

## Custom Grid Line Function

This “Help Guide” is for those who have applied for an additional service license for a Sony digital camera. How to register grid lines that you have created by yourself according to your intended use to the camera is explained here. The registered grid lines can be used for shooting or playing back images.

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## Custom Grid Line Function

### Activating the custom grid line function

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To activate the custom grid line function, you need to load the license file saved on a memory card to the camera.

For details on operations, refer to the following “Help Guide.”

<https://helpguide.sony.net/di/activate/v1/en/index.html>

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## Custom Grid Line Function

## Using “Custom Gridline Generator”

You can use “Custom Gridline Generator” to create a PNG file suitable for custom grid lines.

In advance, download “Custom Gridline Generator” from the URL below and install it on your computer.

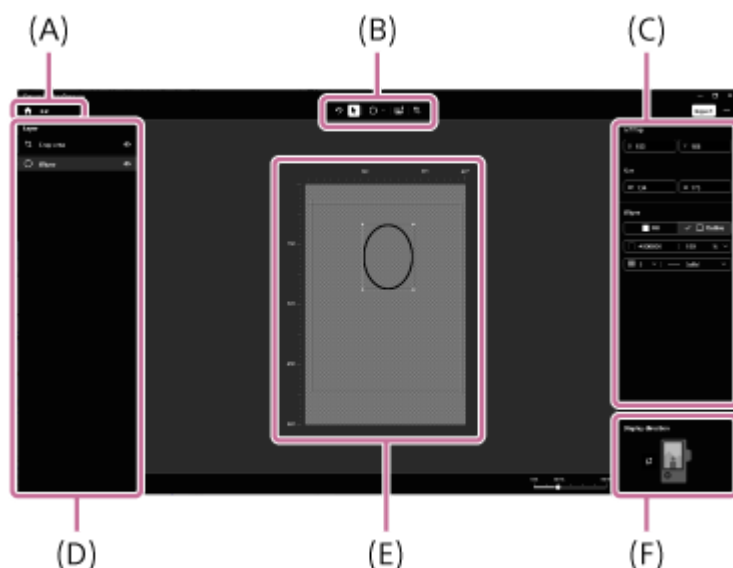
<https://support.d-imaging.sony.co.jp/app/cgenerator/>

- “Custom Gridline Generator” is for Windows® only.

## 1 Launch “Custom Gridline Generator.”

## 2 On the home screen, select the aspect ratio and orientation you want to use for shooting, and then click [Create New Gridline].

A canvas with a resolution appropriate for the custom grid lines will be generated based on the aspect ratio and orientation, and the drawing screen will be displayed.








### (A) Home button

Discards any edits being made and returns to the home screen. The current aspect ratio is displayed to the right of the button.

### (B) Toolbar

You can select and use various tools.

-  (Select): Select a placed object by clicking it on the canvas. Press the [Delete] key to delete the selected object.
-  (Shapes): Select the type of shape you want to draw.
-  (Image import): Import and insert images. You can also set the imported image as the background.
-  (Crop line): Position the cropping area.
-  (Undo): Undo the last action.

### (C) Editing panel

- Displays information such as the coordinates and size of the selected object. You can fine-tune the selected object by entering values for each field.

- You can change the color and line type of the selected shape. Select a color from the color palette or specify the color code. Transparency can be set in 10% increments from 10% to 100%.
- For curved shapes, the coordinates reflect the position of the path without the line weight. For other shapes, the coordinates reflect the position of the outer perimeter including the line weight.

#### (D) Layer panel

Displays the layer structure of placed objects. You can make object layers visible or invisible, or right-click on an object to copy/delete it.

- The order of the layers cannot be changed.
- A newly placed object is added to a new layer above the existing layers.
- The cropping area is always placed on the topmost layer.
- Objects on layers set as hidden will not be included in the created PNG file.

#### (E) Canvas

You can use various tools to arrange, move, resize, delete, etc. objects.

