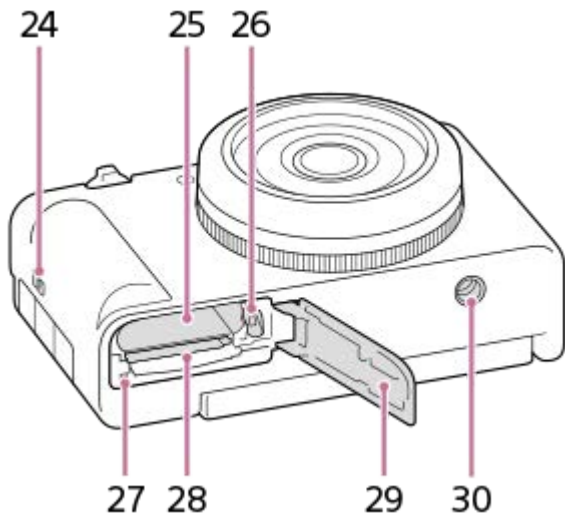
24. Hook for strap
25. Battery insertion slot
26. Battery lock lever
27. Access lamp
28. Memory card slot
29. Battery/Memory card cover
30. Tripod socket hole
    Supports 1/4-20 UNC screws

  - Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.

Using the wind screen (supplied)

Use the wind screen by attaching it to the accessory shoe to reduce wind noise picked up by the internal microphone when recording movies.
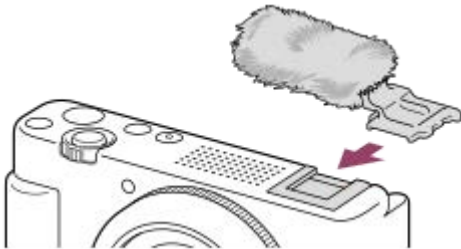
Note

  - When attaching the wind screen, make sure that the wind screen does not get caught in the accessory shoe.

Digital Camera
ZV-1F

Basic icons displayed on the monitor

This section describes the screen display when the shooting mode is **P** (Program Auto).

- The examples are of the display when the screen is in the all-information display mode.
- The displayed content and positions are for reference only, and may differ from the actual display. Some icons may not be displayed depending on the camera settings.

During movie recording
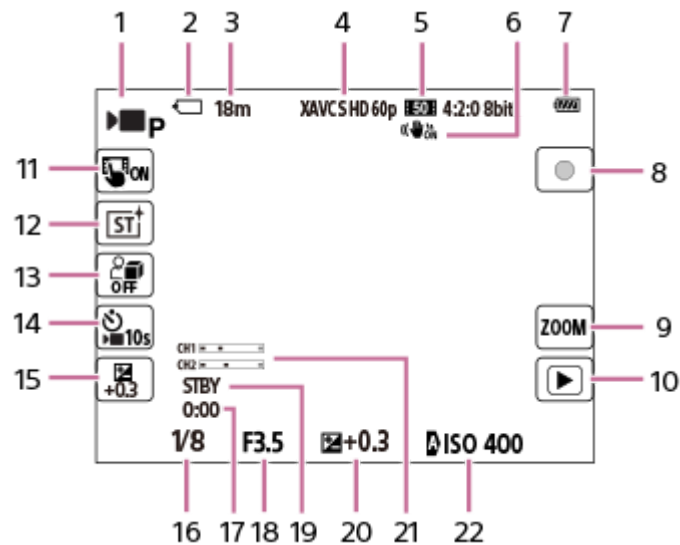
1. [▶■ Shoot Mode] is set to ▶■**P** [Program Auto].
2. Memory card
3. Recordable movie time
4. [▶■ File Format] is set to [XAVC S HD] and [Rec Frame Rate] is set to [60p].
5. [Record Setting] is set to [50M 4:2:0 8bit].
6. [▶■ SteadyShot] is set to [On].
7. Remaining battery level
8. Switches between recording and standby when shooting movies.
9. Opens the setting screen for the zoom magnification.
10. Switches to the playback mode. (The shot mark button will be displayed during movie shooting, and you can add a shot mark to the movie currently being recorded.)
11. [Icon Touch Function] is set to [On].
12. [🎨 Creative Look] is set to [ST].
13. [Product Showcase Set] is set to [Off].
14. [▶■ Self-timer] is set to [10 s].
15. [🎨 Exposure Comp.] is set to [+0.3].
16. Shutter speed
17. Actual movie recording time
18. Aperture value
19. Shooting standby
20. Exposure compensation
21. [Audio Level Display] is set to [On].
22. [🎨 ISO] is set to [ISO AUTO]. (The ISO value automatically set by the camera is displayed.)

During still image shooting
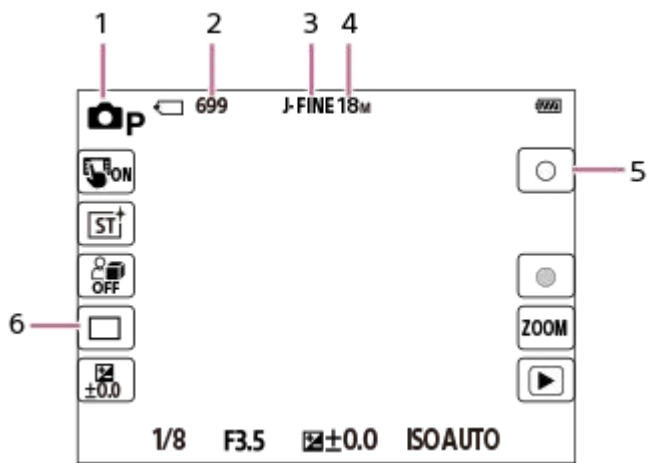
1. [Shoot Mode] is set to P [Program Auto].
2. Recordable number of still images
3. [JPEG Quality] is set to [Fine].
4. [JPEG Image Size] is set to [L: 18M].
5. Shoots a still image.
6. [Drive Mode] is set to [Single Shooting].

Hint

- The icons on the left and right ends of the screen function as touch buttons when [Icon Touch Function] is set to [On]. You can operate and adjust settings for functions such as shooting by touching them.
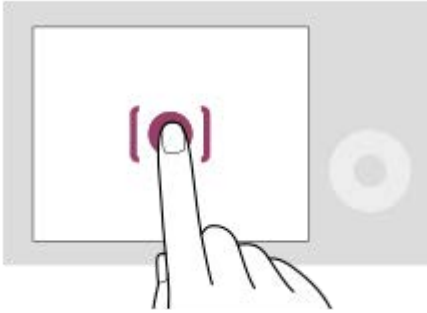

Related Topic

- List of icons on the monitor
- Icon Touch Function

Digital Camera
ZV-1F

Touch operations on the monitor

By touching the monitor, you can intuitively perform operations such as focusing on the shooting screen and operating the playback screen.

Touch operations (on the shooting screen)

Touch the monitor to specify where to focus (Touch Focus).
Touch a subject on the monitor to use the touch tracking function (Touch Tracking).
You can also focus on a subject and shoot images simply by touching the subject on the screen (Touch Shutter).
For information on how to switch the function activated by touch operation, refer to " Touch Func. in Shooting ."

Touch operations (on the playback screen)
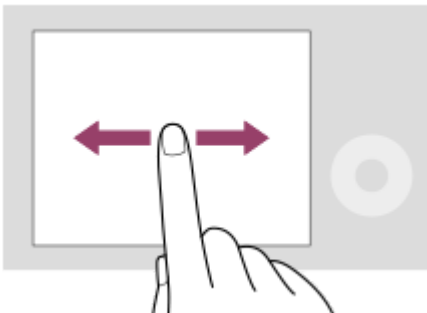
During single-image playback, swipe the screen to the left or right to move to the previous or next image.
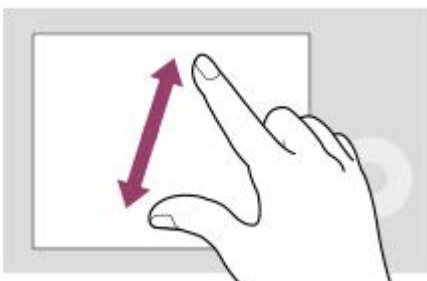
During single-image playback, you can enlarge or reduce the displayed image by moving apart or bringing together two fingers on the screen (pinch-out/pinch-in).

- You can also double-tap the monitor to enlarge a still image or exit the enlarged image.
- During movie playback, you can start or pause playback using touch operations.

Hint

- You can open the function menu by swiping upward quickly on the shooting screen.

When [Icon Touch Function] is set to [On], touch buttons are displayed on the shooting screen and playback screen, and you can operate the camera with the touch buttons.

Related Topic

- Touch Operation
- Icon Touch Function
- Touch Func. in Shooting
- Focusing using touch operations (Touch Focus)
- Starting tracking with touch operations (Touch Tracking)
- Shooting with touch operations (Touch Shutter)

Digital Camera
ZV-1F

Using the control wheel

On the menu screen or the screen displayed by pressing the Fn button, you can move the selection frame by turning the control wheel or by pressing the top/bottom/left/right side of the control wheel. Your selection is confirmed when you press the center of the control wheel.
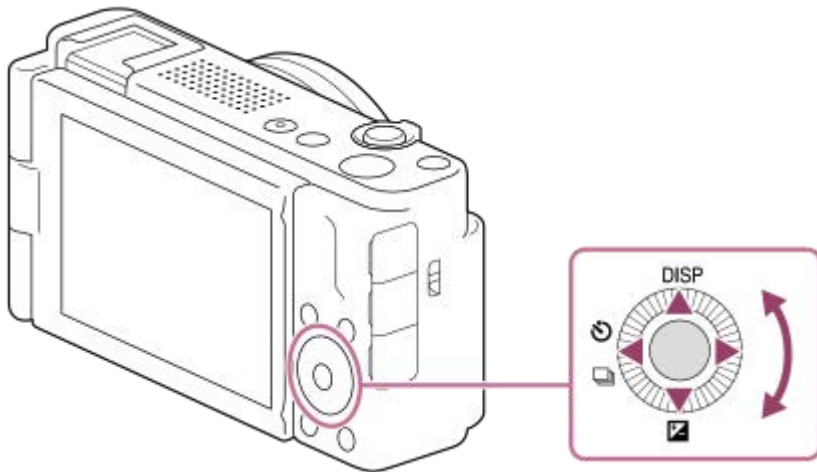
- The DISP (Display Setting), ☒ (☒ Exposure Comp.), and ☉ / ☐ (▶☐ Self-timer/Drive Mode) functions are assigned to the top/bottom/left side of the control wheel. In addition, you can assign selected functions to the left/right side and the center of the control wheel.
- During playback, you can display the next/previous image by pressing the right/left side of the control wheel or by turning the control wheel.

Related Topic

- [Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)](#)

Digital Camera
ZV-1F

Using the Still/Movie/S&Q button

You can use the Still/Movie/S&Q button **(A)** to select a shooting mode.
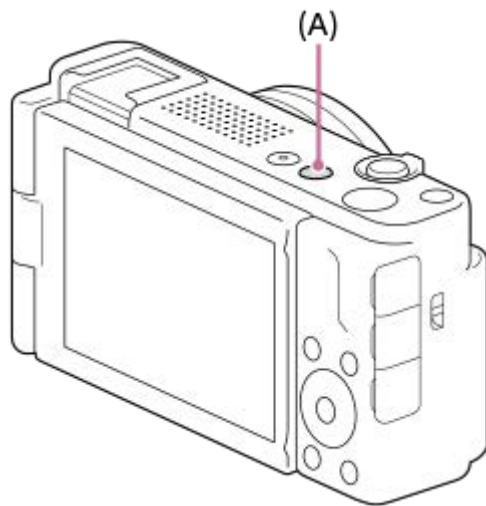
Each time you press the Still/Movie/S&Q button, the shooting mode switches in the order of still image shooting mode, movie recording mode, and slow-motion/quick-motion recording mode.

> **Hint**
> - The menu items displayed in the [Shooting], [Exposure/Color], and [Focus] tabs of the menu screen vary depending on the shooting mode (still image/movie/S&Q). Before you adjust these settings, select the desired shooting mode with the Still/Movie/S&Q button.

Related Topic
- Using the menu
- Shooting movies (Intelligent Auto)
- Shooting still images (Intelligent Auto)
- S&Q Settings

Digital Camera
ZV-1F

Using the menu

The menu screen is displayed by pressing the MENU button. You can change settings related to all of the camera operations including shooting and playback, or you can execute a function from the menu screen.

(A) (B)   (C)
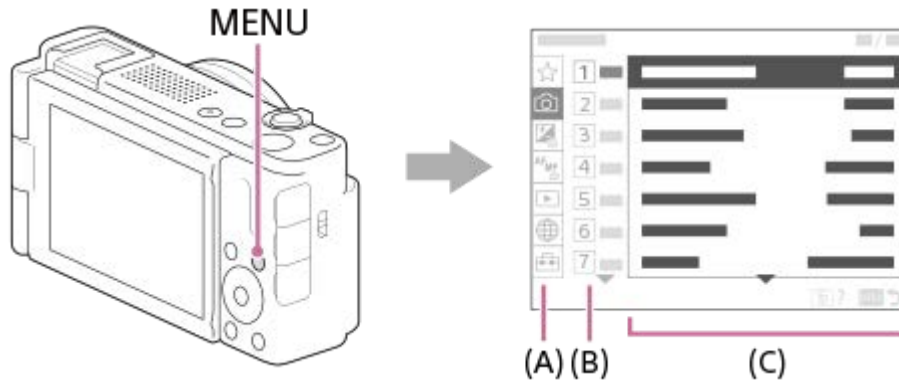
(A) Menu tab

Menu tabs are categorized by usage scenario, such as shooting, playback, network settings, etc.

(B) Menu group

In each tab, menu items are grouped by function.
The number assigned to the group is the serial number in the tab. Refer to the number to determine the location of the group in use.

(C) Menu item

Select the function you want to set or execute.

Hint

- The name of the selected tab or group is displayed at the top of the screen.

- When [Touch Operation] is set to [On], touch operations on the menu screen are possible.

Basic operations on the menu screen

1. Press the MENU button to display the menu screen.
2. Move within the menu tree and find the desired menu item by pressing the top/bottom/left/right side of the control wheel.

   - The displayed menu items differ between the still image shooting modes and movie recording modes.

(A)   (B)   (C)
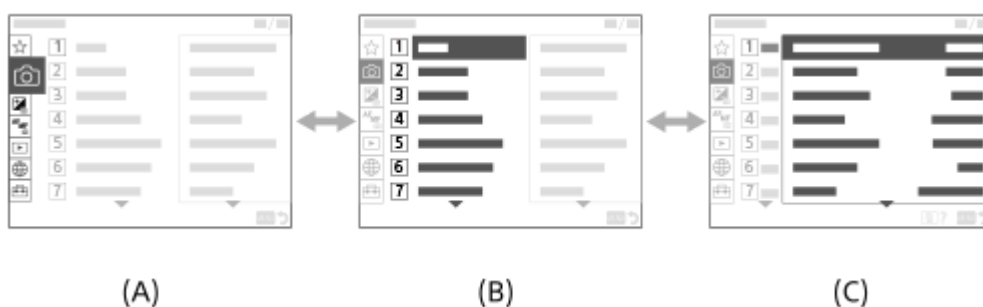
(A) Menu tabs
(B) Menu groups
(C) Menu items

3. Press the center of the control wheel to select the menu item.
   The setting screen or execution screen for the selected item will appear on the monitor.

4. Select a parameter or execute the function.

   - If you want to cancel changing the parameter, press the MENU button and go back to the previous screen.

5. Press the MENU button to exit the menu screen.
   You will return to the shooting screen or playback screen.

Relationship between the shooting mode and menu screen

The menu groups and menu items displayed in the [Shooting], [Exposure/Color], and [Focus] tabs vary depending on the shooting mode.

Still image shooting modes (AUTO/P/A/S/M)

- Menu items for shooting still images are displayed.*
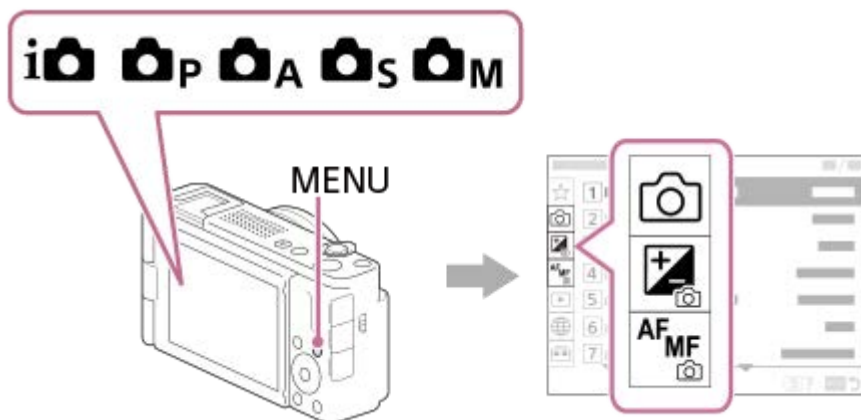
* Since you can record movies with the MOVIE (Movie) button even in the still image shooting mode, some basic movie menu items are also displayed.

Movie recording modes ( )▮ /S&Q)

- Menu items for recording movies are displayed.
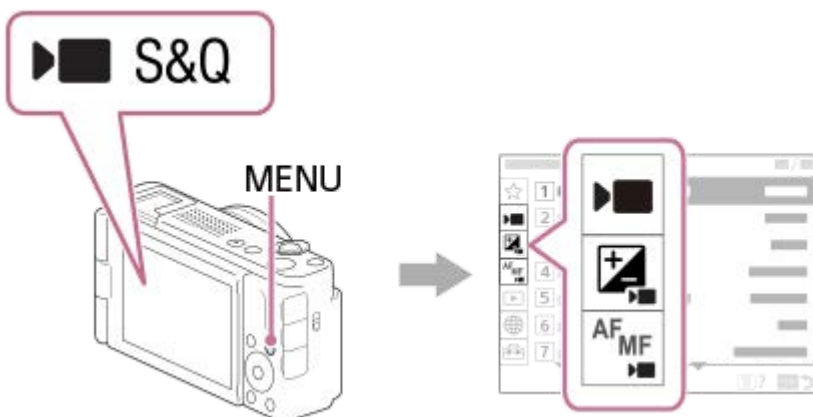
Icons used in the "Help Guide"

 : Menu items displayed in the still image shooting modes

 : Menu items displayed in the movie recording modes and slow-motion/quick-motion shooting modes

 : Menu items displayed in any of the still image shooting modes, movie recording modes, or slow-motion/quick-motion shooting modes

37

Related Topic

- Add Item
- Display From My Menu
- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)

Digital Camera
ZV-1F

Using the function menu

If you press the Fn (function) button during shooting, a menu containing frequently used functions such as the audio recording level and focus mode will appear on the screen (function menu). This allows you to access functions quickly.

Example of function menu

The displayed items differ depending on the camera status.

Hint

- Use MENU → 🖸 (Setup) → [Operation Customize] →[Fn Menu Settings] to register your favorite functions in the function menu. You can register 12 functions for shooting still images and 12 functions for shooting movies separately.

- When [Touch Operation] is set to [On], touch operations on the menu screen are possible.

- When [Touch Operation] is set to [On], you can also open [Fn Menu Settings] by holding down the icon in the function menu.

- When [Swipe Up] is set to [Open the Fn Menu], the function menu can be displayed using touch operations by swiping the shooting screen upward quickly.

- Swipe downward from the area outside of the function menu or tap the area outside of the function menu to close the function menu.

1 **Press the Fn (Function) button.**
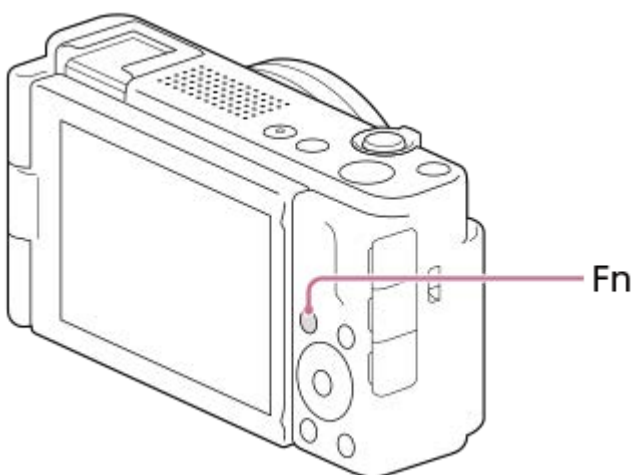
2 **Press the top/bottom/left/right side of the control wheel to select a function to set.**
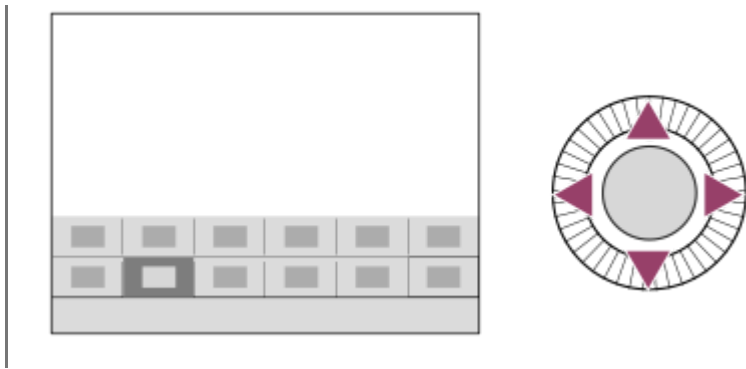
To adjust settings from the dedicated setting screens

Select the icon for the desired function and then press the center of the control wheel. The dedicated setting screen for the function will appear. Follow the operating guide **(A)** to adjust settings.

(A)
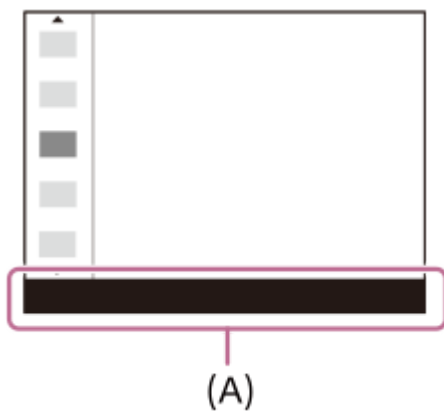
Related Topic

- Fn Menu Settings
- Swipe Up

Digital Camera
ZV-1F

Using the C (custom) buttons

If you assign frequently used functions to the custom button (C1) in advance, you can quickly call up those functions simply by pressing the button during shooting or playback.
Recommended functions are assigned to the custom buttons by default.
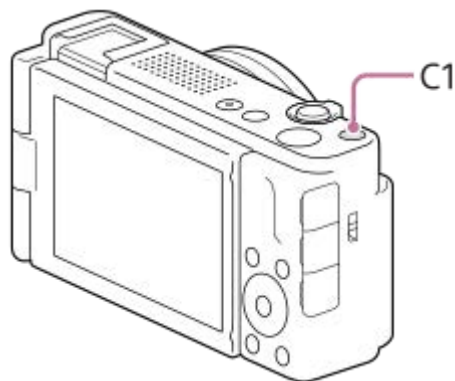
To check/change the functions of the custom buttons

You can confirm the function currently assigned to each custom button via the following procedure.
MENU → 　 (Setup) → [Operation Customize] → [　 Custom Key Setting], [　 Custom Key Setting] or [　 Custom Key Setting].
If you want to change the function of the custom button, press the center of the control wheel while the custom button is selected. The functions that can be assigned to that button will appear. Select your desired function.

Related Topic

- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)

Digital Camera
ZV-1F

Using the DISP (Display Setting) button

By pressing the DISP (Display Setting) button, you can change the content displayed on the screen during shooting and playback. The display switches each time the DISP button is pressed.
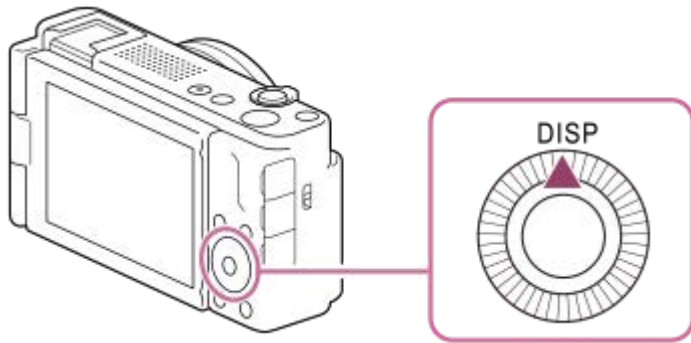
During shooting

Display All Info. → No Disp. Info. → Histogram → Level → Display All Info.
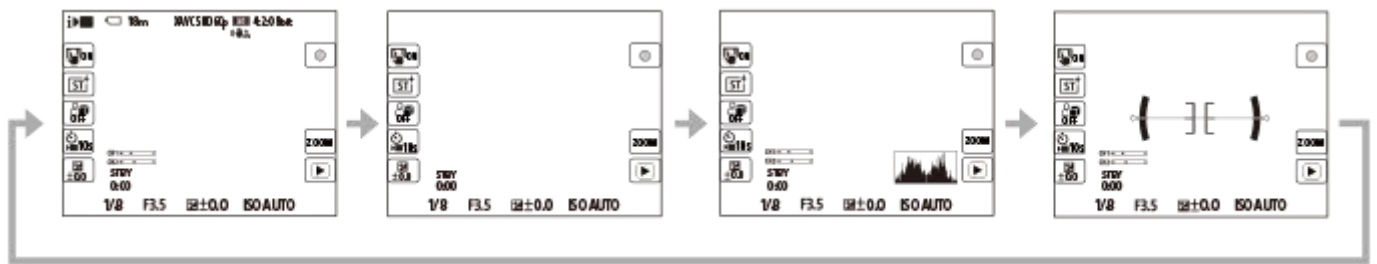
During playback

Display Info. → Histogram → No Disp. Info. → Display Info.

- If the image has an overexposed or underexposed area, the corresponding section will blink on the histogram display (overexposed/underexposed warning).
- The settings for playback are also applied in [Auto Review].

Note

- The displayed contents and their position shown in the illustration are just a guideline, and may differ from the actual display.

Related Topic

- DISP (Screen Disp) Set

Digital Camera
ZV-1F

Using the Delete button

You can delete an image currently being displayed by pressing the 🗑 (Delete) button.
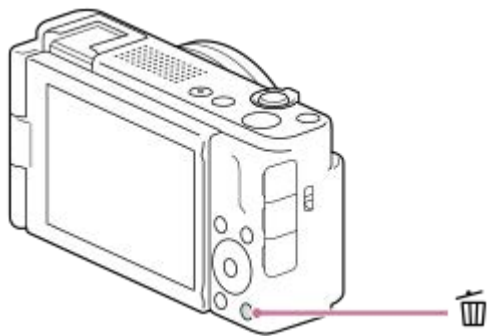
- When a confirmation message appears after you press the 🗑 (Delete) button, use the control wheel to select [Delete] and press the center.
- You can also delete two or more images at once.
  Select MENU → ▶ (Playback) → [Delete] → [Delete]. Then, select the images you want to delete.

> **Hint**
>
> - If you set MENU → ▶ (Playback) → [Delete] → [🗑 Delete pressing twice] to [On], you can delete images by pressing the 🗑 (Delete) button twice in a row.
>
> - Other than the single-image playback screen, you can also use the 🗑 (Delete) button for the following operations.
>   - Custom Key
>   - In-Camera Guide

Related Topic

- Deleting multiple selected images (Delete)
- Delete confirm.
- Delete pressing twice
- Using the C (custom) buttons
- In-Camera Guide

Digital Camera
ZV-1F

Using the keyboard

When manual character entry is required, a keyboard is displayed on the screen. For examples of functions that use the keyboard, see "Related Topic" at the bottom of this page.

1. **Input box**
   The characters you entered are displayed.
2. **Switch character types**
   Each time you press this key, the character type will switch between alphabet letters, numerals and symbols.
3. **Keyboard**
   Each time you press this key, the characters corresponding to that key will be displayed one-by-one in order. To switch letters from lower to upper case, press ↑ (Up arrow).
4. ← (Left arrow)
   Moves the cursor in the input box to the left.
5. → (Right arrow)
   Moves the cursor in the input box to the right. This key is also used to finalize the input of a character being edited and move to the next character.
6. ⌫ (Delete)
   Deletes the character preceding the cursor.
7. ↑ (Up arrow)
   Switches a letter to upper or lower case.
8. ␣ (Space)
   Enters a space.
9. **OK**
   Press this key after entering characters to finalize the entered characters.

The procedure for entering alphabetic characters is explained below.

1 **Use the control wheel to move the cursor to the desired key.**

- Each time you press the center of the control wheel, the characters will change
- To switch the letter to upper or lower case, press ↑ (Up arrow).

2 **When the character that you want to enter appears, press → (Right arrow) to confirm the character.**

- Make sure to confirm one character at a time. Unless a character is confirmed, you cannot enter the next character.
- Even if you do not press → (Right arrow), the entered character will be automatically confirmed after several seconds.

3 **After you finish entering all characters, press [OK] to finalize the entered characters.**

- To cancel input, select [Cancel].

Related Topic
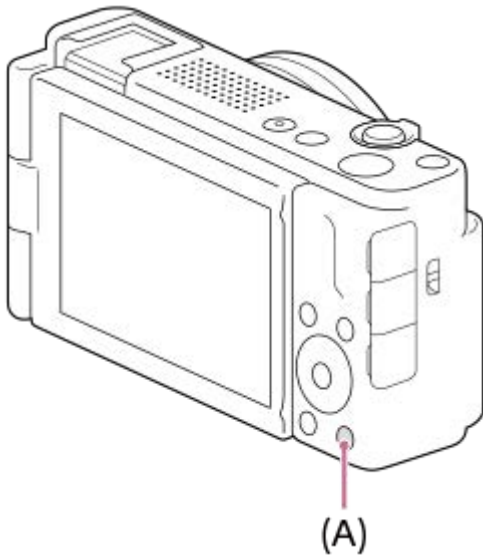
- Edit Device Name

Digital Camera
ZV-1F

In-Camera Guide

The [In-Camera Guide] displays descriptions of MENU items, Fn (Function) items, and settings.
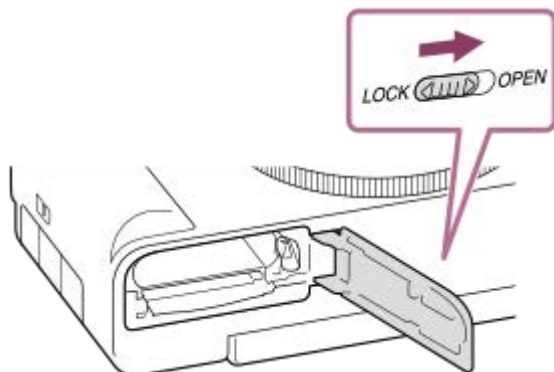
1   **Select the MENU or Fn item for which you want to see a description, and then press the 🗑 (Delete) button (A).**
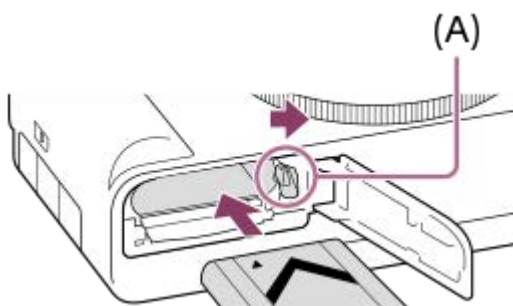
The descriptions of the item are displayed.

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Digital Camera
ZV-1F

Inserting/removing the battery pack

1 **Slide the switch on the battery/memory card cover to open the cover.**

2 **Insert the battery pack while pressing the lock lever (A) with the tip of the battery until the battery locks into place.**

3 **Close the cover and slide the switch to the LOCK side.**
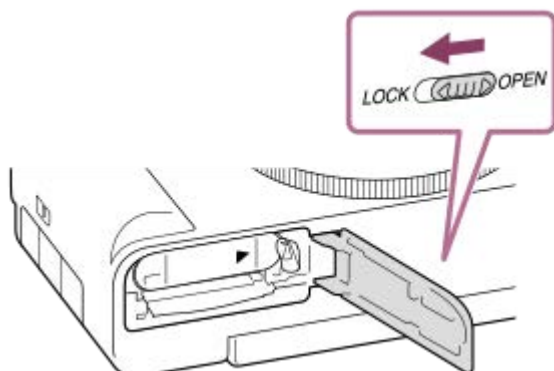
To remove the battery pack

Make sure that the access lamp is not lit, and turn off the camera. Then, slide the lock lever **(A)** and remove the battery pack. Be careful not to drop the battery pack.

(A)
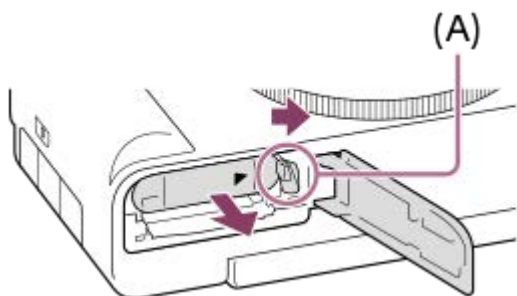
Related Topic

- Charging the battery with a commercially available AC adaptor or mobile battery
- Notes on the battery pack and charging the battery

Digital Camera
ZV-1F

Charging the battery with a commercially available AC adaptor or mobile battery

You can use a USB cable to charge from an external power source, such as a commercially available USB AC adaptor or mobile battery.

1 **Turn off the camera, and connect an external power source to the USB Type-C terminal on the camera.**
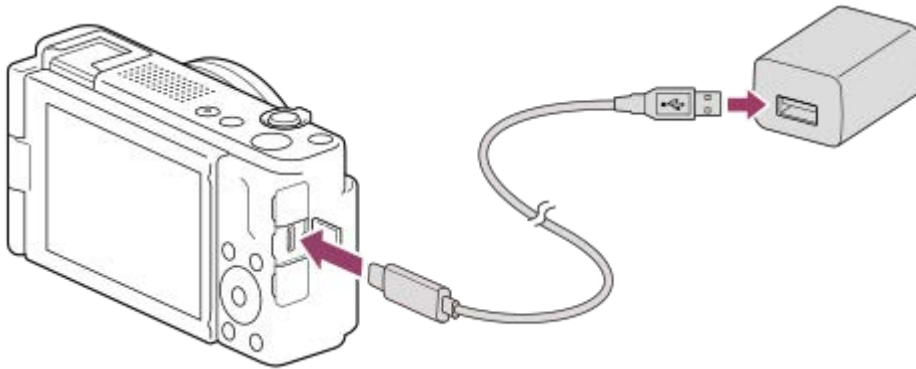
Charge lamp on the camera (orange)
Lit: Charging
Off: Charging finished
Flashing: Charging error or charging paused temporarily because the camera is not within the proper temperature range

- Charging time (Full charge): The charging time is approximately 150 min. (when using an AC adaptor with a rated output of 1.5 A).
- The above charging time applies when charging a fully depleted battery pack at a temperature of 25 °C (77 °F). Charging may take longer depending on conditions of use and circumstances.

- The charge lamp turns off when charging is completed.
- If the charge lamp lights up and then immediately turns off, the battery pack is fully charged.

