

SONY

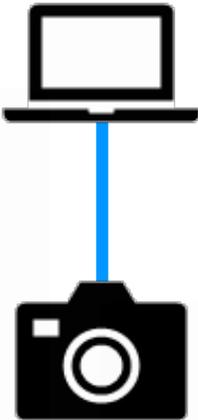
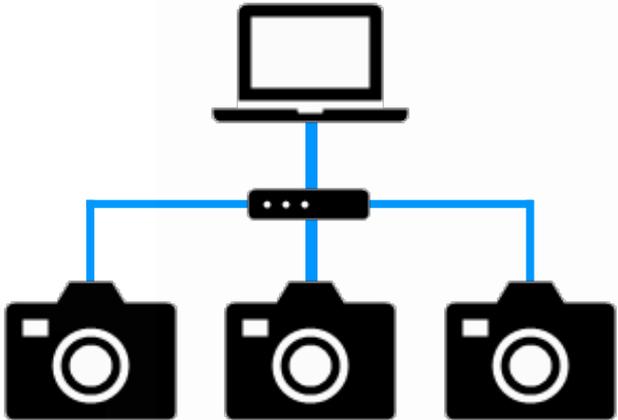
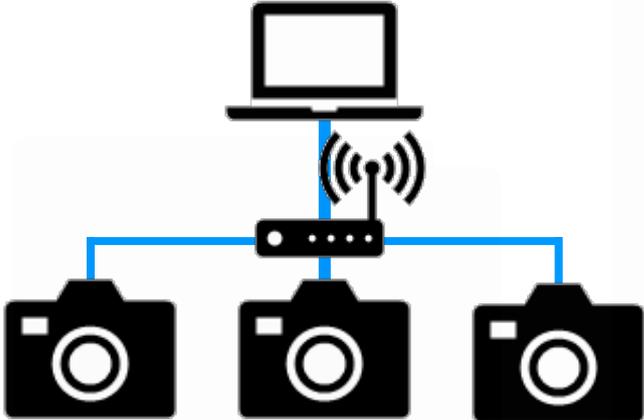
**Remote
Camera
Tool**

Remote Camera Tool Setup Guide

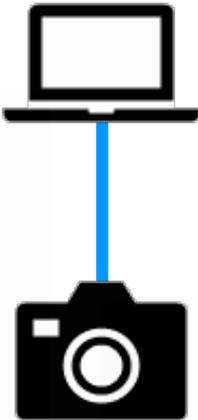
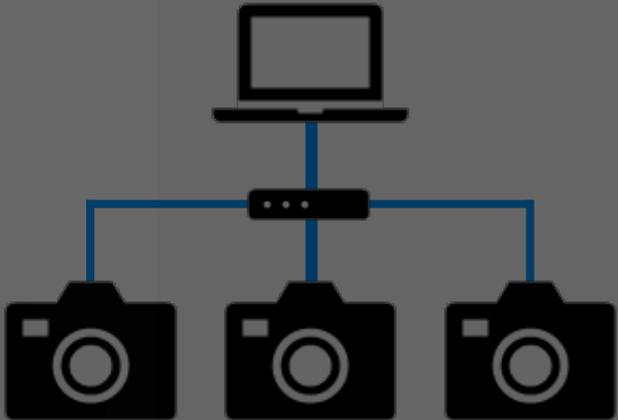
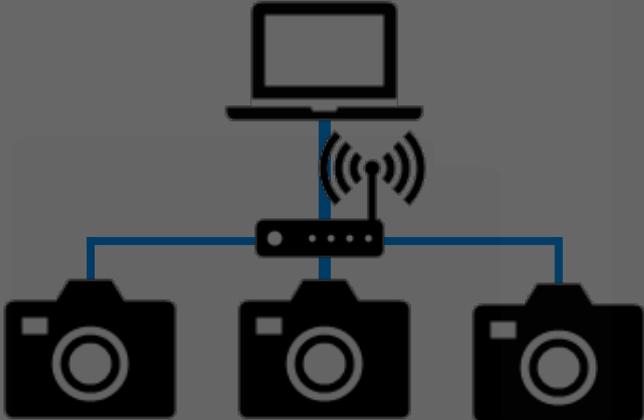
Table of Contents

- ★ [List of Network Environment Topologies](#)
 1. [Camera ↔ PC Direct Connection](#)
 2. [Multiple Cameras ↔ Network Hub ↔ PC Connection](#)
 3. [Multiple Cameras ↔ Network Router ↔ PC Connection](#)
 4. [FTP Settings](#)
 5. [Settings to Use a Fixed IP Address](#)

List of Network Environment Topologies

	#1 Camera ↔ PC Direct Connection	#2 Multiple Cameras ↔ Network Hub ↔ PC Connection	#3 Multiple Cameras ↔ Network Router ↔ PC Connection
Schematic diagram			
Image save destination	PC	PC/FTP Server	PC/FTP Server
IP address	Static / Auto	Static / Auto	Static / DHCP
Transfer method	Wired LAN	Wired LAN	Wired LAN
Transfer while shooting	Yes	Yes	Yes
Transfer file format	RAW/JPEG	RAW/JPEG	RAW/JPEG

Step by Step Guide #1: Camera ↔ PC Direct Connection

	#1 Camera ↔ PC Direct Connection	#2 Multiple Cameras ↔ Network Hub ↔ PC Connection	#3 Multiple Cameras ↔ Network Router ↔ PC Connection
Schematic diagram			
Image save destination	PC	PC/FTP Server	PC/FTP Server
IP address	Static / Auto	Static / Auto	Static / DHCP
Transfer method	Wired LAN	Wired LAN	Wired LAN
Transfer while shooting	Yes	Yes	Yes
Transfer file format	RAW/JPEG	RAW/JPEG	RAW/JPEG

Step by Step Guide #1: Camera ↔ PC Direct Connection

Step by Step Guide Overview

□ [Preparation 1: Things to prepare](#)

- Camera that supports Remote Camera Tool
- Ethernet cable
- PC on which Remote Camera Tool has been installed

□ [Preparation 2: PC settings](#)

- Disconnect all other network connections, including Wi-Fi.
- Close all security/cloud synchronization software programs that are running on the PC.

□ [Preparation 3: IP address settings for the camera](#)

- From the camera's [MENU] button, go to [Network] → [Wired LAN] → [IP Address Setting].
- If [IP Address Setting] is accessible, set it to [Auto].

↓ If [IP Address Setting] is grayed-out, do the following:

- Select [IP Address Setting] and see which menu item is "On" and interrupting.
- Turn off the menu item that is [On].
- Turn on [PC Remote (Wired LAN)].

□ [Preparation 4: Enable PC Remote \(Wired LAN\) for the camera](#)

- From the [MENU] button, go to [Network] → [Transfer/Remote] → [PC Remote Function] → [PC Remote], set it to [On].
- Select [PC Remote Cnct Method] and set it to [Wired LAN].

↓ If [PC Remote] is grayed out, do the following:

- Select [PC Remote] and see which menu item is "On" and interrupting.
- Turn off the menu item that is [On].
- Turn on [PC Remote].

Step by Step Guide #1: Camera ↔ PC Direct Connection

Step by Step Guide Overview

[Step 1: Connect the camera to PC with Ethernet cable](#)

* It takes about 30 seconds to 1 minute for the camera to recognize the network.

- Open the live view and ensure that the text of the **LAN** icon is white.

↓ If the **LAN** icon on the live view remains gray for more than 30 seconds, check the following:

- Did you disconnect the PC from all other networks, including Wi-Fi?
- Did you close all security/cloud synchronization software programs that were running on the PC?
- Is the Ethernet ↔ USB adapter connected properly?
- Is the Ethernet cable connected properly?
- Does the Ethernet terminal of the camera work properly?

[Step 2: Start Remote Camera Tool](#)

- Check that Device Selection window appears.

↓ If Device Selection window does not appear, check the following:

- Has the OS been updated to its latest version?

Step by Step Guide #1: Camera ↔ PC Direct Connection

Step by Step Guide Overview

[Step 3: Press the \[Refresh\] button on Device Selection window](#)

- Check that information about the camera appears in the camera list.

↓ If information about the camera does not appear by pressing the [Refresh] button, check the following:

- Did you disconnect the PC from all other networks, including Wi-Fi?
- Did you close all security/cloud synchronization software programs that were running on the PC?
- Is the Ethernet ↔ USB adapter connected properly?
- Is the Ethernet cable connected properly?
- Does the Ethernet terminal of the camera work properly?
- Go to the camera's [MENU] → [Network] → [Wired LAN] → [Display Wired LAN Info.]. Is the IP address displayed?
- Enter the camera's IP address in the IP address field of Device Selection window and press [IP Connect].
 - Check that information about the camera appears in the camera list.

[Step 4: Double-click the \[Camera Name\] field of the camera you want to access](#)

- A window to control the camera appears with a live view and model information.

Preparation 1: Things to prepare

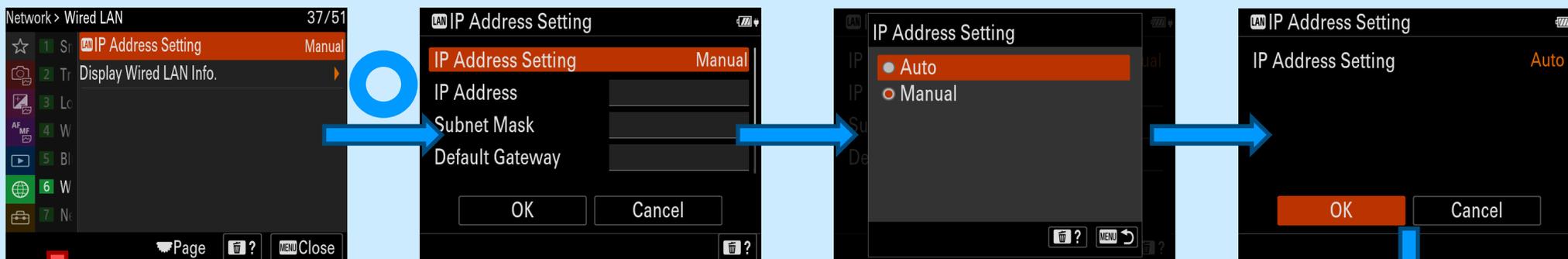
- Camera that supports Remote Camera Tool
- Ethernet cable
 - If your PC is not equipped with an Ethernet port, you need to use a USB-to-Ethernet adapter (available at stores).
- PC on which Remote Camera Tool has been installed

Preparation 2: PC settings

1. If the PC is connected to other networks, including Wi-Fi, disconnect them in advance.
2. If any security/cloud synchronization software programs are running on the PC, close them in advance.

Preparation 3: IP address settings for the camera

From the camera's [MENU] button, go to [Network]→[Wired LAN]→[IP Address Setting].
If [IP Address Setting] is accessible, set it to [Auto].