You can use the following shortcut keys:

- Dragging while holding down the [Shift] key: Drawing a horizontal/vertical line
- Selecting an object and pressing [Ctrl] + [E]: Centering the object
- Selecting an object and pressing [Delete]: Deleting the object
- Selecting an object and pressing the up/down/left/right keys: Adjusting the object's position

#### (F) Display direction

Sets the orientation of the grid lines relative to the camera. This can only be set when creating vertical grid lines.

### 3 Optionally, select (Image import) from the toolbar to set a background image.

To set an image as the background, select the imported image and switch [Set as a tracking guide] on in the editing panel.

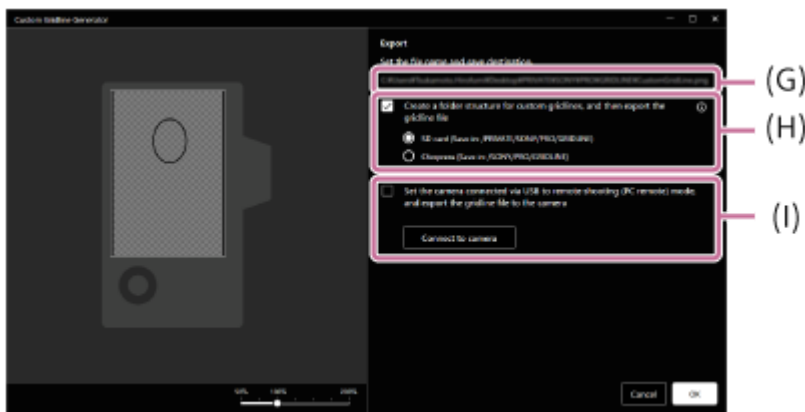
- An image set as the background will be moved to the bottom layer and will not be output to the generated grid line file.

### 4 Draw grid lines on the drawing screen.

### 5 Optionally, select (Crop line) from the toolbar and drag it onto the canvas to set the cropping area.

- When you set a cropping area, information about the cropping area is written to the meta information of the PNG file.
- The outer perimeter of the cropping area is reflected in the coordinates.
- By activating "In-camera Photo Cropping Upgrade License" on your camera, you can save both the original image and a cropped image at the same time when shooting. For more information about the "In-camera Photo Cropping Upgrade License," refer to the "Help Guide" below.  
[https://helpguide.sony.net/di/volumephoto/v1/h\\_zz/index.html](https://helpguide.sony.net/di/volumephoto/v1/h_zz/index.html)

### 6 Click [Export] to open the output panel and set the save destination and file name.



### (G) Save destination input field

Click to manually enter a destination and file name.

### (H) Automatic folder settings

The folder structure can be automatically set to suit the conditions for importing to the camera.

Check [Set the camera connected via USB to remote shooting (PC remote) mode, and export the gridline file to the camera] and select the type of memory card to use for saving.

### (I) Connected camera settings

You can save a PNG file directly to a memory card inserted into the connected camera.

Set [USB Connection Mode] to [PC Remote] or [Remote Shooting] on the camera, connect the camera and computer via USB, and click [Connect to camera]. While the computer is connected to the camera, a check mark is automatically added to [Set the camera connected via USB to remote shooting (PC remote) mode, and export the gridline file to the camera]. The check mark is removed when the connection is lost.

- If no memory card is inserted into the camera, an error will occur.

## 7 Click [OK].

A PNG file will be created in the specified save destination.

## To link “Custom Gridline Generator” with your camera

By linking “Custom Gridline Generator” with your camera, you can save a PNG file directly to a memory card inserted into the connected camera.

Some camera models may not support this function. For details, refer to the “Custom Grid Line License” website.

1. On the camera, set [USB Connection Mode] to [PC Remote] or [Remote Shooting].
2. Connect the camera and the computer via USB.
3. In the output panel of “Custom Gridline Generator,” click [Connect to camera].