Note

- When you use an AC adaptor, use one with a rated output of 1.5 A or higher.
- Use a nearby wall outlet (wall socket) when using the AC Adaptor/Battery Charger. If any malfunction occurs, disconnect the plug from the wall outlet (wall socket) immediately to disconnect from the power source. If you use the product with a charge lamp, note that the product is not disconnected from the power source even when the lamp turns off.
- If you turn on the camera, power will be supplied from the wall outlet (wall socket) and you will be able to operate the camera. However, the battery pack will not be charged.
- If the product is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not leave the product connected to a laptop computer for an extended period of time.
- Do not turn on/off or restart the computer, or wake the computer from sleep mode when a USB connection has been established between the computer and the camera. Doing so may cause a malfunction. Before turning on/off or restarting the computer, or waking the computer from sleep mode, disconnect the camera from the computer.
- Charging cannot be guaranteed with a custom-built computer, modified computer, or a computer connected through a USB hub.
- The camera may not operate correctly when other USB devices are used at the same time.

- Before charging, be sure to also read "Notes on the battery pack and charging the battery."

Related Topic

- Inserting/removing the battery pack
- Notes on the battery pack and charging the battery

Digital Camera
ZV-1F

Using the battery charger abroad

You can use the battery charger (sold separately) in any country or region where the power supply is within 100 V to 240 V AC and 50 Hz/60 Hz.
Depending on the country/region, a converting plug adaptor may be needed to connect to a wall outlet (wall socket).
Consult a travel agency, etc., and prepare one in advance.

Note

- Do not use an electronic voltage transformer as doing so may cause a malfunction.

Digital Camera
ZV-1F

Supplying power from a wall outlet (wall socket)

Use an AC adaptor, etc. to shoot and play back images while power is supplied from a wall outlet (wall socket). This conserves the camera's battery power.

1 **Insert a sufficiently charged battery pack into the camera.**

- The camera will not activate if there is no remaining battery. Insert a sufficiently charged battery pack into the camera.

2 **Connect the USB cable to the USB Type-C terminal on the camera.**

3 **Connect to a wall outlet (wall socket) using an AC adaptor, etc.**

4 **Turn on the camera.**

- An icon (🔋⚡) indicating that USB power is being supplied will appear on the monitor, and power supply will start.

Note

- As long as the power is on, the battery pack will not be charged even if the camera is connected to the AC Adaptor, etc.

- Under certain conditions, power may be supplied from the battery pack supplementarily even if you are using the AC adaptor, etc.

- Do not remove the battery pack while power is supplied from a wall outlet (wall socket). If you remove the battery pack, the camera will be turned off.

- Only connect the USB cable to the camera or disconnect the USB cable from the camera while the camera is turned off.

- Depending on the camera and battery temperature, the continuous recording time may be shortened while power is supplied from a wall outlet (wall socket). The area around the terminal may become hot. Be careful when handling it.

- When using a mobile charger as a power source, confirm that it is fully charged before use. Also, be careful of the remaining power on the mobile charger during use.

- Operation cannot be guaranteed with all external power supplies.

Related Topic

- Inserting/removing the battery pack

Digital Camera
ZV-1F

Inserting/removing a memory card

Explains how to insert a memory card (sold separately) to the camera. You can use SD memory cards and Memory Stick media with this camera.

1 **Slide the switch on the battery/memory card cover to open the cover.**
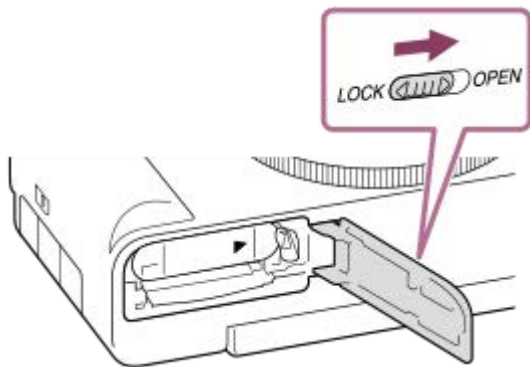
2 **Insert the memory card.**

- With the notched corner facing in the direction illustrated, insert the memory card until it clicks into place. Insert the memory card correctly. Not doing so may cause a malfunction.
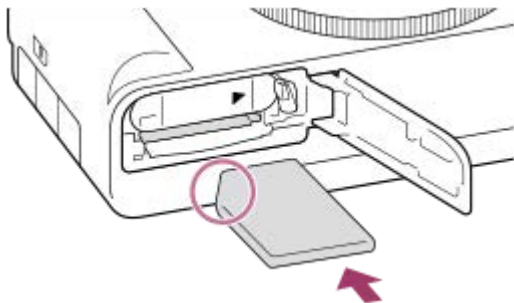
3 **Close the cover, and then slide the switch towards the LOCK side.**
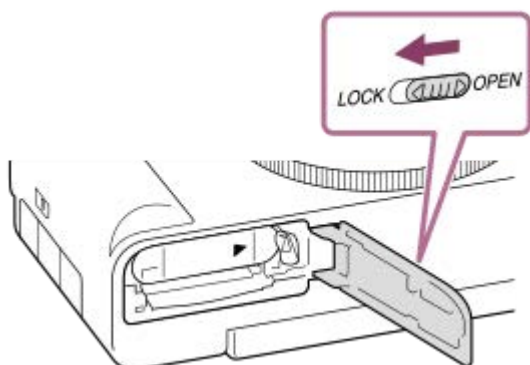
Hint

- When you use a memory card with the camera for the first time, it is recommended that you format the card on the camera for more stable performance of the memory card.

To remove the memory card

Open the memory card cover and make sure that the access lamp **(A)** is not lit, then push in the memory card lightly once to remove it.

Related Topic

- Memory cards that can be used
- Notes on memory card
- Format

Digital Camera
ZV-1F
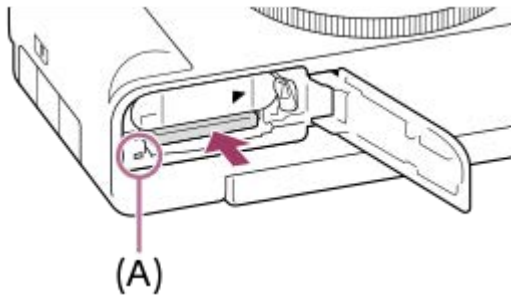
Performing initial setup for the camera

By establishing a Bluetooth connection (pairing) between the camera and a smartphone and using the smartphone application Creators' App, you can perform initial camera settings such as date and time settings from the smartphone (when the camera's system software (firmware) is Ver.1.10 or later). Install Creators' App from your smartphone's application store. If the application is already installed, be sure to update it to the latest version.
You can also install Creators' App by scanning the QR Code displayed on the screen of the camera using your smartphone.
For details on Creators' App, refer to the following website.
https://www.sony.net/ca/

1 **Press the ON/OFF (Power) button to turn on the camera.**

2 **Select the desired language and then press the center of the control wheel.**

- The privacy notice screen will appear. Read the privacy notice regarding biometrics by opening the link using your smartphone, etc.

3 **Press the center of the control wheel.**

4 **Follow the instructions on the camera screen to connect the camera with your smartphone.**

- Launch Creators' App on your smartphone to connect the camera with your smartphone.
- If you do not connect a smartphone, the area/date/time setting screen will appear.
- To connect your smartphone to the camera after the initial setup, select MENU → ⊕ (Network) → [☐ Cnct./PC Remote] → [Smartphone Connection].

5 **Perform initial camera setup on the Creators' App screen.**

- Follow the instructions on the screen to set the following items.

  – Area/Date/Time
  – Auto Power OFF Temp.
  – Device Name

  You can change these settings later from the camera menu.

On maintaining the date and time

This camera has an internal rechargeable backup battery for maintaining the date and time and other settings regardless of whether the power is turned on or off, or whether the battery pack is charged or discharged.
To charge the internal backup battery, insert a charged battery pack into the camera, and leave the product for 24 hours or more with the power turned off.
If the clock resets every time the battery pack is charged, the internal rechargeable backup battery may be worn out. Consult your service facility.

Hint

- By connecting the camera and a smartphone via the Bluetooth function, you can operate the camera using the smartphone and transfer images from the camera to the smartphone.

Note

- If the date and time setting is canceled halfway, the setting screen for the date and time appears every time you turn on the camera.

- The built-in clock of the camera may exhibit time errors. Adjust the time at regular intervals.

Related Topic

- Pairing the camera with a smartphone (Smartphone Connection)
- Area/Date/Time Setting
- Auto Power OFF Temp.
- Edit Device Name
- Privacy Notice

Digital Camera
ZV-1F

Confirmation before shooting

This section introduces useful settings and functions that you should know when using the camera. We recommend that you confirm these settings and functions before using the camera.
From each item name listed below, you can jump to the page explaining the respective functions.

Preparing a memory card for use with this camera

- Format
- Recover Image DB (still image/movie)

Preventing accidental failure to insert a memory card

- Release w/o Card

Setting whether camera operating sounds are generated

- Audio Signal(Shooting)

Convenient functions for shooting self-portrait videos and vlogs

- Product Showcase Set
- Background Defocus

Making it easy to check whether the camera is on standby or recording when set to a movie mode

- Emphasized REC Display

Resetting shooting settings or resetting all camera settings

- Setting Reset

Digital Camera
ZV-1F

Shooting movies (Intelligent Auto)

This section describes how to record movies in the [Intelligent Auto] mode. In the [Intelligent Auto] mode, the camera automatically focuses and automatically determines the exposure based on the recording conditions.

1 Press the Still/Movie/S&Q button (A) to select the movie recording mode.
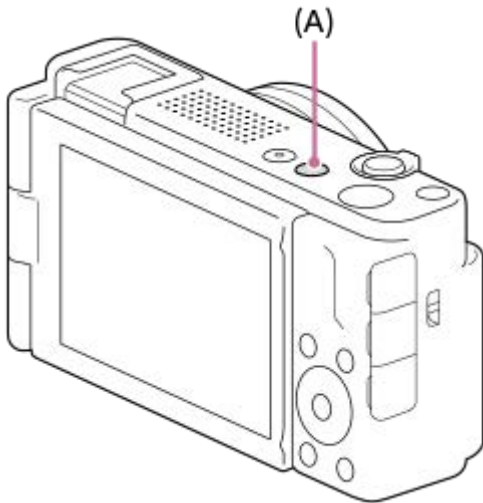
- Each time you press the button, the shooting mode switches in the order of still image shooting mode, movie recording mode, and slow-motion/quick-motion recording mode.

**2 MENU → ▶▬ (Shooting) → [Shooting Mode] → [▶▬ Shoot Mode] → [Intelligent Auto].**

3 Press the MOVIE (Movie) button to start recording.
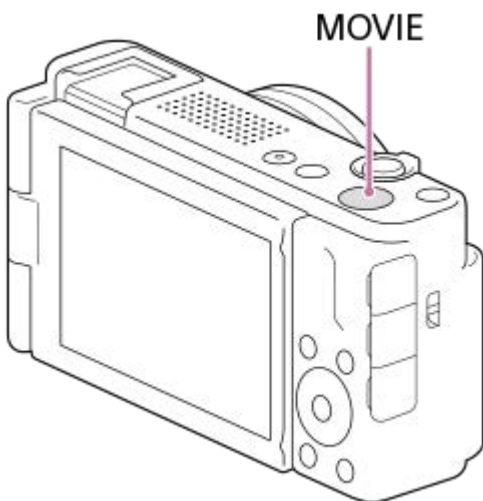
- You can also start recording by touching the icon for touch operation on the screen when [Touch Operation] is set to [On].

4 Press the MOVIE button again to stop recording.

To select the recording format (▶▮ File Format)

The resolution and degree of compatibility vary depending on the recording format (XAVC S 4K/XAVC S HD). Select the format in accordance with the purpose of the movie to be shot.

To select the frame rate or image quality (▶▮ Movie Settings)

The frame rate determines the smoothness of motion in movies. ([▶▮ Movie Settings] → [Rec Frame Rate])
The image quality changes with the bit rate. ([▶▮ Movie Settings] → [Record Setting])
If the bit rate is high, the amount of information will increase and you can shoot high-quality movies. However, this will result in a larger volume of data.
Select the frame rate and bit rate according to your preference and purpose.

To adjust the exposure (▶▮ Shoot Mode)

You can select the exposure mode in [▶▮ Shoot Mode]. Select the exposure mode through the combination of a shutter speed and aperture value.

To select the focusing method (📷 Focus Mode/ 📷 Focus Area)

Select AF-C (Continuous AF) or MF (Manual Focus) for [📷 Focus Mode]. You can specify the focus area by setting [📷 Focus Area].

Hint

- You can also assign the start/stop movie recording function to a preferred key.

- You can change the settings for ISO sensitivity, exposure compensation, and focus area while shooting movies.

- The sounds of the camera and lens in operation may be recorded during movie shooting. To prevent sounds from being recorded, set [Audio Recording] to [Off].

Note

- An icon indicating that data is being written is displayed after shooting. Do not remove the memory card while the icon is displayed.

- You cannot start recording a movie while writing data. Wait until data writing is completed and "STBY" is displayed before recording a movie.

- If the [🌡] (Overheating warning) icon appears, the temperature of the camera has risen. Turn the power off and cool the camera and wait until the camera is ready to shoot again.

- The temperature of the camera tends to rise when shooting movies continuously, and you may feel that the camera is warm. This is not a malfunction. Also, [Internal temp. high. Allow it to cool.] may appear. In such cases, turn the power off and cool the camera and wait until the camera is ready to shoot again.

- For the continuous shooting time of a movie recording, refer to "Recordable movie times." When movie recording is finished, you can record another movie by pressing the MOVIE button again. Recording may stop to protect the product, depending on the temperature of the product or the battery.

Related Topic

- File Format (movie)
- Movie Settings (movie)
- Selecting the focus method (Focus Mode)
- Selecting the focus area (Focus Area)
- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)
- REC w/ Shutter (movie)
- Audio Recording

- Recordable movie times

Digital Camera
ZV-1F

Shooting still images (Intelligent Auto)

This section describes how to shoot still images in the [Intelligent Auto] mode. In the [Intelligent Auto] mode, the camera automatically focuses and automatically determines the exposure based on the shooting conditions.

1 **Press the Still/Movie/S&Q button (A) to select the still image shooting mode.**
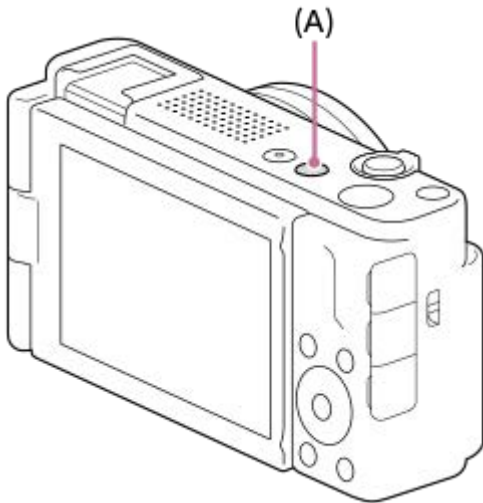
- Each time you press the button, the shooting mode switches in the order of still image shooting mode, movie recording mode, and slow-motion/quick-motion recording mode.

2 **MENU → ⌖ (Shooting) → [Shooting Mode] → [🖿 Shoot Mode] → [Intelligent Auto].**

The shooting mode will be set to 🄸🖿 (Intelligent Auto).

3 **Adjust the monitor angle, and hold the camera.**

4 **Point the camera at the subject.**

5 **Press the shutter button halfway down to focus.**

When the image is in focus, a beep sounds and the indicator (●) lights up.
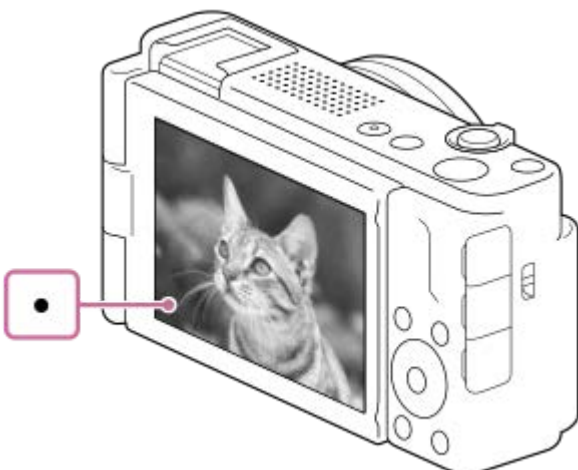
- The shortest shooting distance is approximately 5 cm (0,16 ft.) (from the lens).

6 **Press the shutter button fully down.**

To select the focus mode yourself (📷 Focus Mode / 📷 Focus Area)

Set [📷 Focus Mode] according to the shooting conditions. You can also specify the position and range for focusing in [📷 Focus Area].

Shooting while focusing on human eyes

The [📷 Subject Recog in AF] function under [Subject Recognition] is enabled in the default settings, so you can use the Eye AF function immediately.

To shoot images with the focus locked on the desired subject (Focus-lock)

When you focus on the subject, the focus is locked while the shutter button is pressed halfway down. Switch to the desired composition and press the shutter button all the way down to take the picture.

- Set [📷 Focus Mode] to **AF-S** (Single-shot AF).
- Setting [📷 Focus Area] to [Center Fix] makes it easier to focus on subjects located in the center of the screen.

> **Hint**
>
> - When the product cannot focus automatically, the focus indicator flashes and the beep does not sound. Either recompose the shot or change the focus mode or focus area settings.
>
> - The default setting for [Icon Touch Function] is [On], so you can also shoot still images by touching the shutter button displayed on the monitor.

> **Note**
>
> - An icon indicating that data is being written is displayed after shooting. Do not remove the memory card while the icon is displayed. Doing so will prevent images from being recorded normally.

Related Topic

- Selecting the focus method (Focus Mode)
- Selecting the focus area (Focus Area)
- Playing back still images
- Auto Review (still image)

Digital Camera
ZV-1F

Finding functions from MENU

The displayed MENU items vary depending on the shooting mode. In the table below, the modes in which each MENU item is displayed are indicated by the still image/movie/S&Q icons.

(A)

(B)
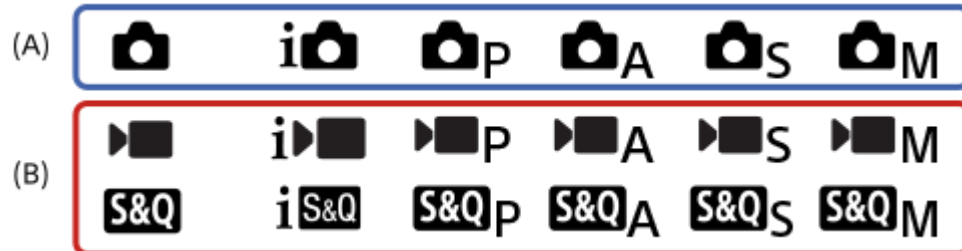
🔲 ▶️ S&Q : The menu item is displayed when the shooting mode is set to the still image shooting modes **(A)**.
🔲 ▶️ S&Q : The menu item is displayed when the shooting mode is set to the movie recording modes **(B)**.
🔲 ▶️ S&Q : The menu item is displayed when the shooting mode is set to either the still image shooting modes **(A)** or the movie recording modes **(B)**.

🔲/▶️ (Shooting) tab

Groups	🔲 ▶️ S&Q	Menu items
Image Quality/Rec	🔲 ▶️ S&Q	JPEG Quality
	🔲 ▶️ S&Q	JPEG Image Size
	🔲 ▶️ S&Q	Aspect Ratio
	🔲 ▶️ S&Q	▶️ File Format
	🔲 ▶️ S&Q	▶️ Movie Settings
	🔲 ▶️ S&Q	S&Q S&Q Settings
	🔲 ▶️ S&Q	Px Proxy Settings
	🔲 ▶️ S&Q	High ISO NR
	🔲 ▶️ S&Q	Color Space
Media	🔲 ▶️ S&Q	Format
	🔲 ▶️ S&Q	Recover Image DB
	🔲 ▶️ S&Q	Display Media Info.

64

Groups	📷 🎬 S&Q	Menu items
File	📷 🎬 S&Q	File/Folder Settings
	📷 🎬 S&Q	Select REC Folder
	📷 🎬 S&Q	Create New Folder
	📷 🎬 S&Q	🎥 Write Serial Number
	📷 🎬 S&Q	File Settings
Shooting Mode	📷 🎬 S&Q	📷 Shoot Mode
	📷 🎬 S&Q	🎬 Shoot Mode
	📷 🎬 S&Q	S&Q Shoot Mode
Drive Mode	📷 🎬 S&Q	Drive Mode
	📷 🎬 S&Q	Interval Shoot Func.
Shutter/Silent	📷 🎬 S&Q	🎥 Silent Mode
	📷 🎬 S&Q	Release w/o Card
Audio Recording	📷 🎬 S&Q	Audio Recording
	📷 🎬 S&Q	Audio Rec Level
	📷 🎬 S&Q	Wind Noise Reduct.
	📷 🎬 S&Q	Audio Level Display
Image Stabilization	📷 🎬 S&Q	🎬 SteadyShot
Zoom	📷 🎬 S&Q	🎥 Zoom Range
	📷 🎬 S&Q	Zoom Speed
	📷 🎬 S&Q	🎥 Step Zoom Magnif.
Shooting Display	📷 🎬 S&Q	🎥 Grid Line Display
	📷 🎬 S&Q	🎥 Grid Line Type
	📷 🎬 S&Q	Live View Display
	📷 🎬 S&Q	Emphasized REC Display
Marker Display	📷 🎬 S&Q	Marker Display
	📷 🎬 S&Q	Center Marker
	📷 🎬 S&Q	Aspect Marker
	📷 🎬 S&Q	Safety Zone
	📷 🎬 S&Q	Guideframe
Shooting Option	📷 🎬 S&Q	Product Showcase Set
	📷 🎬 S&Q	🎬 Self-timer

⊞ (Exposure/Color) tab

Groups	📷 🎬 S&Q	Menu items
Exposure	📷 🎬 S&Q	Auto Slow Shutter
	📷 🎬 S&Q	📷 ISO
Exposure Comp.	📷 🎬 S&Q	📷 Exposure Comp.
Metering	📷 🎬 S&Q	📷 Metering Mode
	📷 🎬 S&Q	📷 Face Priority in Multi Metering
White Balance	📷 🎬 S&Q	📷 White Balance
	📷 🎬 S&Q	📷 Priority Set in AWB
Color/Tone	📷 🎬 S&Q	📷 D-Range Optimizer
	📷 🎬 S&Q	📷 Creative Look
	📷 🎬 S&Q	📷 Picture Profile
	📷 🎬 S&Q	📷 Soft Skin Effect
Zebra Display	📷 🎬 S&Q	📷 Zebra Display
	📷 🎬 S&Q	📷 Zebra Level

AF/MF (Focus) tab

Groups	📷 🎬 S&Q	Menu items
AF/MF	📷 🎬 S&Q	📷 Focus Mode
	📷 🎬 S&Q	Pre-AF
	📷 🎬 S&Q	📷 Set Focus
Focus Area	📷 🎬 S&Q	📷 Focus Area
Subject Recognition	📷 🎬 S&Q	📷 Subject Recog in AF
	📷 🎬 S&Q	📷 Recognition Target
	📷 🎬 S&Q	Right/Left Eye Select
	📷 🎬 S&Q	📷 Sbj Recog Frm Disp.
	📷 🎬 S&Q	Face Memory
	📷 🎬 S&Q	📷 Regist. Faces Priority

Groups	📷 🎬 S&Q	Menu items
Focus Assistant	📷 🎬 S&Q	🎬 Auto Magnifier in MF
	📷 🎬 S&Q	Focus Magnifier
	📷 🎬 S&Q	🎬 Focus Magnif. Time
	📷 🎬 S&Q	📷 Initial Focus Mag.
	📷 🎬 S&Q	🎬 Initial Focus Mag.
Peaking Display	📷 🎬 S&Q	🎬 Peaking Display
	📷 🎬 S&Q	🎬 Peaking Level
	📷 🎬 S&Q	🎬 Peaking Color

▶ (Playback) tab

Groups	📷 🎬 S&Q	Menu items
Playback Target	📷 🎬 S&Q	View Mode
Magnification	📷 🎬 S&Q	⊕ Enlarge Image
	📷 🎬 S&Q	⊕ Enlarge Initial Mag.
	📷 🎬 S&Q	⊕ Enlarge Initial Position
Selection/Memo	📷 🎬 S&Q	Protect
	📷 🎬 S&Q	Rating
	📷 🎬 S&Q	Rating Set(Custom Key)
Delete	📷 🎬 S&Q	Delete
	📷 🎬 S&Q	🗑 Delete pressing twice
	📷 🎬 S&Q	Delete confirm.
Edit	📷 🎬 S&Q	Rotate
	📷 🎬 S&Q	Photo Capture
Viewing	📷 🎬 S&Q	Cont. Play for 🕐 Interval
	📷 🎬 S&Q	Play Speed for 🕐 Interval
	📷 🎬 S&Q	Slide Show
Playback Option	📷 🎬 S&Q	Image Index
	📷 🎬 S&Q	Display as Group
	📷 🎬 S&Q	Display Rotation
	📷 🎬 S&Q	Disp Specified Time Img.

🌐 (Network) tab

Groups	📷 📹 S&Q	Menu items
📱 Cnct./PC Remote	📷 📹 S&Q	Smartphone Connection
	📷 📹 S&Q	↗ Select on Cam & Send
	📷 📹 S&Q	↗ Reset Transfer Status
	📷 📹 S&Q	📱 Cnct. while Power OFF
	📷 📹 S&Q	Remote Shoot Setting
Wi-Fi	📷 📹 S&Q	Display Wi-Fi Info.
	📷 📹 S&Q	SSID/PW Reset
Bluetooth	📷 📹 S&Q	Bluetooth Function
	📷 📹 S&Q	Pairing
	📷 📹 S&Q	Manage Paired Device
	📷 📹 S&Q	Bluetooth Rmt Ctrl
	📷 📹 S&Q	Disp Device Address
Network Option	📷 📹 S&Q	Airplane Mode
	📷 📹 S&Q	Edit Device Name
	📷 📹 S&Q	Reset Network Set.

🧰 (Setup) tab

Groups	📷 📹 S&Q	Menu items
Area/Date	📷 📹 S&Q	🅰 Language
	📷 📹 S&Q	Area/Date/Time Setting
	📷 📹 S&Q	NTSC/PAL Selector
Reset Settings	📷 📹 S&Q	Setting Reset
Operation Customize	📷 📹 S&Q	📷 Custom Key Setting
	📷 📹 S&Q	▶█ Custom Key Setting
	📷 📹 S&Q	▶ Custom Key Setting
	📷 📹 S&Q	Fn Menu Settings
	📷 📹 S&Q	DISP (Screen Disp) Set
	📷 📹 S&Q	▶█ REC w/ Shutter
Touch Operation	📷 📹 S&Q	Touch Operation
	📷 📹 S&Q	Icon Touch Function
	📷 📹 S&Q	Swipe Up
	📷 📹 S&Q	Touch Func. in Shooting

Groups	📷 🎬 S&Q	Menu items
Accessibility [*]	📷 🎬 S&Q	Screen Reader
Monitor	📷 🎬 S&Q	Monitor Brightness
	📷 🎬 S&Q	Monitor Flip Direction
Display Option	📷 🎬 S&Q	Gamma Display Assist
	📷 🎬 S&Q	Gamma Disp. Assist Typ.
	📷 🎬 S&Q	📷 Auto Review
Power Setting Option	📷 🎬 S&Q	📷 Auto Monitor OFF
	📷 🎬 S&Q	Power Save Start Time
	📷 🎬 S&Q	Power OFF w/ monitor
	📷 🎬 S&Q	Auto Power OFF Temp.
Sound Option	📷 🎬 S&Q	Volume Settings
	📷 🎬 S&Q	Audio Signal(Shooting)
	📷 🎬 S&Q	Audio Signal(Start/End)
USB	📷 🎬 S&Q	USB Connection Mode
	📷 🎬 S&Q	USB LUN Setting
	📷 🎬 S&Q	USB Power Supply
External Output	📷 🎬 S&Q	📷 HDMI Resolution
	📷 🎬 S&Q	🎬 HDMI Output Settings
	📷 🎬 S&Q	HDMI Info. Display
	📷 🎬 S&Q	CTRL FOR HDMI
Setup Option	📷 🎬 S&Q	REC Lamp
	📷 🎬 S&Q	Version
	📷 🎬 S&Q	Privacy Notice

* For some models only

☆ (My Menu) tab

Groups	📷 🎬 S&Q	Menu items
My Menu Setting	📷 🎬 S&Q	Add Item
	📷 🎬 S&Q	Sort Item
	📷 🎬 S&Q	Delete Item
	📷 🎬 S&Q	Delete Page
	📷 🎬 S&Q	Delete All
	📷 🎬 S&Q	Display From My Menu

Note

- The order in which the menu tabs are listed here differs from the actual display.

Digital Camera
ZV-1F

Contents of this chapter

The following table of contents lists the features described in this chapter ("Using the shooting functions"). From each item name, you can jump to the page describing the respective functions.

Selecting a shooting mode

Convenient functions for shooting self-portrait videos and vlogs

Focusing

Subject Recognition

Using focusing functions

Adjusting the exposure/metering modes

- Step Zoom Magnif. (still image/movie)
- About zoom scale

Reducing blur

- SteadyShot (movie)

Noise reduction

- High ISO NR

Setting the monitor display during shooting

- Auto Review (still image)
- Grid Line Display (still image/movie)
- Grid Line Type (still image/movie)
- Live View Display
- Bright Monitoring
- Emphasized REC Display
- Marker Display
- Gamma Display Assist
- Gamma Disp. Assist Typ.

Recording movie audio

- Audio Recording
- Audio Rec Level
- Wind Noise Reduct.
- Audio Level Display

Livestreaming video and audio (USB Streaming)

Digital Camera
ZV-1F

Shoot Mode (movie)

You can set the shooting mode for movie recording.

1 **Press the Still/Movie/S&Q button to select the movie recording mode.**

2 **MENU → ▶■ (Shooting) → [Shooting Mode] → [▶■ Shoot Mode] → desired shooting mode.**

Menu item details

i▶■ (Intelligent Auto) :
Allows you to shoot movies with the camera automatically adjusted to suitable settings.

▶■P (Program Auto) :
Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

▶■A (Aperture Priority) :
Allows you to shoot after adjusting the aperture value manually.

▶■S (Shutter Priority) :
Allows you to shoot after adjusting the shutter speed manually.

▶■M (Manual Exposure) :
Allows you to shoot after adjusting the exposure (both the shutter speed and the aperture value) manually.

Related Topic

- Shooting movies (Intelligent Auto)

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ZV-1F

Shoot Mode (S&Q)

You can set the shooting mode for slow-motion/quick-motion recording. You can change the shooting settings and playback speed in [**S&Q** S&Q Settings].

1 **Press the Still/Movie/S&Q button to select the slow-motion/quick-motion recording mode.**

2 **MENU→ ▶▇ (Shooting) → [Shooting Mode] → [S&Q Shoot Mode] → desired shooting mode.**

Menu item details

i S&Q (Intelligent Auto) :
Allows you to shoot slow-motion/quick-motion movies with the camera automatically adjusted to suitable settings.

S&Q P (Program Auto) :
Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).

S&Q A (Aperture Priority) :
Allows you to shoot after adjusting the aperture value manually.

S&Q S (Shutter Priority) :
Allows you to shoot after adjusting the shutter speed manually.

S&Q M (Manual Exposure) :
Allows you to shoot after adjusting the exposure (both the shutter speed and the aperture value) manually.

Shoot Mode (still image)

You can set the shooting mode for still image shooting according to the subject you wish to shoot or the function you wish to adjust.

1 **Press the Still/Movie/S&Q button to select the still image shooting mode.**

2 **MENU → (Shooting) → [Shooting Mode] → [Shoot Mode] → desired shooting mode.**

Menu item details

(Intelligent Auto) :
Allows you to shoot still images with the camera automatically adjusted to suitable settings.

P (Program Auto) :
Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value (F value)). Also you can select various settings using the menu.

A (Aperture Priority) :
Allows you to adjust the aperture and shoot when you want to blur the background, etc.

S (Shutter Priority) :
Allows you to shoot fast-moving subjects etc., by manually adjusting the shutter speed.

M (Manual Exposure) :
Allows you to shoot still images with the desired exposure by adjusting the exposure (both the shutter speed and the aperture value (F value)).

Related Topic
- Shoot Mode (still image): Intelligent Auto
- Shoot Mode (still image): Program Auto
- Shoot Mode (still image): Aperture Priority
- Shoot Mode (still image): Shutter Priority
- Shoot Mode (still image): Manual Exposure

Digital Camera
ZV-1F

Shoot Mode (still image): Intelligent Auto

The camera shoots still images with automatically adjusted settings.

1 **Press the Still/Movie/S&Q button to select the still image shooting mode.**

2 **MENU → (Shooting) → [Shooting Mode] → [Shoot Mode] → [Intelligent Auto].**

3 **Point the camera at the subject.**

4 **Adjust the focus and shoot the image.**

Hint

- If the camera detects that the subject is moving, the (motion) mark will appear.

Note

- In the [Intelligent Auto] mode, the [ISO] and [White Balance] functions are set automatically, and you cannot adjust the settings on your own.

Related Topic

- Background Defocus

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ZV-1F

Shoot Mode (still image): Program Auto

Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value).
You can set shooting functions such as [ISO].

1 **Press the Still/Movie/S&Q button to select the still image shooting mode.**

2 **MENU → (Shooting) → [Shooting Mode] → [Shoot Mode] → [Program Auto].**

3 **Set the shooting functions to your desired settings.**

4 **Adjust the focus and shoot the subject.**

Program Shift

You can change the shutter speed and aperture (F-value) combination without changing the appropriate exposure set by the camera.
Turn the control wheel to select the aperture value and shutter speed combination.

- "P" on the screen changes to "P*" when you turn the control wheel.
- To cancel program shift, set the shooting mode to other than [Program Auto], or turn off the camera.

Note

- According to the brightness of the environment, the program shift may not be used.

- Set the shooting mode to another one than "P" or turn off the power to cancel the setting you made.

- When the brightness changes, the aperture (F-value) and shutter speed also change while maintaining the shift amount.

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ZV-1F

Shoot Mode (still image): Aperture Priority

You can shoot by adjusting the aperture and changing the range in focus, or by defocusing the background.

1   **Press the Still/Movie/S&Q button to select the still image shooting mode.**

2   **MENU → (Shooting) → [Shooting Mode] → [Shoot Mode] → [Aperture Priority].**

3   **Select the desired value by turning the control wheel.**

- Smaller F-value: The subject is in focus, but objects in front of and beyond the subject are blurred.
  Larger F-value: The subject and its foreground and background are all in focus.
- If the aperture value you have set is not suitable for appropriate exposure, the shutter speed on the shooting screen will blink. If this happens, change the aperture value.

4   **Adjust the focus and shoot the subject.**

The shutter speed is automatically adjusted to obtain proper exposure.

Note

- The brightness of the image on the screen may differ from the actual image being shot.

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Digital Camera
ZV-1F

Shoot Mode (still image): Shutter Priority

You can express the movement of a moving subject in various ways by adjusting the shutter speed, for example, at the instant of the movement with high speed shutter, or as a trailing image with low speed shutter.

1 **Press the Still/Movie/S&Q button to select the still image shooting mode.**

2 **MENU → (Shooting) → [Shooting Mode] → [Shoot Mode] → [Shutter Priority].**

3 **Select the desired value by turning the control wheel.**

- If proper exposure cannot be obtained after setup, the aperture value on the shooting screen blinks. If this happens, change the shutter speed.

