

Digital Signature Function

This “Help Guide” is for those who have applied for an upgrade license for a Sony digital camera. How to use the digital signature function is explained here.

This function supports still images in the RAW or JPEG format and MP4 movies.

[Enabling the digital signature function](#)

[Performing easy setup of the digital signature function](#)

[Importing a certificate for C2PA compatibility](#)

[Obtaining the server date and time](#)

[Writing a digital signature on images](#)

[Checking the certificate for C2PA](#)

[Disabling the digital signature function](#)

Digital Signature Function

Enabling the digital signature function

You can add [Digital Signature] to MENU and enable the digital signature function by following the steps below. When the digital signature function is enabled, the file size of images increases compared to normal shooting.

- 1 Save the license file (RQ_LIC.DAT) obtained from Creators' Cloud to the root directory (the top level of the hierarchy) of the memory card.**

We recommend that you also save the certificate file for C2PA to the root directory of the memory card. For details, refer to "[Importing a certificate for C2PA compatibility](#)."

- 2 Insert the memory card containing the license file into the memory card slot of the camera, and then turn on the camera.**

If the camera has two memory card slots, insert the memory card into slot 1.
An installation confirmation screen will be displayed.

- 3 Select [OK].**

- 4 When the loading complete message appears, select [OK].**

The license file will be loaded, and the camera will restart to enable the digital signature function. A wizard will be displayed on the camera, facilitating setup from the initial settings for the digital signature to importing the certificate for C2PA. Easy setup may not be available on some models. For details, refer to "[Performing easy setup of the digital signature function](#)."

In addition, the [Digital Signature] item will be added under MENU → [Setup] → [Setup Option], allowing you to set up digital signatures individually.

To check license information

MENU → [Setup] → [Setup Option] → [Manage Licenses] → [License List]. A list of activated licenses and the number of days they are valid will be displayed.

Hint

- Up to two identical licenses can be installed to the camera, and if two one-year licenses are installed, the camera will be licensed for a maximum of two years.
- Separate licenses are required for still images and movies. A single license file may contain licenses for both still images and movies.
- Even after installing a license, the message [Load the license file in the media card?] may still be displayed every time you start up the camera. In this case, make sure the license installation has been completed correctly, and then delete the license file saved on the memory card.

Note

- Do not remove the battery pack or turn the power off while the camera restarts in step 4.
- If you try to activate a license, the warning [This license file cannot be installed.] may be displayed. This may be because you have purchased and installed multiple licenses for devices other than the one concerned, and the camera tried to load a license for a device other than the one concerned, causing an error. There should be no problem with operation.
To prevent the warning from appearing, move the license file containing licenses for devices other than the one concerned to

another recording medium. If you have purchased multiple licenses and would like to install them on devices other than the one concerned, install the licenses separately.

- **Once you delete a license, you will not be able to reinstall the same license file.**
- The license is not deleted when [Camera Settings Reset] or [Initialize] under MENU → [Setup] → [Reset/Save Settings] → [Setting Reset] is performed. To delete the license, refer to “[Disabling the digital signature function.](#)”
- When transferring the camera, delete the license, key pair, and certificate for C2PA. For details, refer to “[Disabling the digital signature function.](#)”
- For the ILME-FX30, ILME-FX3, or ILME-FX3A, the camera cannot load a license file that contains a license package including more than 100 licenses. When downloading a license file from Creators' Cloud, please make sure the number of licenses in the downloaded file is 100 or less.

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Digital Signature Function

Performing easy setup of the digital signature function

When you enable the digital signature function, a wizard is displayed on the camera, enabling you to easily complete setup from the initial settings for the digital signature to importing the certificate for C2PA.

Easy setup may not be available on some models. If the wizard does not appear, refer to “[Importing a certificate for C2PA compatibility](#),” “[Obtaining the server date and time](#),” and “[Writing a digital signature on images](#)” and perform setup in that order.

Initial settings for the digital signature

- [Create Key Pair]
- [Server Date-time Acquisition]
- [ Write Digital Signature]
- [ Write Digital Signature]/[ Write Digital Signature] *
- [Auto Update Server Datetime]

* The icons may differ depending on the model you are using.

For details on each setting item, refer to “[Writing a digital signature on images](#)” and “[Obtaining the server date and time](#).”

Importing the certificate for C2PA

If a certificate file for C2PA is saved on the memory card, the certificate for C2PA will be imported next. For details, refer to “[Importing a certificate for C2PA compatibility](#).”