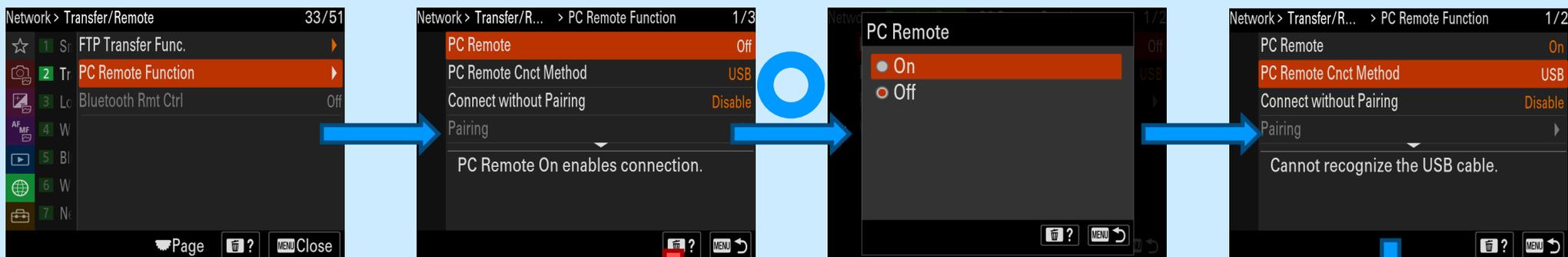
[IP Address Setting] is grayed-out:



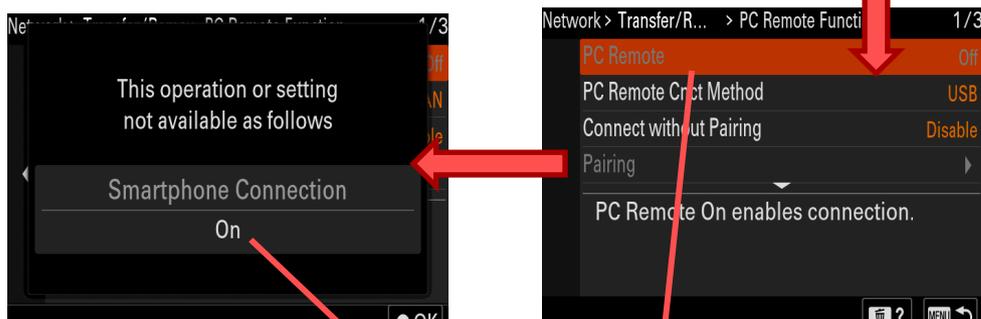
Select [IP Address Setting] to see which menu item is "On" and interrupting.

Preparation 4: Enable PC Remote (Wired LAN) for the camera

From the [MENU] button, go to [Network]→[Transfer/Remote] →[PC Remote Function]→[PC Remote], set it to [On]. Select [PC Remote Cnct Method] and set it to [Wired LAN].



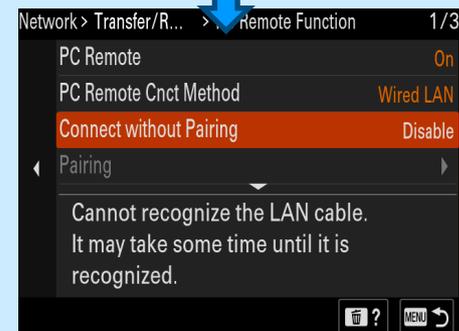
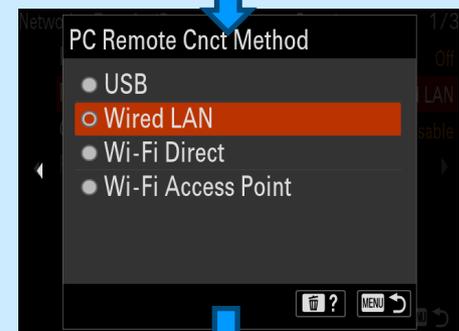
The [PC Remote] setting is grayed out.



Select the [PC Remote] setting to see which menu item is "On" and interrupting.

When [PC Remote] is [On], the **LAN** icon appears on the live view.

The **LAN** icon is gray at this point because the Ethernet cable has not been connected/recognized yet.



Step 1: Connect the camera to PC with Ethernet cable.

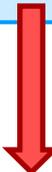


Connect the cable to the Ethernet port of the camera and to the Ethernet port of the PC.



Open the live view. If the **LAN** icon is white, the network has been recognized by the camera. ◦

* It takes about 30 seconds for the camera to recognize the network.

  If the **LAN** icon on the live view remains gray for more than 30 seconds,

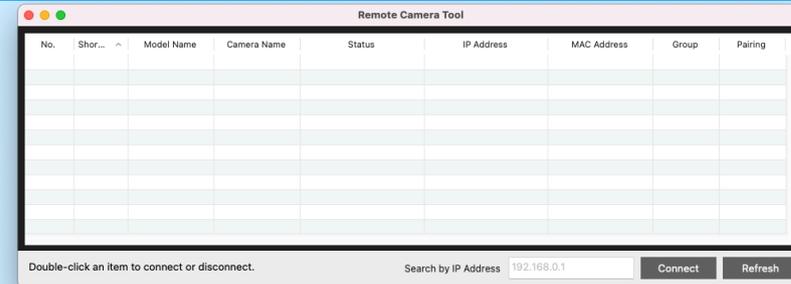
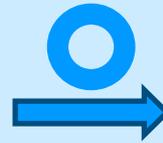
check the following:

- Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
 - Is the Ethernet ↔ USB adapter connected properly?
 - Is the Ethernet cable connected properly?
- Does the Ethernet terminal of the camera work properly?
 - Does the ping command run successfully?
 - Does the color of the LAN icon change once it is connected to a router?

Step 2: Start Remote Camera Tool



Start the installed [Remote Camera Tool].



Device Selection window appears on the desktop.



Device selection window does not appear.

Check the following:

- Has the OS been updated to its latest version?

Step 3: Press the [Refresh] button on Device Selection window

Press [Refresh] on Device Selection window.

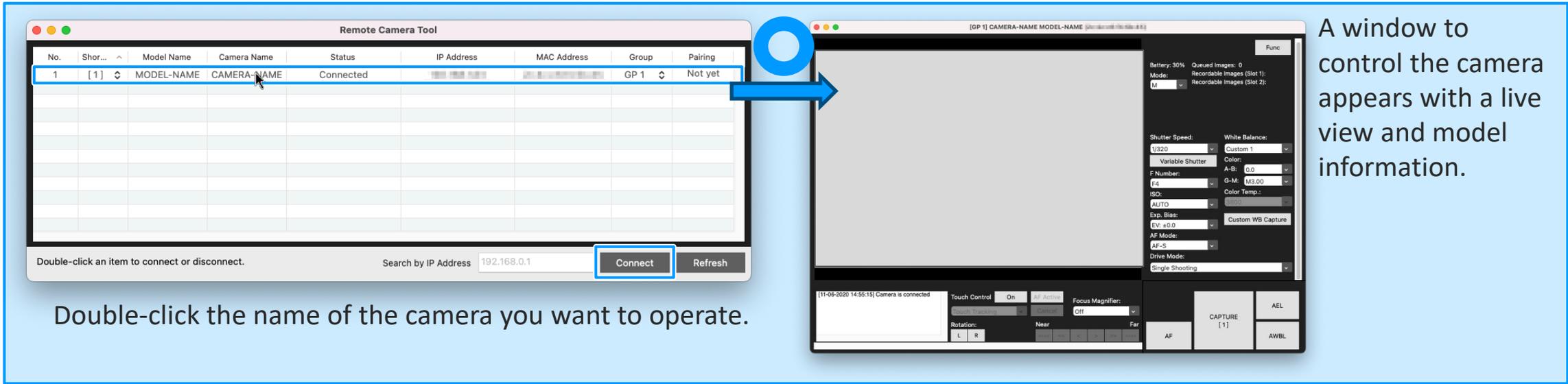
Information about the connected camera is reflected in the list.

Information about the camera is not reflected in the list.

Check the following:

- Did you disconnect the PC from all other networks, including Wi-Fi?
- Did you close all security/cloud synchronization software programs that were running on the PC?
- Is the Ethernet↔USB adapter connected properly?
- Is the Ethernet cable connected properly?
- Does the Ethernet terminal of the camera work properly?
- Go to the camera's [MENU]→[Network]→[Wired LAN]→[Display Wired LAN Info.]. Is the IP address displayed?
- Enter the camera's IP address in the IP address field of Device Selection window and press [IP Connect].
- Check that information about the camera appears in the camera list.

Step 4: Double-click the [Camera Name] of the camera you want to access.

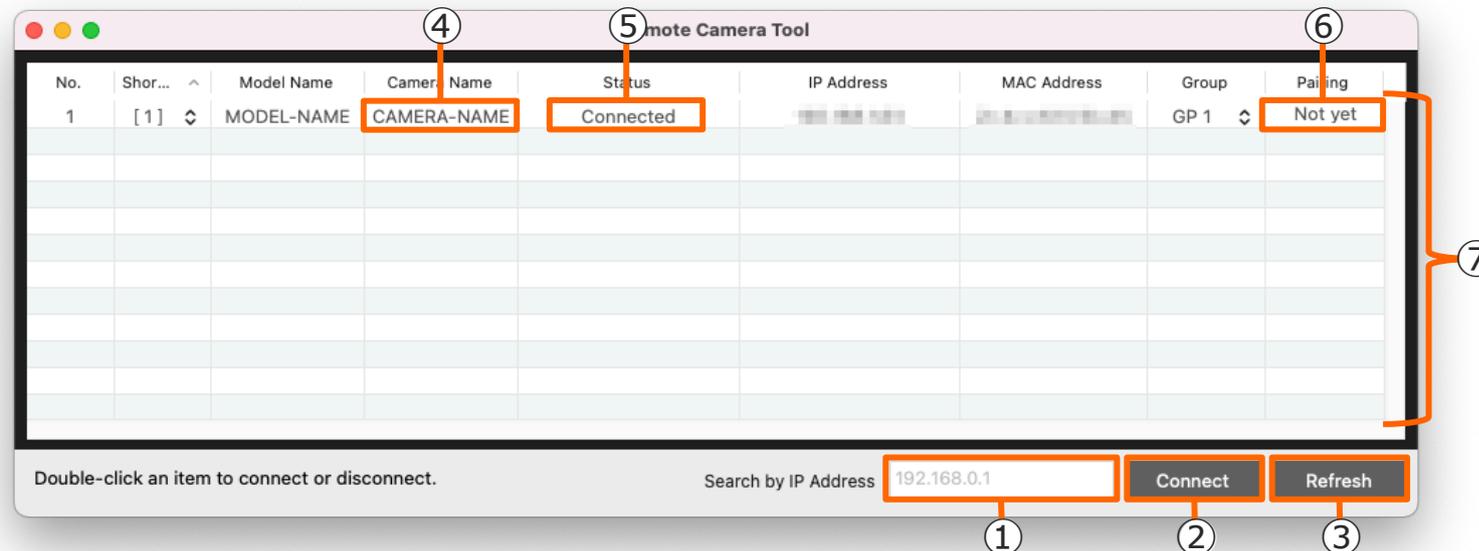


The image shows two screenshots from the Remote Camera Tool application. The left screenshot displays a table with columns for No., Shor..., Model Name, Camera Name, Status, IP Address, MAC Address, Group, and Pairing. The first row is highlighted, and a blue circle with an arrow points to the 'Camera Name' column. Below the table, there is a search bar for IP Address (192.168.0.1) and buttons for 'Connect' and 'Refresh'. The right screenshot shows a detailed camera control window with various settings like Shutter Speed, White Balance, F Number, ISO, and AF Mode. A blue circle with an arrow points to the 'Camera Name' column in the left screenshot, indicating the action to be taken.