4 **Adjust the focus and shoot the subject.**

The aperture is automatically adjusted to obtain proper exposure.

Hint

- Use a tripod to prevent camera-shake when you have selected a slow shutter speed.

- When you shoot indoor sports scenes, set the ISO sensitivity to a higher value.

Note

- The SteadyShot warning indicator does not appear in shutter speed priority mode.

- The brightness of the image on the screen may differ from the actual image being shot.

Digital Camera
ZV-1F

Shoot Mode (still image): Manual Exposure

You can shoot with the desired exposure setting by adjusting both the shutter speed and aperture.

1 **Press the Still/Movie/S&Q button to select the still image shooting mode.**

2 **MENU → [⃝] (Shooting) → [Shooting Mode] → [▢ Shoot Mode] → [Manual Exposure].**

3 **Press the down side of the control wheel to select the shutter speed or aperture value, then turn the control wheel to select a value.**

- You can also set [ISO] to [ISO AUTO] in manual exposure mode. The ISO value automatically changes to achieve the appropriate exposure using the aperture value and shutter speed you have set.
- When [ISO] is set to [ISO AUTO], the ISO value indicator will blink if the value you have set is not suitable for appropriate exposure. If this happens, change the shutter speed or aperture value.
- When [ISO] is set to other than [ISO AUTO], use MM (Metered Manual)* to check the exposure value.
  Toward +: Images become brighter.
  Toward -: Images become darker.
  0: Appropriate exposure analyzed by the camera.

  *   Indicates under/over for appropriate exposure.

4 **Adjust the focus and shoot the subject.**

> **Hint**
>
> - You can change the shutter speed and aperture (F-value) combination without changing the set exposure value (Manual shift). Assign [AEL hold] or [AEL toggle] to a desired key using the custom key settings, and then turn the control wheel while pressing that key.

> **Note**
>
> - When the amount of ambient light exceeds the metering range of the Metered Manual, the Metered Manual indicator flashes.
>
> - The brightness of the image on the screen may differ from the actual image being shot.

Related Topic

- ISO (still image/movie)

Digital Camera
ZV-1F

Auto Slow Shutter

Sets whether or not to adjust the shutter speed automatically when recording movies if the subject is dark. This function cannot be used during slow-motion/quick-motion shooting.

1 MENU → (Exposure/Color) → [Exposure] → [Auto Slow Shutter] → desired setting.

Menu item details

On:
Uses Auto Slow Shutter. The shutter speed automatically slows when recording in dark locations. You can reduce noise in the movie by using a slow shutter speed when recording in dark locations.

Off:
Does not use Auto Slow Shutter. The recorded movie will be darker than when [On] is selected, but you can record movies with smoother motion and less object blur.

> **Note**
>
> - [Auto Slow Shutter] does not function in the following situations:
>   - **S** (Shutter Priority)
>   - **M** (Manual Exposure)
>   - When [ISO] is set to other than [ISO AUTO]

Digital Camera
ZV-1F

Product Showcase Set

The camera settings are optimally configured for situations such as movie shooting for product reviews. The camera tends to focus on objects that are closer to it.

1 **Press ☐ (Product Showcase Set) button to switch the [Product Showcase Set] function on or off.**

You can also switch the [Product Showcase Set] function on or off by selecting MENU → ☐ / ▶■ (Shooting) → [Shooting Option].

Menu item details

On:
Shoots with optimal settings for product reviews. [☐ Subject Recog in AF] under [Subject Recognition] is locked to [Off], and [☐ Focus Area] is locked to [Spot: M].
Off:
Shoots in the ordinary shooting mode.

Hint

- When focusing on a product, adjust the position of the product so that it covers the frame in the center of the monitor.

- When using the digital zoom function, the frame is not displayed in the center of the monitor. Adjust the position of the subject so that the product is located in the center of the monitor.

Note

- Settings for [Product Showcase Set] cannot be changed during movie recording.

Digital Camera
ZV-1F

Background Defocus

You can change the level of defocus in the background simply by pressing the button while shooting still images or movies.

1 **Press the ⚃♟ (Background Defocus) button repeatedly.**

Once you press the button, the [Background Defocus] mode is activated, and the background becomes defocused. Afterwards, the level of defocus in the background switches between "Defocus" and "Clear" each time you press the button.

- The camera returns to normal shooting mode and the aperture returns to the former value when you press the Still/Movie/S&Q button.

Hint

- The aperture value becomes locked and the icon ⚃♟ (Defocus) or ▲▲♟ (Clear) is indicated instead of the aperture value in the [Background Defocus] mode. The aperture value is locked at wide open when ⚃♟ (Defocus) is indicated. The aperture value is locked at F5.6 when ▲▲♟ (Clear) is indicated.

Note

- [Background Defocus] mode is canceled, the camera returns to normal shooting mode, and the aperture returns to the former value when you perform the following operations:
  - Turning the power off and back on again
  - Pressing the Still/Movie/S&Q button
  - Pressing the MENU button
  - Changing the aperture value using the control wheel while the shooting mode is set to [Aperture Priority] or [Manual Exposure]
  - 🎬 Exposure Comp.
  - Performing Program Shift or Manual Shift

- Even if you press the button, you cannot change the level of defocus while using [🎬 Set Focus] or [Focus Magnifier] in the [Background Defocus] mode.

- Depending on the shooting mode and shooting conditions, the camera may be unable to obtain the optimal exposure due to the locking of the aperture value in the [Background Defocus] mode.

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Digital Camera
ZV-1F

Self-timer (movie)

You can start shooting with the self-timer when recording a movie.

1 **Press ↺ / ⊒ (Drive Mode) of the control wheel.**

The [▶ Self-timer] setting screen will be displayed.

- You can also set the drive mode by selecting MENU → ▶ (Shooting) → [Shooting Option] → [▶ Self-timer].

2 **Select [On] using the control wheel and set the desired countdown time.**

- Rec Start delay: Sets the count time until the start of movie recording. (3 s/5 s/10 s)

- Repetition: Sets whether to repeat the movie self-timer. (Repeat/Only Once)
  If you select [Repeat], the movie self-timer will be activated repeatedly even after movie recording is completed. If you select [Only Once], the movie self-timer will be canceled after movie recording is completed, and the camera will return to the normal movie recording standby mode.

3 **Adjust the focus and press the MOVIE (movie) button.**

When the countdown appears on the recording standby screen, the self-timer lamp flashes, a beep sounds, and recording starts after the designated number of seconds has elapsed.

- Press the MOVIE button again to end recording.

Menu item details

On:
Uses the movie self-timer function.
Off:
Does not use the movie self-timer function.

> **Hint**
> - To stop the self-timer countdown, press the MOVIE button again or press the button to which the [▶ Self-timer] function is assigned.

> **Note**
> - If you press the MOVIE button in the still image shooting mode to start movie recording, [▶ Self-timer] will not work.

Digital Camera
ZV-1F

Selecting the focus method (Focus Mode)

Selects the focus method to suit the movement of the subject.

1. MENU → $^{AF}_{MF}$ (Focus) → [AF/MF] → [⚙ Focus Mode] → desired setting.

Menu item details

AF-S **Single-shot AF (only during still image shooting):**
The product locks the focus once focusing is complete. Use this when the subject is motionless.

AF-C **Continuous AF (only when shooting movies)**
The camera continues to focus during movie recording.

MF **Manual Focus:**
Adjusts the focus manually. If you cannot focus on the intended subject using auto focus, use [Manual Focus].

Focus indicator

● (lit):
The subject is in focus and the focus is locked.
● (flashing):
The subject is not in focus.

Subjects on which it is difficult to focus using auto focus

- Dark and distant subjects
- Subjects with poor contrast
- Subjects seen through glass
- Fast-moving subjects
- Reflective light or shiny surfaces
- Flashing light
- Back-lit subjects
- Continuously repetitive patterns, such as the facades of buildings
- Subjects in the focusing area with different focal distances

Hint

- When you set the focus to infinity in [Manual Focus] mode, make sure that the focus is on a sufficiently distant subject by checking the monitor.

Note

- Only [Continuous AF] and [Manual Focus] are available in the movie shooting mode.

Related Topic

- Selecting the focus area (Focus Area)
- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)
- Manual Focus (Set Focus)

Digital Camera
ZV-1F

Selecting the focus area (Focus Area)

Set the type of focusing frame when shooting with the auto focus. Select the mode according to the subject.

1 MENU → $^{AF}_{MF}$ (Focus) → [Focus Area] → [Focus Area] → desired setting.

Menu item details

Wide:
Focuses on a subject covering the whole range of the screen automatically. When you press the shutter button halfway down in the still image shooting mode, a green frame is displayed around the area that is in focus.

Zone:
Select a zone on the monitor on which to focus, and the product will automatically select a focus area.

Center Fix:
Focuses automatically on a subject in the center of the image. Use together with the focus-lock function to create the composition you want.

Spot: S/Spot: M/Spot: L:
Allows you to move the focusing frame to a desired point on the screen and focus on an extremely small subject in a narrow area.

Expand Spot:
If the product cannot focus on a single selected point, it uses focus points around the [Spot] as a secondary priority area for focusing.

> **Note**
> - The focus area may not light up during continuous shooting or when the shutter button is pressed all the way down at once.

Examples of the focusing frame display

The focusing frame differs as follows.

When focusing on a larger area
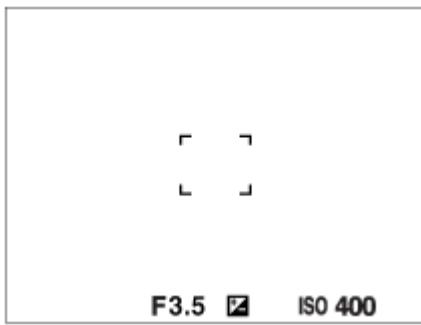
When focusing on a smaller area
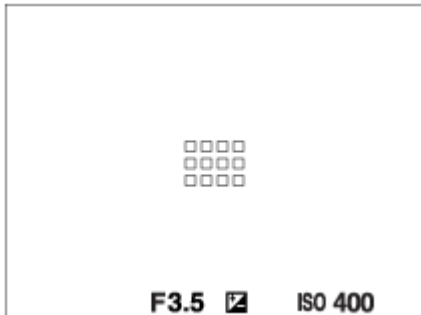
- When [🔾 Focus Area] is set to [Wide] or [Zone], the focusing frame may switch between "When focusing on a larger area" and "When focusing on a smaller area" depending on the subject or situation.

When focus is achieved automatically based on the whole range of the monitor
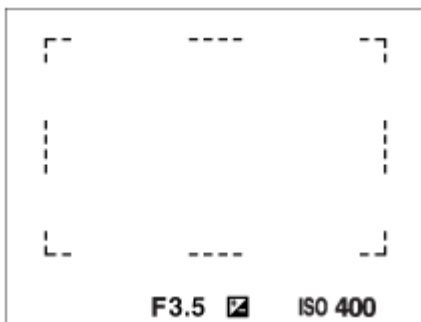
- When you use a zoom function, the [🔾 Focus Area] setting is disabled and the focusing frame is shown by the dotted line. The AF operates with priority on and around the center area.

To move the focus area

- When [🔾 Focus Area] is set to [Zone], [Spot] or [Expand Spot], if pressing the button to which [Focus Standard] is assigned, you can shoot while moving the focusing frame using the top/bottom/left/right sides of the control wheel. To return the focusing frame to the center of the monitor, press the 🗑 (Delete) button while moving the frame. To change the shooting settings using the control wheel, press the button to which [Focus Standard] is assigned.

Hint

- You can move the focusing frame quickly by touching and dragging it on the monitor. Set [Touch Operation] to [On], and set [Touch Func. in Shooting] to [Touch Focus] beforehand.

Note

- You cannot execute functions assigned to the control wheel or the 🗑 (Delete) button while moving the focusing frame.

Related Topic

- Selecting the focus method (Focus Mode)
- Touch Operation
- Focusing using touch operations (Touch Focus)

Digital Camera
ZV-1F

Tracking subject (Tracking function)

This camera has the function of tracking which tracks the subject, and keeps marking it with the focusing frame.

- You can refer to the related functions under "Related Topic" at the bottom of this page.

Setting the start position to track by touch operation ([Touch Tracking] under [Touch Func. in Shooting])

You can set the subject to track by touching it on the monitor.

- This function is available when [Focus Mode] is set to [Single-shot AF] (when shooting still images) or [Continuous AF] (when shooting movies).

Related Topic

- Selecting the focus method (Focus Mode)
- Starting tracking with touch operations (Touch Tracking)

Digital Camera
ZV-1F

Manual Focus (Set Focus)

📷 🎞 S&Q

When it is difficult to focus properly in the autofocus mode, you can adjust the focus manually.

1 MENU → $^{AF}_{MF}$ (Focus) → [AF/MF] → [Focus Mode] → [Manual Focus].

2 MENU → $^{AF}_{MF}$ (Focus) → [AF/MF] → [🎯 Set Focus].

The screen for manual focusing operations will appear.

3 Press the left/right side of the control wheel or turn the control wheel to adjust the focus.

- The focus distance will be displayed on the screen.
- To enable fine adjustments to the focus under various conditions, the focusing indicator can be moved beyond infinity. When you want to focus at infinity, do not move the indicator to the end of the bar. Instead, adjust the focus while checking the monitor.
- To return to the shooting screen, press the center of the control wheel.

Hint

- Using [🎯 Auto Magnifier in MF] allows you to manually focus more easily because the image is automatically enlarged during manual focus adjustments. While the magnified image is displayed, you can use the top/bottom/left/right side of the control wheel to adjust which part of the image to magnify. Turn the control wheel to adjust the focus.
- When you use [🎯 Peaking Display], the outlines of in-focus ranges are enhanced using a specific color. This function allows you to check the focus easily.
- The screen for manual focusing operations can be displayed when shooting in the manual focusing mode by pressing the key to which you assigned [Focus Standard] using [📷 Custom Key Setting] or [🎬 Custom Key Setting].

Note

- Manually set focus distances are canceled when [🎯 Focus Mode] is reselected.
- The displayed focus distance is just a reference.

Related Topic
- Auto Magnifier in MF (still image/movie)
- Peaking Display

Digital Camera
ZV-1F

Focusing on human eyes

The camera can automatically recognize faces and eyes and focus on the eyes.
The following explanation is for cases where the recognition target is human. The faces of up to 8 subjects can be recognized.
There are two methods of focusing on eyes, with some differences between their specifications. Select the appropriate method according to your purpose.

Item	[🔲 Subject Recog in AF] function	[Subject Recognition AF] via a custom key
Characteristics	The camera will recognize faces/eyes with greater priority.	The camera will recognize faces/eyes exclusively.
Advance preparation	● Select [🔲 Subject Recog in AF] → [On]. ● Select [🔲 Recognition Target] → [Human].	Assign [Subject Recognition AF] to the desired key using [📷 Custom Key Setting].
How to focus	Press the shutter button halfway down.	Press the key to which you have assigned the [Subject Recognition AF] function.*
Function details	● When the camera recognizes a face or eye inside or around the designated [🔲 Focus Area], it focuses on the face or eye with greater priority. ● If the camera does not recognize any faces or eyes inside or around the designated [🔲 Focus Area], it will focus on another recognizable subject.	● The camera focuses exclusively on faces or eyes anywhere on the screen, regardless of the setting for [🔲 Focus Area]. ● The camera will not automatically focus on another subject if no face or eye is recognized anywhere on the screen.
Focus mode	Follows the setting designated with [🔲 Focus Mode]	Follows the setting designated with [🔲 Focus Mode]
Focus area	Follows the setting designated with [🔲 Focus Area]	The focus area temporarily becomes the entire screen, regardless of the setting for [🔲 Focus Area].

* Regardless of whether [🔲 Subject Recog in AF] is set to [On] or [Off], you have assigned [Subject Recognition AF] to a custom key, you can use [Subject Recognition AF] while you are pressing that custom key.

[Subject Recognition AF] by custom key

This function can be used by assigning [Subject Recognition AF] to a custom key. The camera can focus on eyes as long as you are pressing the key. This is useful when you want to temporarily perform auto-focusing anywhere on the entire screen regardless of the setting for [🔲 Focus Area].
If the camera does not recognize any faces or eyes, auto-focusing will not be performed.

1. MENU → 🔧 (Setup) → [Operation Customize] → [📷 Custom Key Setting] → desired key, then assign the [Subject Recognition AF] function to the key.

2. MENU → AF_{MF} (Focus) → [Subject Recognition] → [▣ Recognition Target] → [Human].
3. Point the camera at the face of a human, and press the key to which you have assigned the [Subject Recognition AF] function.
   Press the shutter button while pressing the key.

To focus on the eyes of an animal

Set [▣ Recognition Target] to [Animal (▣)] before shooting.
If the recognition target is an animal, eyes can be detected only when shooting still images.

> **Hint**
>
> - Setting [▣ Sbj Recog Frm Disp.] to [On] makes it easier to check the detection status of faces or eyes.

> **Note**
>
> - It may be difficult to focus on eyes in the following situations:
>   - When the person is wearing sunglasses.
>   - When the front hair covers the person's eyes.
>   - In low-light or back-lit conditions.
>   - When the eyes are closed.
>   - When the subject is in the shade.
>   - When the subject is out of focus.
>   - When the subject is moving too much
>
>   There are also other situations in which it may not be possible to focus on the eyes.
>
> - When the camera cannot focus on human eyes, it will recognize and focus on a face instead. The camera cannot focus on eyes when no human faces are recognized.
>
> - The camera may not recognize faces at all or may accidentally recognize other objects as faces under some conditions.
>
> - The camera cannot recognize faces or eyes in the following situations:
>   - When using digital zoom function
>
> - The camera cannot recognize faces in the following situations when shooting movies:
>   - When [▶▣ File Format] is set to [XAVC S 4K] and [Px Proxy Recording] under [Px Proxy Settings] is set to [On]
>   - When [▶▣ File Format] is set to [XAVC S 4K], [Rec Frame Rate] under [▶▣ Movie Settings] is set to [30p], and [Rec. Media dur HDMI Output] under [▶▣ HDMI Output Settings] is set to [On]
>   - When [▶▣ File Format] is set to [XAVC S 4K] and connecting to the camera from a computer, etc.
>   - When [▶▣ File Format] is set to [XAVC S 4K], and you are performing remote shooting via a smartphone
>   - When [▶▣ File Format] is set to [XAVC S HD] and [Rec Frame Rate] under [▶▣ Movie Settings] is set to [120p]/[100p]

Related Topic

- Subject Recog in AF (still image/movie)
- Recognition Target (still image/movie)
- Right/Left Eye Select
- Sbj Recog Frm Disp. (still image/movie)
- Selecting the focus method (Focus Mode)
- Selecting the focus area (Focus Area)

Digital Camera
ZV-1F

Subject Recog in AF (still image/movie)

Sets whether or not the camera recognizes faces or eyes inside the focus area while performing autofocus, and then focuses on the eyes automatically.

1 MENU→ AF_{MF} (Focus) → **[Subject Recognition]** → **[Subject Recog in AF] → desired setting.**

Menu item details

On:
Focuses on the faces or eyes with priority if there are faces or eyes which the camera can recognize inside or around the designated focus area.

Off:
Does not prioritize faces or eyes when performing auto-focusing.

> **Hint**
>
> - When [Subject Recog in AF] is assigned to the desired key using [Custom Key Setting] or [Custom Key Setting], you can switch the [Subject Recog in AF] function on or off by pressing the key.

> **Note**
>
> - If the camera does not recognize any faces or eyes inside or around the designated focus area, it will focus on another subject that the camera can recognize.

Related Topic

- Focusing on human eyes

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Digital Camera
ZV-1F

Recognition Target (still image/movie)

Selects the target to be recognized with the [Subject Recog in AF] function.

1 MENU → AF_MF (Focus) → [Subject Recognition] → [Recognition Target] → desired setting.

Menu item details

Human:
Recognizes human faces/eyes.

Animal ( ):
Recognizes animal eyes.

> **Hint**
>
> - To make the camera recognize animal eyes, compose the shot so that the animal's eyes and nose are within the angle of view. Once you focus on the animal's face, it will be easier to recognize the animal's eyes.

> **Note**
>
> - When [Recognition Target] is set to [Animal ( )], the following functions cannot be used.
>   - Face Priority in Multi Metering
>   - Regist. Faces Priority
>   - Eye recognition for movie shooting
>
> - Even when [Recognition Target] is set to [Animal ( )], the eyes of some types of animals cannot be recognized.

Digital Camera
ZV-1F

Right/Left Eye Select

Sets whether to focus on the left or right eye when the camera recognizes human eyes.

1. MENU → $^{AF}_{MF}$ (Focus) → [Subject Recognition] → [Right/Left Eye Select] → desired setting.

Menu item details

Auto:
The camera automatically selects either the left eye or right eye.

Right Eye:
The right eye of the subject (the eye on the left side from the photographer's perspective) is selected.

Left Eye:
The left eye of the subject (the eye on the right side from the photographer's perspective) is selected.

[Switch Right/Left Eye] by custom key

You can also switch between the right eye and left eye to focus with the custom key.
When [Right/Left Eye Select] is set to [Right Eye] or [Left Eye], you can switch the eye to be focused by pressing the custom key to which you have assigned the [Switch Right/Left Eye] function.
When [Right/Left Eye Select] is set to [Auto], you can temporarily switch the eye to be focused by pressing the custom key to which you have assigned the [Switch Right/Left Eye] function.
The temporary left/right selection is canceled when you perform the following operations, etc. The camera returns to automatic eye selection.

- Pressing the center of the control wheel
- Stopping pressing the shutter button halfway down
- Stopping pressing the custom key to which [Subject Recognition AF] is assigned
- Pressing the MENU button

Hint

- When [Sbj Recog Frm Disp.] is set to [On], the eye recognition frame appears around the eye you selected using [Right/Left Eye Select] or [Switch Right/Left Eye] with the custom key.

Note

- You cannot select the right/left eye when [Recognition Target] is set to [Animal ( )].

Digital Camera
ZV-1F

Sbj Recog Frm Disp. (still image/movie)

Sets whether to display the subject recognition frame when faces or eyes are recognized.

1 MENU → $^{AF}_{MF}$ (Focus) → [Subject Recognition] → [Sbj Recog Frm Disp.] → desired setting.

Menu item details

On:
Displays a recognition frame when faces or eyes are recognized.
Off:
Does not display a recognition frame when faces or eyes are recognized.

Face recognition frame

When the camera recognizes a face, the gray face-recognition frame appears. The frame color will be reddish purple if the recognized face has been registered using the [Face Memory] function.
The face recognition frame turns white when the face is recognized inside or around the focus area, and the camera determines that autofocus is enabled.

Eye recognition frame

A white eye recognition frame appears when an eye is recognized and the camera determines that auto-focusing is possible.
The eye recognition frame is displayed as follows when [Recognition Target] is set to [Animal ( )].
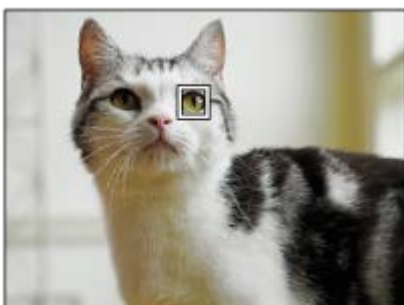
> **Note**

- If the subject is moving too much or too fast, the recognition frame may not be displayed correctly over their eyes.

- If the eyes are not recognized, the eye recognition frame will not be displayed.

- Even if [Sbj Recog Frm Disp.] is set to [Off], a green focusing frame will appear over faces or eyes that are in focus when you press the shutter button halfway down, etc.

Digital Camera
ZV-1F

Face Memory

Sets personal face data. If you register faces in advance, the product can focus on the registered face as a priority.
Up to eight faces can be registered.

1 MENU → AF_{MF} (Focus) → [Subject Recognition] → [Face Memory] → desired setting item.

Menu item details

New Registration:
Shoots and registers faces.

Order Exchanging:
When multiple faces are registered, the order of priority for the registered face data can be changed.

Delete:
Deletes registered faces one by one.

Delete All:
Deletes all registered faces at once.

> **Note**
>
> - When performing [New Registration], shoot the face from the front in a brightly lit place. The face may not be registered correctly if it is obscured by a hat, a mask, sunglasses, etc.
>
> - Even if you execute [Delete], the data for registered face will remain in the product. To delete the data for registered faces from the product, select [Delete All].

Related Topic
- Regist. Faces Priority (still image/movie)

Digital Camera
ZV-1F

Regist. Faces Priority (still image/movie)

Sets whether to focus with higher priority on faces registered using [Face Memory].

1 MENU → $^{AF}_{MF}$ (Focus) → [Subject Recognition] → [Regist. Faces Priority] → desired setting.

Menu item details

On:
Focuses with higher priority on faces registered using [Face Memory].

Off:
Focuses without giving higher priority to registered faces.

> **Hint**
>
> - To use the [Regist. Faces Priority] function, set as follows.
>   - [Subject Recog in AF] under [Subject Recognition]: [On]
>   - [Recognition Target] under [Subject Recognition]: [Human]

Related Topic

- Focusing on human eyes
- Face Memory

Digital Camera
ZV-1F

Focus Standard

If you press the key to which [Focus Standard] is assigned, you can recall useful functions such as moving the focusing frame quickly, etc. depending on the focus area settings.

1 **MENU → (Setup) → [Operation Customize] → [Custom Key Setting] or [Custom Key Setting] → desired key, then assign the [Focus Standard] function to the key.**

2 **Press the key to which [Focus Standard] is assigned.**

- What you can do by pressing the key varies depending on the setting for [Focus Area].

Examples of [Focus Standard] key functions

- When [Focus Area] is set to any of the following parameters, pressing the key enables you to move the focusing frame using the top/bottom/left/right side of the control wheel.

  - [Zone]
  - [Spot: S]/[Spot: M]/[Spot: L]
  - [Expand Spot]

- When [Focus Area] is set to [Wide] or [Center Fix], pressing the key in the autofocus mode makes the camera focus on the center of the screen.

Hint

- If you press the key to which [Focus Standard] is assigned when [Focus Mode] is set to [Manual Focus], the screen for manual focusing operations will appear.

Note

- You cannot set the [Focus Standard] function to [Left Button] or [Right Button].

Related Topic

- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)
- Selecting the focus area (Focus Area)

Digital Camera
ZV-1F

AF/MF Selector

You can easily switch the focusing mode from auto to manual and vice versa while shooting without changing your holding position.

1 MENU → (Setup) → [Operation Customize] → [Custom Key Setting] or [Custom Key Setting] → desired button → [AF/MF Selector Hold] or [AF/MF Selector Toggle].

Menu item details

AF/MF Selector Hold:
Switches the focusing mode while the button is held down.

AF/MF Selector Toggle:
Switches the focusing mode until the button is pressed again.

> **Note**
> - You cannot set the [AF/MF Control Hold] function to [Left Button] or [Right Button] of the control wheel.

Related Topic
- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)

Digital Camera
ZV-1F

Pre-AF

The product automatically adjusts focus before you press the shutter button halfway down.

1 MENU → $^{AF}_{MF}$ (Focus) → [AF/MF] → [Pre-AF] → desired setting.

Menu item details

On:
Adjusts focus before you press the shutter button halfway down.

Off:
Does not adjust focus before you press the shutter button halfway down.

> **Note**
> - During focusing operations, the screen may shake.

Digital Camera
ZV-1F

Auto Magnifier in MF (still image/movie)

Enlarges the image on the screen automatically to make manual focusing easier. This works in Manual Focus shooting.

1 **MENU → AF_MF (Focus) → [Focus Assistant] → [Auto Magnifier in MF] → [On].**

2 **MENU → AF_MF (Focus) → [Set Focus] → Adjust the focus using the top/bottom/left/right side of the control wheel.**

- The image is enlarged.

Hint

- You can set how long the image is to be shown magnified by selecting MENU → AF_MF (Focus) → [Focus Assistant] → [Focus Magnif. Time].

Related Topic

- Manual Focus (Set Focus)
- Focus Magnif. Time (still image/movie)

Digital Camera
ZV-1F

Focus Magnifier

You can check the focus by enlarging the image before shooting.
Unlike with [🔍 Auto Magnifier in MF], you can magnify the image without needing to perform manual focusing operations.

1   MENU → ᴬᶠ**MF** (Focus) → [Focus Assistant] → [Focus Magnifier].

2   **Press the center of the control wheel to enlarge the image and select the area you want to enlarge using top/bottom/left/right side of the control wheel.**

- You can set the initial magnification by selecting MENU → ᴬᶠ**MF** (Focus) → [Focus Assistant] → [📷 Initial Focus Mag.] or [▶️ Initial Focus Mag.].

3   **Confirm the focus.**

- Press the 🗑 (Delete) button to bring the magnified position into the center of an image.
- When the focus mode is [Manual Focus], you can adjust the focus while an image is magnified. The [Focus Magnifier] function will be canceled when the shutter button is pressed halfway.
- You can set how long the image is to be shown magnified by selecting MENU → ᴬᶠ**MF** (Focus) → [Focus Assistant] → [🔍 Focus Magnif. Time].

To use the focus magnifier function by touch operation

You can magnify the image and adjust the focus by touching the monitor. Set [Touch Operation] to [On] beforehand.
When the focus mode is [Manual Focus], you can perform [Focus Magnifier] by double-tapping the area to focus on.

> **Hint**
>
> - While using the focus magnifier function, you can move the magnified area by dragging it on the touch panel.
>
> - To exit the focus magnifier function, double-tap the monitor again. You can also exit the focus magnifier function by pressing the shutter button halfway down.

Related Topic
- Auto Magnifier in MF (still image/movie)
- Focus Magnif. Time (still image/movie)
- Initial Focus Mag. (still image)
- Initial Focus Mag. (movie)
- Touch Operation

Digital Camera
ZV-1F

Focus Magnif. Time (still image/movie)

![camera icon] ![movie icon] ![S&Q icon]

Set the duration for which an image is to be magnified using the [🔍 Auto Magnifier in MF] or [Focus Magnifier] function.

1 MENU → $^{AF}_{MF}$ (Focus) → [Focus Assistant] → [🔍 Focus Magnif. Time] → desired setting.

Menu item details

2 Sec:
Magnifies the images for 2 seconds.

5 Sec:
Magnifies the images for 5 seconds.

No Limit:
Magnifies the images until you press the shutter button.

Related Topic

- Auto Magnifier in MF (still image/movie)
- Focus Magnifier

Digital Camera
ZV-1F

Initial Focus Mag. (movie)

Sets the initial magnification scale for [Focus Magnifier] in the movie shooting mode.

1. MENU → $^{AF}_{MF}$ (Focus) → [Focus Assistant] →[Initial Focus Mag.] → desired setting.

Menu item details

x1.0:
Displays the image with the same magnification as the shooting screen.

x4.0:
Displays a 4.0-times enlarged image.

Related Topic

- Focus Magnifier

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Digital Camera
ZV-1F

Initial Focus Mag. (still image)

Sets the initial magnification scale when using [Focus Magnifier]. Select a setting that will help you frame your shot.

1. MENU → $^{AF}_{MF}$ (Focus) → [Focus Assistant] → [Initial Focus Mag.] → desired setting.

Menu item details

x1.0:
Displays the image with the same magnification as the shooting screen.

x1.6:
Displays a 1.6-times enlarged image.

Related Topic

- Focus Magnifier

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Digital Camera
ZV-1F

Peaking Display

[icon] [icon] S&Q

Sets the peaking function, which enhances the outline of in-focus areas during shooting with Manual Focus.

1 MENU → $^{AF}_{MF}$ (Focus) → **[Peaking Display]** → **Select a menu item and set the desired parameter.**

Menu item details

Peaking Display:
Sets whether to display peaking. ([On] / [Off])

Peaking Level:
Sets the level of enhancement of in-focus areas. ([High] / [Mid] / [Low])

Peaking Color:
Sets the color used to enhance in-focus areas. ([Red] / [Yellow] / [Blue] / [White])

> **Note**
>
> - Since the product recognizes sharp areas as in focus, the effect of peaking differs, depending on the subject.
>
> - The outline of in-focus ranges is not enhanced on devices connected via HDMI.

Related Topic

- Manual Focus (Set Focus)

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Digital Camera
ZV-1F

Exposure Comp. (still image/movie)

📷 ▶️ S&Q

Normally, exposure is set automatically (auto exposure). Based on the exposure value set by auto exposure, you can make the entire image brighter or darker if you adjust [Exposure Comp.] to the plus side or minus side, respectively (exposure compensation).

1 **⊞ (Exposure Comp.) on the control wheel → press the left/right side of the control wheel or turn the control wheel, and select the desired setting.**

+ (over) side:
Images become brighter.
- (under) side:
Images become darker.

- You can also select MENU → ⊞ (Exposure/Color) → [Exposure Comp.] → [Exposure Comp.].

- You can adjust the exposure compensation value within the range of -3.0 EV to +3.0 EV.
- You can confirm the exposure compensation value that you set on the shooting screen.

```
1/250    F3.5  (⊞+3.0)  ISO 400
```
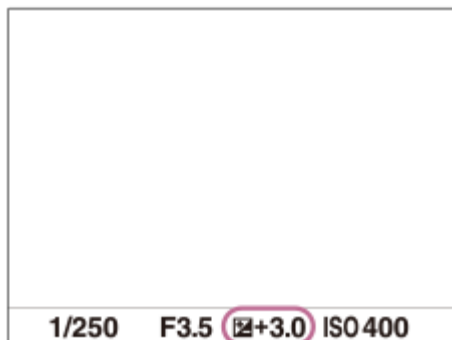
Hint

- You can adjust the exposure compensation value within the range of -2.0 EV to +2.0 EV for movies.

Note

- When using [Manual Exposure], you can perform the exposure compensation only when [ISO] is set to [ISO AUTO].

Related Topic

- Zebra Display

Digital Camera
ZV-1F

Histogram display

A histogram shows the luminance distribution, displaying how many pixels there are by luminance.
To display the histogram on the shooting screen or playback screen, press the DISP (Display Setting) button repeatedly.

How to read the histogram

The histogram indicates darker values toward the left and brighter values toward the right.
The histogram changes depending on the exposure compensation.
A peak at the right or left end of the histogram indicates that the image has an overexposed or underexposed area, respectively. You cannot correct such defects using a computer after shooting. Perform exposure compensation before shooting as necessary.

(A): Pixel count
(B): Brightness

Note

- The information in the histogram display does not indicate the final photograph. It is information about image displayed on the screen. The final result depends on the aperture value, etc.

- The histogram display is extremely different between shooting and playback in the following cases:
  - When shooting a low luminance subject such as a night scene

---

Related Topic

- Using the DISP (Display Setting) button
- Exposure Comp. (still image/movie)

D-Range Optimizer (still image/movie)

By dividing the image into small areas, the product analyzes the contrast of light and shadow between the subject and the background, and creates an image with the optimal brightness and gradation.

1 MENU → **⫶** (Exposure/Color) → [Color/Tone] → [**🖳** D-Range Optimizer] → desired setting.

Menu item details

Off:
Does not adjust brightness and gradation.

D-Range Optimizer:
If you select [D-Range Optimizer: Auto], the camera will automatically adjust the brightness and gradation. To optimize the gradation of a recorded image by individual areas, select an optimization level from [D-Range Optimizer: Lv1] (weak) to [D-Range Optimizer: Lv5] (strong).

