This guide explains how to transfer images to an FTP server.

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What you can do using [FTP Transfer Func.]

You can communicate with an FTP server by connecting the camera to a network via a commercially available LAN cable (wired LAN) or wireless LAN. You can then transfer images to the FTP server by operating the camera.

**Note**

- The wireless access point or wireless router that relays the LAN connection is referred to as the “access point” in this manual.

- Basic knowledge of FTP servers is required to use the FTP transfer function.

- The explanations in this manual are based on the assumption that your network or FTP server environment is ready to use. For information on how to prepare the network environment, check with the manufacturer of each device.

- For details on the camera’s operations, see the “Help Guide” for the camera.

- If your camera is lost or stolen, Sony bears no responsibility for the loss or damage caused by illegal access or use of the registered access point on the camera.

- Always make sure that you are using a secure wireless LAN to avoid hacking, access by malicious third parties, or other vulnerabilities.

- It is important that you set the security settings when using a wireless LAN. If a security problem arises because no security precautions are in place or due to any inevitable circumstances when using a wireless LAN, Sony bears no responsibility for the loss or damage.
Setting up a wired LAN

Configure the settings to connect the camera to the network using a wired LAN.

1. **MENU → (Network) → [Wired LAN Setting] → desired setting.**

**Menu item details**

**IP Address Setting:**
Select [Auto] or [Manual].

**IP Address:**
If you have set [IP Address Setting] to [Manual], enter the fixed address.

**Subnet Mask /Default Gateway/Primary DNS Server/Secondary DNS Server:**
If you have set [IP Address Setting] to [Manual], enter each address according to your network environment.

(A) **Camera**
- For the location of the LAN terminal, see the “Help Guide” for the camera.

(B) **LAN cable (sold separately)**
- Use a Category 5e or higher Shielded Twisted Pair (STP) cable with high shielding performance.

(C) **Router (sold separately)**

**Hint**
- For details on how to input using the software keyboard, see the “Help Guide” for the camera.
Setting up a wireless LAN: WPS Push

If your access point has a Wi-Fi Protected Setup™ (WPS) button, you can register the access point to the camera easily.

1. **MENU → (Network) → [Wi-Fi Settings] → [WPS Push].**

2. **Push the Wi-Fi Protected Setup (WPS) button on the access point to connect.**

**Note**

- [WPS Push] works only if the security setting of your access point is set to WPA or WPA2 and your access point supports the Wi-Fi Protected Setup (WPS) button method. If the security setting is set to WEP or your access point does not support the Wi-Fi Protected Setup (WPS) button method, perform [Access Point Set.].

- For details about the available functions and settings of your access point, see the access point operating instructions or contact the administrator of the access point.

- A connection may not be possible or the communication distance may be shorter depending on the surrounding conditions, such as the type of wall material and the presence of obstructions or radio waves between the camera and access point. In this case, change the location of the camera or move the camera closer to the access point.
Setting up a wireless LAN: Access Point Set.

You can register your access point manually. Before starting the procedure, check the SSID name of the access point, security system, and password. The password may be preset in some devices. For details, see the access point operating instructions, or consult the access point administrator.

1. **MENU → (Network) → [Wi-Fi Settings] → [Access Point Set].**

2. **Select the access point you want to register.**

   When the desired access point is displayed on the screen: Select the desired access point.
   When the desired access point is not displayed on the screen: Select [Manual Setting] and set the access point.
   - If you select [Manual Setting], input the SSID name of the access point, then select the security system.

3. **Input the password, and select [OK].**

   - Access points without the `🔒` mark do not require a password.
Other setting items

Depending on the status or the setting method of your access point, you may want to set more items.

**WPS PIN:**
Displays the PIN code you enter into the connected device.

**Priority Connection:**
Select [On] or [Off].

**IP Address Setting:**
Select [Auto] or [Manual].

**IP Address:**
If you have set [IP Address Setting] to [Manual], enter the fixed address.

**Subnet Mask/Default Gateway/Primary DNS Server/Second DNS Server:**
If you have set [IP Address Setting] to [Manual], enter each address according to your network environment.

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**Hint**
- For details on how to input using the software keyboard, see the “Help Guide” for the camera.