Double-click the name of the camera you want to operate.

A window to control the camera appears with a live view and model information.

Pair your camera with your PC



- ① IP address field
- ② [Connect] button:
If your camera does not appear in the list, enter its IP address in (1) and click (2) [Connect].
- ③ [Refresh] button
- ④ To change the device name, edit [Camera Name] in this screen. The new name is reflected only in Remote Camera Tool. [Change Device Name] on your camera remains unchanged.
- ⑤ Shows the current status of your camera. Connected: Your camera is connected. Disconnected: Your camera is disconnected.

- ⑥ Pairing
Done: Your camera is successfully paired. Double-click it to connect the camera to your PC.
Not yet: Your camera is not paired. Double-click it to move to the pairing window (see "How to pair your camera with your PC" that appears later).
- (hyphen): Pairing is not needed. Double-click it to connect the camera to your PC.
- ⑦ Shows the list of connected cameras

Note: To disconnect your camera(s):
To disconnect a specific camera, select and double-click the camera in the "device selection screen".
To disconnect all the cameras, close the "camera operation screen".

Pair your camera with your PC

How to pair your camera with your PC

For Remote Camera Tool Ver. 2.0 or later, for security reasons, you need to pair your camera with your PC before using the tool. Pairing needs to be performed only the first time your camera is connected.

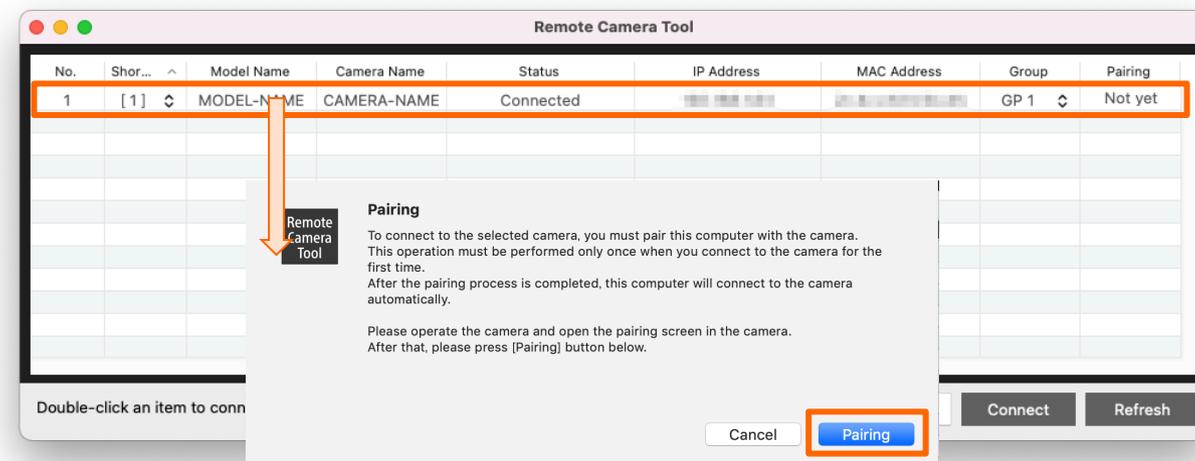
1.  Double-click a device that is in the "Not Yet" status. The screen on the right appears.
2.  Press the [MENU] button and select [Network] - [Remote Camera Tool] - [Pairing] to display the pairing standby screen.
3.  Select [Pairing].
4.  Select [OK] in the camera's pairing screen.
5.  Turn off the camera.

When the camera goes off, pairing information is saved on the camera. Please wait for at least 10 seconds before turning on the camera again.

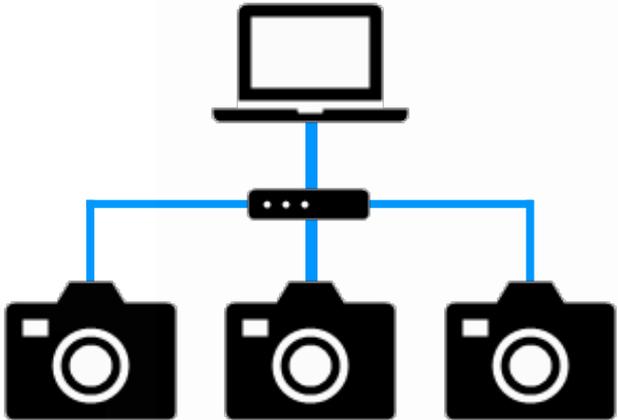
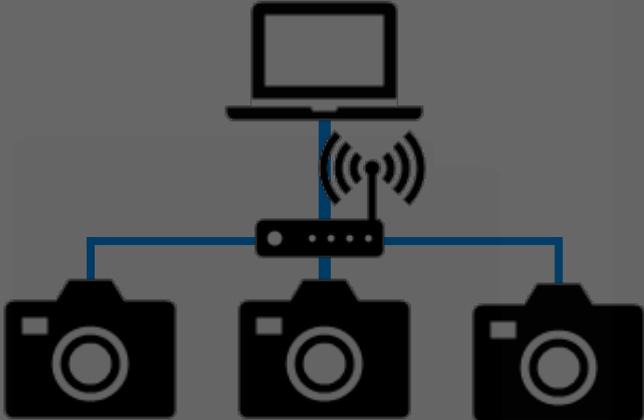
How to display the camera operation screen

To display the camera operation screen, double-click the camera you want to operate. You can perform various operations from this screen.

Do not operate the camera directly (e.g., pressing its buttons) while you are operating it from the camera operation screen.



Step by Step Guide #2: Multiple Cameras ↔ Network Hub ↔ PC Connection

	#1 Camera ↔ PC Direct Connection	#2 Multiple Cameras ↔ Network Hub ↔ PC Connection	#3 Multiple Cameras ↔ Network Router ↔ PC Connection
Schematic diagram			
Image save destination	PC	PC/FTP Server	PC/FTP Server
IP address	Static / Auto	Static / Auto	Static / DHCP
Transfer method	Wired LAN	Wired LAN	Wired LAN
Transfer while shooting	Yes	Yes	Yes
Transfer file format	RAW/JPEG	RAW/JPEG	RAW/JPEG

Step by Step Guide #2: Multiple Cameras ↔ Network Hub ↔ PC Connection

Step by Step Guide Overview

□ [Preparation 1: Things to prepare](#)

- Camera that supports Remote Camera Tool
- Ethernet cable
- PC on which Remote Camera Tool has been installed
- Network hub

□ [Preparation 2: PC settings](#)

- Disconnect all other network connections, including Wi-Fi.
- Close all security/cloud synchronization software programs that are running on the PC.

□ [Preparation 3: IP address settings for the camera](#)

- From the camera's [MENU] button, go to [Network] → [Wired LAN] → [IP Address Setting].
- If [IP Address Setting] is accessible, set it to [Auto].

↓ If [IP Address Setting] is grayed-out, do the following:

- Select [IP Address Setting] and see which menu item is "On" and interrupting.
- Turn off the menu item that is [On].
- Turn on [PC Remote (Wired LAN)].

□ [Preparation 4: Enable PC Remote \(Wired LAN\) for the camera](#)

- From the [MENU] button, go to [Network] → [Transfer/Remote] → [PC Remote Function] → [PC Remote], set it to [On].
- Select [PC Remote Cnct Method] and set it to [Wired LAN].

↓ If [PC Remote] is grayed out, do the following:

- Select [PC Remote] and see which menu item is "On" and interrupting.
- Turn off the menu item that is [On].
- Turn on [PC Remote].

Step by Step Guide #2: Multiple Cameras ↔ Network Hub ↔ PC Connection

Step by Step Guide Overview

[Step 1: Connect the cameras, PC, and network hub with the Ethernet cables](#)

* It takes about 30 seconds to 1 minute for the camera to recognize the network.

- Open the live view and ensure that the text of the **LAN** icon is white.

↓ If the **LAN** icon on the live view remains gray for more than 30 seconds, check the following:

- Check the PC settings.
 - Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
- Check the state of each Ethernet cable.
 - Is the Ethernet cable connected properly?
 - Is the Ethernet ↔ USB adapter connected properly?
 - Does the access lamp go on/flash when the PC and network hub are connected directly?

[Step 2: Start Remote Camera Tool](#)

- Check that Device Selection window appears.

↓ If Device Selection window does not appear, check the following:

- Has the OS been updated to its latest version?

Step by Step Guide #2: Multiple Cameras ↔ Network Hub ↔ PC Connection

Step by Step Guide Overview

[Step 3: Press the \[Refresh\] button on Device Selection window](#)

- Check that information about the camera appears in the camera list.

↓ If information about the camera does not appear by pressing the [Refresh] button, check the following:

- Check the PC settings.
 - Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
- Check the state of each Ethernet cable.
 - Is the Ethernet cable connected properly?
 - Is the Ethernet ↔ USB adapter connected properly?
 - Does the access lamp go on/flash when the PC and network hub are connected directly?
- Check the status of the Ethernet terminal of each camera.
 - Does the color of the LAN icon change once the camera is connected to the router directly?
 - Does the color of the LAN icon change 30 seconds after the camera and PC are connected directly?

- Check the settings of the camera.

- Go to the camera's [MENU] → [Network] → [Wired LAN] → [Display Wired LAN Info.].

Is the IP address displayed?

- Enter the camera's IP address in the IP address field of Device Selection window and press [IP Connect].

- Check that information about the camera appears in the camera list.

[Step 4: Double-click the \[Camera Name\] field of the camera you want to access](#)

- A window to control the camera appears with a live view and model information.