Note

- If you try to perform the easy setup and see the message [Failed to install all licenses.] or [Failed to install some license files. Reboot to install the successfully installed licenses.], the following may be the causes of the license activation failure.
 - The maximum number of installable licenses has been reached.
You can only activate two of the same licenses.
 - The license was previously installed.

You can check information on the licenses installed to your camera or delete licenses from MENU → [Setup] → [Setup Option] → [Manage Licenses].

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Digital Signature Function

Importing a certificate for C2PA compatibility

By enabling the digital signature function and following the steps below, a digital signature that complies with the C2PA standard can be written when shooting images. Even if you edit the image using an editing application that supports the C2PA standard after shooting, the provenance from shooting to editing will be written to the image, and you can check the authenticity of the image.*

* To guarantee the validity of a C2PA signature, use a certificate for C2PA that conforms to the trust list.

1 Save the certificate file for C2PA (sigcert.p12 or sigcert.pfx) obtained from Creators' Cloud, etc. to the root directory (the top level of the hierarchy) of the memory card.

You must name the file "sigcert.p12" or "sigcert.pfx" yourself.

2 Insert the memory card to which the certificate file for C2PA is saved into the memory card slot of the camera.

If the camera has two memory card slots, insert the memory card into slot 1.

3 MENU → [Setup] → [Setup Option] → [Digital Signature] → [Import Certificate for C2PA] → [OK].

4 Enter the password of the certificate for C2PA and select [OK].

Enter the password obtained when the certificate was issued.

5 When a message indicating that importing is complete appears, select [OK].

Hint

- If you import another certificate for C2PA to a camera that has already imported a certificate for C2PA, it will be overwritten with the newly imported certificate for C2PA.

Note

- You can write a digital signature compliant with the C2PA standard on still images shot in the [RAW], [JPEG], or [RAW & JPEG] format and on MP4 movies. You cannot write a digital signature on still images shot in the [HEIF] or [RAW & HEIF] format.

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Digital Signature Function

Obtaining the server date and time

Once the server date and time information is obtained from the time server, the date and time information will be embedded in the recorded image along with the digital signature. You can prove that the shooting date and time of the image are correct.

1 Connect the camera to the network.

For details on how to connect the camera to the network (Access Point connection), see the "Help Guide" for the camera.

2 MENU → [Setup] → [Setup Option] → [Digital Signature] → [Update/Disp. Server Time] → desired setting.

If the date and time (user date and time) on the camera have not been set or diverge significantly from the correct date and time, an error display will appear. Set the correct date and time (user date and time) from MENU → [Setup] → [Area/Date] → [Area/Date/Time Setting].

Menu item details

Auto Update:

Sets whether to automatically obtain the server date and time when the camera is turned on. (On/Off)

Manual Update:





Obtains the server date and time manually.

Display Date-time:

Displays server date and time information. (Time Zone/Server Date-time/Latest Update)

[Latest Update] is the date and time when the server date and time were obtained.

Hint

- If [ Write Digital Signature], [ Write Digital Signature], or [ Write Digital Signature] is set to [On], and the server date and time have not been obtained for a month or more,  (time server warning icon) will be displayed on the shooting screen. To hide the warning icon, obtain the server date and time again.
- The date and time will be displayed according to the settings in MENU → [Setup] → [Area/Date] → [Area/Date/Time Setting] → [Date Format].

Note

- When the camera's internal rechargeable backup battery runs out, the date and time information is erased. Charge the internal rechargeable backup battery, set the date and time (user date and time) on the camera, and then obtain the server date and time. To charge the internal rechargeable backup battery, insert a charged battery pack into the camera, and leave the product for 24 hours or more with the power turned off.

Digital Signature Function

Writing a digital signature on images

If you set the [Write Digital Signature] function to [On], you can write a digital signature on images. This information can be used to verify the authenticity of the images.

Before using the digital signature writing function, do the following in advance.

- Create a key pair to be used for the digital signature using MENU → [Setup] → [Setup Option] → [Digital Signature] → [Key Settings] → [Create Key Pair].
- Refer to “ [Obtaining the server date and time](#) ” and set the date and time.

1 MENU → [Setup] → [Setup Option] → [Digital Signature] → desired setting.

Menu item details

Write Digital Signature:

Sets whether to write a digital signature on still images. (On/Off)

Write Digital Signature/ Write Digital Signature* :

Sets whether to write a digital signature on movies. (On/Off)

* The icons may differ depending on the model you are using.










Key Settings:

Configures settings related to the keys used for digital signatures. (Create Key Pair/Delete Key Pair)

Delete Signature Func.:

Deletes the license and related data for the digital signature function.