> **Note**
>
> - In the following situations, [**🖳** D-Range Optimizer] is fixed to [Off]:
>   - When [**🖳** Picture Profile] is set to other than [Off]
>   - When [Rec Frame Rate] is set to [120p]/[100p].
>
> - When shooting with [D-Range Optimizer], the image may be noisy. Select the proper level by checking the recorded image, especially when you enhance the effect.

Digital Camera
ZV-1F

Metering Mode (still image/movie)

[📷] [🎬] [S&Q]

Selects the metering mode that sets which part of the screen to measure for determining the exposure.

1 MENU → 🔲 (Exposure/Color) → [Metering] → [🔳 Metering Mode] → desired setting.

Menu item details

[⊙] Multi:
Measures light on each area after dividing the total area into multiple areas and determines the proper exposure of the entire screen (Multi-pattern metering).

[◉] Center:
Measures the average brightness of the entire screen, while emphasizing the central area of the screen (Center-weighted metering).

[▣] Spot:
Measures only inside the metering circle. This mode is suitable for measuring light on a specified part of the entire screen. The size of the metering circle can be selected from [Spot: Standard] and [Spot: Large].

[▦] Entire Screen Avg.:
Measures the average brightness of the entire screen. The exposure will be stable even if the composition or the position of the subject changes.

[▣] Highlight:
Measures the brightness while emphasizing the highlighted area on the screen. This mode is suitable for shooting the subject while avoiding overexposure.

Hint

- When [Multi] is selected and [🔳 Face Priority in Multi Metering] is set to [On], the camera measures brightness based on detected faces.

- When [🔳 Metering Mode] is set to [Highlight] and the [D-Range Optimizer] function is activated, the brightness and the contrast will be corrected automatically by dividing the image into small areas and analyzing the contrast of light and shadow. Make settings based on the shooting circumstances.

Note

- [🔳 Metering Mode] is locked to [Multi] in the following shooting situations:
  - When using zoom functions

- In [Highlight] mode, the subject may be dark if a brighter part exists on the screen.

Related Topic

- AE lock
- Face Priority in Multi Metering (still image/movie)
- D-Range Optimizer (still image/movie)

Digital Camera
ZV-1F

Face Priority in Multi Metering (still image/movie)

Sets whether the camera measures brightness based on detected faces when [Metering Mode] is set to [Multi].

1. **MENU → (Exposure/Color) → [Metering] → [Face Priority in Multi Metering] → desired setting.**

Menu item details

On:
The camera measures brightness based on detected faces.

Off:
The camera measures brightness using the [Multi] setting, without detecting faces.

> **Note**
> - When [Subject Recog in AF] under [Subject Recognition] is set to [On] and [Recognition Target] is set to [Animal ( )], [Face Priority in Multi Metering] does not work.

Related Topic

- [Metering Mode (still image/movie)](#)

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Digital Camera
ZV-1F

AE lock

When the contrast between the subject and background is high, such as when shooting a backlit subject or a subject near a window, meter the light at a spot where the subject appears to have the appropriate brightness and lock the exposure before shooting. To reduce the brightness of the subject, meter the light at a spot brighter than the subject and lock the exposure of the entire screen. To make the subject brighter, meter the light at a spot darker than the subject and lock the exposure of the entire screen.

1 **MENU → (Setup) → [Operation Customize] → [Custom Key Setting] or [Custom Key Setting] → desired key, then assign [AEL toggle] to the key.**

2 **Adjust the focus on the spot at which the exposure is adjusted.**

3 **Press the button to which [AEL toggle] is assigned.**

The exposure is locked, and ✳ (AE lock) is displayed.

4 **Focus on the subject again and press the shutter button.**

- To cancel the exposure lock, press the button to which the [AEL toggle] function is assigned.

Hint

- If you select the [AEL hold] function in [Custom Key Setting] or [Custom Key Setting], you can lock the exposure as long as you are holding down the button. You cannot set the [AEL hold] function to [Left Button] or [Right Button].

Note

- [AEL hold] and [AEL toggle] are not available when using zoom functions.

Related Topic

- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)

Digital Camera
ZV-1F

Zebra Display

Sets a zebra pattern, which appears over part of an image if the brightness level of that part meets the IRE level that you have set. Use this zebra pattern as a guide to adjust the brightness.

1 MENU → ⊞ (Exposure/Color) → [Zebra Display] → **Select a menu item and set the desired parameter.**

Menu item details

Zebra Display:
Sets whether to display the zebra pattern. ([Off] / [On])

Zebra Level:
Adjusts the brightness level of the zebra pattern. ([70] / [75] / [80] / [85] / [90]/ [95] / [100] / [100+])

> **Hint**
>
> - You can register values to check the correct exposure or overexposure as well as the brightness level for [Zebra Level]. The settings for correct exposure confirmation and overexposure confirmation are registered to [Custom 1] and [Custom 2] respectively in the default settings.
>
> - To check the correct exposure, set a standard value and the range for the brightness level. The zebra pattern will appear on areas that fall within the range you set.
>
> - To check the overexposure, set a minimum value for the brightness level. The zebra pattern will appear over areas with a brightness level equal to or higher than the value you set.

> **Note**
>
> - The zebra pattern is not displayed on devices connected via HDMI.

Digital Camera
ZV-1F

ISO (still image/movie)

[📷] [🎬] [S&Q]

Sensitivity to light is expressed by the ISO number (recommended exposure index). The larger the number, the higher the sensitivity.

1 **ISO on the control wheel → select desired setting.**

- You can also select MENU → [⚖] (Exposure/Color) → [Exposure] → [ISO].

Menu item details

ISO AUTO:
Sets the ISO sensitivity automatically.

ISO 80 – ISO 12800:
Sets the ISO sensitivity manually. Selecting a larger number increases the ISO sensitivity.

> **Hint**
>
> - The higher the ISO value, the more noise will appear on the images.
>
> - The available ISO settings will differ depending on whether you are shooting still images, shooting movies, or shooting slow-motion/quick-motion movies.
>
> - When shooting movies, ISO values between 125 and 12800 are available. If the ISO value is set to a value smaller than 125, the setting is automatically switched to 125. When you finish recording the movie, the ISO value returns to the original setting.
>
> - The available range for ISO sensitivity varies depending on the setting for [Gamma] under [Picture Profile].

> **Note**
>
> - [ISO] is set to [ISO AUTO] in the following shooting modes:
>   - [Intelligent Auto]
>
> - When the ISO sensitivity is set to a value lower than ISO 125, the range for recordable subject brightness (dynamic range) may decrease.
>
> - If you point the camera at an extremely strong light source while shooting images with a low ISO sensitivity, highlighted areas in the images may be recorded as black areas.

Digital Camera
ZV-1F

White Balance (still image/movie)

Corrects the tone effect of the ambient light condition to record a neutral white subject in white. Use this function when the color tones of the image did not come out as you expected, or when you want to change the color tones on purpose for photographic expression.

1 MENU → ⊞ (Exposure/Color) → [White Balance] → [White Balance] → desired setting.

Menu item details

AWB Auto / **AWB** Auto: Ambience / **AWB** Auto: White / ☀ Daylight / 🏠 Shade / ☁ Cloudy / 💡 Incandescent / 🔅−1 Fluor.: Warm White / 🔅0 Fluor.: Cool White / 🔅+1 Fluor.: Day White / 🔅+2 Fluor.: Daylight / 🐠 **Underwater Auto :**
When you select a light source that illuminates the subject, the product adjusts the color tones to suit to the selected light source (preset white balance). When you select [Auto], the product automatically detects the light source and adjusts the color tones.

C.Temp./Filter:
Adjusts the color tones depending on the light source. Achieves the effect of CC (Color Compensation) filters for photography.

Custom 1/Custom 2/Custom 3:
Memorizes the basic white color under the light conditions for the shooting environment.

> **Hint**
> - You can display the fine adjustment screen and perform fine adjustments of the color tones as required by pressing the right side of the control wheel.
> - **AWB** (Auto: Ambience), **AWB** (Auto: White) is displayed only when [Priority Set in AWB] is set to [Ambience] or [White].

> **Note**
> - [White Balance] is fixed to [Auto] in the following shooting modes:
>   - [Intelligent Auto]
> - If you use a mercury lamp or a sodium lamp as a light source, the accurate white balance will not be obtained because of the characteristics of the light. It is recommended to shoot images with a setting from [Custom 1] to [Custom 3].

Related Topic

- Capturing a standard white color to set the white balance (custom white balance)
- Priority Set in AWB (still image/movie)

Digital Camera
ZV-1F

Capturing a standard white color to set the white balance (custom white balance)

In a scene where the ambient light consists of multiple types of light sources, it is recommended to use the custom white balance in order to accurately reproduce the whiteness. You can register 3 settings.

1. **MENU → ⊞ (Exposure/Color) → [White Balance] → [⛄ White Balance] → Select from among [Custom 1] to [Custom 3], and then press the right side of the control wheel.**

2. **Select ⌊⌄⊿SET (custom white balance set), and then press the center of the control wheel.**

3. **Hold the product so that the white area fully covers the white-balance capture frame, and then press the center of the control wheel.**

   After the shutter sound is heard and the message [Captured the custom WB data.] is displayed, the calibrated values (Color Temperature and Color Filter) are displayed.

   - You can adjust the position of the white-balance capture frame by pressing the top/bottom/left/right side of the control wheel.
   - After capturing a standard white color, you can display the fine adjustment screen by pressing the right side of the control wheel. You can finely adjust the color tones as needed.
   - No shutter sound is produced in the following cases.
     - In the movie recording mode
     - When [⛄ Silent Mode] is set to [On]

4. **Press the center of the control wheel.**

   The calibrated values will be registered. The monitor returns to the MENU display while retaining the memorized custom white balance setting.

   - The registered custom white balance setting will remain memorized until overwritten by the another setting.

Note

- The message [Capturing of the custom WB failed.] indicates that the value is in the unexpected range, for example when the subject is too vivid. You can register the setting at this point, but it is recommended that you set the white balance again.

Digital Camera
ZV-1F

Priority Set in AWB (still image/movie)

Selects which tone to prioritize when shooting under lighting conditions such as incandescent light when [White Balance] is set to [Auto].

1 MENU → **±** (Exposure/Color) → [White Balance] → [Priority Set in AWB] → desired setting.

Menu item details

AWB STD Standard:
Shoots with standard auto white balance. The camera automatically adjusts the color tones.

AWB Ambi Ambience:
Prioritizes the color tone of the light source. This is suitable when you want to produce a warm atmosphere.

AWB White White:
Prioritizes a reproduction of white color when the color temperature of the light source is low.

Related Topic

- White Balance (still image/movie)

Digital Camera
ZV-1F

Creative Look (still image/movie)

"Look" is a term referring to the looks and impressions of images generated by various factors, such as color, sharpness, brightness, etc. With [Creative Look], you can choose the finish of an image by selecting a preferred look from among preinstalled looks. In addition, you can fine-tune the contrast, highlights, shadows, fade, saturation, sharpness, and clarity for each "Look."

1 MENU → (Exposure/Color) → [Color/Tone] → [Creative Look].

2 Select the desired "Look" using the top/bottom of the control wheel.

3 To adjust (Contrast), (Highlights), (Shadows), (Fade), (Saturation), (Sharpness) and (Clarity), move to the right using the right side of the control wheel. Select the desired item using the right/left sides, and then select the value using the top/bottom sides.
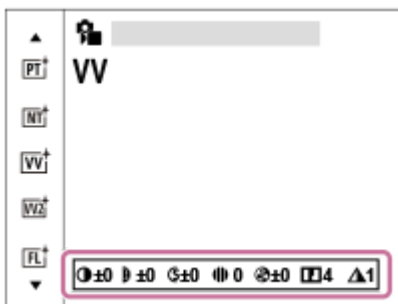
Menu item details

ST:
Standard finish for a wide range of subjects and scenes.

PT:
For capturing skin in a soft tone, ideally suited for shooting portraits.

NT:
The saturation and sharpness are lowered for shooting images in subdued tones. This is also suitable for capturing image material to be modified with a computer.

VV:
The saturation and contrast are heightened for shooting striking images of colorful scenes and subjects such as flowers, spring greenery, blue sky, or ocean views.

VV2:
Creates an image with bright and vivid colors with rich clarity.

FL:
Creates an image with moody finish by applying sharp contrast to the calm coloring as well as the impressive sky and colors of the greens.

IN:
Creates an image with matte textures by suppressing the contrast and saturation.

SH:

Creates an image with bright, transparent, soft, and vivid mood.

BW⁺ **BW:**

For shooting images in black and white monotone.

SE⁺ **SE:**

For shooting images in sepia monotone.

To adjust in greater detail

Based on each "Look," items such as contrast can be adjusted to your liking.
Select an item to be set by pressing the right/left sides of the control wheel, then set the value using the top/bottom sides of the control wheel.

Contrast:

The higher the value selected, the more the difference of light and shadow is accentuated, and the bigger the effect on the image. (-9 to +9)

Highlights:

Adjusts the brightness of the bright areas. When a higher value is selected, the image becomes brighter. (-9 to +9)

Shadows:

Adjusts the darkness of the dark areas. When a higher value is selected, the image becomes brighter. (-9 to +9)

Fade:

Adjusts the degree of fade. A larger value makes the effect greater. (0 to 9)

Saturation:

The higher the value selected, the more vivid the color. When a lower value is selected, the color of the image is restrained and subdued. (-9 to +9)

Sharpness:

Adjusts the sharpness. The higher the value selected, the more the contours are accentuated, and the lower the value selected, the more the contours are softened. (0 to 9)

Clarity:

Adjusts the degree of clarity. A larger value makes the effect greater. (0 to 9)

To reset adjusted values for each "Look"

Adjusted values such as contrast that you have changed as desired can be collectively reset for each "Look." Press the 🗑 (delete) button on the adjustment screen for the "Look" that you want to reset. All adjusted values that have been changed will return to their default values.

Hint

- For [Sharpness] and [Clarity], take a test shot and either enlarge and play it on the camera monitor, or output it to a playback device to check the effect. Then, readjust the setting if needed.

Note

- [🎞 Creative Look] is fixed to [-] in the following situations:
  - [🎞 Picture Profile] is set to other than [Off].

- When this function is set to [BW] or [SE], [Saturation] cannot be adjusted.

Digital Camera
ZV-1F

Picture Profile (still image/movie)

Allows you to change the settings for the color, gradation, etc.
For details on "Picture Profile," refer to
https://helpguide.sony.net/di/pp/v1/en/index.html
Although [Picture Profile] can be used for both still images and movies, the function is designed mainly for movies.

Customizing the picture profile

You can customize the picture quality by adjusting picture profile items such as [Gamma] and [Detail]. When setting these parameters, connect the camera to a TV or monitor, and adjust them while observing the picture on the screen.

1 MENU → ⚡ (Exposure/Color) → [Color/Tone] → [Picture Profile] → the profile you want to change.

2 Move to the item index screen by pressing the right side of the control wheel.

3 Select the item to change using the top/bottom sides of the control wheel.

4 Select the desired value using the top/bottom sides of the control wheel and press in the center.

Using the preset of the picture profile

The default settings [PP1] through [PP10] for movies have been set in advance in the camera based on various shooting conditions.
MENU → ⚡ (Exposure/Color) → [Color/Tone] → [Picture Profile] → desired setting.

PP1:
Example setting using [Movie] gamma.
PP2:
Example setting using [Still] gamma.
PP3:
Example setting of natural color tone using the [ITU709] gamma.
PP4:
Example setting of a color tone faithful to the ITU709 standard.
PP5:
Example setting using [Cine1] gamma.
PP6:
Example setting using [Cine2] gamma.
PP7:
Example setting using [S-Log2] gamma.
PP8:
Example setting using the [S-Log3] gamma and the [S-Gamut3.Cine] under [Color Mode].
PP9:
Example setting using the [S-Log3] gamma and the [S-Gamut3] under [Color Mode].

PP10:
Example setting for recording HDR movies using [HLG2] gamma.

HDR movie recording
The camera can record HDR movies when a gamma from [HLG], [HLG1] to [HLG3] is selected in the picture profile. Picture profile preset [PP10] provides an example setting for HDR recording. Movies recorded using [PP10] can be viewed with a wider range of brightness than usual when played back on a TV supporting Hybrid Log-Gamma (HLG). This way, even scenes with a wide range of brightness can be recorded and displayed faithfully, without looking under or over-exposed. HLG is used in HDR TV program production, as defined in the international standard Recommendation ITU-R BT.2100.

Items of the picture profile

Black Level
Sets the black level. (−15 to +15)

Gamma
Selects a gamma curve.

Movie: Standard gamma curve for movies

Still: Standard gamma curve for still images

Cine1: Softens the contrast in dark parts and emphasizes gradation in bright parts to produce a relaxed color movie. (equivalent to HG4609G33)

Cine2: Similar to [Cine1] but optimized for editing with up to 100% video signal. (equivalent to HG4600G30)

ITU709: Gamma curve that corresponds to ITU709.

ITU709(800%): Gamma curve for confirming scenes on the assumption of shooting using [S-Log2] or [S-Log3].

S-Log2: Gamma curve for [S-Log2]. This setting is based on the assumption that the picture will be processed after shooting.

S-Log3: Gamma curve for [S-Log3] with more similar features to film. This setting is based on the assumption that the picture will be processed after shooting.

HLG: Gamma curve for HDR recording. Equivalent to the HDR standard Hybrid Log-Gamma, ITU-R BT.2100.

HLG1: Gamma curve for HDR recording. Emphasizes noise reduction. However, shooting is restricted to a narrower dynamic range than with [HLG2] or [HLG3].

HLG2: Gamma curve for HDR recording. Provides a balance of dynamic range and noise reduction.

HLG3: Gamma curve for HDR recording. Wider dynamic range than [HLG2]. However, noise may increase.

- [HLG1], [HLG2], and [HLG3] all apply a gamma curve with the same characteristics, but each offers a different balance between dynamic range and noise reduction. Each has a different maximum video output level, as follows: [HLG1]: approx. 87%, [HLG2]: approx. 95%, [HLG3]: approx. 100%.

Black Gamma
Corrects gamma in low intensity areas.

[Black Gamma] is fixed at "0" and cannot be adjusted when [Gamma] is set to [HLG], [HLG1], [HLG2], or [HLG3].

Range: Selects the correcting range. (Wide / Middle / Narrow)

Level: Sets the correcting level. (-7 (maximum black compression) to +7 (maximum black stretch))

Knee
Sets knee point and slope for video signal compression to prevent over-exposure by limiting signals in high intensity areas of the subject to the dynamic range of your camera.
When [Gamma] is set to the following, and [Mode] is set to [Auto], [Knee] is unavailable. [Knee] can be used when [Mode] is set to [Manual].

- [Still]
- [Cine1]

- [Cine2]
- [ITU709(800%)]
- [S-Log2]
- [S-Log3]
- [HLG]
- [HLG1]
- [HLG2]
- [HLG3]

Mode: Selects auto/manual settings.

- Auto: The knee point and slope are set automatically.
- Manual: The knee point and slope are set manually.

Auto Set: Settings when [Auto] is selected for [Mode].

- Max Point: Sets the maximum point of the knee point. (90% to 100%)
- Sensitivity: Sets the sensitivity. (High / Mid / Low)

Manual Set: Settings when [Manual] is selected for [Mode].

- Point: Sets the knee point. (75% to 105%)
- Slope: Sets the knee slope. (-5 (gentle) to +5 (steep))

Color Mode
Sets type and level of colors.
In [Color Mode], only [BT.2020] and [709] are available when [Gamma] is set to [HLG], [HLG1], [HLG2], or [HLG3].

Movie: Suitable colors when [Gamma] is set to [Movie].

Still: Suitable colors when [Gamma] is set to [Still].

Cinema: Suitable colors when [Gamma] is set to [Cine1] or [Cine2].

Pro: Similar color tones to the standard image quality of Sony professional cameras (when combined with ITU709 gamma)

ITU709 Matrix: Colors corresponding to ITU709 standard (when combined with ITU709 gamma)

Black & White: Sets the saturation to zero for shooting in black and white.

S-Gamut: Setting based on the assumption that the pictures will be processed after shooting. Used when [Gamma] is set to [S-Log2].

S-Gamut3.Cine: Setting based on the assumption that the pictures will be processed after shooting. Used when [Gamma] is set to [S-Log3]. This setting allows you to shoot in a color space that can easily be converted for digital cinema.

S-Gamut3: Setting based on the assumption that the pictures will be processed after shooting. Used when [Gamma] is set to [S-Log3]. This setting allows you to shoot in a wide color space.

BT.2020: Standard color tone when [Gamma] is set to [HLG], [HLG1], [HLG2], or [HLG3].

709: Color tone when [Gamma] is set to [HLG], [HLG1], [HLG2], or [HLG3] and movies are recorded with HDTV color (BT.709).

Saturation
Sets the color saturation. (-32 to +32)

Color Phase
Sets the color phase. (-7 to +7)

Color Depth
Sets the color depth for each color phase. This function is more effective for chromatic colors and less effective for achromatic colors. The color looks deeper as you increase the setting value towards the positive side, and lighter as you decrease the value towards the negative side. This function is effective even if you set [Color Mode] to [Black & White].

[R] -7 (light red) to +7 (deep red)

[G] -7 (light green) to +7 (deep green)

[B] -7 (light blue) to +7 (deep blue)

[C] -7 (light cyan) to +7 (deep cyan)

[M] -7 (light magenta) to +7 (deep magenta)

[Y] -7 (light yellow) to +7 (deep yellow)

Detail

Sets items for [Detail].

Level: Sets the [Detail] level. (-7 to +7)

Adjust: The following parameters can be selected manually.

- Mode: Selects auto/manual setting. (Auto (automatic optimization) / Manual (The details are set manually.))
- V/H Balance: Sets the vertical (V) and horizontal (H) balance of DETAIL. (-2 (off to the vertical (V) side) to +2 (off to the horizontal (H) side))
- B/W Balance: Selects the balance of the lower DETAIL (B) and the upper DETAIL (W). (Type1 (off to the lower DETAIL (B) side) to Type5 (off to the upper DETAIL (W) side))
- Limit: Sets the limit level of [Detail]. (0 (Low limit level: likely to be limited) to 7 (High limit level: unlikely to be limited))
- Crispening: Sets the crispening level. (0 (shallow crispening level) to 7 (deep crispening level))
- Hi-Light Detail: Sets the [Detail] level in the high intensity areas. (0 to 4)

To copy the settings to another picture profile number

You can copy the settings of the picture profile to another picture profile number.

MENU → 🔆 (Exposure/Color) → [Color/Tone] → [🎬 Picture Profile] → [Copy].

To reset the picture profile to the default setting

You can reset the picture profile to the default setting. You cannot reset all picture profile settings at once.

MENU → 🔆 (Exposure/Color) → [Color/Tone] → [🎬 Picture Profile] → [Reset].

Note

- Movie shooting and still image shooting share the same setting values. Adjust the setting values when you switch shooting modes.

- If you change [Gamma], the available ISO value range changes.

- When using the S-Log2 or S-Log3 gamma, noise becomes more noticeable compared to when using other gammas. If the noise is still considerable even after processing the images, it may be improved by shooting with a brighter setting. However, the dynamic range becomes narrower accordingly when you shoot with a brighter setting. We recommend checking the picture in advance by test shooting when using S-Log2 or S-Log3.

- Setting [ITU709(800%)], [S-Log2] or [S-Log3] may cause an error in the white balance custom setup. In this case, perform custom setup with a gamma other than [ITU709(800%)], [S-Log2], or [S-Log3] first, and then reselect [ITU709(800%)], [S-Log2], or [S-Log3] gamma.

- When set to [ITU709(800%)], [S-Log2], or [S-Log3], the settings for [Black Level] become disabled.

- If you set [Slope] to +5 in [Manual Set] under [Knee], [Knee] will be disabled.

- S-Gamut, S-Gamut3.Cine, and S-Gamut3 are color spaces exclusive to Sony. However, this camera's S-Gamut setting does not support the whole S-Gamut color space; it is a setting to achieve a color reproduction equivalent to S-Gamut.

Related Topic

- Gamma Display Assist

Digital Camera
ZV-1F

Soft Skin Effect (still image/movie)

Sets the effect used for shooting the skin smoothly when a face is recognized.

1 MENU → **Ｚ** (Exposure/Color) → [Color/Tone] → [Soft Skin Effect] → desired setting.

Menu item details

Off:
Does not use the [Soft Skin Effect] function.

On:
Uses the [Soft Skin Effect]. You can set the effect level by pressing the right/left side of the control wheel. ([On: High]/[On: Mid]/[On: Low])

> **Note**
>
> - [Soft Skin Effect] is not available when using the digital zoom function.
>
> - [Soft Skin Effect] is unavailable in the movie recording mode under the following conditions.
>   - [File Format] is set to [XAVC S 4K], and [**Px** Proxy Recording] under [**Px** Proxy Settings] is set to [On].
>   - [File Format] is set to [XAVC S 4K], [Rec Frame Rate] under [Movie Settings] is set to [30p], and [Rec. Media dur HDMI Output] under [HDMI Output Settings] is set to [On].
>   - [File Format] is set to [XAVC S 4K] and connecting to the camera from a computer, etc.
>   - [File Format] is set to [XAVC S 4K] while shooting remotely from a smartphone.
>   - [File Format] is set to [XAVC S HD], and [Rec Frame Rate] under [Movie Settings] is set to [120p]/[100p].
>
> - [Soft Skin Effect] is not applied on the monitor while shooting in the movie recording mode when [File Format] is set to [XAVC S 4K], but the effect will be applied to the recorded images.

Digital Camera
ZV-1F

Drive Mode

Select the appropriate mode for the subject, such as single shooting, continuous shooting, or self-timer shooting.

1 **Select ⏱ / ▣ (Drive Mode) on the control wheel → desired setting.**

- You can also set the drive mode by selecting MENU → 📷 (Shooting) → [Drive Mode] → [Drive Mode].

2 **Select the desired mode using the right/left side of the control wheel.**

Menu item details

▢ **Single Shooting:**
Normal shooting mode.

▣ **Cont. Shooting:**
Shoots images continuously while you press and hold down the shutter button.

⑤ **Speed Prior. Cont. :**
Shoots images continuously at high speed while you press and hold down the shutter button.

⏱ **Self-timer(Single) :**
Shoots an image using the self-timer after a designated number of seconds have elapsed since the shutter button was pressed.

Related Topic

- Cont. Shooting
- Speed Prior. Cont.
- Self-timer(Single)

Digital Camera
ZV-1F

Cont. Shooting

Shoots images continuously while you press and hold down the shutter button.

1 **Select 🔄 / 🔲 (Drive Mode) of the control wheel → [Cont. Shooting].**

- You can also set the continuous shooting by selecting MENU → 📷 (Shooting) → [Drive Mode] → [Drive Mode].

Related Topic

- [Selecting the focus method (Focus Mode)](#)

Digital Camera
ZV-1F

Speed Prior. Cont.

Shoots images continuously at high speed while the shutter button is pressed and held down. This function can shoot continuously at a higher speed than [Cont. Shooting].

1   **Select ☉ / ▦ (Drive Mode) on the control wheel → [Speed Prior. Cont.].**

- This function can also be set from MENU → ⌂ (Shooting) → [Drive Mode] → [Drive Mode] → [Speed Prior. Cont.].

Hint

- To continuously adjust the exposure while using [Speed Prior. Cont.], set [▦ Focus Mode] to [Manual Focus].

Note

- In between sessions of continuous shooting, the image that has just been recorded will be displayed.

Related Topic

- Cont. Shooting

Digital Camera
ZV-1F

Self-timer(Single)

Shoots an image using the self-timer after a designated number of seconds have elapsed since the shutter button was pressed. Use the 5-second/10-second self-timer when you are going to be in the picture, and use the 2-second self-timer to reduce camera-shake caused by pressing the shutter button.

1 **Press ☉/⎙ (Drive Mode) of the control wheel → [Self-timer(Single)].**

- You can also set the drive mode by selecting MENU → ⬡ (Shooting) → [Drive Mode] → [Drive Mode].

2 **Select the desired mode using the right/left side of the control wheel.**

3 **Adjust the focus and shoot the image.**

The self-timer lamp flashes, a beep sounds, and a picture is taken after the designated number of seconds have elapsed.

Menu item details

The mode determines the number of seconds until a picture is taken after the shutter button is pressed.

☉10 **Self-timer(Single): 10 sec**
☉5 **Self-timer(Single): 5 sec**
☉2 **Self-timer(Single): 2 sec**

> **Hint**
>
> - Press the shutter button again or press ☉/⎙ (Drive Mode) on the control wheel to stop the count of the self-timer.
> - Press ☉/⎙ (Drive Mode) on the control wheel and select ▢ (Single Shooting) to cancel the self-timer.
> - Set [Audio Signal(Shooting)] to [Off] to turn off the beeping sound during the self-timer countdown.

Related Topic

- Audio Signal(Shooting)

Digital Camera
ZV-1F

Self-timer (movie)

You can start shooting with the self-timer when recording a movie.

1 **Press ⟳ / ⊒ (Drive Mode) of the control wheel.**

The [▶■ Self-timer] setting screen will be displayed.

- You can also set the drive mode by selecting MENU → ▶■ (Shooting) → [Shooting Option] → [▶■ Self-timer].

2 **Select [On] using the control wheel and set the desired countdown time.**

- Rec Start delay: Sets the count time until the start of movie recording. (3 s/5 s/10 s)

- Repetition: Sets whether to repeat the movie self-timer. (Repeat/Only Once)
  If you select [Repeat], the movie self-timer will be activated repeatedly even after movie recording is completed. If you select [Only Once], the movie self-timer will be canceled after movie recording is completed, and the camera will return to the normal movie recording standby mode.

3 **Adjust the focus and press the MOVIE (movie) button.**

When the countdown appears on the recording standby screen, the self-timer lamp flashes, a beep sounds, and recording starts after the designated number of seconds has elapsed.

- Press the MOVIE button again to end recording.

Menu item details

On:
Uses the movie self-timer function.
Off:
Does not use the movie self-timer function.

> **Hint**
> - To stop the self-timer countdown, press the MOVIE button again or press the button to which the [▶■ Self-timer] function is assigned.

> **Note**
> - If you press the MOVIE button in the still image shooting mode to start movie recording, [▶■ Self-timer] will not work.

Digital Camera
ZV-1F

Interval Shoot Func.

You can automatically shoot a series of still images with the shooting interval and number of shots that you set in advance (Interval shooting). You can then create a time-lapse movie from the still images produced by interval shooting using the computer software Imaging Edge Desktop (Viewer). You cannot create a movie from the still images on the camera.

For details on time-lapse movies, refer to the support page for Imaging Edge Desktop.
https://www.sony.net/disoft/help/

1 MENU → (Shooting) → [Drive Mode] → [Interval Shoot Func.] → [Interval Shooting] → [On].

2 MENU → (Shooting) → [Drive Mode] → [Interval Shoot Func.] → Select an item to set, and then select the desired setting.

3 Press the shutter button.

When the time set for [Shooting Start Time] has elapsed, shooting will start.

- When the number of shots set for [Number of Shots] is completed, the camera will return to the standby screen for interval shooting.

Menu item details

Interval Shooting:
Sets whether to perform interval shooting. ([Off]/[On])

Shooting Start Time:
Sets the time from when you press the shutter button to when interval shooting starts. (1 second to 99 minutes 59 seconds)

Shooting Interval:
Sets the shooting interval (time from when one exposure starts to when the exposure for the next shot starts). (1 second to 60 seconds)

Number of Shots:
Sets the number of shots for interval shooting. (1 shot to 9 999 shots)

AE Tracking Sensitivity:
Sets the tracking sensitivity of the auto exposure against the change in luminance during interval shooting. If you select [Low], exposure changes during interval shooting will be smoother. ([High]/[Mid]/[Low])

Hint

- If you press the shutter button during interval shooting, interval shooting will end and the camera will return to the standby screen for interval shooting.

- To return to the normal shooting mode, set [Interval Shooting] to [Off].

- If you press a key to which one of the following functions has been assigned at the moment when shooting starts, the function will remain active during interval shooting even without you holding down the button.
  - [AEL hold]

- [■ AEL hold]
- [AF/MF Selector Hold]

- If you set [Display as Group] to [On], still images shot with the interval shooting function will be displayed in groups.

- Still images shot with interval shooting can be played back continuously on the camera. If you intend to create a movie using the still images, you can preview the result.

Note

- You may not be able to record the set number of images depending on the remaining battery level and the amount of free space on the recording medium. Supply power via USB while shooting, and use a memory card with sufficient space.

- When the shooting interval is short, the camera may get hot easily. Depending on the ambient temperature, you may not be able to record the set number of images because the camera may stop recording to protect the equipment.

- During interval shooting (including the time between pressing the shutter button and the start of shooting), you cannot operate the dedicated shooting setting screen or MENU screen. Some settings such as shutter speed can be set by operating the part of the control wheel to which the function is assigned.

- During interval shooting, auto review is not displayed.

Related Topic

- Cont. Play for Interval
- Supplying power from a wall outlet (wall socket)

Digital Camera
ZV-1F

JPEG Quality

Selects the image quality when recording JPEG images.

1 **MENU→** [○] **(Shooting) → [Image Quality/Rec] → [JPEG Quality] → desired setting.**

Menu item details

Extra fine/Fine/Standard:
Since the compression rate increases from [Extra fine] to [Fine] to [Standard], the file size decreases in the same order.
This allows more files to be recorded on one memory card, but the image quality is lower.

Digital Camera
ZV-1F

JPEG Image Size

The larger the image size, the more detail will be reproduced when the image is printed on large-format paper. The smaller the image size, the more images can be recorded.

1 MENU → [⌾] (Shooting) → [Image Quality/Rec] → [JPEG Image Size] → desired setting.

Menu item details

When [Aspect Ratio] is set to 3:2

Setting values	Pixel number (horizontal×vertical)
L: 20M	5472×3648 pixels
M: 10M	3888×2592 pixels
S: 5.0M	2736×1824 pixels

When [Aspect Ratio] is set to 4:3

Setting values	Pixel number (horizontal×vertical)
L: 18M	4864×3648 pixels
M: 10M	3648×2736 pixels
S: 5.0M	2592×1944 pixels

When [Aspect Ratio] is set to 16:9

Setting values	Pixel number (horizontal×vertical)
L: 17M	5472×3080 pixels
M: 7.5M	3648×2056 pixels
S: 4.2M	2720×1528 pixels

When [Aspect Ratio] is set to 1:1

Setting values	Pixel number (horizontal×vertical)
L: 13M	3648×3648 pixels

Setting values	Pixel number (horizontal×vertical)
M: 6.5M	2544×2544 pixels
S: 3.7M	1920×1920 pixels

Digital Camera
ZV-1F

Aspect Ratio

1 MENU → ▢ (Shooting) → [Image Quality/Rec] → [Aspect Ratio] → desired setting.

Menu item details

3:2:
Same aspect ratio as 35 mm film
4:3:
The aspect ratio is 4:3.
16:9:
The aspect ratio is 16:9.
1:1:
The aspect ratio is 1:1.

Digital Camera
ZV-1F

Color Space

The way colors are represented using combinations of numbers or the range of color reproduction is called "color space." You can change the color space depending on the purpose of the image.

1 MENU → (Shooting) → **[Image Quality/Rec]** → **[Color Space]** → **desired setting.**

Menu item details

sRGB:
This is the standard color space of the digital camera. Use [sRGB] in normal shooting, such as when you intend to print out the images without any modification.