Preparation 1: Things to prepare

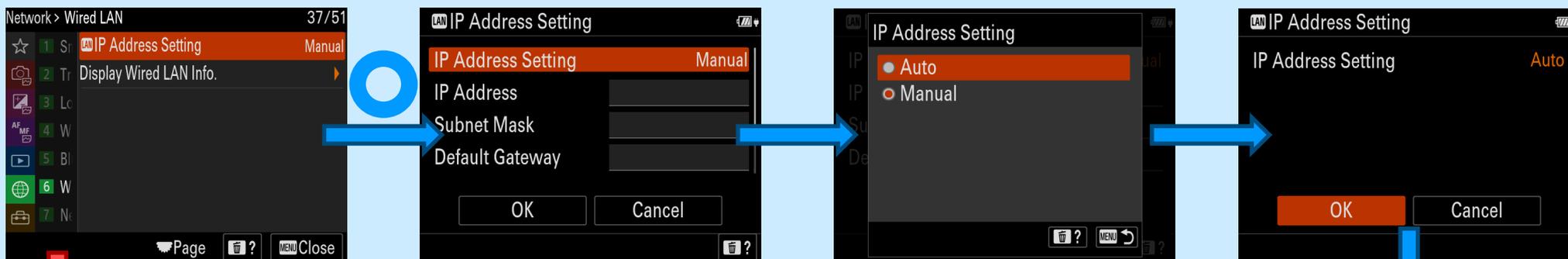
- Camera that supports Remote Camera Tool
- Ethernet cable
 - If your PC is not equipped with an Ethernet port, you need to use a USB-to-Ethernet adapter (available at stores).
- PC on which Remote Camera Tool has been installed
- Network hub

Preparation 2: PC settings

1. If the PC is connected to other networks, including Wi-Fi, disconnect them in advance.
2. If any security/cloud synchronization software programs are running on the PC, close them in advance.

Preparation 3: IP address settings for the camera

From the camera's [MENU] button, go to [Network]→[Wired LAN]→[IP Address Setting].
If [IP Address Setting] is accessible, set it to [Auto].



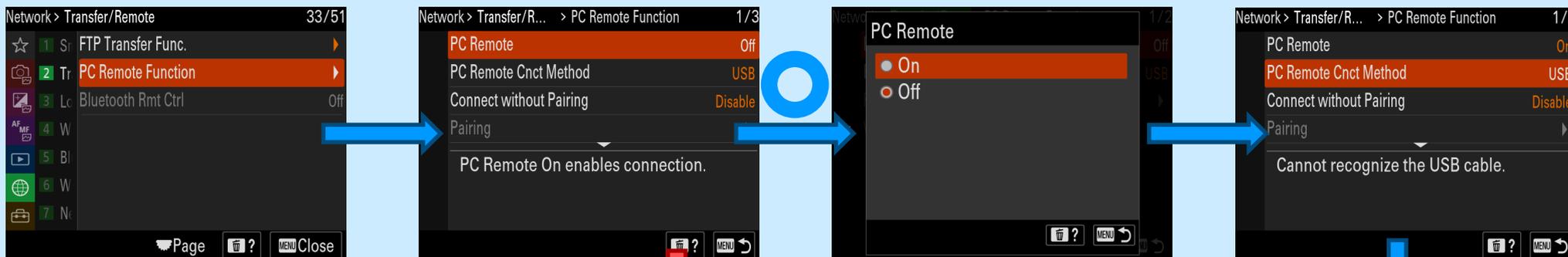
[IP Address Setting] is grayed-out:



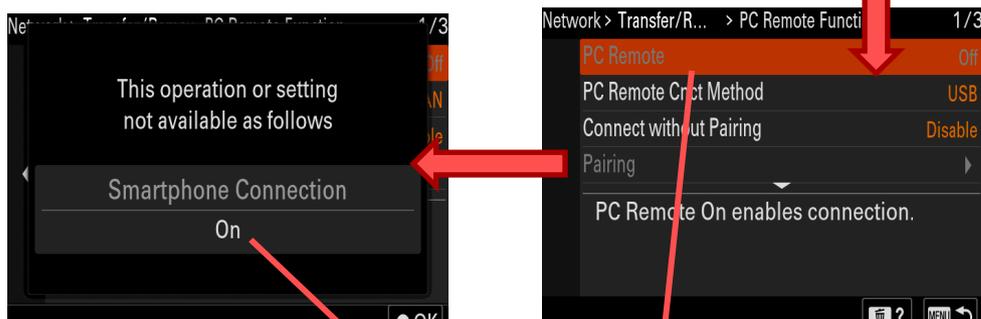
Select [IP Address Setting] to see which menu item is "On" and interrupting.

Preparation 4: Enable PC Remote (Wired LAN) for the camera

From the [MENU] button, go to [Network]→[Transfer/Remote] →[PC Remote Function]→[PC Remote], set it to [On]. Select [PC Remote Cnct Method] and set it to [Wired LAN].



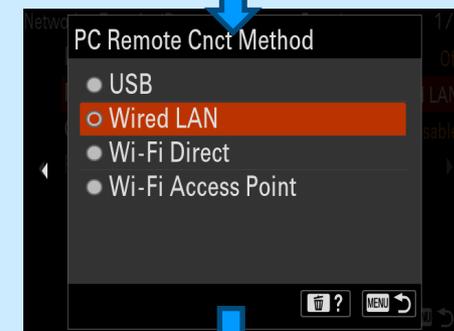
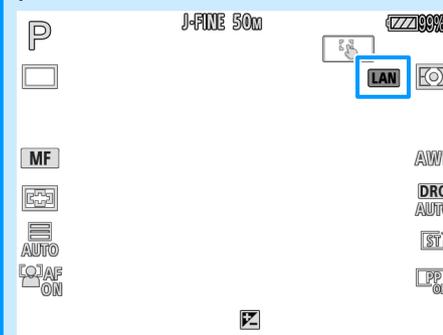
The [PC Remote] setting is grayed out.



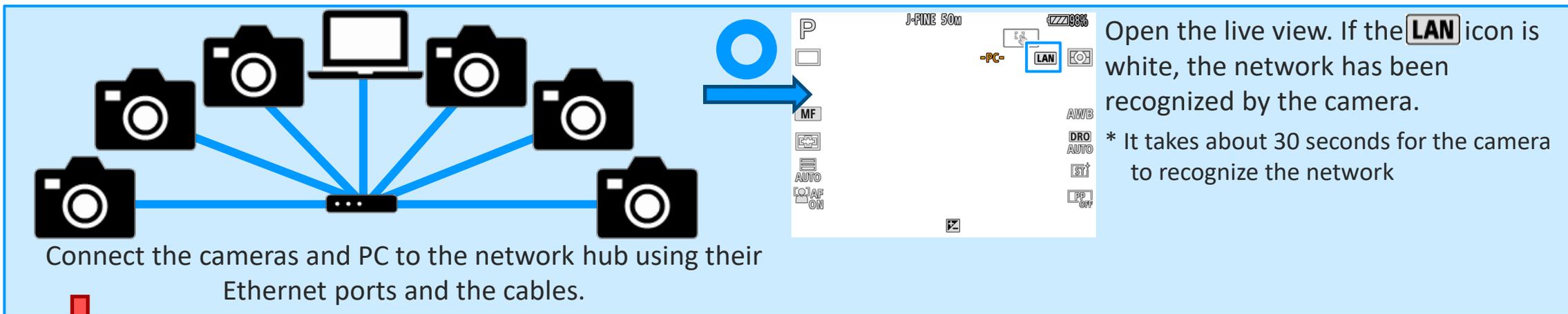
Select the [PC Remote] setting to see which menu item is "On" and interrupting.

When [PC Remote] is [On], the **LAN** icon appears on the live view.

The **LAN** icon is gray at this point because the Ethernet cable has not been connected/recognized yet.



Step 1: Connect the cameras, PC, and network hub with the Ethernet cables



Connect the cameras and PC to the network hub using their Ethernet ports and the cables.

Open the live view. If the **LAN** icon is white, the network has been recognized by the camera.

* It takes about 30 seconds for the camera to recognize the network

✘ If the **LAN** icon on the live view remains gray for more than 30 seconds,

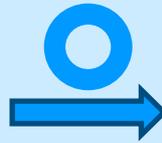
Check the following:

- Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
 - Is the Ethernet↔USB adapter connected properly?
 - Is the Ethernet cable connected properly?
- Does the Ethernet terminal of the camera work properly?
 - Does the ping command run successfully?
 - Does the color of the LAN icon change once it is connected to a router?

Step 2: Start Remote Camera Tool



Start the installed [Remote Camera Tool].



Device Selection window appears on the desktop.

Device selection window does not appear.

Check the following:

- Has the OS been updated to its latest version?

Step 3: Press the [Refresh] button on Device Selection window

Press [Refresh] on Device Selection window.

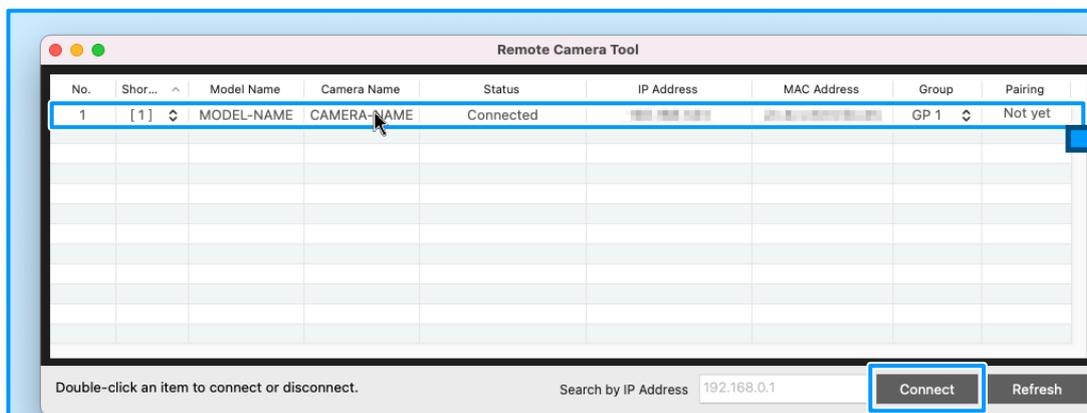
Information about the connected camera is reflected in the list.

 Information about the camera is not reflected in the list.