### Note

- The maximum number of objects that can be placed on the drawing screen is 50.
- Grid lines created in the portrait orientation will appear as landscape images but will be displayed correctly as grid lines when the camera is held vertically. If you want to import and use the grid lines as a portrait image, rotate them in other application beforehand.
- If you shoot images while the camera is connected to a computer, the images may be saved on the computer instead of the camera.
- Camera connection with “Custom Gridline Generator” may fail if the camera has been used by another application or software.
- If the resolution of your computer monitor is too low, “Custom Gridline Generator” may not fit on the screen. It is recommended that you use a monitor that supports a resolution of 1920 × 1080 pixels or higher and set the display magnification to 100% or

less.

- If the cropping function is running on your camera, you may not be able to import PNG files.
- The file names for grid lines have the following restrictions:
  - You can use alphanumeric characters (single-byte code) and the following symbols.  
# \$ % & ' ( ) + , - . : ; = @ [ ] ^ \_ ` { } space
  - For the first character of the file name, "." (period) is not available.
  - The extension should be ".PNG". Either uppercase or lowercase letters are acceptable.
  - The number of characters should be 63 or less, including the extension ".PNG".
- When you initialize the camera, the registered custom grid lines are also deleted.

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## Custom Grid Line Function

## Requirements for creating a PNG file for grid lines

Create images to be used as grid lines by yourself using a computer, etc. The images need to be saved according to the following requirements.

You can also use “Custom Gridline Generator” to easily create grid lines that suit the requirements. For details, refer to [“Using “Custom Gridline Generator”.”](#)

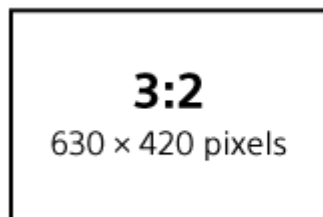
## File specifications

- File format: PNG
- File size: 256 KB or less
- Resolution: 640 × 480 pixels or less
- File system: exFAT
- Line color mode: RGBA

## Recommended file resolutions

It is recommended that you create a PNG file with a resolution that matches the composition you wish to shoot. The aspect ratio of height and width should be matched to the shooting settings.

- When shooting a still image with a typical aspect ratio of 3:2, the PNG file resolution should be 630 × 420 pixels.
- When shooting a movie with an aspect ratio of 16:9, the PNG file resolution should be 640 × 360 pixels.



## Hint

- It is recommended that the line weight be 5 pixels or more.
- If the aspect ratios of the PNG file and the camera screen are different, the grid lines will be displayed in the center of the camera screen while maintaining the aspect ratio of the PNG file.

## File name

- You can use the following characters.
  - Alphanumeric characters (single-byte code)
  - “ ” (space), “#”, “\$”, “%”, “&”, “'”, “(”, “)”, “+”, “,”, “-”, “.”, “:”, “=”, “@”, “[”, “]”, “^”, “\_”, “`”, “{”, “}”
- For the first character of the file name, “.” (period) is not available.
- The extension should be “.PNG”. Either uppercase or lowercase letters are acceptable.
- The number of characters should be 63 or less, including the extension “.PNG”.

## File location

PNG files will be imported to the camera from the memory card. Create a folder on the memory card as described below and save the PNG file in the folder.

- For SD cards:  
/PRIVATE/SONY/PRO/GRIDLINE
- For CFexpress cards:  
/SONY/PRO/GRIDLINE

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## Custom Grid Line Function

## Registering grid lines to the camera

The image to be used as the grid lines needs to be registered to the camera in advance. Only files in the PNG format can be registered. You can register up to 4 grid lines.

“Custom Gridline Generator” allows you to register grid lines directly to the camera by connecting the camera to a computer when you create grid lines. For details, refer to “[Using “Custom Gridline Generator”.](#)”

This section explains how to register an image saved on a memory card as grid lines from MENU on the camera.