AdobeRGB:
This color space has a wide range of color reproduction. When a large part of the subject is vivid green or red, Adobe RGB is effective. The file name of the recorded image starts with "_."

Note

- [AdobeRGB] is for applications or printers that support color management and DCF2.0 option color space. Images may not be printed or viewed in the correct colors if you use applications or printers that do not support Adobe RGB.

- When displaying images that were recorded with [AdobeRGB] on non-Adobe RGB-compliant devices, the images will be displayed with low saturation.

Digital Camera
ZV-1F

File Format (movie)

Selects the movie file format.

1. MENU → 📷/🎬 (Shooting) → [Image Quality/Rec] → [🎬 File Format] → desired setting.

Menu item details

🎬 File Format	Characteristics
XAVC S 4K	Records movies in 4K resolution (3840×2160).
XAVC S HD	Records movies in HD resolution (1920×1080).

Related Topic

- Memory cards that can be used

Digital Camera
ZV-1F

Movie Settings (movie)

Sets the frame rate, bit rate, color information, etc.

1 MENU → ⬛/▶⬛ (Shooting) → [Image Quality/Rec] → [▶⬛ Movie Settings] → [Rec Frame Rate] → desired setting.

2 MENU → ⬛/▶⬛ (Shooting) → [Image Quality/Rec] → [▶⬛ Movie Settings] → [Record Setting] → desired setting.

Example of setting values

100M 4:2:0 8bit
(A)   (B)   (C)

(A): Bit rate
(B): Color sampling
(C): Bit depth

- The higher the bit rate, the higher the image quality.

Menu item details

When [▶⬛ File Format] is set to [XAVC S 4K]

Rec Frame Rate	Record Setting	Size	Movie compression format
30p/25p	100M 4:2:0 8bit	3840×2160	Long GOP
30p/25p	60M 4:2:0 8bit	3840×2160	Long GOP
24p*	100M 4:2:0 8bit	3840×2160	Long GOP
24p*	60M 4:2:0 8bit	3840×2160	Long GOP

*   Only when [NTSC/PAL Selector] is set to NTSC.

When [▶⬛ File Format] is set to [XAVC S HD]

Rec Frame Rate	Record Setting	Size	Movie compression format
60p/50p	50M 4:2:0 8bit	1920×1080	Long GOP
60p/50p	25M 4:2:0 8bit	1920×1080	Long GOP

Rec Frame Rate	Record Setting	Size	Movie compression format
30p/25p	50M 4:2:0 8bit	1920×1080	Long GOP
30p/25p	16M 4:2:0 8bit	1920×1080	Long GOP
24p*	50M 4:2:0 8bit	1920×1080	Long GOP
120p/100p	100M 4:2:0 8bit	1920×1080	Long GOP
120p/100p	60M 4:2:0 8bit	1920×1080	Long GOP

* Only when [NTSC/PAL Selector] is set to NTSC.

Note

- Recording frame rates are indicated as the closest integer values. The actual corresponding frame rates are as follows: 24p: 23.98 fps, 30p: 29.97 fps, 60p: 59.94 fps, and 120p: 119.88 fps.

Related Topic

- File Format (movie)

Digital Camera
ZV-1F

S&Q Settings

You can record a moment that cannot be captured by the naked eye (slow-motion recording), or record a long-term phenomenon into a compressed movie (quick-motion recording). For example, you can record an intense sports scene, the moment when a bird starts to fly, a blooming flower, and a changing view of clouds or a starry sky. Sound will not be recorded.

1 **Press the Still/Movie/S&Q button to select the slow-motion/quick-motion recording mode.**

2 **MENU → ▶■ (Shooting) → [Shooting Mode] → [S&Q Shoot Mode] → and select the desired setting of slow-motion/quick-motion (Intelligent Auto, Program Auto, Aperture Priority, Shutter Priority, or Manual Exposure).**

3 **Select MENU → ▶■ (Shooting) → [Image Quality/Rec] → [S&Q S&Q Settings] → Select an item to set, and then select the desired setting.**

4 **Press the MOVIE (movie) button to start recording.**

● Press the MOVIE button again to stop recording.

Menu item details

S&Q Rec Frame Rate:
Selects the frame rate of the movie.

S&Q Frame Rate:
Selects the shooting frame rate.

● The format of the recorded movie will be locked to [XAVC S HD] regardless of the [▶■ File Format] setting.

Playback speed

The playback speed will vary as below depending on the assigned [S&Q Rec Frame Rate] and [S&Q Frame Rate].
When [NTSC/PAL Selector] is set to NTSC

S&Q Frame Rate	S&Q Rec Frame Rate: 24p	S&Q Rec Frame Rate: 30p	S&Q Rec Frame Rate: 60p
120fps	5 times slower	4 times slower	—
60fps	2.5 times slower	2 times slower	Normal playback speed
30fps	1.25 times slower	Normal playback speed	2 times quick
15fps	1.6 times quick	2 times quick	4 times quick

S&Q Frame Rate	S&Q Rec Frame Rate: 24p	S&Q Rec Frame Rate: 30p	S&Q Rec Frame Rate: 60p
8fps	3 times quick	3.75 times quick	7.5 times quick
4fps	6 times quick	7.5 times quick	15 times quick
2fps	12 times quick	15 times quick	30 times quick
1fps	24 times quick	30 times quick	60 times quick

When [NTSC/PAL Selector] is set to PAL

S&Q Frame Rate	S&Q Rec Frame Rate: 25p	S&Q Rec Frame Rate: 50p
100fps	4 times slower	—
50fps	2 times slower	Normal playback speed
25fps	Normal playback speed	2 times quick
12fps	2.08 times quick	4.16 times quick
6fps	4.16 times quick	8.33 times quick
3fps	8.33 times quick	16.66 times quick
2fps	12.5 times quick	25 times quick
1fps	25 times quick	50 times quick

- When [S&Q Frame Rate] is set to [120fps]/[100fps], you cannot set [S&Q Rec Frame Rate] to [60p]/[50p].

Hint

- For an estimation of recordable time, refer to "Recordable movie times."

- The bit rate of recorded movies differs depending on the settings for [S&Q Frame Rate] and [S&Q Rec Frame Rate].

Note

- In slow-motion/quick-motion recording, the actual shooting time differs from the time recorded in the movie. The recordable time displayed toward the top of the monitor shows the remaining recording time for the movie, not the remaining recording time on the memory card.

- In slow-motion recording, the shutter speed becomes faster and you may not be able to obtain the proper exposure. If this happens, decrease the aperture value or set the ISO sensitivity to a higher value.

Related Topic

- Recordable movie times
- Memory cards that can be used

Digital Camera
ZV-1F

Proxy Settings

You can simultaneously record a low-bit-rate proxy movie when recording a movie or slow-motion recording/quick-motion recording.
Since proxy movies are small in file size, they are suitable for transferring to smartphones or uploading to websites.

1. MENU → ▶■ (Shooting) → [Image Quality/Rec] → [**Px** Proxy Settings] → Select an item to set, and then select the desired setting.

Menu item details

Px Proxy Recording:
Selects whether to simultaneously record proxy movies. ([On] / [Off])

Recording settings for proxy movies

Proxy movies are recorded with the following settings.

File format:
XAVC S HD

Recording size:
1280×720

Recording frame rate:
Max. 60p/Max. 50p

Recording settings:
9Mbps

Compression codec:
MPEG-4 AVC/H.264

> **Hint**
> - Proxy movies are not displayed on the playback screen (single-image playback screen or image index screen). **Px** (proxy) is displayed over movies for which a proxy movie was simultaneously recorded.

> **Note**
> - Proxy movies cannot be played back on this camera.
> - Proxy recording is not available in the following situations.
>   Normal movie recording
>   - [Rec Frame Rate] is set to [120p]/[100p]
>
>   Slow-motion recording/quick-motion recording
>   - [**S&Q** Frame Rate] is set to [120fps]/[100fps]

- Deleting/protecting movies that have proxy movies removes/protects both the original and proxy movies. You cannot delete/protect only original movies or proxy movies.

- Movies cannot be edited on this camera.

Related Topic

- [Memory cards that can be used](#)

Digital Camera
ZV-1F

Touch Operation

Sets whether or not to activate touch operations on the monitor.

1 MENU → 🗄 (Setup) → [Touch Operation] → [Touch Operation] → desired setting.

Menu item details

On:
Activates touch operations.

On: Playback Only:
Activates touch operations only during playback.

Off:
Deactivates touch operations.

Related Topic

- Touch Func. in Shooting
- Touch operations on the monitor
- Shooting with touch operations (Touch Shutter)
- Focusing using touch operations (Touch Focus)
- Starting tracking with touch operations (Touch Tracking)

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Digital Camera
ZV-1F

Icon Touch Function

Basic operations and settings can be performed by touching the icons displayed on the screen instead of using the buttons.

1 MENU → 📷 (Setup) → [Touch Operation] → [Icon Touch Function] → desired setting.

Menu item details

On:
Enables the icon touch function. You can change the settings of functions or operate the camera by touching icons.
Off:
Disables the icon touch function.

Icon touch button

When [Icon Touch Function] is set to [On], the icon touch button (A) is displayed. You can temporarily switch the icon touch function on/off by touching the button.
When the icon touch function is turned off, the settings cannot be changed by touching the setting icons (B), and the operation icons (C) are hidden.
Display example (when the display mode is [Display All Info.]):

● When [Icon Touch Function] is turned on
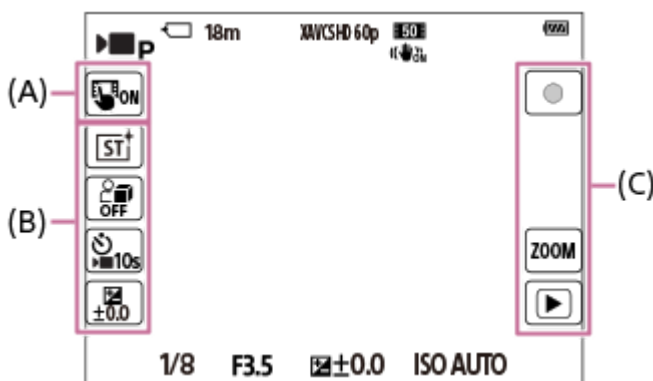
● When [Icon Touch Function] is turned off
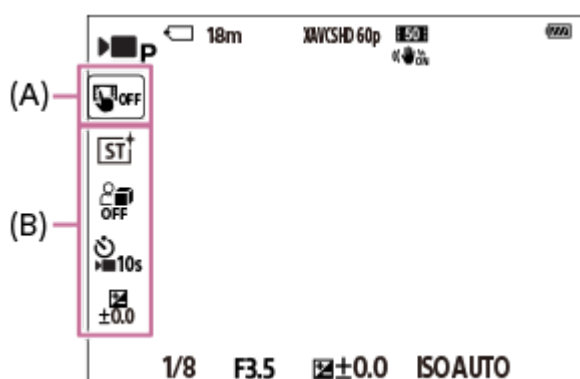
(A): Icon touch button
(B): Icons for settings
(C): Icons for operation

Note

- The icon touch function will become disabled when [Touch Operation] is set to [Off], even if [Icon Touch Function] is set to [On]. When [Touch Operation] is set to [On: Playback Only], you can use the icon touch function only in the playback mode.

Related Topic

- DISP (Screen Disp) Set
- Touch Operation

Digital Camera
ZV-1F

Swipe Up

You can set whether to open the function menu when swiping upward on the shooting standby screen.

1 **MENU → (Setup) → [Touch Operation] → [Swipe Up] → desired setting.**

Menu item details

Open the Fn Menu:
The function menu opens by swiping up. You can close the function menu by swiping down from an area outside the function menu or tapping outside the function menu.

Off:
The function menu does not open by swiping up.

> **Note**
> - You cannot open the function menu by swiping up when [Touch Operation] is set to [On: Playback Only] or [Off], even if [Open the Fn Menu] is selected.

Related Topic
- Using the function menu
- Touch Operation

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Digital Camera
ZV-1F

Touch Func. in Shooting

Sets the operation activated by touching the screen during shooting.

1 MENU → ⊡ (Setup) → [Touch Operation] → [Touch Func. in Shooting] → desired setting.

Menu item details

Touch Focus:
The focusing position is set by touching the screen during shooting.

Touch Tracking:
The subject is selected and tracking is started by touching the screen during shooting.

Touch Shutter:
Focuses on the touched subject and shoots images by touching the screen during shooting.

Off:
Disables touch operations during shooting.

Related Topic

- Focusing using touch operations (Touch Focus)
- Starting tracking with touch operations (Touch Tracking)
- Touch Operation

Digital Camera
ZV-1F

Focusing using touch operations (Touch Focus)

[Touch Focus] allows you to specify a position where you want to focus using touch operations. Select MENU → 📷 (Setup) → [Touch Operation] → [Touch Operation] → [On] beforehand.
This function is available when [📷 Focus Area] is set to one of following parameters:

- [Wide]
- [Zone]
- [Center Fix]

1 MENU → 📷 (Setup) → **[Touch Operation] → [Touch Func. in Shooting] → [Touch Focus].**

Specifying the position where you want to focus in the still image mode

When performing auto-focusing, you can specify the position where you want to focus using touch operations. After touching the monitor and specifying a position, press the shutter button halfway down to focus.

1. Touch the monitor.

   - Touch the subject to focus.
   - To cancel focusing with touch operations, touch 📷 (Touch focus release) icon or press the center of the control wheel.

2. Press the shutter button halfway down to focus.

   - Press the shutter button all the way down to shoot images.

Specifying the position where you want to focus in the movie recording mode (Spot focus)

The camera will focus on the touched subject.

1. Touch the subject on which you want to focus before or during recording.

   - To cancel spot focus, touch 📷 (Touch focus release) icon or press the center of the control wheel.

> **Hint**
>
> - In addition to the touch focus function, touch operations such as the following are also available.
>   - The focusing frame for [Spot] and [Expand Spot] can be moved by dragging.
>   - When [📷 Focus Mode] is set to [Manual Focus], the focus magnifier can be used by double-tapping the monitor.

> **Note**
>
> - The touch focus function is not available in the following situations:
>   - When [📷 Focus Mode] is set to [Manual Focus]
>   - When using the digital zoom

Related Topic

- Touch Func. in Shooting

- Touch Operation
- Selecting the focus area (Focus Area)

Digital Camera
ZV-1F

Starting tracking with touch operations (Touch Tracking)

You can use touch operations to select a subject you want to track in the still image shooting mode and movie recording mode.
Select MENU → ⊞ (Setup) → [Touch Operation] → [Touch Operation] → [On] in advance.

1 **MENU → ⊞ (Setup) → [Touch Operation] → [Touch Func. in Shooting] → [Touch Tracking].**

2 **Touch the subject that you want to track on the monitor.**

Tracking will start.

Hint

- To cancel tracking, touch 🔲 (Tracking release) icon or press the center of the control wheel.

Note

- [Touch Tracking] is unavailable in the following situations:
  - When shooting movies with [Rec Frame Rate] under [▶ Movie Settings] set to [120p]/[100p]
  - When [▶ File Format] is set to [XAVC S 4K] and [Px Proxy Recording] is set to [On]
  - When [▶ File Format] is set to [XAVC S 4K] and outputting a movie via HDMI
  - When [🎞 Focus Mode] is set to [Manual Focus].
  - When using the Smart Zoom, Clear Image Zoom and Digital Zoom

- If the focus mode is switched to [Manual Focus] while [Touch Func. in Shooting] is set to [Touch Tracking], the setting value for [Touch Func. in Shooting] will be changed to [Touch Focus].

Related Topic

- Touch Func. in Shooting
- Touch Operation

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Digital Camera
ZV-1F

Shooting with touch operations (Touch Shutter)

The camera automatically focuses on the point you touch and shoots a still image. Set MENU → ▣ (Setup) → [Touch Operation] → [Touch Operation] to [On] in advance.

1 **Select MENU → ▣ (Setup) → [Touch Operation] → [Touch Func. in Shooting] → [Touch Shutter].**

2 **Touch the subject on which you would like to focus.**

The camera focuses on the subject you touched, and a still image is recorded.

Hint

- You can operate the shooting functions below by touching the monitor:
  - Shooting burst images using the touch shutter
    When [Drive Mode] is set to [Cont. Shooting], you can record burst images while touching the monitor.

Note

- The [Touch Shutter] function is unavailable in the following situations:
  - When shooting movies
  - When shooting slow-motion/quick-motion movies
  - When [📷 Focus Mode] is set to [Manual Focus]
  - When [📷 Focus Area] is set to [Spot]/[Expand Spot]
  - While using the digital zoom function
  - While using the [Clear Image Zoom]

- If the focus mode is switched to [Manual Focus] while [Touch Func. in Shooting] is set to [Touch Shutter], the setting value for [Touch Func. in Shooting] will change to [Touch Focus].

Related Topic

- Touch Func. in Shooting
- Touch Operation

Digital Camera
ZV-1F

Silent Mode (still image/movie)

Sets whether or not to shoot without shutter sounds or electronic sounds.

1 **MENU → (Shooting) → [Shutter/Silent] → [Silent Mode] → desired setting.**

Menu item details

On:
Does not produce a shutter sound or electronic sounds.

Off:
Produces a shutter sound and electronic sounds.

> **Note**
> ● Use the silent mode function on your own responsibility, while taking sufficient consideration to the privacy and portrait rights of the subject.
>
> ● Even if [Silent Mode] is set to [On], the operating sound of the aperture and focus will sound.

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Digital Camera
ZV-1F

Release w/o Card

Sets whether the shutter can be released when no memory card has been inserted.

1 **MENU → □ (Shooting) → [Shutter/Silent] → [Release w/o Card] → desired setting.**

Menu item details

Enable:
Releases the shutter even if no memory card has been inserted.

Disable:
Does not release the shutter when no memory card has been inserted.

> **Note**
>
> - When no memory card has been inserted, the images shot will not be saved.
>
> - The default setting is [Enable]. It is recommended that you select [Disable] prior to actual shooting.

Digital Camera
ZV-1F

The zoom features available with this product

The zoom feature of the product provides a higher magnification zoom by combining various zoom features. The icon displayed on the screen changes, according to the selected zoom feature.
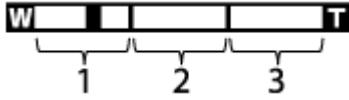
1. **Smart Zoom range** ($_S$🔍)
   Zoom images without causing the original quality to deteriorate by partially cropping an image (only when [JPEG Image Size] is set to [M] or [S]).

2. **Clear Image Zoom range** ($_C$🔍)
   Zoom images using an image process with less deterioration.
   When you set [🎬 Zoom Range] to [Clear Image Zoom] or [Digital Zoom], you can use this zoom function.

3. **Digital Zoom range** ($_D$🔍)
   You can magnify images using an image process.
   When you set [🎬 Zoom Range] to [Digital Zoom], you can use this zoom function.

> **Hint**
> - The default setting for the [JPEG Image Size] is [L]. To use the smart zoom, change [JPEG Image Size] to [M] or [S].

> **Note**
> - The Smart Zoom, Clear Image Zoom and Digital Zoom functions are not available when shooting in the following situations:
>   - [Rec Frame Rate] is set to [120p]/[100p].
>   - During slow-motion/quick-motion shooting with the [S&Q Frame Rate] set to [120fps]/[100fps]
> - You cannot use the Smart Zoom function with movies.
> - When you use a zoom function, the [🎬 Focus Area] setting is disabled and the AF operates with priority on and around the center area.
> - When you use the Smart Zoom, Clear Image Zoom or Digital Zoom function, [🎬 Metering Mode] is locked to [Multi].
> - When using the Smart Zoom, Clear Image Zoom or Digital Zoom function, the following functions are not available:
>   - Subject Recognition AF
>   - 🎬 Face Priority in Multi Metering
>   - Tracking function

Related Topic
- Zoom
- Zoom Range (still image/movie)
- About zoom scale

Digital Camera
ZV-1F

Zoom

You can zoom by using the W/T (zoom) lever or by touching the zoom icon on the screen.

Using the zoom lever

1. Enlarge the subject using the W/T (zoom) lever.

   - Move the W/T (zoom) lever to the T side to zoom in and to the W side to zoom out.

Touching the zoom icons on the screen

1. MENU → [Setup] (Setup) → [Touch Operation] → [Icon Touch Function] → [On].
2. Touch **ZOOM** (Zoom) icon **(A)**, and then select the magnification scale **(B)**. Alternatively, touch and hold the W or T icon **(C)**.
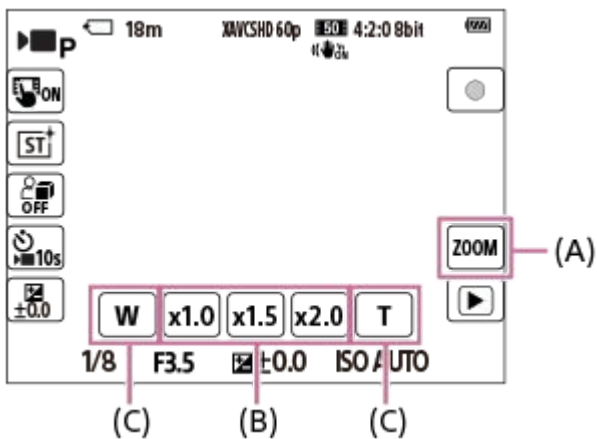
(A): **ZOOM** (Zoom) icon
(B): Magnification scale
(C): W/T icon

Related Topic

- Zoom Range (still image/movie)
- Zoom Speed
- Step Zoom Magnif. (still image/movie)

Digital Camera
ZV-1F

Zoom Range (still image/movie)

You can select the zoom setting of the product.

1. MENU → ⬛/▶■ (Shooting) → [Zoom] → [Zoom Range] → desired setting.

Menu item details

Smart zoom only:
Limits the zoom range to the smart zoom. You can use the smart zoom function for shooting still images when [JPEG Image Size] is set to [M] or [S].

Clear Image Zoom :
Select this setting to use Clear Image Zoom. Even if the zoom range exceeds the smart zoom, the product will magnify images using image processing with less deterioration.

Digital Zoom :
When the zoom range of the Clear Image Zoom is exceeded, the product magnifies images to the largest scale. However, the image quality will deteriorate.

> **Note**
> - Set [Smart zoom only] if you want to magnify images within the range in which image quality does not deteriorate.

Related Topic
- The zoom features available with this product
- About zoom scale

Digital Camera
ZV-1F

Zoom Speed

Sets the zoom speed. This setting is applied to zoom operations using the zoom lever and when you touch and hold the W/T icons on the screen.

1 MENU → **(Shooting)** → **[Zoom]** → **[Zoom Speed]** → **desired setting.**

Menu item details

Slow:
Sets the zoom speed to slow.
Normal:
Sets the zoom speed to normal.
Fast:
Sets the zoom speed to fast.

> **Note**
> - The [Zoom Speed] settings are also used when you are zooming with a remote controller (sold separately) connected to the camera.

Related Topic

- Zoom

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Digital Camera
ZV-1F

Step Zoom Magnif. (still image/movie)

Set the zoom magnification that can be selected with the touch button on the shooting screen or with the key to which the [Step Zoom] function is assigned.

1 **Select MENU → ⟨⟩ / ▶■ (Shooting) → [Zoom] → [Step Zoom Magnif.].**

2 **Add checkmarks to the magnification values that you want to use and select [OK].**

- The magnifications with ✔ (check mark) can be selected in the following cases:
  - When you touch the ZOOM (Zoom) button on the shooting screen
  - When you press the custom key to which [Step Zoom] is assigned

Menu item details

Add check marks to the magnification values that you want to use.
x1.0/x1.5/x2.0/x4.0

> **Hint**
> - To select the zoom magnification with the custom key, assign [Step Zoom] to the key of your choice with [Custom Key Setting] or [▶■ Custom Key Setting] in advance.

> **Note**
> - When shooting movies, the maximum magnification may vary depending on the setting for [▶■ File Format] or [Zoom Range].
>   - **When [▶■ File Format] is set to HD**
>   Clear Image Zoom: [x2.0] at maximum
>   Digital Zoom: [x4.0] at maximum
>   - **When [▶■ File Format] is set to 4K**
>   Clear Image Zoom: [x1.5] at maximum
>   Digital Zoom: [x4.0] at maximum

Related Topic

- Zoom
- Zoom Range (still image/movie)
- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)

Digital Camera
ZV-1F

About zoom scale

The zoom scale changes according to the selected image size.

When [Aspect Ratio] is [3:2]

JPEG Image Size	Smart zoom only	Clear Image Zoom	Digital Zoom
L: 20M	-	Approx. 2×	Approx. 4×
M: 10M	Approx. 1.4×	Approx. 2.8×	Approx. 5.6×
S: 5.0M	Approx. 2×	Approx. 4×	Approx. 8×

Related Topic

- The zoom features available with this product
- Zoom Range (still image/movie)

Digital Camera
ZV-1F

SteadyShot (movie)

Sets [SteadyShot] effect when shooting movies.

1 MENU → ▶ (Shooting) → [Image Stabilization] → [SteadyShot] → desired setting.

Menu item details

Active:
Provides a powerful SteadyShot effect.

Off:
Does not use [SteadyShot].

> **Note**
>
> - When using a tripod, etc., make sure to turn off the SteadyShot function because this can cause any malfunction when shooting.
>
> - If you change the setting for [SteadyShot], the angle of view will change.
>
> - In the following situations, [SteadyShot] is fixed to [Off]:
>   - Normal movie recording: [Rec Frame Rate] is set to [120p]/[100p]
>   - Slow-motion recording/quick-motion recording: [S&Q Frame Rate] is set to [120fps]/[100fps]

Digital Camera
ZV-1F

High ISO NR

When shooting with high ISO sensitivity, the product reduces noise that becomes more noticeable when the product sensitivity is high.

1 MENU → □ (Shooting) → [Image Quality/Rec] → [High ISO NR] → desired setting.

Menu item details

Normal:
Activates high ISO noise reduction normally.

Low:
Activates high ISO noise reduction moderately.

Off:
Does not activate high ISO noise reduction.

Digital Camera
ZV-1F

Auto Review (still image)

You can check the recorded image on the screen right after the shooting. You can also set the display time for Auto Review.

1 **MENU → (Setup) → [Display Option] → [Auto Review] → desired setting.**

Menu item details

10 Sec/5 Sec/2 Sec:
Displays the recorded image on the screen right after shooting for the selected duration of time. If you perform a magnifying operation during Auto Review, you can check that image using the magnified scale.
Off:
Does not display the Auto Review.

> **Note**
> - When you use a function that performs image processing, the image before processing may be displayed temporarily, followed by the image after processing.
> - The DISP (Display Setting) settings are applied for the Auto Review display.

Related Topic
- [Enlarging an image being played back (Enlarge Image)](#)

Digital Camera
ZV-1F

Grid Line Display (still image/movie)

Sets whether the grid line is displayed or not during shooting. The grid line will help you to adjust the composition of images.

1 MENU → ⬛/▶■ (Shooting) → [Shooting Display] → [🔲 Grid Line Display] → desired setting.

Menu item details

On:
Displays the grid line.
Off:
Does not display the grid line.

> **Hint**
> - If you assign [Grid Line Display Select] to a desired key using [⬛ Custom Key Setting] or [▶■ Custom Key Setting], you can show or hide the grid lines by pressing the assigned key.

Related Topic

- Grid Line Type (still image/movie)
- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)

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Digital Camera
ZV-1F

Grid Line Type (still image/movie)

Sets the displayed type of grid line. The grid line will help you to adjust the composition of images.

1 MENU → ▣ / ▶■ (Shooting) → [Shooting Display] → [🔳 Grid Line Type] → desired setting.

Menu item details

Rule of 3rds Grid:
Place main subjects close to one of the grid lines that divide the image into thirds for a well-balanced composition.

Square Grid:
Square grids make it easier to confirm the horizontal level of your composition. This is useful for assessing the composition when shooting landscapes, closeups, or when performing camera scanning.

Diag. + Square Grid:
Place a subject on the diagonal line to express an uplifting and powerful feeling.

> **Hint**
> If you assign [🔳 Grid Line Type] to a desired key using [📷 Custom Key Setting] or [▶■ Custom Key Setting], you can switch the type of grid line each time you press the assigned key.

Related Topic

- Grid Line Display (still image/movie)
- Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)

Digital Camera
ZV-1F

Live View Display

Sets whether or not to show images altered with effects of the exposure compensation, white balance, or [▒ Creative Look] on the screen.

1 MENU → ◯/▶■ (Shooting) → [Shooting Display] → [Live View Display] → desired setting.

Menu item details

Setting Effect ON:
Displays Live View in conditions close to what your picture will look like as a result of applying all your settings. This setting is useful when you want to shoot pictures while checking the results of the shot on the Live View screen.

Setting Effect OFF:
Displays Live View without the effects of exposure compensation, white balance, or [▒ Creative Look]. When this setting is used, you can easily check the image composition.

Live View is always displayed with the appropriate brightness even in [Manual Exposure] mode.

When [Setting Effect OFF] is selected, the VIEW (VIEW) icon is displayed on the Live View screen.

Note

- If you shoot movies in the still image shooting mode, the shooting settings will be reflected in Live View even when [Live View Display] is set to [Setting Effect OFF].

- When [Live View Display] is set to [Setting Effect OFF], the brightness of the shot image will not be the same as that of the displayed Live View.

Digital Camera
ZV-1F

Bright Monitoring

Allows you to adjust the composition when shooting in dark environments. By extending the exposure time, you can check the composition on the monitor even in dark locations such as under the night sky.

1 **MENU → ⊞ (Setup) → [Operation Customize] → [⚫ Custom Key Setting] → assign the [Bright Monitoring] function to the desired key.**

2 **In a still image shooting mode, press the key to which you assigned the [Bright Monitoring] function, and then shoot an image.**

- The brightness due to [Bright Monitoring] will continue after shooting.
- To return the monitor brightness to normal, press the key to which you assigned the [Bright Monitoring] function once again.

Note

- During [Bright Monitoring], [Live View Display] will automatically switch to [Setting Effect OFF], and setting values such as exposure compensation will not be reflected in the live view display. It is recommended that you use [Bright Monitoring] only in dark locations.

- [Bright Monitoring] will be automatically canceled in the following situations.
  - When the camera is turned off.
  - When the focus mode is set to other than manual focus.
  - When [Auto Magnifier in MF] is executed.
  - When [Focus Magnifier] is selected.

- During [Bright Monitoring], the shutter speed may be slower than normal while shooting in dark locations. Also, because the measured brightness range is expanded, the exposure may change.

Related Topic

- Live View Display

Digital Camera
ZV-1F

Emphasized REC Display

Sets whether or not to display a red frame around the edges of the camera's monitor while recording a movie. You can easily check whether the camera is in standby or recording, even when you are looking at the camera monitor from an angle or at a distance.

1 MENU → ▶☐ (Shooting) → [Shooting Display] → [Emphasized REC Display] → desired setting.

Menu item details

On:
Displays a red frame to indicate that recording is in progress.

Off:
Does not display a frame to indicate that recording is in progress.

> **Hint**
>
> - The frame displayed by this function can also be output to an external monitor connected via HDMI. Set [HDMI Info. Display] to [On].

Related Topic

- HDMI Info. Display

Digital Camera
ZV-1F

Marker Display

While shooting movies, you can set whether or not to display markers on the monitor, and select the types of marker.

1. **MENU → ▶▇ (Shooting) → [Marker Display] → Select a menu item and set the desired parameter.**

Menu item details

Marker Display:
Sets whether or not to display markers. ([On] / [Off])

Center Marker:
Sets whether or not to display the center marker in the middle of the shooting screen. ([Off] / [On])

Aspect Marker:
Sets the aspect marker display. ([Off] / [9:16] / [4:5] / [1:1] / [4:3] / [13:9] / [14:9] / [15:9] / [17:9] / [1.66:1] / [1.85:1] / [1.91:1] / [2:1] / [2.35:1] / [2.39:1])

Safety Zone:
Sets the safety zone display. This becomes the standard range that can be received by a general household TV. ([Off] / [80%] / [90%])

Guideframe:
Sets whether or not to display the guide frame. You can verify whether the subject is level or perpendicular to the ground. ([Off] / [On])

Hint

- You can display several markers at the same time.

- Position the subject at the cross point of [Guideframe] to ensure a balanced composition.

Note

- The markers are displayed when the shooting mode is set to [Movie] or [S&Q Motion], or when shooting movies.

- You cannot display markers when using [Focus Magnifier].

- The markers are displayed on the monitor. (You cannot output the markers.)

Digital Camera
ZV-1F

Gamma Display Assist

📷 **📹** **S&Q**

Movies with S-Log gamma are assumed to be processed after shooting in order to make use of the wide dynamic range. Images with the HLG gamma are assumed to be displayed on HDR-compatible monitors. They are therefore displayed in low contrast during shooting, and may be difficult to monitor. However, you can use the [Gamma Display Assist] function to reproduce contrast equivalent to that of normal gamma. In addition, [Gamma Display Assist] can also be applied when playing back movies on the camera's monitor.

1 **MENU → 🛠 (Setup) → [Display Option] → [Gamma Display Assist] → desired setting.**

Menu item details

On:
Uses the gamma display assist function.
Off:
Does not use the gamma display assist function.

> **Hint**
> - If you assign [Gamma Disp. Assist Sel.] to a desired key using [📷 Custom Key Setting], [📹 Custom Key Setting], or [▶ Custom Key Setting], you can turn the gamma display assist function on or off by pressing the assigned key.

> **Note**
> - [Gamma Display Assist] is not applied to movies when displayed on a TV or monitor connected to the camera.

Related Topic
- Picture Profile (still image/movie)
- Gamma Disp. Assist Typ.

Digital Camera
ZV-1F

Gamma Disp. Assist Typ.

Selects the conversion type for [Gamma Display Assist].

1 MENU → ⊞ (Setup) → [Display Option] → [Gamma Disp. Assist Typ.] → desired setting.

Menu item details

Auto:
- Displays images with effects as follows according to the gamma or color mode set in [Picture Profile].

  - When the gamma is set to [S-Log2]: [S-Log2→709(800%)]
  - When the gamma is set to [S-Log3]: [S-Log3→709(800%)]
  - When the gamma is set to [HLG], [HLG1], [HLG2], or [HLG3], and the color mode is set to [BT.2020]: [HLG(BT.2020)]
  - When the gamma is set to [HLG], [HLG1], [HLG2], or [HLG3], and the color mode is set to [709]: [HLG(709)]

S-Log2→709(800%):
Displays images with an S-Log2 gamma reproducing contrast equivalent to ITU709 (800%).

S-Log3→709(800%):
Displays images with an S-Log3 gamma reproducing contrast equivalent to ITU709 (800%).

HLG(BT.2020):
Displays images after adjusting the image quality of the monitor to a quality that is almost the same as when images are displayed on an [HLG(BT.2020)] compatible monitor.

HLG(709):
Displays images after adjusting the image quality of the monitor to a quality that is almost the same as when images are displayed on an [HLG(709)] compatible monitor.

> **Hint**
> - If you assign [Gamma Disp. Assist Typ.] to a desired key using [Custom Key Setting] or [Custom Key Setting], you can switch the [Gamma Disp. Assist Typ.] setting.