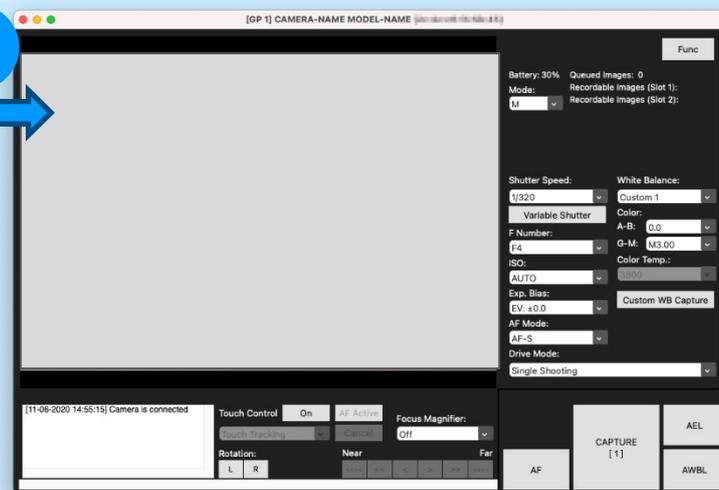
Check the following:

- Check the PC settings.
 - Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
- Check the state of each Ethernet cable.
 - Is the Ethernet cable connected properly?
 - Is the Ethernet↔USB adapter connected properly?
 - Does the access lamp go on/flash when the PC and network hub are connected directly?
- Check the status of the Ethernet terminal of each camera.
 - Does the color of the **LAN** icon change once the camera is connected to the router directly?
 - Does the color of the **LAN** icon change 30 seconds after the camera and PC are connected directly?
 - Does the ping command run successfully?
- Check the settings of the camera.
 - Go to the camera's [MENU]→[Network]→[Wired LAN] →[Display Wired LAN Info.]. Is the IP address displayed?
 - Enter the camera's IP address in the IP address field of Device Selection window and press [IP Connect].
 - Check that information about the camera appears in the camera list.

Step 4: Double-click the [Camera Name] of the camera you want to access.



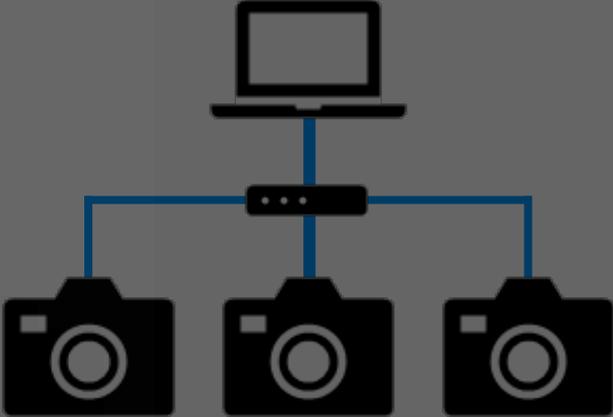
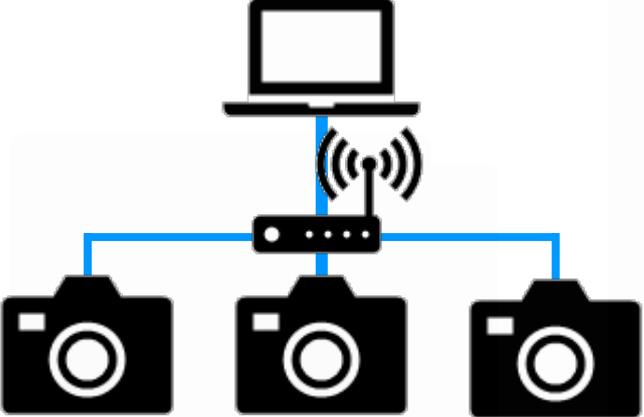
Double-click the name of the camera you want to operate.



A window to control the camera appears with a live view and model information.

To connect a camera to your PC, you need to pair them first.
For more information, see [pages 16 and 17](#).

Step by Step Guide #3: Multiple Cameras ↔ Router ↔ PC Connection

	#1 Camera ↔ PC Direct Connection	#2 Multiple Cameras ↔ Network Hub ↔ PC Connection	#3 Multiple Cameras ↔ Network Router ↔ PC Connection
Schematic diagram			
Image save destination	PC	PC/FTP Server	PC/FTP Server
IP address	Static / Auto	Static / Auto	Static / DHCP
Transfer method	Wired LAN	Wired LAN	Wired LAN
Transfer while shooting	Yes	Yes	Yes
Transfer file format	RAW/JPEG	RAW/JPEG	RAW/JPEG

Step by Step Guide #3: Multiple Cameras ↔ Router ↔ PC Connection

Step by Step Guide Overview

□ [Preparation 1: Things to prepare](#)

- Camera that supports Remote Camera Tool
- Ethernet cable
- PC on which Remote Camera Tool has been installed
- Router

□ [Preparation 2: PC settings](#)

- Disconnect all other network connections, including Wi-Fi.
- Close all security/cloud synchronization software programs that are running on the PC.

□ [Preparation 3: Router settings](#)

- Access the control menu of the router.
- Enable the DHCP server function.

□ [Preparation 4: IP address settings for the camera](#)

- From the camera's [MENU] button, go to [Network] → [Wired LAN] → [IP Address Setting].
- If [IP Address Setting] is accessible, set it to [Auto].

↓ If [IP Address Setting] is grayed-out, do the following:

- Select [IP Address Setting] and see which menu item is "On" and interrupting.
- Turn off the menu item that is [On].
- Turn on [PC Remote (Wired LAN)].

□ [Preparation 5: Enable PC Remote \(wired LAN\) for the camera](#)

- From the [MENU] button, go to [Network] → [Transfer/Remote] → [PC Remote Function] → [PC Remote], set it to [On].
- Select [PC Remote Cnct Method] and set it to [Wired LAN].

↓ if [PC Remote] is grayed out, do the following:

- Select [PC Remote] and see which menu item is "On" and interrupting.
- Turn off the menu item that is [On].
- Turn on [PC Remote].

Step by Step Guide 3: Multiple Cameras ↔ Router ↔ PC Connection

Step by Step Guide Overview

[Step 1: Connect the cameras, PC, and router with the Ethernet cables](#)

* It takes about 30 seconds to 1 minute for the camera to recognize the network.

- Open the live view and ensure that the text of the **LAN** icon is white.

↓ If the **LAN** icon on the live view remains gray for more than 30 seconds, check the following:

- Check the PC settings.
 - Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
- Check the state of each Ethernet cable.
 - Is the Ethernet cable connected properly?
 - Is the Ethernet ↔ USB adapter connected properly?
 - Does the access lamp go on/flash when the PC and network hub are connected directly?
- Check the status of the Ethernet terminal of each camera.
 - Does the color of the **LAN** icon change once the camera is connected to the router directly?
 - Does the ping command run successfully?

[Step 2: Start Remote Camera Tool](#)

- Check that Device Selection window appears.

↓ If Device Selection window does not appear, check the following:

- Has the OS been updated to its latest version?

Step by Step Guide 3: Multiple Cameras ↔ Router ↔ PC Connection

Step by Step Guide Overview

[Step 3: Press the \[Refresh\] button on Device Selection window](#)

- Check that information about the camera appears in the camera list.

↓ If information about the camera does not appear by pressing the [Refresh] button, check the following:

- Check the PC settings.
 - Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
- Check the state of each Ethernet cable.
 - Is the Ethernet cable connected properly?
 - Is the Ethernet ↔ USB adapter connected properly?
 - Does the access lamp go on/flash when the PC and network hub are connected directly?
- Check the status of the Ethernet terminal of each camera.
 - Does the color of the **LAN** icon change once the camera is connected to the router directly?
 - Does the ping command run successfully?

- Check the settings of the camera.

- Go to the camera's [MENU] → [Network] → [Wired LAN] → [Display Wired LAN Info].
Is the IP address displayed?

- Enter the camera's IP address in the IP address field of Device Selection window and press [IP Connect].
 - Check that information about the camera appears in the camera list.

[Step 4: Double-click the \[Camera Name\] field of the camera you want to access](#)

- A window to control the camera appears with a live view and model information.

Preparation 1: Things to prepare

- Camera that supports Remote Camera Tool
- Ethernet cable
 - If your PC is not equipped with an Ethernet port, you need to use a USB-to-Ethernet adapter (available at stores).
- PC on which Remote Camera Tool has been installed
- Router

Preparation 2: PC settings

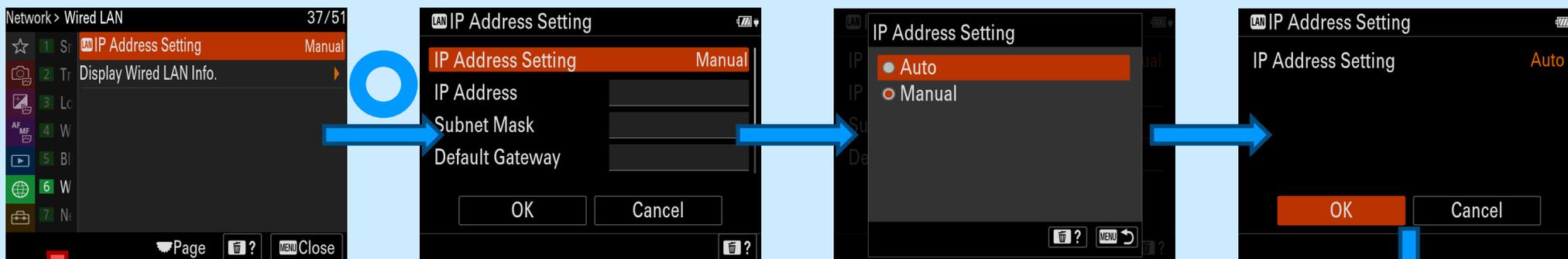
1. If the PC is connected to other networks, including Wi-Fi, disconnect them in advance.
2. If any security/cloud synchronization software programs are running on the PC, close them in advance.

Preparation 3: Router settings

1. Access the control menu of the router.
2. Enable the DHCP server function.

Preparation 4: IP address settings for the camera

From the camera's [MENU] button, go to [Network]→[Wired LAN]→[IP Address Setting].
If [IP Address Setting] is accessible, set it to [Auto].