- 1 **MENU → [Shooting] → [Shooting Display] → [Grid Line Type].**
- 2 **Select the desired item from  (Custom 1) to  (Custom 4) and press the right side of the control wheel.**
- 3 **Select [Import].**
  - If your camera has multiple memory card slots, a slot selection screen will appear. Select the slot containing the PNG file.
- 4 **Select the desired PNG file using the top/bottom sides of the control wheel.**
  - A preview of the PNG file over which you have the cursor will be displayed on the right side of the screen.
  - If the file name contains invalid characters, the file name is too long, or the file extension is not “.PNG”, the file will not be displayed. Make sure the file name and the file format are appropriate.
- 5 **Select [OK].**

## To replace registered grid lines

Select the item to replace in Step 2 and perform the operations from Step 3 to 5 to overwrite it with another PNG file.

### Hint



- The registered grid lines will be copied to the camera. After registration, you can use the grid lines even if you remove the memory card from the camera or delete the PNG file from the memory card.
- When you initialize the camera, the registered custom grid lines are also deleted.
- Once grid lines are registered to the camera, the display direction of the grid lines when the camera is held vertically cannot be changed on the camera. Adjust the display direction before registering the grid lines.
  - If you tilt the camera 90 degrees to the right, the left side of the PNG file will be the top when shooting.
  - If you tilt the camera 90 degrees to the left, the right side of the PNG file will be the top when shooting.

“Custom Gridline Generator” allows you to check and adjust the display direction and the camera orientation as you create grid lines.

## Deleting registered grid lines

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Deletes the registered grid line and returns the item to an unregistered state.

- 1** MENU → [Shooting] → [Shooting Display] → [Grid Line Type].
- 2** Select the item of the grid line that you want to delete from  (Custom 1) to  (Custom 4) and press the right side of the control wheel.
- 3** Select [Delete], and then select [Enter] after a confirmation message appears.

The registered grid line will be deleted, and the selected item will return to an unregistered state.

- The PNG file saved on the memory card will not be deleted even if you delete the registered grid line.

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## Custom Grid Line Function

## Displaying grid lines on the playback screen

Sets whether to display the grid line on the playback screen.

- 1 **MENU** → **[Playback]** → **[Playback Option]** → **[Grid Line Display]** → **desired setting**.

### Menu Item Details

**On:**

Displays the grid line.

**Off:**

Does not display the grid line.

**Note**

- While you enlarge the image being played back, the grid line will not be displayed.

**Hint**

- The type of grid line to be displayed on the playback screen is the same as the type for the shooting screen. You can change the type of grid line by selecting **MENU** → **[Shooting]** → **[Shooting Display]** → **[Grid Line Type]**.
- If you assign **[Grid Line Display Select]** to the desired key using **[Custom Key Setting]** (Playback), you can switch the grid line display on or off by pressing the assigned key.
- If you register **[Grid Line Display Select]** to the function menu using **[Fn Menu Settings]** (Playback), you can switch the grid line display on or off from the Fn (Function) button.

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## Custom Grid Line Function

## Switching the grid line display on or off using a custom key (Playback)

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Assigns [Grid Line Display Select] to the desired key so that you can quickly switch the grid line display on or off by pressing the assigned key while playing back images.

- 1 MENU → [Setup] → [Operation Customize] → [Custom Key Setting] (Playback).**
- 2 Select the desired key using the top/bottom sides of the control wheel and press the center.**
- 3 Select [Grid Line Display Select] using the top/bottom/left/right sides of the control wheel, and then press the center.**

During playback, you can switch the grid line display on or off by pressing the key to which [Grid Line Display Select] has been assigned.

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## Custom Grid Line Function

**Switching the grid line display on or off from the function menu (Playback)**

Registers [Grid Line Display Select] to the function menu so that you can quickly switch the grid line display on or off from the function menu while playing back images.

This function may not be supported depending on the camera model.

- 1 MENU → [Setup] → [Operation Customize] → [Fn Menu Settings] (Playback).**
- 2 Select the desired item from among the 12 function menu items using the top/bottom/left/right sides of the control wheel and press the center.**
- 3 Move to the screen showing [Grid Line Display Select] using the top/bottom/left/right sides of the control wheel. Then, select [Grid Line Display Select] and press the center.**

During playback, [Grid Line Display Select] is displayed in the desired position in the function menu when you press the Fn (function) button.

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