> **Note**
> - When [Gamma Display Assist] is set to [Auto] during playback, an effect is applied to the image as follows:
>   - When playing back a movie recorded with [HLG], [HLG1], [HLG2], or [HLG3]: Displays the image with an [HLG(BT.2020)] or [HLG(709)] effect depending on the color mode.
>
>   In other situations, movies are displayed according to the gamma setting and color mode setting in [Picture Profile].

Related Topic
- Gamma Display Assist
- Picture Profile (still image/movie)
- HDMI Output Settings (movie)

Digital Camera
ZV-1F

Audio Recording

Sets whether to record sounds when shooting movies. Select [Off] to avoid recording the sounds of the lens and the camera operating. This function cannot be used during slow-motion/quick-motion shooting.

1 MENU → ▶▇ (Shooting) → [Audio Recording] → [Audio Recording] → desired setting.

Menu item details

On:
Records sound.

Off:
Does not record sound.

Related Topic

- Audio Rec Level

Digital Camera
ZV-1F

Audio Rec Level

📷 ▶🎬 S&Q

You can adjust the audio recording level while checking the level meter. This function cannot be used during slow-motion/quick-motion shooting.

1 MENU → ▶🎬 (Shooting) → [Audio Recording] → [Audio Rec Level].

2 Select the desired level using the right/left sides of the control wheel.

Menu item details

+:
Turns up the audio recording level.

-:
Turns down the audio recording level.

Hint

- When you record audio movies with loud volumes, set [Audio Rec Level] to a lower sound level. Doing so enables you to record more realistic audio. When you record audio movies with lower volumes, set [Audio Rec Level] to a greater sound level to make the sound easier to hear. Check that the volume is at the appropriate level by the volume level meter on the camera.

- To reset the audio recording level to the default setting, press the 🗑 (Delete) button.

Note

- Regardless of the [Audio Rec Level] settings, the limiter always operates.

- [Audio Rec Level] is available only when the shooting mode is set to movie mode.

- The [Audio Rec Level] settings are applied for both the internal microphone and the 🎤 (microphone) terminal input.

Digital Camera
ZV-1F

Wind Noise Reduct.

Sets whether or not to reduce wind noise by cutting the low-range sound of the input audio from the built-in microphone.
This function cannot be used during slow-motion/quick-motion shooting.
Although wind noise is reduced by using the wind screen (supplied), use this function along with the wind screen if wind noise is still noticeable.

1 **MENU → ▶▣ (Shooting) → [Audio Recording] → [Wind Noise Reduct.] → desired setting.**

Menu item details

On:
Reduces wind noise.
Off:
Does not reduce wind noise.

> **Note**
> - The sound quality may vary from the normal recording settings when [Wind Noise Reduct.] is set to [On].
> - When an external microphone (sold separately) is used, [Wind Noise Reduct.] does not function.

Digital Camera
ZV-1F

Audio Level Display

📷 ▶🎬 S&Q

Sets whether to display the audio level on the screen. This function cannot be used during slow-motion/quick-motion shooting.

1 MENU → ▶🎬 (Shooting) → [Audio Recording] → [Audio Level Display] → desired setting.

Menu item details

On:
Displays the audio level.
Off:
Does not display the audio level.

> **Note**
>
> - The audio level is not displayed in the following situations:
>   - When [Audio Recording] is set to [Off].
>   - When DISP (Display Setting) is set to [No Disp. Info.].
>
> - The audio level is also displayed while shooting stand-by in movie recording mode.

Digital Camera
ZV-1F

Livestreaming video and audio (USB Streaming)

You can connect a computer, etc. to the camera and use the camera video and audio for livestreaming or web-conferencing services. Select MENU → (Setup) → [USB] → [USB Connection Mode] → [Sel. When Connect] or [USB Streaming] beforehand.

1 Connect the camera to a computer or other device with a USB cable.

[USB Streaming:Standby] will appear on the camera screen, and the camera will switch to the streaming standby state.

- If [USB Connection Mode] is set to [Sel. When Connect], select [Live Stream(USB Streaming)] on the selection screen for the USB connection mode.
- Use a cable or adapter that matches the terminal on the device to be connected.

2 Start streaming from your livestreaming/web-conferencing service.

[USB Streaming:Output] will appear on the camera screen.

- To exit [USB Streaming], turn off the power of the camera or disconnect the USB cable.

Hint

- If you assign [Product Showcase Set] or [Background Defocus] to [Custom Key Setting], you can use these functions even during USB streaming.

- The format of the streaming data is as follows.
  - Video format: MJPEG
  - Resolution: HD720 (1280×720)
  - Frame rate: 30 fps / 25 fps
  - Audio format: PCM, 48 kHz, 16 bit, 2 ch

- During USB streaming, power is supplied to the camera from the computer. If you want to consume as little computer power as possible, set [USB Power Supply] to [Off].

- When using an external microphone, you can minimize deviations between your voice and the movements of your mouth by connecting the microphone to the (microphone) terminal of the camera.

Note

- While USB streaming is in progress, the camera is always set to the movie recording mode regardless of the shooting mode before the start of streaming.

- You cannot do the following while [USB Streaming] is running.
  - Transition to the playback screen
  - Network functions (PC remote, remote operation from a smartphone, etc.)

- The following functions are disabled while [USB Streaming] is running.
  - Recording the streaming video
  - Menu-screen operations

- Capturing a custom white balance
- Picture Profile
- Power Save Start Time
- Auto Monitor OFF

- Depending on the temperature environment, Wi-Fi connection environment, and usage conditions before the start of streaming, the internal temperature of the camera may rise, and the time available for streaming may become shorter.

Related Topic

- USB Connection Mode

Digital Camera
ZV-1F

Contents of this chapter

The following table of contents lists the features described in this chapter ("Customizing the camera"). From each item name, you can jump to the page describing the respective functions.

[Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)](#)

Registering frequently used functions to the function menu

- Fn Menu Settings

Registering frequently used functions to My Menu

- Add Item
- Sort Item
- Delete Item
- Delete Page
- Delete All
- Display From My Menu

Recording movies by pressing the shutter button

- REC w/ Shutter (movie)

Monitor settings

- Monitor Flip Direction
- DISP (Screen Disp) Set

Digital Camera
ZV-1F

Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)

You can use the custom key function to assign the functions you use most frequently to easily operable buttons. This lets you skip the process of selecting items from MENU, so you can recall the functions more quickly.

You can separately assign functions to custom keys for the still image shooting mode, movie shooting mode, and playback mode.

- Assignable functions vary depending on the buttons.

You can assign functions to the following buttons.
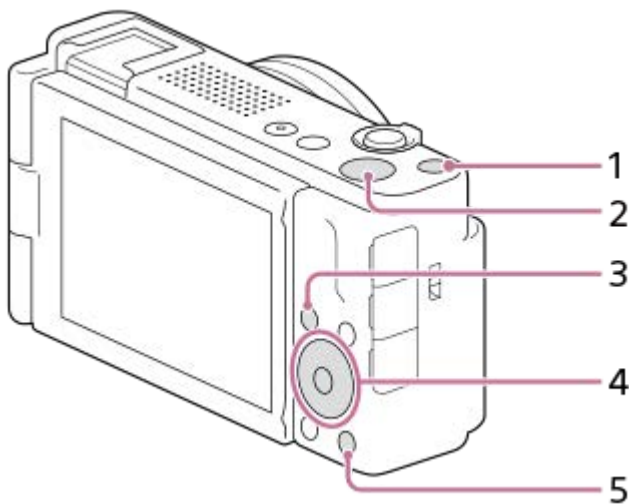
1. Custom Button 1
2. MOVIE Button
3. Fn/ 🔁 Button
4. Center Button/Left Button/Right Button
5. 🔁Button

The following is the procedure for assigning the [Subject Recognition AF] function to the center button.

1 **MENU → 📇 (Setup) → [Operation Customize] → [📷 Custom Key Setting].**

- If you want to assign a function to recall while shooting movies, select [▶▌ Custom Key Setting]. If you want to assign a function to recall while playing back images, select [▶ Custom Key Setting].

2 **Move to the [Rear] screen using the top/bottom side of the control wheel. Then, select [Center Button] and press the center of the control wheel.**

3 **Select [Subject Recognition AF] using the top/bottom/left/right side of the control wheel, and then press the center.**

- If you press the center button while shooting and eyes are detected, [Subject Recognition AF] will activate and the camera will focus on the eyes. Shoot images while holding down the center button.

Related Topic

- Fn Menu Settings
- Using the function menu

Digital Camera
ZV-1F

Fn Menu Settings

The Function menu is a menu of 12 functions that is displayed at the bottom of the screen when you press the Fn (Function) button in the shooting mode.
You can register 12 functions to the Function menus for still image shooting and movie shooting, respectively.

The following is the procedure for changing [Drive Mode] in the still image function menu to [Grid Line Display].

- To change the movie function menu, select a movie function menu item in Step 2.

1 **MENU → (Setup) → [Operation Customize] → select [Fn Menu Settings].**

2 **Select (Drive Mode) from among the 12 still image function menu items using the top/bottom/left/right side of the control wheel, and then press the center.**

3 **Move to the screen showing [Grid Line Display] using the left/right side of the control wheel. Then, select [Grid Line Display] and press the center of the control wheel.**

- (Grid Line Display) will be displayed in the former location of (Drive Mode) in the Function menu.

Hint

- When [Touch Operation] is set to [On], you can also open [Fn Menu Settings] by holding down the icon in the function menu.

Related Topic

- Using the function menu

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Digital Camera
ZV-1F

Add Item

You can register the desired menu items to ☆ (My Menu) under MENU.

1 **MENU → ☆ (My Menu) → [My Menu Setting] → [Add Item].**

2 **Select an item that you want to add to ☆ (My Menu) using the top/bottom/left/right sides of the control wheel.**

3 **Select a destination using the top/bottom/left/right sides of the control wheel.**

Hint

- You can add up to 42 items to ☆ (My Menu).

Note

- You cannot add the following items to ☆ (My Menu).
  - Any item under MENU → ▶ (Playback)

Related Topic

- Sort Item
- Delete Item
- Using the menu

Digital Camera
ZV-1F

Sort Item

You can rearrange the menu items added to ☆ (My Menu) under MENU.

1   MENU → ☆ (My Menu) → [My Menu Setting] → [Sort Item].

2   **Select an item that you want to move using the top/bottom/left/right sides of the control wheel.**

3   **Select a destination using the top/bottom/left/right sides of the control wheel.**

Related Topic

- [Add Item](#)

Digital Camera
ZV-1F

Delete Item

📷 ▶️ S&Q

You can delete menu items added to ☆ (My Menu) of MENU.

1 **MENU → ☆ (My Menu) → [My Menu Setting] → [Delete Item].**

2 **Select an item that you want to delete using the top/bottom/left/right sides of the control wheel, and then press the center to delete the selected item.**

Hint

- To delete all the items on a page, select MENU → ☆ (My Menu) → [My Menu Setting] → [Delete Page].
- You can delete all the items added to ☆ (My Menu) by selecting MENU → ☆ (My Menu) → [My Menu Setting] → [Delete All].

Related Topic
- Delete Page
- Delete All
- Add Item

Digital Camera
ZV-1F

Delete Page

You can delete all the menu items added to a page under ☆ (My Menu) in MENU.

1 **MENU → ☆ (My Menu) → [My Menu Setting] → [Delete Page].**

2 **Select a page that you want to delete using the top/bottom sides of the control wheel, and then press the center of the control wheel to delete the items.**

Related Topic

- Delete All
- Add Item

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Digital Camera
ZV-1F

Delete All

You can delete all the menu items added to ☆ (My Menu) in MENU.

1 **MENU → ☆ (My Menu) → [My Menu Setting] → [Delete All].**

2 **Select [OK].**

Related Topic

- Delete Page
- Add Item

Digital Camera
ZV-1F

Display From My Menu

You can set My Menu to appear first when you press the MENU button.

1 MENU → ☆ (My Menu) → [My Menu Setting] → [Display From My Menu] → desired setting.

Menu item details

On:
My Menu appears first when you press the MENU button.
Off:
The most recently displayed menu appears when you press the MENU button.

Related Topic

- Add Item
- Using the menu

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Digital Camera
ZV-1F

REC w/ Shutter (movie)

You can start or stop recording movies by pressing the shutter button, which is bigger and easier to press than the MOVIE (Movie) button.

1 MENU → 🛠 (Setup) → [Operation Customize] → [REC w/ Shutter] → desired setting.

Menu item details

On:
Enables movie recording using the shutter button when the shooting mode is set to [Movie] or [S&Q Motion].
Off:
Disables movie recording using the shutter button.

Related Topic
- [Shooting movies (Intelligent Auto)](#)

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Digital Camera
ZV-1F

Monitor Flip Direction

📷 ▶️ S&Q

The direction of image and menu screen displays can be inverted according to how the monitor is opened and the orientation of the monitor.

1 **MENU → ⊞ (Setup) → [Monitor] → [Monitor Flip Direction] → desired setting.**

Menu item details

Auto:
Inverts the direction of the display of the monitor by detecting how the monitor is opened and the orientation of the monitor.

Horizontal Flip:
Flips the display of the monitor horizontally when shooting.

180 Degree Flip:
Rotates the display of the monitor 180 degrees for all kinds of displays such as images and menu screens.

No Flip:
Does not invert the display of the monitor.

Hint
- By repeatedly pressing the key to which the [Switch Monitor Flip Disp] function is assigned, you can switch the setting in the order of [Horizontal Flip] → [180 Degree Flip] → [No Flip] → [Horizontal Flip]. When [Monitor Flip Direction] is set to [Auto], the display method is temporarily switched while the setting value remains [Auto].

Note
- Even if [Monitor Flip Direction] is set to [Horizontal Flip], the direction of the monitor display during playback will not be inverted.

Digital Camera
ZV-1F

DISP (Screen Disp) Set

Allows you to set the screen display modes that can be selected using DISP (Display Setting) in shooting mode.

1 MENU → ⊡ (Setup) → [Operation Customize] → [DISP (Screen Disp) Set] → desired setting → [Enter].

The items marked with ✔ (check) are available.

Menu item details

Display All Info. :
Shows recording information.

No Disp. Info. :
Does not show recording information.

Histogram :
Displays the luminance distribution graphically.

Level :
Indicates whether the product is level in both the front-back **(A)** and horizontal **(B)** directions. When the product is level in either direction, the indicator turns to green.
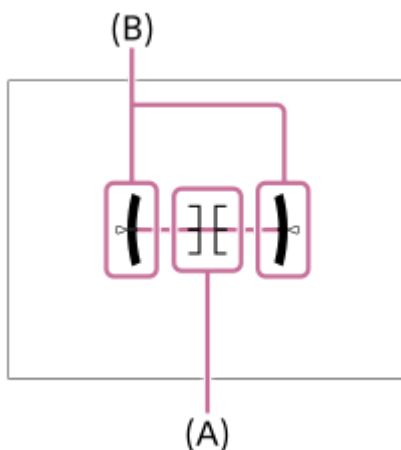
Note

- If you tilt the product forward or backward by a large degree, the level error will be great.
- The product may have a margin of error of almost ±1° even when the inclination is corrected by the level.

Related Topic
- Using the DISP (Display Setting) button

Digital Camera
ZV-1F

Contents of this chapter

The following table of contents lists the features described in this chapter ("Viewing"). From each item name, you can jump to the page describing the respective functions.

Digital Camera
ZV-1F

Playing back still images

Plays back the recorded images.

1 **Press the ▶ (Playback) button to switch to the playback mode.**

2 **Select the image with the control wheel.**

- Images shot with continuous shooting or interval shooting are displayed as one group. To play back the images in the group, press the center of the control wheel.

Hint

- The product creates an image database file on a memory card to record and play back images. An image that is not registered in the image database file may not be played back correctly. To play back images shot using other devices, register those images to the image database file using MENU → ◻/▶■ (Shooting) → [Media] → [Recover Image DB].

- If you play back the images right after continuous shooting, the monitor may display an icon indicating that data is being written/the number of images left to write. During writing, some functions are not available.

Related Topic

- Recover Image DB (still image/movie)
- Display as Group
- Enlarging an image being played back (Enlarge Image)

Digital Camera
ZV-1F

Enlarging an image being played back (Enlarge Image)

Enlarges the image being played back. Use this function to check the focus of the image, etc.

1 **Display the image you want to enlarge, and slide the W/T (zoom) lever to the T side.**

- Slide the W/T (zoom) lever to the W side to adjust the zoom scale.
- The view will zoom in on the part of the image where the camera focused during shooting. If the focus location information cannot be obtained, the camera will zoom in on the center of the image.

2 **Select the portion you want to enlarge by pressing the top/bottom/right/left sides of the control wheel.**

3 **Press the MENU button or the center of the control wheel to exit the playback zoom.**

Hint

- You can also enlarge an image being played back using MENU.
- You can change the initial magnification and initial position of enlarged images by selecting MENU → ▶ (Playback) → [Magnification] → [⊕ Enlarge Initial Mag.] or [⊕ Enlarge Initial Position].
- You can also enlarge the image by touching the monitor. Drag the monitor to move the enlarged position. Set [Touch Operation] to [On] beforehand.

Note

- You cannot enlarge movies.

Related Topic

- Enlarge Initial Mag.
- Enlarge Initial Position
- Touch Operation
- Touch operations on the monitor

Digital Camera
ZV-1F

Enlarge Initial Mag.

Sets the initial magnification scale when playing back enlarged images.

1 MENU → ▶ (Playback) → [Magnification] → [⊕ Enlarge Initial Mag.] → desired setting.

Menu item details

Standard. Mag.:
Displays an image with the standard magnification.

Previous Mag.:
Displays an image with the previous magnification. The previous magnification is stored even after the enlarged display screen is closed.

Related Topic

- Enlarging an image being played back (Enlarge Image)
- Enlarge Initial Position

Digital Camera
ZV-1F

Enlarge Initial Position

Sets the initial position when enlarging an image in playback.

1 MENU → ▶ (Playback) → [Magnification] → [⊕ Enlarge Initial Position] → desired setting.

Menu item details

Focused Position:
Enlarges the image from the point of focus during shooting.
Center:
Enlarges the image from the center of the screen.

Related Topic

- Enlarging an image being played back (Enlarge Image)
- Enlarge Initial Mag.

Digital Camera
ZV-1F

Rotating recorded images automatically (Display Rotation)

Selects the orientation when playing back recorded images.

1 MENU → ▶ (Playback) → [Playback Option] → [Display Rotation] → desired setting.

Menu item details

Auto:
When you rotate the camera, the camera detects the vertical and horizontal directions, and displays the image being played back according to the orientation.

Manual:
Images shot vertically are displayed vertically. If you have set the image orientation using the [Rotate] function, the image will be displayed accordingly.

Off:
Images are always displayed horizontally.

> **Note**
> - Movies shot vertically are played back horizontally during movie playback.

Related Topic
- Rotating an image (Rotate)

Digital Camera
ZV-1F

Playing back movies

Plays back the recorded movies.

1 **Press the [▶] (playback) button to switch to playback mode.**

2 **Select the movie to be played back using the control wheel and press the center of the control wheel to start playback.**

Available operations during movie playback

You can perform slow playback and sound volume adjustment, etc. by pressing the down side of the control wheel.

- ▶ : Playback
- ‖ : Pause
- ▶▶ : Fast-forward
- ◀◀ : Fast-rewind
- ‖▶ : Forward slow playback
- ◀‖ : Reverse slow playback
- ▶▶‖ : Next movie file
- ‖◀◀ : Previous movie file
- ‖▶ : Displays the next frame
- ◀‖ : Displays the previous frame
- : Photo Capture
- ◀)) : Sound volume adjustment
- ↩ : Closes the operation panel

Hint

- The product creates an image database file on a memory card to record and play back images. An image that is not registered in the image database file may not be played back correctly. To play back images shot using other devices, register those images to the image database file using MENU → (Shooting) → [Media] → [Recover Image DB].

- "Forward slow playback," "Reverse slow playback," "Displays the next frame" and "Displays the previous frame" are available during pause.

- Movie files recorded using other products may not be playable on this camera.

- For movies with Shot Marks, the positions of the Shot Marks are displayed on the playback bar during movie playback. In addition, the Shot Mark icon is displayed on the screen when a scene to which a Shot Mark was added is played back.

Note

- Even if you shoot the movie vertically, the movie will be displayed horizontally on the screen of the camera.

Related Topic

- [Recover Image DB (still image/movie)](#)
- [Switching between still images and movies (View Mode)](#)

Digital Camera
ZV-1F

Volume Settings

Sets the sound volume for movie playback.

1   **MENU → ▣ (Setup) → [Sound Option] → [Volume Settings] → desired setting.**

Adjusting the volume during playback

Press the bottom side of the control wheel while playing back movies to display the operation panel, then adjust the volume. You can adjust the volume while listening to the actual sound.

Digital Camera
ZV-1F

Playing back images using slideshow (Slide Show)

Automatically plays back images continuously.

1   **MENU → ▶ (Playback) → [Viewing] → [Slide Show] → desired setting.**

2   **Select [Enter].**

Menu item details

Repeat:
Select [On], in which images are played back in a continuous loop, or [Off], in which the product exits the slideshow when all the images are played back once.

Interval:
Select the display interval for images from among [1 Sec], [3 Sec], [5 Sec], [10 Sec] or [30 Sec].

To quit the slideshow in the middle of playback

Press the MENU button to quit the slideshow. You cannot pause the slideshow.

> **Hint**
>
> - During playback, you can display the next/previous image by pressing the right/left side of the control wheel.
>
> - You can activate a slideshow only when [View Mode] is set to [Date View] or [Folder View(Still)].

Digital Camera
ZV-1F

Cont. Play for Interval

Continuously plays back images shot using interval shooting.
You can create movies from still images produced by interval shooting using the computer software Imaging Edge Desktop(Viewer). You cannot create movies from the still images on the camera.

1 **MENU →** ▶ **(Playback) → [Viewing] → [Cont. Play for ⏱ Interval].**

2 **Select the image group that you want to play back, and then press the center of the control wheel.**

Hint

- On the playback screen, you can start continuous playback by pressing the down button while displaying an image in the group.

- You can resume play or pause by pressing the down button during playback.

- You can change the playback speed by turning the control wheel during playback. You can also change the playback speed by selecting MENU → ▶ (Playback) → [Viewing] → [Play Speed for ⏱ Interval].

- You can continuously play back images shot with continuous shooting as well.

Related Topic

- Interval Shoot Func.
- Play Speed for Interval
- Introduction to computer software (Imaging Edge Desktop/Catalyst)

Digital Camera
ZV-1F

Play Speed for Interval

Sets the playback speed for still images during [Cont. Play for ⟳ Interval].

1 **MENU → ▶ (Playback) → [Viewing] → [Play Speed for ⟳ Interval] → desired setting.**

Hint

- You can also change the playback speed by turning the control wheel during [Cont. Play for ⟳ Interval].

Related Topic

- Cont. Play for Interval

Digital Camera
ZV-1F

Playing back images on the image index screen (Image Index)

You can display multiple images at the same time in playback mode.

1 **Slide the W/T (zoom) lever to the W side while the image is being played back.**

2 **Select the image by pressing the top/bottom/right/left sides of the control wheel or turning the control wheel.**

To change the number of images to be displayed

MENU → ▶ (Playback) → [Playback Option] → [Image Index] → desired setting.

Menu item details

9 Images/25 Images

To return to single-image playback

Select the desired image and press the center of the control wheel.

To display a desired image quickly

Select the bar on the left of the image index screen using the control wheel, then press the top/bottom sides of the control wheel. While the bar is being selected, you can display the calendar screen or folder selection screen by pressing the center. In addition, you can switch View Mode by selecting an icon.

Related Topic
- Switching between still images and movies (View Mode)

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Digital Camera
ZV-1F

Switching between still images and movies (View Mode)

Sets the View Mode (image display method).

1 **MENU → ▶ (Playback) → [Playback Target] → [View Mode] → desired setting.**

Menu item details

Date View:
Displays the images by date.

Folder View(Still):
Displays only still images.

▤ Movie View:
Displays only movies by date.

Digital Camera
ZV-1F

Display as Group

Sets whether or not to display continuously shot images or images shot using interval shooting as a group.

1 MENU → ▶ (Playback) → [Playback Option] → [Display as Group] → desired setting.
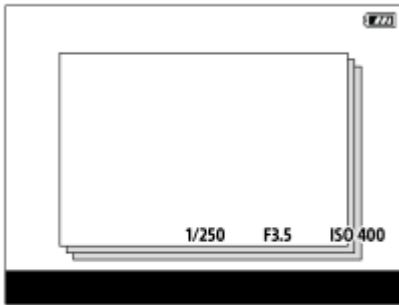
Menu item details

On:
Displays images as a group.
To play back the images in a group, select the group and press the center of the control wheel.
Off:
Does not display images as a group.

> **Hint**
> - The following images are grouped.
>   - Images shot with [Drive Mode] set to [Cont. Shooting] or [Speed Prior. Cont.] (One sequence of images shot continuously by holding down the shutter button during continuous shooting becomes one group.)
>   - Images shot with [Interval Shoot Func.] (Images shot during one session of interval shooting become one group.)
> - On the image index screen, ⊡ (Display as Group) icon is displayed over the group.

> **Note**
> - If you delete the group, all the images in the group will be deleted.

Related Topic
- Cont. Shooting
- Interval Shoot Func.

Digital Camera
ZV-1F

Disp Specified Time Img.

You can play back images by specifying the shooting date and time.

1   MENU → ▶ (Playback) → [Playback Option] → [Disp Specified Time Img.].

2   **Set the date and time of the image to be played back using the control wheel, and then press the center.**

The image shot on the specified date and time will be played back.

- If there are no images shot on the specified date and time, the image shot on the closest date and time will be played back.

Note

- When [Disp Specified Time Img.] is performed while playing back images in a group, the image shot on the closest date and time in the group is played back.

- For movies, the date and time when the recording was started are treated as the shooting date and time.

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Digital Camera
ZV-1F

Protecting recorded images (Protect)

Protects recorded images against accidental erasure. The ⬚ (protect) mark is displayed on protected images.

1 MENU → ▶ (Playback) → [Selection/Memo] → [Protect] → desired setting.

Menu item details

Multiple Img.:
Applies the protection of the selected multiple images.
(1) Select the image to be protected, then press the center of the control wheel. The ✔ (check) mark is displayed in the check box. To cancel the selection, press the center again to remove the ✔ (check) mark.
(2) To protect other images, repeat step (1).
(3) MENU → [OK].

All in this Folder:
Protects all images in the selected folder.

Cancel All in this Folder:
Cancels the protection of all images in the selected folder.

All with this date:
Protects all images taken on the selected date.

Cancel All with this date:
Cancels the protection of all images taken on the selected date.

All Images in This Group:
Protects all the images in the selected group.

Cancel All in This Group:
Cancels the protection of all the images in the selected group.

Hint

- If you assign [Protect] to the key of your choice using MENU → ⬚ (Setup) → [Operation Customize] → [▶ Custom Key Setting], you can protect images or cancel protection by simply pressing the key.

- If you select a group in [Multiple Img.], all the images in the group will be protected. To select and protect particular images within the group, execute [Multiple Img.] while displaying the images within the group.

Note

- The menu items that can be selected vary according to the [View Mode] setting and the selected content.

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213

Digital Camera
ZV-1F

Rating

You can assign ratings to recorded images on a scale of the number of stars (★ - ☆☆) to make it easier to find images.

1 **MENU → ▶ (Playback) → [Selection/Memo] → [Rating].**

The image rating selection screen will appear.

2 **Press the left/right sides of the control wheel to display an image to which you want to assign a rating, and then press the center.**

3 **Select the level of ★ (Rating) by pressing the left/right side of the control wheel, and then press the center.**

4 **Press the MENU button to exit the rating setting screen.**

To set ratings when shooting still images

Assign [Add Rating (★)] through [Add Rating (☆☆)] to the desired keys using [📷 Custom Key Setting] in advance and press the custom keys after shooting a still image. You can set the rating for the last shot still image.

● Ratings cannot be set when shooting movies.

> **Hint**
> ● You can also assign ratings when playing back images by using the custom key. Assign [Rating] to the desired key using [▶ Custom Key Setting] beforehand, and then press the custom key while playing back an image to which you want to assign a rating. The level of ★ (Rating) changes each time you press the custom key.

Related Topic
● Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)
● Rating Set(Custom Key)

Digital Camera
ZV-1F

Rating Set(Custom Key)

Sets the available number of ★ (rating) when rating (ranking) images with the key to which you have assigned [Rating] using [▶ Custom Key Setting].

1 **MENU → ▶ (Playback) → [Selection/Memo] → [Rating Set(Custom Key)].**

2 **Add a ✓ (check) mark to the number of ★ (rating) that you want to activate.**

You can select the checked number when setting [Rating] using the custom key.

Related Topic

- [Rating](#)
- [Assigning frequently used functions to buttons (Custom Key Setting) (still image/movie)](#)

Digital Camera
ZV-1F

Rotating an image (Rotate)

Rotates a recorded image counter-clockwise.

1 **Display the image to be rotated, then select MENU → ▶ (Playback) → [Edit] → [Rotate].**

2 **Press the center of the control wheel.**

The image is rotated counter-clockwise. The image rotates as you press the center.
If you rotate the image once, the image remains rotated even after the product is turned off.

Note

- Even if you rotate a movie file, it will be played back horizontally on the monitor of the camera.

- You may not be able to rotate images shot using other products.

- When viewing rotated images on a computer, the images may be displayed in their original orientation depending on the software.

Digital Camera
ZV-1F

Photo Capture

Captures a chosen scene in a movie to save as a still image. First shoot a movie, then pause the movie during playback to capture decisive moments that tend to be missed when shooting still images, and save them as still images.

1 **Display the movie that you want to capture as a still image.**

2 **MENU → ▶ (Playback) → [Edit] → [Photo Capture].**

3 **Play back the movie and pause it.**

4 **Find the desired scene using forward slow playback, reverse slow playback, displays the next frame, and displays the previous frame, and then stop the movie.**

5 **Press 🎞️ (Photo Capture) to capture the chosen scene.**

The scene is saved as a still image.

Related Topic

- Shooting movies (Intelligent Auto)
- Playing back movies

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Digital Camera
ZV-1F

Deleting multiple selected images (Delete)

You can delete multiple selected images. Once you have deleted an image, you cannot restore it. Confirm the image to be deleted beforehand.

1 MENU → ▶ (Playback) → [Delete] → [Delete] → desired setting.

Menu item details

All Other Than This Img.:
Deletes all images in the group except the selection.

All Images in This Group:
Deletes all images in the selected group.

Multiple Img.:
Deletes the selected images.

(1) Select the images to be deleted, then press the center of the control wheel. The ✔ (check) mark is displayed in the check box. To cancel the selection, press the center again to remove the ✔ (check) mark.

(2) To delete other images, repeat step (1).

(3) MENU → [OK].

All in this Folder:
Deletes all images in the selected folder.

All with this date:
Deletes all images taken on the selected date.

> **Hint**
>
> - Perform [Format] to delete all images, including protected images.
>
> - To display the desired folder or date, select the desired folder or date during playback by performing the following procedure:
> ▦ (Image Index) lever → select the bar on the left using the control wheel → select the desired folder or date using the top/bottom sides of the control wheel.
>
> - If you select a group in [Multiple Img.], all the images in the group will be deleted. To select and delete particular images within the group, execute [Multiple Img.] while displaying the images within the group.

> **Note**
>
> - The protected images cannot be deleted.
>
> - The menu items that can be selected vary according to the [View Mode] setting and the selected content.

Related Topic
- Display as Group
- Using the Delete button
- Format

Digital Camera
ZV-1F

Delete pressing twice

Sets whether or not you can delete the image currently being played back by pressing the 🗑 (Delete) button twice in sequence.

1 MENU → ▶ (Playback) → [Delete] → [🗑 Delete pressing twice] → desired setting.

Menu item details

On:
Enables you to delete the image currently being played back by pressing the 🗑 (Delete) button twice.
Off:
Does not enable you to delete the image currently being played back by pressing the 🗑 (Delete) button twice.

Digital Camera
ZV-1F

Delete confirm.

You can set whether [Delete] or [Cancel] is selected as a default on the delete confirmation screen.

1 MENU → ▶ (Playback) → **[Delete]** → **[Delete confirm.]** → **desired setting.**

Menu item details

"Delete" first:
[Delete] is selected as the default setting.
"Cancel" first:
[Cancel] is selected as the default setting.

Digital Camera
ZV-1F

Viewing images on a TV using an HDMI cable

To view images stored on this product using a TV, an HDMI cable (sold separately) and a TV equipped with an HDMI jack are required. For details, refer to the operating instructions supplied with the compatible TV.

1 **Turn off both this product and the TV.**

2 **Connect the HDMI terminal of this product to the HDMI jack of the TV using an HDMI cable (sold separately).**

Use an HDMI cable that is compatible with the HDMI Type-D micro jack of the product and the HDMI jack of the TV.
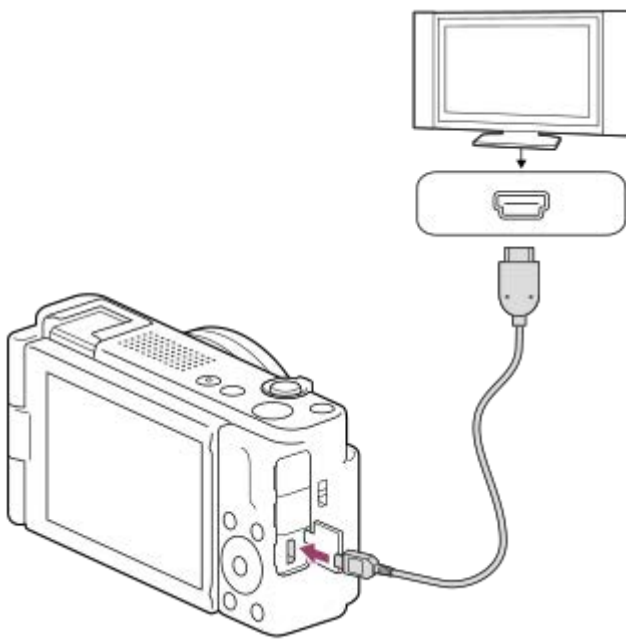
3 **Turn on the TV and switch the input.**

4 **Turn on this product.**

Images shot with the product appear on the TV screen.

5 **Select an image using the right/left sides of the control wheel.**

- The monitor of this camera is not lit up on the playback screen.
- If the playback screen is not displayed, press the ▶ (Playback) button.

Note

- Do not connect this product and another device using the output terminals of both. Doing so may cause a malfunction.
- Some devices may not work properly when connected to this product. For example, they may not output video or audio.
- Use an HDMI cable with the HDMI logo or a genuine Sony cable.

- If images do not appear on the TV screen properly, select MENU → 📷 (Setup) → [External Output] → [📷 HDMI Resolution] → [2160p/1080p], [1080p] or [1080i] according to the TV to be connected.

- During HDMI output, when you switch the movie from 4K to HD image quality or vice-versa, or change the movie to a different frame rate or different color mode, the screen may become dark. This is not a malfunction.

- When [**Px** Proxy Recording] under [**Px** Proxy Settings] is set to [On], images cannot be output to an HDMI device during 4K movie recording.

- If the product performs unwanted operations in response to the TV remote control, select MENU → 📷 (Setup) → [External Output] → [CTRL FOR HDMI] → [Off].

Digital Camera
ZV-1F

Format

When you use a memory card with this camera for the first time, we recommend that you format the card using the camera for stable performance of the memory card. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save valuable data on a computer, etc.