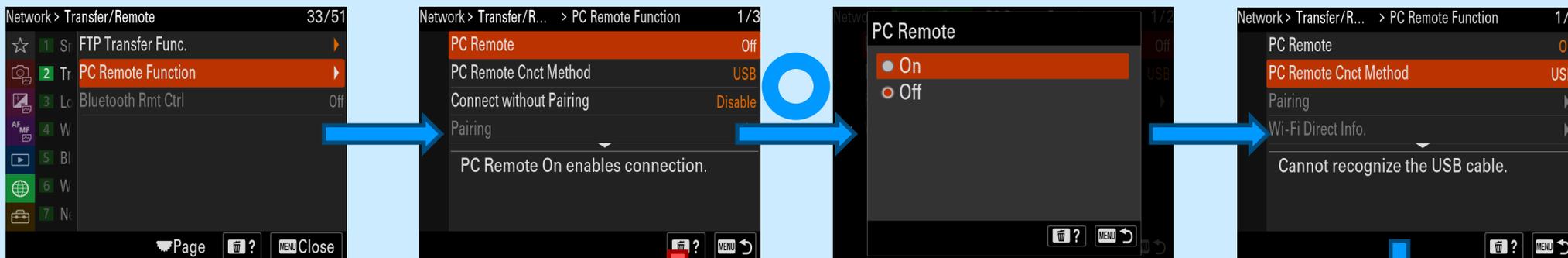
[IP Address Setting] is grayed-out:



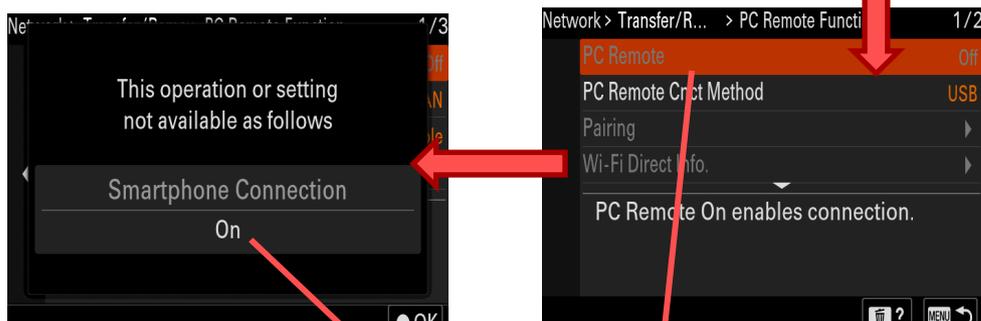
Select [IP Address Setting] to see which menu item is "On" and interrupting.

Preparation 5: Enable PC Remote (wired LAN) for the camera

From the [MENU] button, go to [Network]→[Transfer/Remote] →[PC Remote Function]→[PC Remote], set it to [On]. Select [PC Remote Cnct Method] and set it to [Wired LAN].



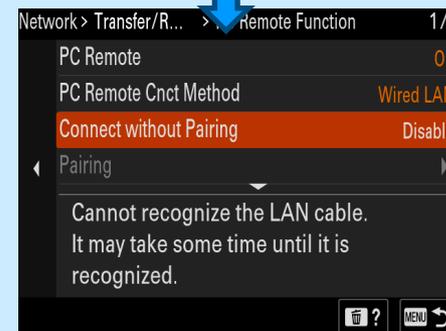
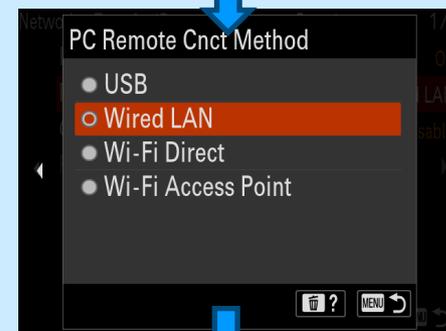
The [PC Remote] setting is grayed out.



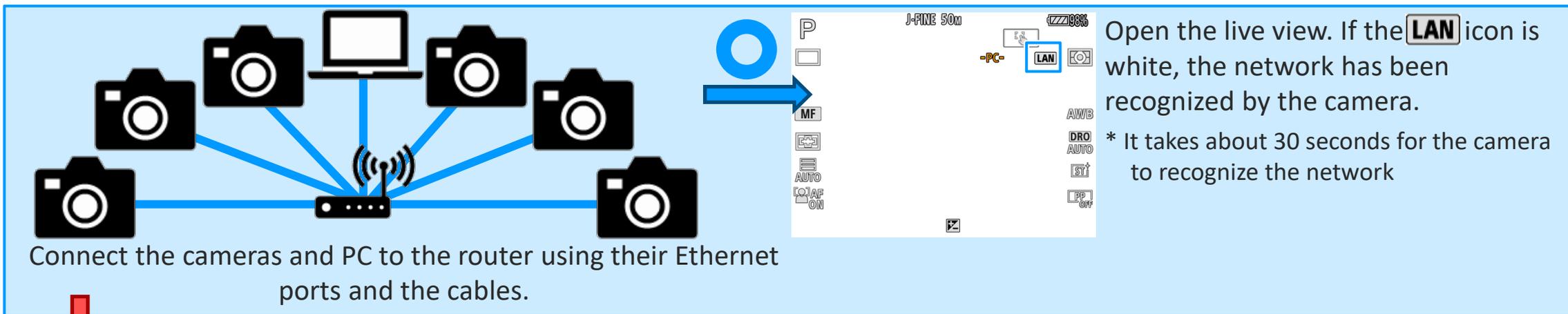
Select the [PC Remote] setting to see which menu item is "On" and interrupting.

When [PC Remote] is [On], the LAN icon appears on the live view.

The LAN icon is gray at this point because the Ethernet cable has not been connected/recognized yet.



Step 1: Connect the cameras, PC, and router with the Ethernet cables.



Connect the cameras and PC to the router using their Ethernet ports and the cables.

Open the live view. If the **LAN** icon is white, the network has been recognized by the camera.

* It takes about 30 seconds for the camera to recognize the network

✘ If the **LAN** icon on the live view remains gray for more than 30 seconds,

Check the following:

- Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
 - Is the Ethernet⇔USB adapter connected properly?
 - Is the Ethernet cable connected properly?
- Does the Ethernet terminal of the camera work properly?
 - Does the ping command run successfully?
 - Does the color of the LAN icon change once it is connected to a router?

Step 2: Start Remote Camera Tool



Start the installed [Remote Camera Tool].



Device Selection window appears on the desktop.

Device selection window does not appear.

Check the following:

- Has the OS been updated to its latest version?

Step 3: Press the [Refresh] button on Device Selection window

Press [Refresh] on Device Selection window.

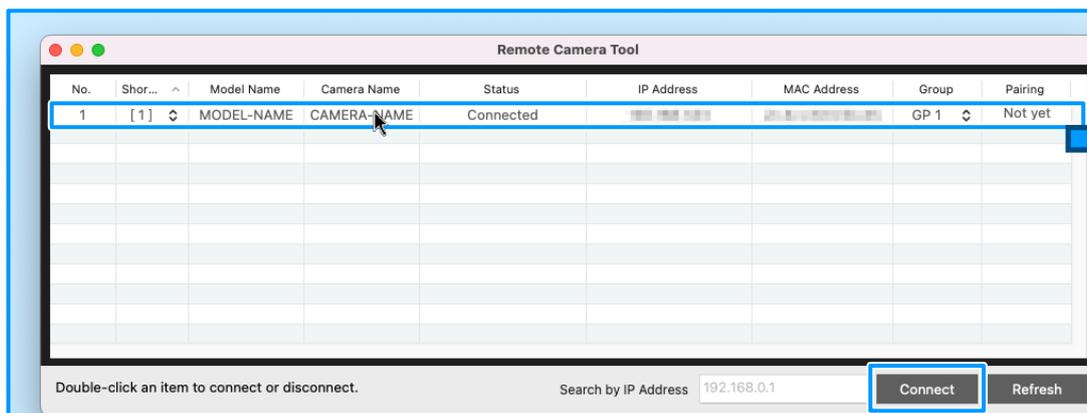
Information about the connected camera is reflected in the list.

 Information about the camera is not reflected in the list.

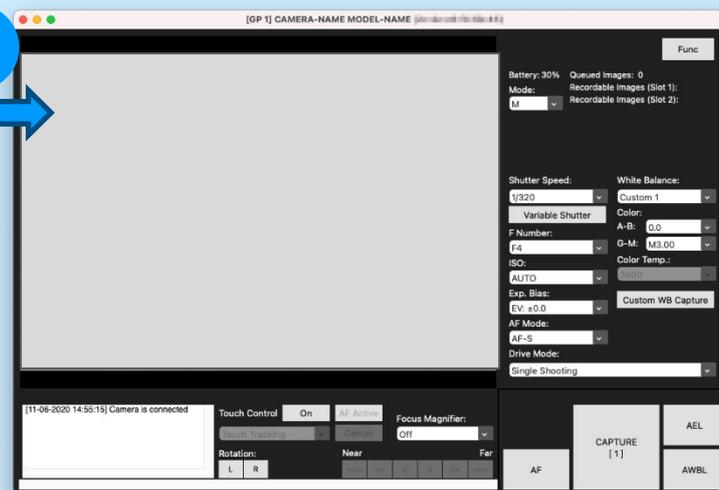
Check the following:

- Check the PC settings.
 - Did you disconnect the PC from all other networks, including Wi-Fi?
 - Did you close all security/cloud synchronization software programs that were running on the PC?
- Check the state of each Ethernet cable.
 - Is the Ethernet cable connected properly?
 - Is the Ethernet ⇄ USB adapter connected properly?
 - Does the access lamp go on/flash when the PC and network hub are connected directly?
- Check the status of the Ethernet terminal of each camera.
 - Does the color of the **LAN** icon change once the camera is connected to the router directly?
 - Does the color of the **LAN** icon change 30 seconds after the camera and PC are connected directly?
 - Does the ping command run successfully?
- Check the settings of the camera.
 - Go to the camera's [MENU] → [Network] → [Wired LAN] → [Display Wired LAN Info.]. Is the IP address displayed?
 - Enter the camera's IP address in the IP address field of Device Selection window and press [IP Connect].
 - Check that information about the camera appears in the camera list.

Step 4: Double-click the [Camera Name] of the camera you want to access.



Double-click the name of the camera you want to operate.



A window to control the camera appears with a live view and model information.

To connect a camera to your PC, you need to pair them first.
For more information, see [pages 16 and 17](#).

Step by Step Guide #4: FTP Server Settings for PC Connection

Step by Step Guide Overview * From here, the fields for settings are left blank. Please use them to write down your own settings, etc.

Preparation 1: Register FTP server information to the camera

- Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.]→[Server Setting]→[Server].
- Select [Display Name] and enter the display name [].
- Select [Destination Settings] and enter the following settings:
Host Name : _____
Secure Protocol : [On] or [Off]
Root Certificate Error : [Not connect] or [Connect]
Port Number : _____
- Select [Directory Settings] and enter the following settings:
Specify Directory : _____
Directory Hierarchy : [Standard] or [Same as camera]
Same File Name: [Overwrite] or [Not overwrite]
- Select [User Info Settings] and enter the settings provided on the following:
User: _____
Password: _____
- Select [OK].

Preparation 2: Enable the FTP connection to the camera

- Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.]→[FTP Connect Method] and select [Wired LAN].
- Select [FTP Function] and then select [On].

↓ If FTP connection fails, see the error message and check the following:

[Failed to establish a connection to the FTP server. Please check the FTP server settings.]

- Are the settings for the FTP server correct?

[Cannot recognize the LAN cable. Trying to establish a connection again.]

- Is the camera connected to the network?

[Failed to obtain the IP address. Please check the DNS server settings or destination settings.]

- Are the destination settings correct?
- Is the DNS server working properly?
- If the FTP server is located outside the LAN network, is the network connected to the Internet?