Hint

- When [ Write Digital Signature] is set to [On], **Sig** (Digital Signature icon) and  (Content Credentials icon) appear on the still image shooting screen. When [ Write Digital Signature] or [ Write Digital Signature] is set to [On], the icons appear on the movie shooting screen. If only **Sig** (Digital Signature icon) is displayed, you cannot write a digital signature that complies with the C2PA standard on images. Import a certificate for C2PA compatibility and confirm that  (Content Credentials icon) is displayed. Furthermore, for images shot in this state, **Sig** (Digital Signature icon) and  (Content Credentials icon) will appear on the playback screen. When executing the digital signature writing function, confirm that the icons are displayed. Similar icons are displayed in applications and services such as Creators' App and Creators' Cloud Web. Sig (Digital Signature) and C2PA (Content Credentials) are displayed on the shooting information panel () of Imaging Edge Desktop. Some display specifications may differ between when editing RAW and when editing JPEG.
- If  (warning icon) is displayed to the right of  (Content Credentials icon), the certificate for C2PA may have expired. The certificate may be considered expired because the date and time in the camera are not set correctly. Set the correct date and time (user date and time) from MENU → [Setup] → [Area/Date] → [Area/Date/Time Setting]. If the correct date and time are already set, update the certificate for C2PA.
- If the digital signature function for either still images or movies is enabled, and a digital signature is written to a movie, you can also write a digital signature to still images extracted from that movie using [Photo Capture].

Note

- We cannot guarantee the verification results when images taken with Sony cameras are verified using other companies' services.
- You cannot write a digital signature on images in the following situations:
 - [Movie Rec During Streaming] is set to [Enable].
- You cannot write a digital signature on the following images:
 - Slow-motion/quick-motion movies or time-lapse movies
 - 8K movies
 - Movies recorded in the MP4 format with a bit rate exceeding 222 Mbps

– Externally output video

- When [ Write Digital Signature], [ Write Digital Signature], or [ Write Digital Signature] is set to [On], [Write Serial Number] is locked to [On].
- The key pair is not deleted when [Camera Settings Reset] or [Initialize] under MENU → [Setup] → [Reset/Save Settings] → [Setting Reset] is performed.
- When shooting with [ Write Digital Signature], [ Write Digital Signature], or [ Write Digital Signature] set to [On], it takes longer to complete writing to the media than when shooting normally.
- When you delete and recreate a key pair, if there are images that were signed using the previous key pair and you edit those images on the camera, the digital signature information will not be maintained.
- When the digital signature function is enabled, [ Soft Skin Effect] is not available.

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Checking the certificate for C2PA

You can check the expiration date and issue destination information of the certificate for C2PA imported to the camera.

- 1 MENU → [Setup] → [Setup Option] → [Digital Signature] → [Certificate Info. for C2PA].

Menu item details

Expiration:

The expiration date of the certificate for C2PA is displayed according to the setting for MENU → [Setup] → [Area/Date] → [Area/Date/Time Setting] → [Area Setting].

Issued To:

Displays the issue destination (subject) information of the certificate for C2PA.

Note

- The certificate for C2PA is not deleted when [Camera Settings Reset] or [Initialize] under MENU → [Setup] → [Reset/Save Settings] → [Setting Reset] is performed. To delete the certificate for C2PA, refer to "[Disabling the digital signature function.](#)"
- When you import a new certificate for C2PA after deleting the certificate for C2PA, if there are images shot with the previous certificate for C2PA and you edit those images on the camera, the C2PA information will not be maintained.

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Digital Signature Function

Disabling the digital signature function

To disable the digital signature function, such as when transferring the camera, follow the procedure below to delete data. When you perform [Delete Signature Func.], the license, key pair, and certificate for C2PA are deleted.


① MENU → [Setup] → [Setup Option] → [Digital Signature] → [Delete Signature Func.].

Disabling the digital signature function individually

You can also delete the data for the digital signature function individually.

Deleting the license


Once you delete a license, you will not be able to reinstall the same license file.

Select the license you want to delete from MENU → [Setup] → [Setup Option] → [Manage Licenses] → [License List], and press the  (Delete) button.

Deleting the key pair

MENU → [Setup] → [Setup Option] → [Digital Signature] → [Key Settings] → [Delete Key Pair].

Deleting the certificate for C2PA

Select MENU → [Setup] → [Setup Option] → [Digital Signature] → [Certificate Info. for C2PA], and then press the  (Delete) button.

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