1 MENU → 📷/🎬 (Shooting) → [Media] → [Format].

2 Select [Enter]. (Quick formatting)

- If you press the 🗑 (Delete) button, a message to perform full formatting will be displayed. You can launch full formatting by selecting [Enter].

The difference between quick formatting and full formatting

Perform full formatting when you feel like the speed of recording to the memory card or read-out from the memory card has become slow, or when you want to erase data completely, etc.
Full formatting takes longer than quick formatting, because all areas of the memory card are initialized.

Hint

- You can cancel full formatting before it is completed. Even if you cancel full formatting in the middle of the process, the data will be erased, so you can use the memory card as is.

Note

- The access lamp lights up during formatting. Do not remove the memory card while the access lamp is lit up.

- Format the memory card on this camera. If you format the memory card on the computer, the memory card may not be usable depending on the format type.

- It may take a few minutes to complete formatting, depending on the memory card.

- If the battery pack is extremely depleted, formatting cannot be performed. Use a sufficiently charged battery pack.

Related Topic

- Memory cards that can be used
- Notes on memory card

Digital Camera
ZV-1F

Recover Image DB (still image/movie)

If image files were processed on a computer, problems may occur in the image database file. In such cases, the images on the memory card will not be played back on this product. Also, if you use a memory card in the camera after using it in another device, the images on the memory card may not be played back correctly. For example, the images may not be displayed as a group. If these problems happen, repair the file using [Recover Image DB].
Images recorded on the memory card are not deleted by [Recover Image DB].

1 **MENU → / (Shooting) → [Media] → [Recover Image DB] → [Enter].**

Note

- If the battery pack is extremely depleted, image database files cannot be repaired. Use a sufficiently charged battery pack.

Digital Camera
ZV-1F

Display Media Info. (still image/movie)

Displays the recordable number of still images and the remaining recording time for movies on the memory card.

1 MENU → ⬚/▶■ (Shooting) → [Media] → [Display Media Info.].

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Digital Camera
ZV-1F

File/Folder Settings

Configure settings related to the folder and file name of the still image to be shot.

1 MENU → _📷 (Shooting) → [File] → [File/Folder Settings] → desired setting.

Menu item details

File Number:
You can set how to assign file numbers to still images.
[Series]: Does not reset file numbers for each folder.
[Reset]: Resets file numbers for each folder.

Forced File Number Reset:
Resets the still image file number and creates a new folder.

Set File Name:
You can specify the first three characters of the file name.

Folder Name:
You can set how folder names are assigned.
[Standard Form]: Folders are named as "folder number + any 5 characters". Example: 100MSDCF
[Date Form]: Folders are named as "folder number + Y (the last digit of the year)/MM/DD".
Example: 10020405 (Folder number: 100; date: 04/05/2022)

> **Hint**
> - When [Folder Name] is set to [Standard Form], the last 5 characters of the folder name can be set using [Create New Folder].
> - You can also change the last five characters of the folder name by using [Forced File Number Reset].

> **Note**
> - Only capital letters, numbers, and underscores can be used for [Set File Name]. Underscores cannot be used for the first character.
> - The three characters specified using [Set File Name] are only applied to files recorded after the setting is made.

Related Topic
- Create New Folder
- File Settings

Digital Camera
ZV-1F

Select REC Folder

If [Folder Name] under [File/Folder Settings] is set to [Standard Form] and there are 2 folders or more, you can select the folder on the memory card to which images are to be recorded.

1 **MENU → [⚆] (Shooting) → [File] → [Select REC Folder] → desired folder.**

Note

- You cannot select the folder when [Folder Name] under [File/Folder Settings] is set to [Date Form].

Related Topic

- File/Folder Settings
- Create New Folder

Digital Camera
ZV-1F

Create New Folder

Creates a new folder on the memory card for recording still images. A new folder is created with a folder number one greater than the largest folder number currently used. Images are recorded in the newly created folder.
Up to 4 000 images in total can be stored in one folder. When the folder capacity is exceeded, a new folder may be automatically created.

1 MENU → ⬟ (Shooting) → [File] → [Create New Folder].

Hint

- You can set the last 5 characters of the folder name.

Note

- When you insert a memory card that was used with other equipment into this product and shoot images, a new folder may be automatically created.

- You cannot change the folder name when [Folder Name] under [File/Folder Settings] is set to [Date Form].

Related Topic

- File/Folder Settings

Digital Camera
ZV-1F

File Settings

Configure settings for the file names of recorded movies.

1 MENU → ▶■ (Shooting) → [File] → [File Settings] → desired setting item.

Menu item details

File Number:
You can set how to assign file numbers to movies.

[Series]: Does not reset file numbers even if the memory card is changed.

[Reset]: Resets the file number when the memory card is changed.

Series Counter Reset:
Resets the series counter used when [File Number] is set to [Series].

File Name Format:
You can set the format for movie file names.

[Standard]: The file name of the recorded movie starts with "C." Example: C0001

[Title]: The file name of the recorded movie becomes "Title+File number."
[Date + Title]: The file name of the recorded movie becomes "Date+Title+File number."
[Title + Date]: The file name of the recorded movie becomes "Title+Date+ File number."

Title Name Settings:
You can set the title when [File Name Format] is set to [Title], [Date + Title], or [Title + Date].

> **Note**
> - Only alphanumeric characters and symbols can be input for [Title Name Settings]. Up to 37 characters can be entered.
>
> - Titles specified using [Title Name Settings] are only applied to movies recorded after the setting is made.
>
> - You cannot set how folder names are assigned for movies.
>
> - If you are using an SDHC memory card, [File Name Format] is locked to [Standard].
>
> - If you insert a memory card used with [File Name Format] set to one of the following into another device, the memory card may not function properly.
>   - [Title]
>   - [Date + Title]
>   - [Title + Date]
>
> - If there are unused numbers due to file deletion, etc., these numbers will be reused when the movie file number reaches "9999."

Related Topic
- File/Folder Settings

Digital Camera
ZV-1F

Write Serial Number (still image/movie)

Writes the camera's serial number when shooting.

1 MENU → [⟡]/▶■ (Shooting) → [File] → [🏠 Write Serial Number] → desired setting.

Menu item details

On:
Writes the camera's serial number to the image.
Off:
Does not write the camera's serial number to the image.

Digital Camera
ZV-1F

Display Wi-Fi Info.

Displays the camera's Wi-Fi MAC address.

1. MENU → ⊕ (Network) → [Wi-Fi] → [Display Wi-Fi Info.].

Digital Camera
ZV-1F

SSID/PW Reset

This product shares connection information with devices that have permission to connect when connecting to a smartphone. If you want to change which devices have permission to connect, reset the connection information.

1 **MENU → ⊕ (Network) → [Wi-Fi] → [SSID/PW Reset] → [OK].**

Note

- If you connect this product to a smartphone after resetting the connection information, you must make the settings for the smartphone again.

Related Topic

- Select on Cam & Send (transferring to a smartphone)
- Operating the camera from a computer

Digital Camera
ZV-1F

Bluetooth Settings

Controls the settings for connecting the camera to a smartphone or Bluetooth remote commander or shooting grip via a Bluetooth connection.

1 **MENU → ⊕ (Network) → [Bluetooth] → Select a menu item and set the desired parameter.**

Menu item details

Bluetooth Function:
Sets whether to activate or not the Bluetooth function of the camera. ([On]/[Off])

Pairing:
Displays the screen for pairing the camera and smartphone or Bluetooth remote commander.

Manage Paired Device:
Enables you to check or delete the pairing information for devices paired with the camera.

Bluetooth Rmt Ctrl:
Sets whether or not to use a Bluetooth compatible remote commander (sold separately). ([On]/[Off])

Disp Device Address:
Displays the BD address of the camera.

> **Note**
>
> - After you delete the pairing information for the camera from your smartphone, delete pairing information for the smartphone from the camera using [Manage Paired Device].

Related Topic
- Bluetooth Rmt Ctrl
- Cnct. while Power OFF (smartphone)
- Pairing the camera with a smartphone (Smartphone Connection)

Digital Camera
ZV-1F

Bluetooth Rmt Ctrl

You can operate the camera using a Bluetooth compatible remote commander (sold separately) or shooting grip (sold separately). For details on compatible remote commanders or shooting grips, visit the Sony website in your area, or consult your Sony dealer or local authorized Sony service facility.

1 **On the camera, select MENU → (Network) → [Bluetooth] → [Bluetooth Function] → [On].**

2 **On the camera, select MENU → (Network) → [Bluetooth] → [Bluetooth Rmt Ctrl] → [On].**

- If there is no Bluetooth device currently paired with the camera, the screen for pairing as described in Step 3 will appear.

3 **On the camera, select MENU → (Network) → [Bluetooth] → [Pairing] to display the screen for pairing.**

4 **On the Bluetooth remote commander, perform pairing.**

- For details, refer to the instruction manual for the Bluetooth remote commander.

5 **On the camera, select [OK] on the confirmation screen for the Bluetooth connection.**

- Pairing is complete, and you can now operate the camera from the Bluetooth remote commander. After pairing the device once, you can connect the camera and the Bluetooth remote commander again in the future by setting [Bluetooth Rmt Ctrl] to [On].

Menu item details

On:
Enables Bluetooth remote commander operation.
Off:
Disables Bluetooth remote commander operation.

Icons displayed when connecting to a Bluetooth remote commander

(Bluetooth connection available): Bluetooth connection with the Bluetooth remote commander is established.
(Bluetooth connection unavailable): Bluetooth connection with the Bluetooth remote commander is not established.

> **Hint**
> - The Bluetooth connection is only active while you are operating the camera using the Bluetooth remote commander.

> **Note**
> - When you initialize the camera, the pairing information is also deleted. To use the Bluetooth remote commander, perform pairing again.
> - If the Bluetooth connection is unstable, remove any obstacles, such as people or metal objects from between the camera and the paired Bluetooth remote commander.

- The following functions cannot be used when [Bluetooth Rmt Ctrl] is set to [On].
  - Power-saving mode

- If the function does not work properly, check the following notes and then try pairing again.
  - Ensure that the camera is either not connected to any other device or connected to only one device using Bluetooth communication. (Up to 2 devices can be connected to the camera at the same time.)
  - Confirm that [Airplane Mode] for the camera is set to [Off].
  - If the function does not work properly even after you have performed the above operations, delete the pairing information for the device that you want to connect using [Manage Paired Device] on the camera.

Related Topic

- Bluetooth Settings

Digital Camera
ZV-1F

Airplane Mode

When you board an airplane, etc., you can temporarily disable all the wireless-related functions including Wi-Fi.

1 **MENU → ⊕ (Network) → [Network Option] → [Airplane Mode] → desired setting.**

   If you set [Airplane Mode] to [On], an airplane mark will be displayed on the screen.

Digital Camera
ZV-1F

Edit Device Name

You can change the device name for Wi-Fi or Bluetooth connections.

1   **MENU → ⊕ (Network) → [Network Option] → [Edit Device Name].**

2   **Select the input box, then input the device name → [OK].**

Related Topic

- Operating the camera from a computer
- Using the keyboard

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Digital Camera
ZV-1F

Reset Network Set.

Resets all the network settings to default settings.
[Airplane Mode] will not be reset to [Off] even if you perform [Reset Network Set.] when [Airplane Mode] is set to [On].

1 MENU → ⊕ (Network) → [Network Option] → [Reset Network Set.] → [Enter].

Digital Camera
ZV-1F

Monitor Brightness

Adjust the brightness of the screen.

1 MENU → 🔧 (Setup) → [Monitor] → [Monitor Brightness] → desired setting.

Menu item details

Manual:
Adjusts the brightness within the range of –2 to +2.

Sunny Weather:
Sets the brightness appropriately for shooting outdoors.

> **Note**
>
> - The [Sunny Weather] setting is too bright for shooting indoors. Set [Monitor Brightness] to [Manual] for indoor shooting.
>
> - The monitor brightness cannot be adjusted in the following situations. The maximum brightness will be [±0].
>   - When [▶️ File Format] is set to [XAVC S 4K].
>   - When [▶️ File Format] is set to [XAVC S HD] and [Rec Frame Rate] under [▶️ Movie Settings] is set to [120p]/[100p].
>
> - The monitor brightness is locked at [-2] when shooting a movie using the Wi-Fi functions.
>
> - The monitor brightness is locked at [-2] when an overheating warning is displayed.

Digital Camera
ZV-1F

Auto Monitor OFF (still image)

Sets whether or not to turn the monitor off automatically in shooting modes for still images.

1 **MENU → ⊡ (Setup) → [Power Setting Option] → [◻ Auto Monitor OFF] → desired setting.**

Menu item details

Does not turn OFF:
Does not turn the monitor off.

2 Sec/5 Sec/10 Sec:
Turns the monitor off after the designated time has been elapsed without any operation performed.
You can resume shooting by performing an operation, such as pressing the shutter button halfway down.

Note

- If you will not be using the camera for a long period of time, turn the camera off.

Digital Camera
ZV-1F

Power Save Start Time

You can set the time by which the power goes off automatically.

1 MENU → ▣ (Setup) → [Power Setting Option] → [Power Save Start Time] → desired setting.

Menu item details

30 Min/5 Min/2 Min/1 Min

> **Note**
>
> - The power save function is deactivated in the following situations:
>   - While power is being supplied via USB
>   - While playing back slideshows
>   - While recording movies
>   - While connected to a computer or TV
>   - When [Bluetooth Rmt Ctrl] is set to [On]
>   - During USB Streaming

Digital Camera
ZV-1F

Power OFF w/ monitor

Sets whether or not the power turns off when the monitor is closed facing inward.

1 MENU → ▣ (Setup) → [Power Setting Option] → [Power OFF w/ monitor] → desired setting.

Menu item details

Power OFF:
The power turns off when the monitor is closed facing inward.

Not Power OFF:
The power does not turn off when the monitor is closed facing inward.

> **Hint**
>
> - When you want to keep shooting images with the monitor closed facing inward, such as during interval shooting or movie recording, set [Power OFF w/ monitor] to [Not Power OFF].

Digital Camera
ZV-1F

Auto Power OFF Temp.

Sets the temperature of the camera at which the camera turns off automatically during shooting. When it is set to [High], you can continue shooting even when the temperature of the camera gets hotter than normal.

1 MENU → 🛠 (Setup) → [Power Setting Option] → [Auto Power OFF Temp.] → desired setting.

Menu item details

Standard:
Sets the standard temperature for the camera to turn off.

High:
Sets the temperature at which the camera turns off to higher than [Standard].

Notes when [Auto Power OFF Temp.] is set to [High]

- Do not shoot while holding the camera in your hand. Use a tripod.
- Using the camera while holding it in your hand for a long period of time may cause low-temperature burns.

Continuous recording time for movies when [Auto Power OFF Temp.] is set to [High]

The duration of time available for continuous movie recording is as follows when the camera starts recording with the default settings after the power has been turned off for a while. The following values indicate the continuous time from when the camera starts recording until the camera stops recording.

Ambient temperature: 25°C (77°F)

Continuous recording time for movies (HD): Approx. 60 minutes

Continuous recording time for movies (4K): Approx. 60 minutes

Ambient temperature: 40°C (104°F)

Continuous recording time for movies (HD): Approx. 60 minutes

Continuous recording time for movies (4K): Approx. 60 minutes

HD: XAVC S HD (60p 50M/50p 50M; when the camera is not connected via Wi-Fi; when the monitor is open)
4K: XAVC S 4K (24p 60M/25p 60M; when the camera is not connected via Wi-Fi; when the monitor is open)

> **Note**
>
> - Even if [Auto Power OFF Temp.] is set to [High], depending on the conditions or the temperature of the camera, the recordable time for movies may not change.

Related Topic

- Recordable movie times

Digital Camera
ZV-1F

USB Connection Mode

Selects the USB connection method when the camera is connected to a computer, etc.

1 MENU → → [USB] → [USB Connection Mode] → desired setting.

Menu item details

Sel. When Connect:
Each time you connect the USB cable to the camera, select the mode you want to use from the following. ([Live Stream(USB Streaming)], [Image Transfer (MSC)], [Image Transfer (MTP)], or [Remote Shoot (PC Remote)])

USB Streaming:
Performs USB streaming via the connected computer or smartphone.

MassStorage(MSC):
Establishes a Mass Storage connection when connecting the camera to a computer, etc.
When you connect the camera to a computer or other USB device, the camera is recognized as a removable disk, and you can transfer files on the camera.

MTP:
Establishes an MTP connection between the camera, a computer, and other USB devices.
When you connect the camera to a computer or other USB device, the camera is recognized as a media device, and you can transfer still images/movies on the camera.

PC Remote:
Uses Imaging Edge Desktop (Remote) to control the product from a computer, including such functions as shooting and storing images on the computer.

Related Topic
- Livestreaming video and audio (USB Streaming)
- Importing images to the computer
- Operating the camera from a computer

Digital Camera
ZV-1F

USB LUN Setting

Enhances compatibility by limiting of USB connection functions.

1 MENU → ⚏ (Setup) → [USB] → [USB LUN Setting] → desired setting.

Menu item details

Multi:
Normally, use [Multi].

Single:
Set [USB LUN Setting] to [Single] only if you cannot make a connection.

Digital Camera
ZV-1F

USB Power Supply

Sets whether to supply power via the USB cable when the product is connected to a computer or an USB device.

1   **MENU → ⊡ (Setup) → [USB] → [USB Power Supply] → desired setting.**

Menu item details

On:
Power is supplied to the product via a USB cable when the product is connected to a computer, etc.
Off:
Power is not supplied to the product via a USB cable when the product is connected to a computer, etc.

Operations available while supplying power via a USB cable

The following table shows you which operations are available/unavailable while supplying power via a USB cable.

Operation	Available / Unavailable
Shooting images	Available
Playing back images	Available
Wi-Fi/Bluetooth connections	Available
Charging a battery pack	Unavailable
Turning the camera on without a battery pack inserted	Unavailable

Note

- Insert the battery pack into the product to supply power via USB cable.

- The setting for [USB Power Supply] is effective only when this product is connected to a USB device that is compatible with the 500 mA power supply standard.

Digital Camera
ZV-1F

HDMI Resolution

When you connect the camera to a TV or monitor device using an HDMI cable (sold separately), you can select the resolution to be output from the HDMI terminal of the camera during still image shooting or playback.

1 **MENU → ⊡ (Setup) → [External Output] → [📷 HDMI Resolution] → desired setting.**

Menu item details

Auto:
The camera automatically recognizes the resolution of the connected TV or output device and sets the output resolution accordingly.

2160p/1080p:
Outputs signals in 2160p/1080p.

1080p:
Outputs signals in HD picture quality (1080p).

1080i:
Outputs signals in HD picture quality (1080i).

> **Note**
> - If images are not displayed properly using the [Auto] setting, select [1080i], [1080p], or [2160p/1080p] based on the connected TV.

Digital Camera
ZV-1F

HDMI Output Settings (movie)

Sets the video and audio to be output to an external recorder/player connected via HDMI when shooting a movie.
Use a Premium High Speed HDMI Cable (sold separately) to output 4K movies.

1 MENU → ◻ (Setup) → [External Output] → [▶◼ HDMI Output Settings] → desired setting item.

Menu item details

Rec. Media dur HDMI Output:
Sets whether or not to record movies on the memory card of the camera during HDMI output.

[On]: Records movies on the memory card of the camera, and outputs the movies to the HDMI-connected device at the same time.

[Off(HDMI Only)]: Does not record movies on the memory card of the camera, and outputs movies only to devices connected via HDMI.

Output Resolution:
Sets the resolution of the image that will be output to another device connected via HDMI when [Rec. Media dur HDMI Output] is set to [On]. ([Auto]/[2160p/1080p]/[1080p]/[1080i])

4K Output Set.(HDMI Only):
Sets the frame rate and color depth of 4K movie output to another device connected via HDMI when [Rec. Media dur HDMI Output] is set to [Off(HDMI Only)]. ([30p 8bit]/[25p 8bit]/[24p 8bit])

> **Note**
>
> - A 4K movie is not output to the connected 4K-compatible device during slow-motion/quick-motion shooting.
>
> - When [Rec. Media dur HDMI Output] is set to [Off(HDMI Only)], [HDMI Info. Display] becomes temporarily set to [Off].
>
> - When [Rec. Media dur HDMI Output] is set to [Off(HDMI Only)], the counter does not move forward (the actual recording time is not counted) while the movie is being recorded on an external recorder/player.
>
> - When shooting 4K movies with [Rec. Media dur HDMI Output] under [▶◼ HDMI Output Settings] set to [On], if a proxy movie is recorded at the same time, the movie cannot be output to a device connected via HDMI. To output movies using HDMI, set [Px Proxy Recording] to [Off]. (At this time, if [Rec Frame Rate] is set to anything other than [24p], the image will not be displayed on the camera monitor.)
>
> - When [▶◼ File Format] is set to [XAVC S 4K] and an HDMI connection is used, the following functions are partially restricted.
>   - 🎬 Subject Recog in AF
>   - Face Priority in Multi Metering

Digital Camera
ZV-1F

HDMI Info. Display

Selects whether or not to display shooting information on a TV or a monitor device when the camera and TV, etc. are connected via an HDMI cable (sold separately).

1 MENU → ▣ (Setup) → [External Output] → [HDMI Info. Display] → desired setting.

Menu item details

On:
Displays the shooting information on the TV.

The recorded image and shooting information are displayed on the TV, while nothing is displayed on the camera's monitor.

Off:
Does not display the shooting information on the TV.

Only the recorded image is displayed on the TV, while the recorded image and shooting information are displayed on the camera's monitor.

> **Note**
>
> - When [▶█ File Format] is set to [XAVC S 4K] during an HDMI connection, [Off] is applied.

Digital Camera
ZV-1F

CTRL FOR HDMI

When connecting this product to a TV using an HDMI cable (sold separately), you can operate this product by aiming the TV remote control at the TV.

1 **MENU → ⊡ (Setup) → [External Output] → [CTRL FOR HDMI] → desired setting.**

2 **Connect this product to a TV.**

The input of the TV is switched automatically and images on this product are displayed on the TV screen.

- The operation method differs depending on the TV you are using. For details, refer to the operating instructions supplied with the TV.

Menu item details

On:
You can operate this product with a TV's remote control.
Off:
You cannot operate this product with a TV's remote control.

> **Note**
>
> - If you connect this product to a TV using an HDMI cable, available menu items are limited.
>
> - If the product performs unwanted operations in response to the TV remote control, set [CTRL FOR HDMI] to [Off].

Digital Camera
ZV-1F

Language

Selects the language to be used in the menu items, warnings and messages.

1   **MENU → ⊡ (Setup) → [Area/Date] → [🄰 Language] → desired language.**

Digital Camera
ZV-1F

Area/Date/Time Setting

You can set the area (where you are using the camera), daylight savings ([On]/[Off]), the date display format, and the date and time.
The Area/Date/Time setting screen will be displayed automatically if you did not register your smartphone in the initial setup or when the internal rechargeable backup battery has fully discharged. Select this menu to set the date and time after the first time.

1 **MENU → (Setup) → [Area/Date] → [Area/Date/Time Setting] → desired setting.**

Menu item details

Area Setting:
Sets the area where you are using the camera.

Daylight Savings:
Selects Daylight Savings [On] / [Off].

Date/Time:
Sets the date and time.

- You can switch the time display format (24-hour or 12-hour format) by pressing the (Delete) button.

Date Format:
Selects the date display format.

> **Hint**
>
> - To charge the internal rechargeable backup battery, insert a charged battery pack, and leave the product for 24 hours or more with the power off.
>
> - If the clock resets every time the battery is charged, the internal rechargeable backup battery may be worn out. Consult your service facility.

Digital Camera
ZV-1F

NTSC/PAL Selector

Plays back movies recorded with the product on a NTSC/PAL system TV.

1   MENU → [Setup icon] (Setup) → [Area/Date] → [NTSC/PAL Selector] → [Enter]

Digital Camera
ZV-1F

Audio Signal(Shooting)

Selects whether or not the camera produces a sound when it focuses and during self-timer shooting.

1 MENU → 🔧 (Setup) → [Sound Option] → [Audio Signal(Shooting)] → desired setting.

Menu item details

On:all:
The shutter produces sounds, and sounds are produced for example when the focus is achieved by pressing the shutter button halfway down.

On:shutter only:
Only the shutter produces sounds. Sounds are not produced when focusing by pressing the shutter button halfway down, etc.

Off:
Sounds are not produced.

> **Hint**
> - When [🔇 Silent Mode] is set to [On], [Audio Signal(Shooting)] becomes locked to [Off].

Related Topic

- Audio Signal(Start/End)

Digital Camera
ZV-1F

Audio Signal(Start/End)

Sets whether or not the camera produces an electronic sound when it starts up and shuts down.

1 MENU → (Setup) → [Sound Option] → [Audio Signal(Start/End)] → desired setting.

Menu item details

On:
An electronic sound is produced when the camera starts up and shuts down.

Off:
An electronic sound is not produced when the camera starts up and shuts down.

> **Note**
> - When [Silent Mode] is set to [On], [Audio Signal(Start/End)] is locked to [Off].

Related Topic

- Audio Signal(Shooting)

Digital Camera
ZV-1F

REC Lamp

Sets whether to turn on the recording lamps during movie recording.

1 MENU → ⊡ (Setup) → [Setup Option] → [REC Lamp] → desired setting.

Menu item details

On
The recording lamp lights up during recording.

Off
The recording lamp does not light up during recording.

> **Hint**
> - Set [REC Lamp] to [Off] if the light of the recording lamp reflected by an object, such as glass, is captured by the camera.

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Digital Camera
ZV-1F

Version

Displays the version of this product's software. Check the version when updates for this product's software are released, etc.

1 MENU → (Setup) → [Setup Option] → [Version].

Hint

- You can also save the downloaded firmware data to a memory card and use the memory card to update the firmware of the camera.

Note

- Updating can be performed only when the battery level is (3 remaining battery bars) or more. Use a sufficiently charged battery pack.

Digital Camera
ZV-1F

Privacy Notice

Displays the privacy notification screen.

1 MENU → ⊡ (Setup) → [Setup Option] → [Privacy Notice].

Digital Camera
ZV-1F

Screen Reader (For some models only)

Sets the function for reading aloud information such as text on the screen.
This function is available only when the menu language is set to English on models sold in North America. (As of the release date)

> **1** MENU → ⊞ (Setup) → **[Accessibility]** → **[Screen Reader]** → **Select an item to set, and then select the desired setting.**

Menu item details

Screen Reader:
Sets whether to use the function to read aloud. ([On]/[Off])

Speed:
Sets the speed when reading aloud.

Volume:
Sets the volume when reading aloud.

Digital Camera
ZV-1F

Setting Reset

Resets the product to the default settings. Even if you perform [Setting Reset], the recorded images are retained.

1 **MENU → ⟨Setup⟩ → [Reset Settings] → [Setting Reset] → desired setting.**

Menu item details

Camera Settings Reset:
Initializes the main shooting settings to the default settings. The setting values for both still image shooting and movie recording are initialized.
Initialize:
Initializes all the settings to the default settings.

> **Note**
>
> - Be sure not to eject the battery pack while resetting.
>
> - Settings of [⚙ Picture Profile] will not be reset even when [Camera Settings Reset] or [Initialize] is performed.

Digital Camera
ZV-1F

Functions available with a smartphone (Creators' App)

Using the smartphone application Creators' App, you can shoot an image while controlling the camera using a smartphone or transfer the images recorded on the camera to the smartphone.
Download and install the application Creators' App from your smartphone's application store. If Creators' App is already installed on your smartphone, be sure to update it to the latest version.
For details on Creators' App, refer to the following website.
https://www.sony.net/ca/

Hint

- You can also install Creators' App by scanning the QR Code displayed on the screen of the camera using your smartphone.

Note

- Depending on future version upgrades, the operational procedures or screen displays are subject to change without notice.

Supported smartphones

Refer to the support page for the latest information.
https://www.sony.net/ca/help/mobile/

- For details on Bluetooth versions compatible with your smartphone, check the product website for your smartphone.

Digital Camera
ZV-1F

Pairing the camera with a smartphone (Smartphone Connection)

Connects the camera to your smartphone (pairing) to use the smartphone application Creators' App.
This function can be used when the camera's system software (firmware) is Ver.1.10 or later.

If you did not connect the camera with your smartphone when you turned on the camera for the first time, perform the following procedure.
The following is the procedure for connecting the camera to your smartphone when you install Creators' App on your smartphone for the first time.
☐ : Operations performed on the smartphone
🔳 : Operations performed on the camera

1. 🔳 : **On the camera, select MENU → ⊕ (Network) → [☐ Cnct./PC Remote] → [Smartphone Connection].**

2. 🔳 : **Follow the instructions on the screen and set [Bluetooth Function] to [On].**

    A screen for waiting for a connection from the app will appear.

    - If [Bluetooth Function] is already set to [On], the screen for waiting for a connection from the app will appear immediately.

3. ☐ : **Launch Creators' App on your smartphone.**

4. ☐ : **Follow the instructions on the screen to pair the camera with your smartphone.**

    - When the connection is completed, a menu to select a function for the camera appears on the smartphone.

5. ☐ : **On the smartphone screen, select the desired function.**

If you have used Creators' App with other cameras

Launch Creators' App after Step 2, open the [Cameras] screen, select the 🔳⁺ (Add Camera) button, and follow the instructions on the screen to continue the operation.

About the icons when connecting to a smartphone

⑧ (Bluetooth connection available): Bluetooth connection with the smartphone is established.
⑧ (Bluetooth connection unavailable): Bluetooth connection with the smartphone is not established.
[Wi-Fi] (Wi-Fi connection available): Wi-Fi connection with the smartphone is established.
[Wi-Fi] (Wi-Fi connection unavailable): Wi-Fi connection with the smartphone is not established.

Connecting the camera and smartphone without pairing

If you want to connect without pairing, you need to perform the Wi-Fi connection operation every time.

1. On the camera, select MENU → ⊕ (Network) → [☐ Cnct./PC Remote] → [Smartphone Connection].
2. Press the 🗑 (Delete) button on the camera to switch to the SSID and password screen.

3. Open the Wi-Fi setting screen on your smartphone.
4. On the Wi-Fi setting screen on your smartphone, select the SSID displayed on the camera and enter the password.
5. Launch Creators' App on your smartphone and open the [Cameras] screen.
6. Select the ⚙ (Setup) button in the upper right corner of the [Cameras] screen, and then select [Connect only via Wi-Fi].
7. On the screen of Creators' App on your smartphone, select the product name of the camera (ZV-1F).
   The smartphone will connect to the camera.

Note

- [Smartphone Connection] cannot be executed when [Airplane Mode] is set to [On].

- Up to 2 devices can be connected to the camera at the same time using Bluetooth communication.

- Radio wave interference may occur as Bluetooth communications and Wi-Fi (2.4 GHz) communications use the same frequency band. If your Wi-Fi connection is unstable, it may be improved by turning off the Bluetooth function of the smartphone.

Related Topic

- Functions available with a smartphone (Creators' App)
- Using a smartphone as a remote commander
- Select on Cam & Send (transferring to a smartphone)
- Cnct. while Power OFF (smartphone)
- Reading location information from a smartphone

Digital Camera
ZV-1F

Using a smartphone as a remote commander

With Creators' App, you can shoot images while checking the shooting range of the camera on the screen of the smartphone. Connect the camera and smartphone by referring to "Related Topic" at the bottom of this page. For details on functions that can be operated from a smartphone, refer to the following support page
https://www.sony.net/ca/help/opr/

Related Topic

- Pairing the camera with a smartphone (Smartphone Connection)
- Remote Shoot Setting

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Digital Camera
ZV-1F

Remote Shoot Setting

Configures settings for images saved when performing remote shooting using a smartphone or computer.

1. MENU → ⊕ (Network) → [☐ Cnct./PC Remote] → [Remote Shoot Setting] → desired setting item.

Menu item details

Still Img. Save Dest.:
Sets whether or not to save still images to both the camera and the smartphone or the computer during remote shooting. ([Destination Only]/[Dest.+Camera]/[Camera Only])

Save Image Size:
Selects the file size for images to be transferred to the smartphone or the computer when [Still Img. Save Dest.] is set to [Dest.+Camera]. The original-sized JPEG file or a 2M-equivalent JPEG file can be transferred. ([Original]/[2M])

Note

- When an unrecordable memory card is inserted into the camera, you cannot record still images even if [Still Img. Save Dest.] is set to [Camera Only] or [Dest.+Camera].

- When [Camera Only] or [Dest.+Camera] is selected for [Still Img. Save Dest.] and no memory card is inserted into the camera, the shutter will not be released even if [Release w/o Card] is set to [Enable].

- While a still image is being played back on the camera, you cannot perform remote shooting using a smartphone or a computer.

Related Topic

- [Using a smartphone as a remote commander](#)

Digital Camera
ZV-1F

Select on Cam & Send (transferring to a smartphone)

You can transfer images to a smartphone by selecting images on the camera.
Refer to "Pairing the camera with a smartphone (Smartphone Connection) " to pair the camera and smartphone in advance.

The following is the procedure for transferring the image currently displayed on the camera.

1 MENU → ⊕ (Network) → [▯ Cnct./PC Remote] → [⤴ Select on Cam & Send] → [Size of Sending Image] and [**Px** Sending Target] → desired setting.

2 Display the image to be transferred on the playback screen.

3 MENU → ⊕ (Network) → [▯ Cnct./PC Remote] → [⤴ Select on Cam & Send] → [⤴ Send] → [This Image].

● You can also display the [⤴ Send] screen by pressing the ⤴ (Send to Smartphone) button.

4 Launch Creators' App on your smartphone.

A message indicating that the transfer has started will appear.

5 Select [OK] on the smartphone.

The image will be transferred to the smartphone.

● When the image is transferred, the ⤴✔ (transferred) icon will appear on the screen of the camera.
● You can transfer multiple images at once by selecting a setting other than [This Image] under [⤴ Send].

Menu item details

⤴ Send:
Selects images and transfers them to a smartphone. ([This Image]/[All Images in This Group]/[All with this date]/[Filtered Images]/[Multiple Images])

● The options displayed may differ depending on the View Mode selected on the camera.
● If you select [Multiple Images], select the desired images using the center of the control wheel, then press MENU → [Enter].

Size of Sending Image:
Selects the file size for images to be transferred to the smartphone. The original-sized JPEG file or a 2M-equivalent JPEG file can be transferred. ([Original]/[2M])

Px Sending Target:
Sets whether to transfer the low-bit-rate proxy movie or the high-bit-rate original movie when transferring a movie to a smartphone. ([Proxy Only]/[Original Only]/[Proxy & Original])

When you select [Proxy Only], movies can be transferred faster than when transferring the original movies.

Movie with Shot Mark:
Cuts and transfers a specified number of seconds from a movie with the position of a Shot Mark set as the center. ([Cut to 60 seconds]/[Cut to 30 seconds]/[Cut to 15 seconds]/[Don't Cut])

To filter the images to be transferred (Filtered Images)

Images to be transferred can be filtered by the following conditions:

- Target Group: [This Date]/[This Media]
- Still Images/Movies: [All]/[Only Still Images]/[Only Movies]
- Target Img (Rating): [⭐]-[⭐⭐], [⭐OFF]
- Target Movie (**S**): [All]/[Only Shot Mark Mov.]
- Target Img (Protect): [All]/[Only Protected Img.]
- Transfer Status [*]: [All]/[Only Non-transfer]

    [*]   Images transferred by selecting them on the smartphone are treated as not yet transferred.
    [*]   When [Movie with Shot Mark] is set to an item other than [Don't Cut], even if you have already transferred a clip by using a Shot Mark and
          then set another Shot Mark to the movie, all of the Shot Marks will create clips which will be retransferred as not-yet transferred images.