Step by Step Guide #4: FTP Server Settings for PC Connection

Step by Step Guide Overview

[Transfer multiple images at once](#)

- Go to [MENU]→[Playback]→[Playback Target]→[Select Playback Media] and select a slot you want to transfer images from.
- Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.]→[FTP Transfer]

↓ If [FTP Transfer] is not accessible, check the following:

- Is an SD card inserted in the selected slot?
 - Can the inserted SD card be read by other devices without any error?
- Specify which types of images you want to transfer using FTP and select [OK].
 - Target Group
 - [This Media] / [This Date]※for the date view
 - / [This Folder]※for the folder view
 - Still Images/Movies
 - [All] / [Still Only] / [Movie Only]
 - Target Img (Protect)
 - [All] / [Protected]
 - Transfer Status
 - [All] / [Only Non-transfer] / [Only Failed]

- Select [OK] .

↓ If FTP connection fails, see the error message and check the following:

[Failed to establish a connection to the FTP server. Please check the FTP server settings.]

- Are the settings for the FTP server correct?

[Cannot recognize the LAN cable. Trying to establish a connection again.]

- Is the camera connected to the network?

[Failed to obtain the IP address. Please check the DNS server settings or destination settings.]

- Are the destination settings correct?

- Is the DNS server working properly?

- If the FTP server is located outside the LAN network, is the network connected to the Internet?

Step by Step Guide #4: FTP Server Settings for PC Connection

Step by Step Guide Overview

[Transfer images automatically as you shoot](#)

- Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.] →[ Auto FTP Transfer] and select [On].
- Shot a photo.

↓ If FTP server connection fails, see the error message and check the following:

[Failed to establish a connection to the FTP server. Please check the FTP server settings.]

- Are the settings for the FTP server correct?

[Cannot recognize the LAN cable. Trying to establish a connection again.]

- Is the camera connected to the network?

[Failed to obtain the IP address. Please check the DNS server settings or destination settings.]

- Are the destination settings correct?
- Is the DNS server working properly?
- If the FTP server is located outside the LAN network, is the network connected to the Internet?

[Transfer an image that is being played back](#)

- Go to [MENU]→[ (Setup)]→[Operation Customize] →[ Custom Key Setting] and assign a key you want to use to the [FTP Transfer (This Img.)] function.
- Display an image you want to transfer and press the key that is assigned to [FTP Transfer (This Img.)].

↓ If FTP server connection fails, go to [MENU]→[Network] →[Transfer/Remote]→[FTP Transfer Func.] to see the error message and check the following:

[Failed to establish a connection to the FTP server. Please check the FTP server settings.]

- Are the settings for the FTP server correct?

[Cannot recognize the LAN cable. Trying to establish a connection again.]

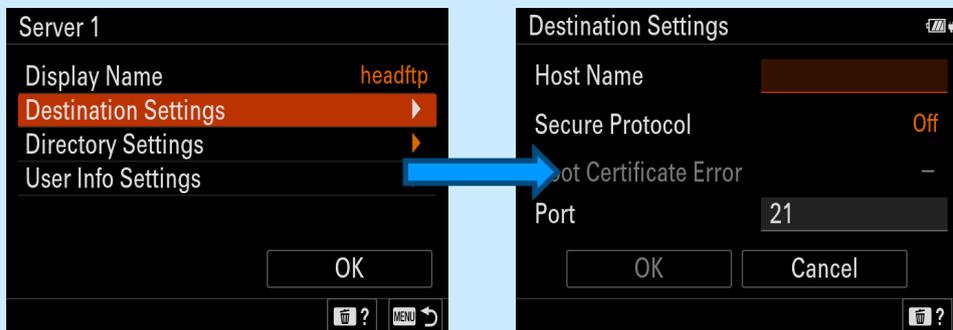
- Is the camera connected to the network?

[Failed to obtain the IP address. Please check the DNS server settings or destination settings.]

- Are the destination settings correct?
- Is the DNS server working properly?
- If the FTP server is located outside the LAN network, is the network connected to the Internet?

Preparation 1: Register FTP server information to the camera

3. Select [Destination Settings] and enter the settings provided on the right.



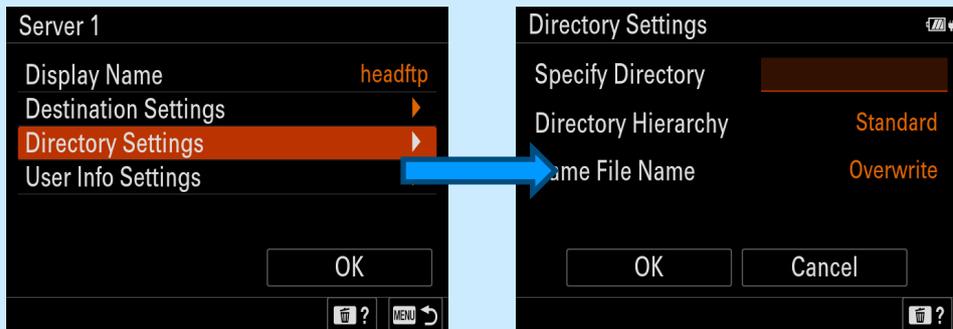
Host Name: _____

Secure Protocol: [On] or [Off] _____

Root Certificate Error: [Not connect] or [Connect] _____

Port Number: _____

4. Select [Directory Settings] and enter the settings provided on the right.



Specify Directory: _____

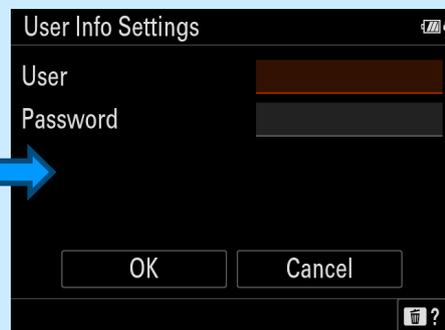
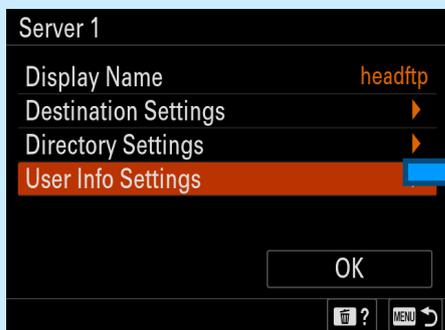
Folder Hierarchy: [Standard] or [Same as camera] _____

Same File Name: [Overwrite] or [Not overwrite] _____

* The fields for settings are left blank. Please use them to write down your own settings, etc.

Preparation 1: Register FTP server information to the camera

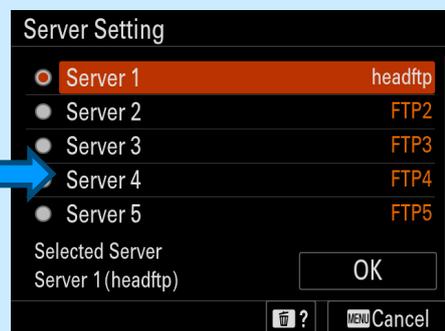
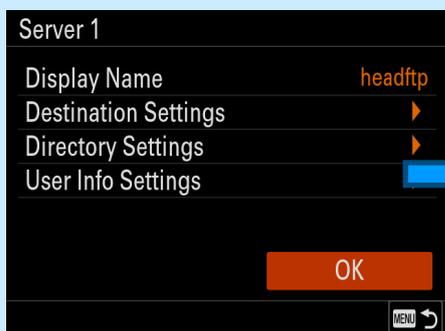
5. Select [User Info Settings] and enter the settings provided on the right.



User : _____

Password : _____

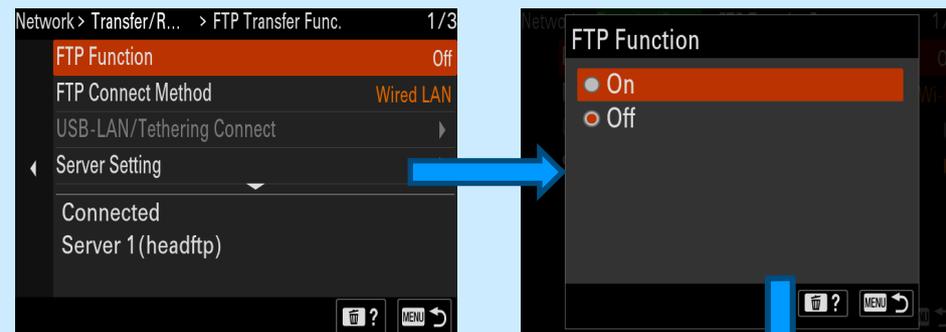
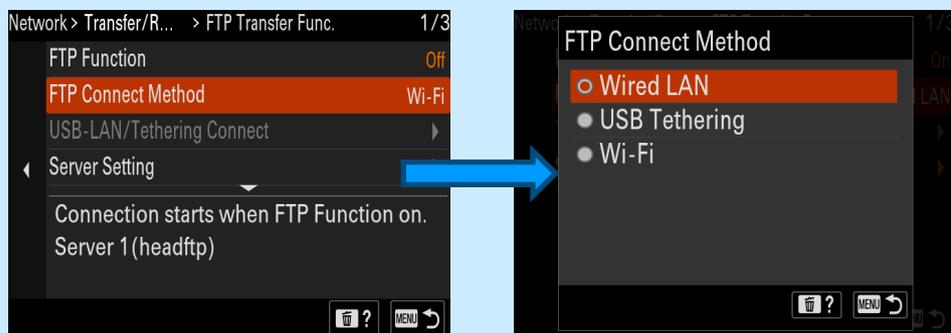
6. Select [OK]



* The fields for settings are left blank. Please use them to write down your own settings, etc.

Preparation 2: Enable the FTP connection to the camera

1. Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.] →[FTP Connect Method] and select [Wired LAN].
2. Select [FTP Function] and then select [On].



Try the following depending on the error message you receive:

[Failed to establish a connection to the FTP server. Please check the FTP server settings.]

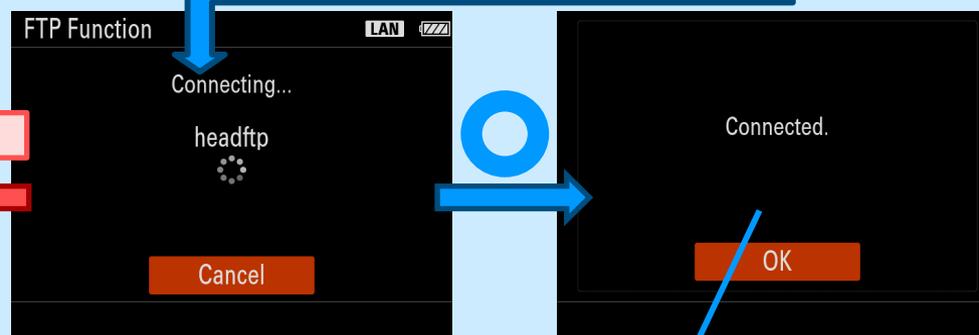
- Are the settings for the FTP server correct?