**Note**
- To give the registered access point priority in the future, set [Priority Connection] to [On].
Registering an FTP server

You can register FTP servers for FTP transfers to the camera. Up to three FTP servers can be registered. As an example, the method for registering [FTP Server 1] is described here.

1. **MENU → (Network) → [FTP Transfer Func.] → [FTP Server 1].**
   - The setting screen for FTP Server 1 will appear.

2. **Select each setting item and then input the setting value for FTP Server 1.**
   - Input each item using the software keyboard and then select [OK].

### Menu item details

**Display Name:**
Input a name for the FTP server to be registered.

**Destination Settings:**
Configure the following items for the FTP server:
- Host Name: The host name or IP address of the server
- Secure Protocol: Set whether or not to execute secure FTP transfers
- Port: The port number of the FTP server
- Directory: The destination folder name

**User Info Settings:**
Input a user name and password to log on to the FTP server.

### Hint
For details on how to input using the software keyboard, see the “Help Guide” for the camera.

### Note
- It is recommended that you set [Secure Protocol] to [On]. When it is set to [Off], communications between the camera and the FTP server may be intercepted. Also, user names, passwords, and file data may be leaked if the camera connects to an unintended FTP server.
- The camera is not compatible with active mode FTP transfers.
Selecting an FTP server

You can select a destination FTP server from among the registered FTP servers.

1. **MENU → Network → [FTP Transfer Func.] → [Select FTP Server].**

2. **Select the desired FTP server.**
Updating the root certificate on the camera

When executing FTP transfers with [Secure Protocol] set to [On], a root certificate is needed to verify the server. The root certificate is saved to the camera and can be updated. To update the root certificate, save the certificate to a memory card and import it to the camera.

1. **Save a root certificate to a memory card.**
   - Save the certificate to the root directory of the memory card in the PEM format, and name it "cacert.pem."

2. **Insert the memory card to which the root certificate has been saved into the camera’s memory card slot.**
   - If the camera has two memory card slots, insert the memory card into Slot 1.

3. **MENU → 🌐 (Network) → [Imp Root Certificate] → [OK].**
   - The root certificate saved to the memory card is read by the camera, and then the root certificate on the camera is updated.

**Note**

- Do not remove the memory card from the camera during read operations.
- When the network settings are reset, the root certificate on the camera is reset as well.
Transferring images to an FTP server

You can transfer images to the selected FTP server. Configure the settings for the FTP server setting and the wired/wireless LAN in advance.

1. **MENU →  (Playback) → [Select PB Media] → desired slot.**

2. **Set the camera to playback mode.**

3. **MENU →  (Network) → [FTP Transfer Func.] → [FTP Transfer] → Select the network connection method.**
   - The connection will start when you select the network connection method.
   - Once a connection to the FTP server has been established, the image selection screen will appear.

4. **Select the images to transfer and then select MENU → [Enter].**
   - You can select up to 100 images.
   - The image transfer will start when you select [Enter].
   - To cancel the transfer, select [Cancel].

5. **To continue transferring other images, select [OK] on the completion screen.**
   The camera will go back to Step 4.

**Hint**
- If connecting via a wired LAN, see the “Help Guide” for the camera for the location of the terminal.
- If connecting via a wireless LAN, make sure that you are near the registered access point.

**Note**
- You can only transfer still images recorded by the camera using FTP.
- Do not remove the memory card from the camera during transfer operations.
- You can only use a wired LAN connection when [Airplane Mode] is set to [On].
Checking the FTP transfer results

You can check the results of the last FTP transfer.

1. **MENU → (Network) → [FTP Transfer Func.] → [Display FTP Result].**

   The FTP transfer results will be displayed.

**Items displayed**

**Transfer Date/Time:**
   The date and time when the transfer was started

**Number of Transfer Images:**
   The amount of transferred content / The total amount of content

**Transfer Result:**
   Complete/Not Complete/Cancel
Reset Network Set.

Resets all the network settings to default settings.

1 MENU → (Network) → [Reset Network Set.] → [OK].
Troubleshooting

**The image transfer fails.**
The following causes are possible. For details, consult the FTP server's administrator.

- You are using an active mode FTP server.
- The FTP server's capacity is full.
- You do not have write authority for the FTP server.
- The FTP server is shut down.

**The message “Could not verify the certificate. Continue connection?” appears.**
The FTP server’s reliability cannot be verified. If you select [OK], the camera will start connecting.