To add a Shot Mark to a movie

If you add a Shot Mark to a movie, you can use it as a mark for selecting, transferring, or editing the movie. To add a Shot Mark, touch **S1** (Add Shot Mark 1) on the screen while recording or playing back a movie. Set [Touch Operation] to [On] in advance.

> **Hint**
>
> - Use a custom key to add a second Shot Mark (Shot Mark 2). Shot Mark 1 can also be added using a custom key. Assign the following functions to the desired keys and press the keys while shooting or playing back a movie.
>   - When adding a Shot Mark while shooting a movie: assign [Add Shot Mark1] / [Add Shot Mark2] in [▶■ Custom Key Setting]
>   - When adding a Shot Mark while playing back a movie: assign [Add/Delete Shot Mark1]/[Add/Delete Shot Mark2] in [▶ Custom Key Setting]
>
> - For movies with a Shot Mark, you can jump to the position with the Shot Mark by touching the icon for touch operation while paused.

> **Note**
>
> - For images transferred by selecting them on the smartphone, the ⮌✔ (transferred) icon will not appear.
>
> - Depending on the smartphone, the transferred movie may not be played back correctly. For example, the movie may not play smoothly, or there may be no sound.
>
> - Depending on the format of the still image, movie, slow-motion movie, or quick-motion movie, it may not be possible to play it back on a smartphone.
>
> - When [Airplane Mode] is set to [On], you cannot connect this product and the smartphone. Set [Airplane Mode] to [Off].

Related Topic

- Functions available with a smartphone (Creators' App)
- Pairing the camera with a smartphone (Smartphone Connection)
- Airplane Mode

Digital Camera
ZV-1F

Reset Transfer Status (transferring to a smartphone)

You can reset the transfer status of images that have been transferred to your smartphone. Use this function if you want to retransfer images that have previously been transferred. The transferred images will not be deleted even if you reset the transfer status.

1 MENU → (Network) → [Cnct./PC Remote] → [Reset Transfer Status].

- If you press [OK] on the confirmation screen, all images that have been transferred to your smartphone will become untransferred images.

Related Topic

- Select on Cam & Send (transferring to a smartphone)

Digital Camera
ZV-1F

Cnct. while Power OFF (smartphone)

Sets whether or not to accept Bluetooth connections from a smartphone while the camera is turned off. When [☐ Cnct. while Power OFF] is set to [On], you can browse images on the camera's memory card and transfer images from the camera to a smartphone by operating the smartphone.

1 MENU → ⊕ (Network) → [☐ Cnct./PC Remote] → [☐ Cnct. while Power OFF] → desired setting.

Menu Item Details

On :
Accepts Bluetooth connections from a smartphone while the camera is turned off.
The battery level is depleted gradually while the camera is turned off. If you do not want to use [☐ Cnct. while Power OFF], turn it off.

Off :
Does not accept Bluetooth connections from a smartphone while the camera is turned off.

How to browse/transfer images on the smartphone

Refer to "Pairing the camera with a smartphone (Smartphone Connection) " to pair the camera and smartphone in advance.

1. Set [☐ Cnct. while Power OFF] to [On].
2. Turn off the camera.
3. Launch Creators' App on the smartphone.
4. Select [View and Import] on the smartphone.

   - The images saved on the memory card of the camera can be viewed and are ready to be transferred.

> **Note**
> - If the smartphone is not operated for a certain period of time, the Bluetooth connection will become deactivated. Select [View and Import] again on the smartphone.
> - When the camera is turned on, the camera will switch to the shooting screen, and the connection with the smartphone will be terminated.
> - [☐ Cnct. while Power OFF] will be set to [Off] if you cancel pairing between the camera and the smartphone or pairing fails.
> - If the function does not work properly, check the following notes and then try pairing again.
>   - Ensure that the camera is either not connected to any other device or connected to only one device using Bluetooth communication. (Up to 2 devices can be connected to the camera at the same time.)
>   - Confirm that [Airplane Mode] for the camera is set to [Off].
>   - If the function does not work properly even after you have performed the above operations, delete the pairing information for the device that you want to connect using [Manage Paired Device] on the camera.

Related Topic
- Functions available with a smartphone (Creators' App)
- Pairing the camera with a smartphone (Smartphone Connection)

- Select on Cam & Send (transferring to a smartphone)
- Bluetooth Settings

- Select on Cam & Send (transferring to a smartphone)
- Bluetooth Settings

Digital Camera
ZV-1F

Reading location information from a smartphone

You can use the application Creators' App to obtain location information from a smartphone that is connected with your camera using Bluetooth communication. You can record the obtained location information when shooting images. Refer to "Pairing the camera with a smartphone (Smartphone Connection) " to pair the camera and smartphone in advance.

1 Launch Creators' App on your smartphone, open the [Cameras] screen, and tap [Setup] → [Location Information Linkage].

2 Activate [Location Information Linkage] on the [Location Information Linkage] setting screen of Creators' App.

- 🖈 (obtaining location information icon) will be displayed on the monitor of the camera. Location information obtained by your smartphone using GPS, etc., will be recorded when shooting images.
- When you activate [Auto Time Correction] or [Auto Area Adjustment] on a linked smartphone, the camera automatically corrects the date setting or area setting using information from the smartphone.

Icons displayed when obtaining the location information

🖈 (Obtaining location information): The camera is obtaining the location information.
🖈 (Location information cannot be obtained): The camera cannot obtain the location information.

Hint

- Location information can be linked when Creators' App is running on your smartphone even if the smartphone monitor is off. However, if the camera has been turned off for a while, location information may not be linked immediately when you turn the camera back on. In this case, location information will be linked immediately if you open the Creators' App screen on the smartphone.

- When Creators' App is not operating, such as when the smartphone is restarted, launch Creators' App to resume location information linking.

- If the location information linking function does not work properly, see the following notes and perform pairing again.
  - Confirm that the Bluetooth function of your smartphone is activated.
  - Ensure that the camera is either not connected to any other device or connected to only one device using Bluetooth communication. (Up to 2 devices can be connected to the camera at the same time.)
  - Confirm that [Airplane Mode] for the camera is set to [Off].
  - Delete the pairing information for the camera registered in Creators' App.
  - Delete the pairing information for the camera registered in the Bluetooth settings on your smartphone.
  - Delete the pairing information for your smartphone registered in [Manage Paired Device] on the camera.

Note

- When you initialize the camera, the pairing information is also deleted. Before performing pairing again, first delete the pairing information for the camera registered in the smartphone's Bluetooth settings and Creators' App.

- The location information will not be recorded when it cannot be obtained, such as when the Bluetooth connection is disconnected.

- The camera can be paired with up to 15 Bluetooth devices, but can link the location information with that of only one smartphone. If you want to link the location information with that of another smartphone, turn off the [Location Information Linkage] function under [Setup] in Creators' App on the smartphone that is already linked.

- If the Bluetooth connection is unstable, remove any obstacles, such as people or metal objects from between the camera and the paired smartphone.

- The communication distance for the Bluetooth connection or Wi-Fi may vary depending on the conditions of use.

Related Topic

- Functions available with a smartphone (Creators' App)
- Pairing the camera with a smartphone (Smartphone Connection)
- Bluetooth Settings

Digital Camera
ZV-1F

Recommended computer environment

You can confirm the operating computer environment of the software from the following URL:
https://www.sony.net/pcenv/

Digital Camera
ZV-1F

Connecting the camera to a computer

1 **Insert a sufficiently charged battery pack into the camera.**

2 **Turn on the camera and the computer.**

3 **(Setup) → [USB] → Set [USB Connection Mode] to [MassStorage(MSC)].**

4 **Connect the USB Type-C terminal on the camera to the computer with a USB cable.**

- When you connect the camera to the computer for the first time, the procedure for recognizing the camera may start automatically on the computer. Wait until the procedure is finished.
- If you connect the camera to your computer using the USB cable when [USB Power Supply] is set to [On], power is supplied from your computer. (Default setting: [On])
- Use the USB cable (supplied) or a USB-standard cable.

Note

- Do not turn on/off or restart the computer, or wake the computer from sleep mode when a USB connection has been established between the computer and the camera. Doing so may cause a malfunction. Before turning on/off or restarting the computer, or waking the computer from sleep mode, disconnect the camera from the computer.

Related Topic

- Identifying parts
- USB Connection Mode
- USB LUN Setting

Digital Camera
ZV-1F

Disconnecting the camera from the computer

Perform the following operations on the computer before disconnecting the camera from the computer.

1 **Click ⬙ (Safely Remove Hardware and Eject Media) in the taskbar.**

2 **Click the displayed message.**

The following operations are available after you have completed the steps above.

- Disconnecting the USB cable.
- Removing a memory card.
- Turning off the camera.

Note

- On Mac computers, drag and drop the memory card icon or the drive icon into the "Trash" icon. The camera will be disconnected from the computer.

- On some computers, the disconnection icon may not appear. In this case, you can skip the steps above.

- Do not remove the USB cable from the camera while the access lamp is lit. The data may be damaged.

Digital Camera
ZV-1F

Introduction to computer software (Imaging Edge Desktop/Catalyst)

Imaging Edge Desktop

Imaging Edge Desktop is a software suite that includes functions such as remote shooting from a computer and adjusting images recorded with the camera.

For details on how to use Imaging Edge Desktop, refer to the support page.
https://www.sony.net/disoft/help/

Installing Imaging Edge Desktop on your computer
Download and install the software by accessing the following URL:
https://www.sony.net/disoft/d/

Catalyst Browse (free software)/Catalyst Prepare (paid software)

Catalyst Browse is software for previewing clips. You can preview recorded XAVC S clips, view and edit media metadata, apply image stabilization[*] using metadata, apply color calibration, copy to the local hard drive, or transcode to a variety of formats and so on with Catalyst Browse.
Catalyst Prepare adds to the functions of Catalyst Browse allowing you to organize clips using bins, perform basic timeline editing with storyboards, and so on.

[*] For the conditions of use of the image stabilization function, refer to the support page.

Installing Catalyst Browse/Catalyst Prepare on your computer
Download and install the software by accessing the following URL:
https://www.sony.net/disoft/

Digital Camera
ZV-1F

Importing images to the computer

You can import images from the camera to a computer by connecting the camera to the computer with a USB cable, or by inserting the memory card of the camera into the computer.
Open the folder in which the images you want to import are stored on the computer, and then copy the images to the computer.

Example: Folder tree during USB Mass Storage connection
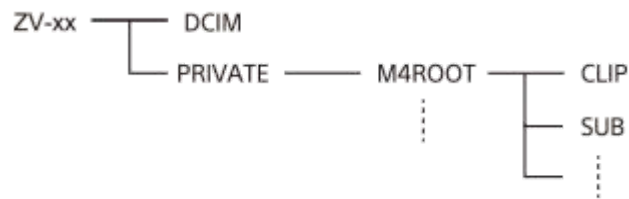
DCIM: still images
CLIP: movies
SUB: proxy movies

> **Note**
> - Do not edit or otherwise process movie files/folders from the connected computer. Movie files may be damaged or become unplayable. Do not delete movies on the memory card from the computer. Sony is not held liable for consequences resulting from such operations via the computer.
> - If you delete images or perform other operations from the connected computer, the image database file may become inconsistent. In this case, repair the image database file.
> - The folder tree is different during MTP connection.

Digital Camera
ZV-1F

Operating the camera from a computer

With a USB connection, you can control the camera from a computer, including such functions as shooting and storing images on the computer.
When the camera and a smartphone are connected, you cannot control the camera from a computer. Make sure that the camera is not connected to a smartphone beforehand.

1 **Connect the camera to the computer.**

- Connect the USB Type-C terminal on the camera to the computer with a USB cable.

2 **Launch Imaging Edge Desktop (Remote) on the computer.**

You can now operate the camera using Imaging Edge Desktop (Remote).

Hint

- In [Remote Shoot Setting] under [⬛ Cnct./PC Remote], you can set the save destination and saved file size of still images for PC remote shooting.

Related Topic

- Introduction to computer software (Imaging Edge Desktop/Catalyst)
- Remote Shoot Setting

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Digital Camera
ZV-1F

Remote Shoot Setting

Configures settings for images saved when performing remote shooting using a smartphone or computer.

1. **MENU → ⊕ (Network) → [▯ Cnct./PC Remote] → [Remote Shoot Setting] → desired setting item.**

Menu item details

Still Img. Save Dest.:
Sets whether or not to save still images to both the camera and the smartphone or the computer during remote shooting. ([Destination Only]/[Dest.+Camera]/[Camera Only])

Save Image Size:
Selects the file size for images to be transferred to the smartphone or the computer when [Still Img. Save Dest.] is set to [Dest.+Camera]. The original-sized JPEG file or a 2M-equivalent JPEG file can be transferred. ([Original]/[2M])

> **Note**
> - When an unrecordable memory card is inserted into the camera, you cannot record still images even if [Still Img. Save Dest.] is set to [Camera Only] or [Dest.+Camera].
> - When [Camera Only] or [Dest.+Camera] is selected for [Still Img. Save Dest.] and no memory card is inserted into the camera, the shutter will not be released even if [Release w/o Card] is set to [Enable].
> - While a still image is being played back on the camera, you cannot perform remote shooting using a smartphone or a computer.

Related Topic
- [Using a smartphone as a remote commander](#)

Digital Camera
ZV-1F

Livestreaming video and audio (USB Streaming)

You can connect a computer, etc. to the camera and use the camera video and audio for livestreaming or web-conferencing services. Select MENU → ⬚ (Setup) → [USB] → [USB Connection Mode] → [Sel. When Connect] or [USB Streaming] beforehand.

1 **Connect the camera to a computer or other device with a USB cable.**

[USB Streaming:Standby] will appear on the camera screen, and the camera will switch to the streaming standby state.

- If [USB Connection Mode] is set to [Sel. When Connect], select [Live Stream(USB Streaming)] on the selection screen for the USB connection mode.
- Use a cable or adapter that matches the terminal on the device to be connected.

2 **Start streaming from your livestreaming/web-conferencing service.**

[USB Streaming:Output] will appear on the camera screen.

- To exit [USB Streaming], turn off the power of the camera or disconnect the USB cable.

Hint

- If you assign [Product Showcase Set] or [Background Defocus] to [▶▣ Custom Key Setting], you can use these functions even during USB streaming.

- The format of the streaming data is as follows.
  - Video format: MJPEG
  - Resolution: HD720 (1280×720)
  - Frame rate: 30 fps / 25 fps
  - Audio format: PCM, 48 kHz, 16 bit, 2 ch

- During USB streaming, power is supplied to the camera from the computer. If you want to consume as little computer power as possible, set [USB Power Supply] to [Off].

- When using an external microphone, you can minimize deviations between your voice and the movements of your mouth by connecting the microphone to the ⬚ (microphone) terminal of the camera.

Note

- While USB streaming is in progress, the camera is always set to the movie recording mode regardless of the shooting mode before the start of streaming.

- You cannot do the following while [USB Streaming] is running.
  - Transition to the playback screen
  - Network functions (PC remote, remote operation from a smartphone, etc.)

- The following functions are disabled while [USB Streaming] is running.
  - Recording the streaming video
  - Menu-screen operations

- Capturing a custom white balance
- Picture Profile
- Power Save Start Time
- Auto Monitor OFF

- Depending on the temperature environment, Wi-Fi connection environment, and usage conditions before the start of streaming, the internal temperature of the camera may rise, and the time available for streaming may become shorter.

Related Topic

- USB Connection Mode

Digital Camera
ZV-1F

Battery life and number of recordable images

Number of images when shooting still images

[📷 Auto Monitor OFF] is set to [Does not turn OFF]	Approx. 360 images
[📷 Auto Monitor OFF] is set to [2 Sec]	Approx. 540 images

Battery life when shooting movies

Actual shooting of movies	Approx. 60 min.
Continuous shooting of movies	Approx. 90 min.

- The above estimates for battery life and number of recordable images apply when the battery pack has been fully charged. The battery life and number of images may decrease depending on the conditions of use.
- The battery life and number of recordable images are estimates based on shooting with the default settings under the following conditions:
  - Using the battery pack at an ambient temperature of 25°C (77°F).
  - Using a Sony SDXC memory card (U3) (sold separately)

- The numbers of recordable still images are based on the CIPA standard and shooting under the following conditions: (CIPA: Camera & Imaging Products Association)
  - One picture is taken every 30 seconds.
  - The power is turned on and off once every ten times.

- The number of minutes for movie shooting is based on the CIPA standard and shooting under the following conditions:
  - The image quality is set to XAVC S HD 60p 50M /50p 50M 4:2:0 8bit.
  - Actual shooting (movies): Battery life based on repeated shooting, shooting stand-by, turning on/off, etc.
  - Continuous shooting (movies): No operations other than starting and ending shooting are performed.

Digital Camera
ZV-1F

Number of recordable images

When you insert a memory card into the camera and turn the camera on, the number of images that can be recorded (should you continue to shoot using the current settings) is displayed on the screen.

> **Note**
>
> - When "0" (the number of recordable images) flashes in orange, the memory card is full. Replace the memory card with another one, or delete images from the current memory card.
>
> - When "NO CARD" flashes in orange, it means no memory card has been inserted. Insert a memory card.

The number of images that can be recorded on a memory card

The table below shows the approximate number of images that can be recorded on a memory card formatted with this camera.
The numbers shown reflect the following conditions:

- Using a Sony memory card
- [Aspect Ratio] is set to [3:2], and [JPEG Image Size] is set to [L: 20M]. *

The values may vary depending on the shooting conditions and the type of memory card used.

(Unit: images)

JPEG Quality	SD memory card	
	64GB	128GB
Standard	12 000	25 000
Fine	8 800	17 000
Extra fine	5 000	10 000

* When [Aspect Ratio] is set to other than [3:2], you can record more images than the numbers shown in the table above.

> **Note**
>
> - Even if the number of recordable images is higher than 9 999 images, "9999" will appear.

Related Topic
- Memory cards that can be used

Recordable movie times

The table below shows the approximate total recording times using a memory card formatted with this camera. The values may vary depending on the shooting conditions and the type of memory card used.

(h (hour), min (minute))

▶▮ File Format	Rec Frame Rate	Record Setting	SD memory card	
			64 GB	128 GB
XAVC S 4K	30p/25p	100M	1 h 10 min	2 h 20 min
		60M	1 h 50 min	4 h
XAVC S HD	60p/50p	50M	2 h 10 min	4 h 30 min
		25M	3 h 50 min	7 h 50 min

The recording times when [**Px** Proxy Recording] is set to [Off].

- The times shown are recordable times using a Sony memory card.
- The duration of time available for movie recording varies depending on the file format/recording settings for movies, memory card, ambient temperature, Wi-Fi network environment, condition of the camera before you start recording, and condition of the charging of the battery.
The maximum continuous recording time for a single movie shooting session is approximately 13 hours (a product specification limit).

Note

- The recordable time of movies varies because the camera is equipped with VBR (Variable Bit-Rate), which automatically adjusts image quality depending on the shooting scene. When you record a fast-moving subject, the image is clearer but the recordable time is shorter because more memory is required for recording. The recordable time also varies depending on the shooting conditions, the subject or the image quality/size settings.

Notes on continuous movie recording

- High-quality movie recording and high-speed continuous shooting require large amounts of power. Therefore, if you continue to shoot, the temperature inside the camera will rise, especially that of the image sensor. In such cases, the camera will turn off automatically because the surface of the camera is heated to a high temperature or the high temperature affects the quality of the images or the internal mechanism of the camera.
- The duration of time available for continuous movie recording when the camera records with the default settings after the power has been turned off for a while is as follows. The values indicate the continuous time from when the camera starts recording until the camera stops recording.

When [Auto Power OFF Temp.] is set to [Standard]

▶▮ File Format	XAVC S HD	XAVC S 4K
Ambient temperature: 25°C (77°F)	Approx. 30 minutes	Approx. 30 minutes

▶▮ File Format	XAVC S HD	XAVC S 4K
Ambient temperature: 40°C (104°F)	Approx. 30 minutes	Approx. 20 minutes

When [Auto Power OFF Temp.] is set to [High]

▶▮ File Format	XAVC S HD	XAVC S 4K
Ambient temperature: 25°C (77°F)	Approx. 60 minutes	Approx. 60 minutes
Ambient temperature: 40°C (104°F)	Approx. 60 minutes	Approx. 60 minutes

XAVC S HD: 60p 50M/50p 50M; when the camera is not connected via Wi-Fi; when the monitor is open
XAVC S 4K: 24p 60M/25p 60M; when the camera is not connected via Wi-Fi; when the monitor is open

- The duration of time available for movie recording varies with the temperature, file format/record setting for movies, Wi-Fi network environment, or condition of the camera before you start recording. If you frequently recompose or shoot images after the power is turned on, the temperature inside the camera will rise and the recording time available will be shorter.
- If the [▯] (Overheating warning) icon appears, the temperature of the camera has risen.
- If the camera stops movie recording due to a high temperature, leave it for some time with the power turned off. Start recording after the temperature inside the camera drops fully.
- If you observe the following points, you will be able to record movies for longer periods of time.

  - Keep the camera out of direct sunlight.
  - Turn the camera off when it is not being used.

Related Topic
- Memory cards that can be used
- Battery life and number of recordable images

Digital Camera
ZV-1F

List of icons on the monitor

The displayed contents and their positions in the illustrations are just guidelines, and may differ from the actual displays. Descriptions are given below the indications of the icons.

Icons on the shooting screen

1. **Shooting mode/Scene recognition**

   i🄰 🄰P 🄰P* 🄰A 🄰S 🄰M i▶🔲 ▶🔲P ▶🔲A ▶🔲S ▶🔲M i[S&Q] [S&Q]P [S&Q]A [S&Q]S [S&Q]M
   Shooting mode
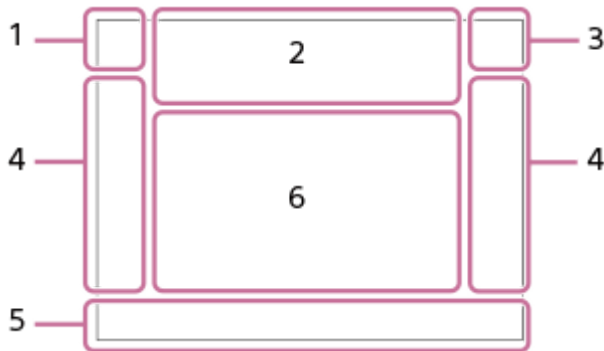
   ⬇🏃
   Scene Recognition icon (Move)

2. **Camera settings**

   ⬜ **NO CARD**
   Memory card status

   100/1h30m
   Remaining number of recordable images/Recordable time of movies

   ▮▮▮▮**3**
   Writing data / Number of images left to write

   20M / 18M / 17M / 13M / 10M / 7.5M / 6.5M / 5M / 4.2M / 3.7M
   Image size of still images

   J-X.FINE J-FINE J-STD
   JPEG Quality

   XAVC S 4K XAVC S HD
   File format of movies

   120p 100p 60p 50p 30p 25p 24p
   Frame rate of movies

   ⫼100⫼ ⫼60⫼ ⫼50⫼ ⫼25⫼ ⫼16⫼
   Record setting of movies
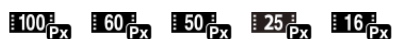
   ⫼100⫼Px ⫼60⫼Px ⫼50⫼Px ⫼25⫼Px ⫼16⫼Px
   Proxy Recording

   4:2:0 8bit
   Color sampling and bit depth of movies

   120fps 100fps 60fps 50fps 30fps 25fps 15fps 12fps 8fps 6fps 4fps 3fps 2fps 1fps
   Frame rate for slow-motion/quick-motion shooting

   《🖐》OFF 《🖐》ON 《🖐》🔲
   SteadyShot off/on, Camera shake warning

S🔍 C🔍 D🔍

Smart zoom only/Clear Image Zoom/Digital Zoom

–PC–

PC remote

Bright Monitoring

Silent mode

Remote control

Wi-Fi **Wi-Fi**

Connected to Wi-Fi/Disconnected from Wi-Fi

🎤OFF

No audio recording of movies

🎤ON

Wind Noise Reduct. on

Assist **Assist** **Assist** **Assist**
S-Log2 **S-Log3** **HLG 709** **HLG 2020**

Gamma Disp. Assist Typ.

Focus Cancel

Tracking Cancel

Spot Focus

Performing [Spot Focus]

Bluetooth connection available/Bluetooth connection unavailable

Obtaining location information / Location information cannot be obtained

Airplane Mode

Overheating warning

FULL   ERROR

Database file full / Database file error

USB
STRM
USB connection mode (USB streaming)

USB Streaming : Standby / USB Streaming : Output

USB streaming status

3. **Battery**

Remaining battery

Remaining battery warning

USB power supply

4. **Shooting settings / Touch operation icons**

ON   OFF

Icon Touch Function

ST **PT** **NT** **VV** **VV2** **FL** **IN** **SH** **BW** **SE**

Creative Look

ON   OFF

Product Showcase Set

⏱10 ⏱10s

Drive mode/Movie self-timer

![±0.0]

Exposure compensation

![circle]

Movie recording start/stop

![circle outline]

Shutter

ZOOM

Zoom

![playback icon]

Playback mode switching

![S1]

Add Shot Mark 1

5. **Focus indicator/exposure settings**

![filled circle]

Focus indicator

1/250

Shutter speed

F3.5

Aperture value

![background defocus icons]

Background Defocus

![exposure icons]

Exposure compensation/Metered Manual

ISO400

ISO AUTO

![A] **ISO 400**

ISO sensitivity

![asterisk]

AE lock

6. **Guides/other**

![filled circle] **Select Focus Point On/Off**

Guide display for setting [Focus Area]

![filled circle] **Focus Cancel**

Guide display for canceling focusing

![triangle] **Switch Av/Tv**

Guide display for switching aperture value and shutter speed

C:32:00

Self-diagnosis display

![circle outline]

Spot metering area

![histogram]

Histogram

![digital level gauge]
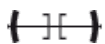
Digital level gauge

STBY REC

Movie recording standby/Movie recording in progress

1:00:12

Actual movie recording time (hours: minutes: seconds)

![CH1 CH2 audio level bars]
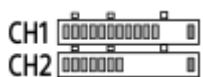
Audio Level Display

EXT 4K

4K external output

Icons on the playback screen

Single-image playback
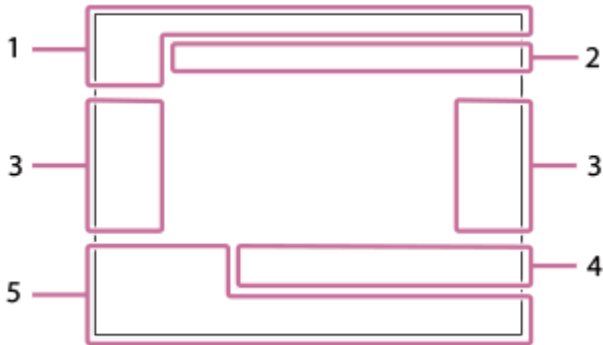
Histogram display
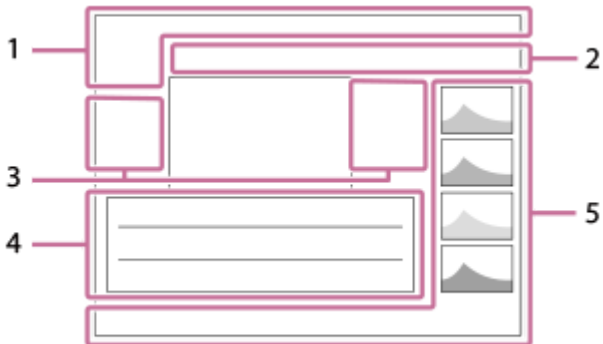
1. **Basic information**

   ★ ✦ ✦ ✦✦ ✦✦

   Rating

   O⊓

   Protect

   3/7

   File number/Number of images in the view mode

   [▯▯▯▯]

   Remaining battery

   ⊟▯

   Display as Group

   Px

   Proxy movie included

   S

   Shot mark included

   ⊅⦿

   Smartphone transfer status (when using [⊅ Select on Cam & Send])

2. **Camera settings**

   Refer to "Icons on the shooting screen."

3. **Touch operation icons**

   ⊞ON ⊞OFF

   Icon Touch Function

   ⊡⮌

   Shooting mode switching

   S1

Add/Delete Shot Mark1

◄S S►

Jump to the positions of Shot Marks

4. **Shooting settings**

3:2 4:3 16:9 1:1

Aspect ratio

HLG

HDR recording (Hybrid Log-Gamma)

Refer to "Icons on the shooting screen" for other icons displayed in this area.

5. **Image information**

✳

Latitude/longitude information

2022-1-1 10:37:00PM

Date of recording

🗀 **100-0003**

Folder number - file number

C0003

Movie file number

Histogram (Luminance/R/G/B)

Digital Camera
ZV-1F

Specifications

Camera

[System]

Camera Type
Digital Camera

[Image sensor]

Image format
13.2 mm × 8.8 mm (1.0 type), CMOS image sensor

Effective pixel number of camera
Approx. 20 100 000 pixels

Total pixel number of camera
Approx. 21 000 000 pixels

[Lens]

ZEISS Tessar T∗
f = 7.6 mm
Angle of view: 94° (35 mm format equivalent: 20 mm)
F2.0

[Auto focus system]

Detection system
Contrast detection system

[Monitor]

LCD monitor
7.5 cm (3.0 type) TFT drive, touch panel

Total number of dots
921 600 dots

[Recording format]

File format
JPEG (compliant with DCF Ver. 2.0, Exif Ver. 2.32, and MPF Baseline)

Movie (XAVC S format)
XAVC Ver2.0: MP4 format compliant

Video: MPEG-4 AVC/H.264

Audio: LPCM 2ch (48 kHz 16 bit), MPEG-4 AAC-LC 2ch[*1]

[*1] Proxy movies

[Recording media]

Memory Stick, SD cards

[Input/output terminals]

USB Type-C terminal
Hi-Speed USB (USB 2.0)

HDMI
HDMI type D micro jack

✎ (Microphone) terminal
Ø 3.5 mm Stereo mini jack

[Power, general]

Rated input
3.6 V ⎓ , 1.5 W

Operating temperature
0 °C to 40 °C (32 °F to 104 °F)

Storage temperature
–20 °C to 55 °C (–4 °F to 131 °F)

Dimensions (W/H/D) (Approx.)
105.5 × 60.0 × 46.4 mm
4 1/4 × 2 3/8 × 1 7/8 in.

Mass (Approx.)
256 g (9.1 oz) (including battery pack, SD card)

Microphone
Stereo

Speaker
Monaural

Exif Print
Compatible

PRINT Image Matching III
Compatible

[Wireless LAN]

Supported format
IEEE 802.11 b/g/n

Frequency band
2.4 GHz

Security
WEP/WPA-PSK/WPA2-PSK/WPA3-SAE

Connection method
Wi-Fi Protected Setup™ (WPS)/Manual

Access method
Infrastructure mode

[Bluetooth communications]

Bluetooth standard Ver. 4.1

Frequency band
2.4 GHz

| **Rechargeable battery pack NP-BX1**

Rated voltage
3.6 V ⎓

Design and specifications are subject to change without notice.

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Digital Camera
ZV-1F

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Digital Camera
ZV-1F

Troubleshooting

If you experience trouble with the product, try the following solutions.

1 **If a message such as "C/E:□□:□□" appears on the screen, refer to the self-diagnosis display.**

2 **Remove the battery pack, wait for about one minute, re-insert the battery pack, then turn on the power.**

3 **Initialize the settings.**

4 **Consult your dealer or local authorized service facility. Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.**
https://www.sony.net/

Related Topic

- Self-diagnosis display
- Setting Reset

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Digital Camera
ZV-1F

Self-diagnosis display

If a code starting with a letter of the alphabet appears, the self-diagnosis function on this product is working. The last two digits (indicated by □□) will differ depending on the state of this product.
If you cannot solve the problem even after trying the following corrective actions a few times, this product may need repair. Contact your Sony dealer or local authorized Sony service facility.

C:32:□□

- There is trouble with the product's hardware. Turn the power off and on again.

C:13:□□

- This product cannot read or write data on the memory card. Try turning off and on this product again, or taking out and inserting the memory card several times.
- An unformatted memory card is inserted. Format the memory card.
- The inserted memory card cannot be used with this product, or the data is damaged. Insert a new memory card.

E:61:□□

E:62:□□

E:91:□□

- A product malfunction has occurred. Initialize this product, then turn the power on again.

E:94:□□

- There is a malfunction when writing or deleting data. Repair is required. Contact your Sony dealer or local authorized Sony service facility. Be prepared to give all numbers in the error code beginning from the E.

Digital Camera
ZV-1F

Warning messages

Set Area/Date/Time.

- Set the area, date and time. If you have not used the product for a long time, charge the internal rechargeable backup battery.

Unable to use memory card. Format?

- The memory card was formatted on a computer and the file format was modified. Select [Enter] and then format the memory card. You can use the memory card again, however, all previous data in the memory card is erased. It may take some time to complete the format. If the message still appears, change the memory card.

Memory Card Error

- An incompatible memory card is inserted.
- Formatting has failed. Format the memory card again.

Unable to read memory card. Reinsert memory card.

- An incompatible memory card is inserted.
- The memory card is damaged.
- The terminal section of the memory card is dirty.

Memory card locked.

- You are using a memory card with a write-protect switch or a delete-protect switch with the switch set to the LOCK position. Set the switch to the record position.

Cannot open the shutter since the memory card is not inserted.

- No memory card has been inserted.
- To release the shutter without inserting a memory card into the camera, set [Release w/o Card] to [Enable]. In this case, images will not be saved.

This memory card may not be capable of recording and playing normally.

- An incompatible memory card is inserted.

Unable to display.

- Images recorded with other products or images modified with a computer may not be displayed.
- Processing on the computer such as deletion of the image files may cause inconsistencies in the image database files. Repair the image database files.

Internal temp. high. Allow it to cool.

- The product has become hot because you have been shooting continuously. Turn the power off and cool the product and wait until the product is ready to shoot again.

[⟮⟯] (Overheating warning)

- You have been recording images for a long time, the product temperature has risen.

(Database file error)

- The number of images exceeds that for which date management in a database file by the product is possible.

(Database file error)

- Unable to register to the database file. Import all the images to a computer and recover the memory card.

Image DataBase File error

- There is something wrong in the Image Database File. Select MENU → ⬚ / ▶■ (Shooting) → [Media] → [🗃 Recover Image DB].

System Error
Camera Error. Turn power off then on.

- Remove the battery pack, and then re-insert it. If the message appears frequently, consult local authorized Sony service facility.

Image Database File error. Recover?

- You cannot record and play back a movie because the Image Database File is damaged. Recover the Image Database File following the on-screen instructions.

Unable to magnify.
Unable to rotate image.

- Images recorded with other products may not be enlarged or rotated.

Cannot create more folders.

- A folder in the memory card has the first three digits "999." You cannot create any more folders on this camera.

Related Topic

- Notes on memory card
- Format
- Release w/o Card
- Recover Image DB (still image/movie)