[Cannot recognize the LAN cable. Trying to establish a connection again.]

- Is the camera connected to the network?

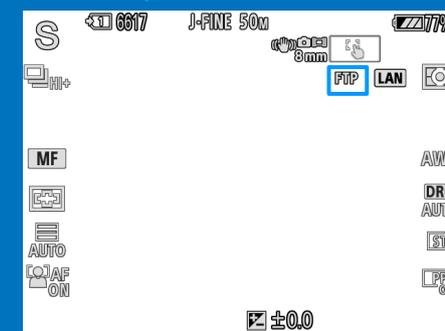
[Failed to obtain the IP address. Please check the DNS server settings or destination settings.]

- Are the destination settings correct?
- Is the DNS server working properly?
- If the FTP server is located outside the LAN network, is the network connected to the Internet?



If a connection is successfully established, the message "Connected." appears. Also, the white **FTP** icon is displayed on the live view.

If a connection was not established, the orange **FTP** icon is displayed on the live view.

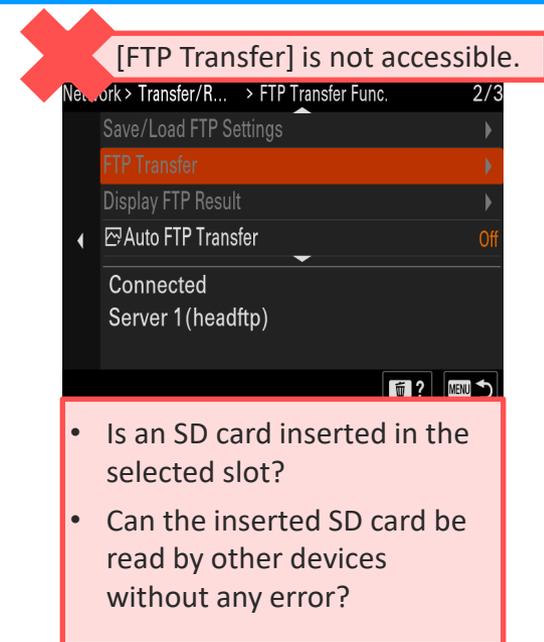
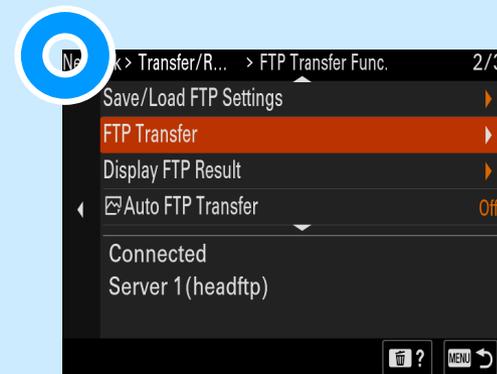


Transfer multiple images at once

1. Go to [MENU]→[Playback]→[Playback Target] →[Select Playback Media] and select a slot you want to transfer images from.



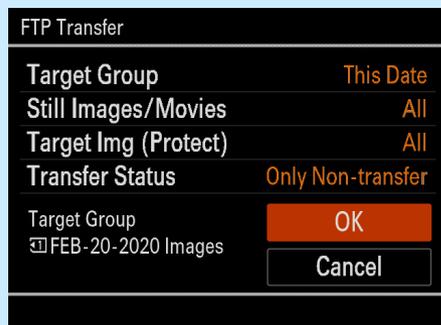
2. Go to [MENU]→[Network]→[Transfer/Remote] →[FTP Transfer Func.]→[FTP Transfer]



- Is an SD card inserted in the selected slot?
- Can the inserted SD card be read by other devices without any error?

Transfer multiple images at once

3. Specify which types of images you want to transfer using FTP and select [OK].



Target Group
[This Media]

[This Date]

※for the date view

[This Folder]

※for the folder view

Still Images/Movies

[All]

[Still Only]

[Movie Only]

Target Img (Protect)

[All]

[Protected]

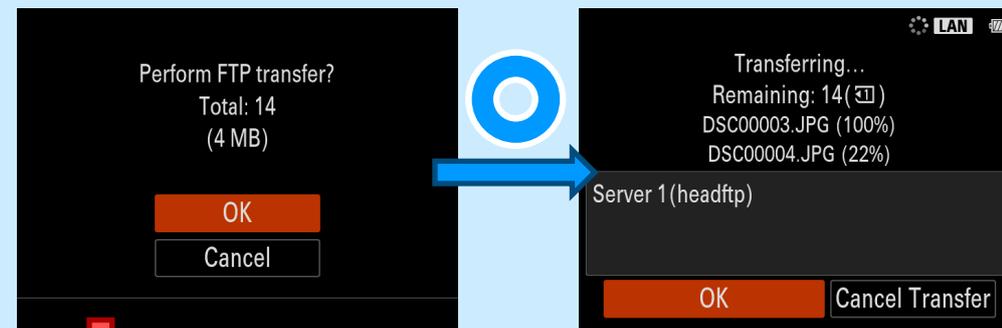
Transfer Status

[All]

[Only Non-transfer]

[Only Failed]

4. Select [OK].



Connection failed

Try the following depending on the error message you receive:

[Failed to establish a connection to the FTP server. Please check the FTP server settings.]

Are the settings for the FTP server correct?

[Cannot recognize the LAN cable. Trying to establish a connection again.]

Is the camera connected to the network?

[Failed to obtain the IP address. Please check the DNS server settings or destination settings.]

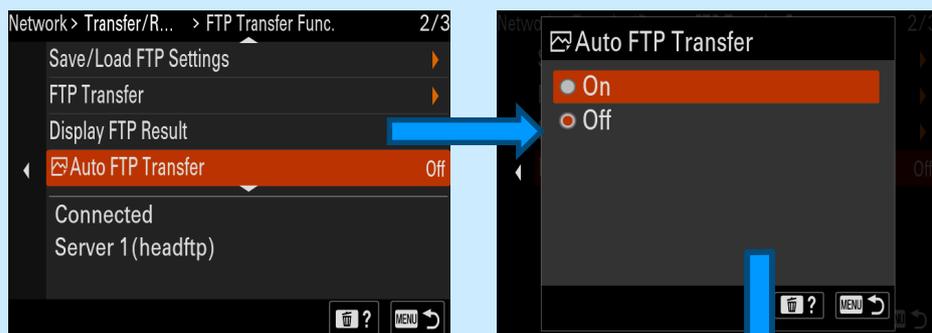
Are the destination settings correct?

Is the DNS server working properly?

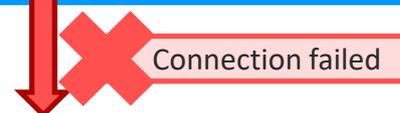
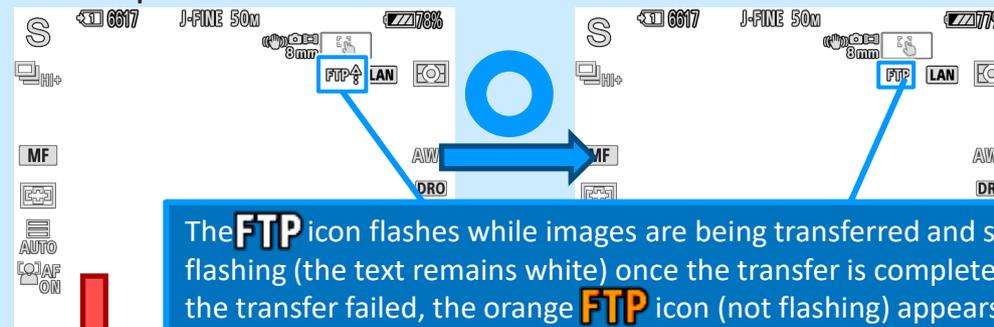
If the FTP server is located outside the LAN network, is the network connected to the Internet?

Transfer images automatically as you shoot

1. Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.]→[Auto FTP Transfer] and select [On].



2. Shot a photo



Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.] and see the error message. Try the following depending on the error message you receive:

[Failed to establish a connection to the FTP server. Please check the FTP server settings.]

- Are the settings for the FTP server correct?

[Cannot recognize the LAN cable. Trying to establish a connection again.]

- Is the camera connected to the network?

[Failed to obtain the IP address. Please check the DNS server settings or destination settings.]

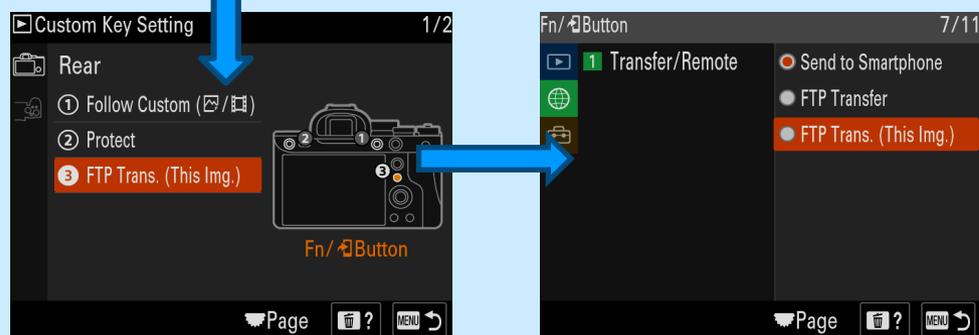
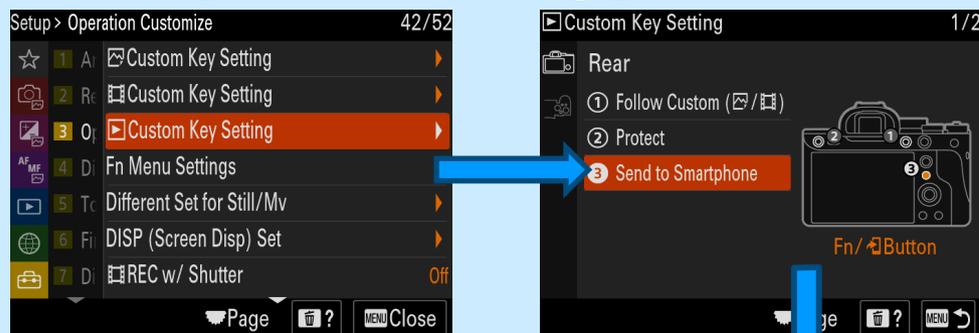
- Are the destination settings correct?
- Is the DNS server working properly?
- If the FTP server is located outside the LAN network, is the network connected to the Internet?

Transfer an image that is being played back

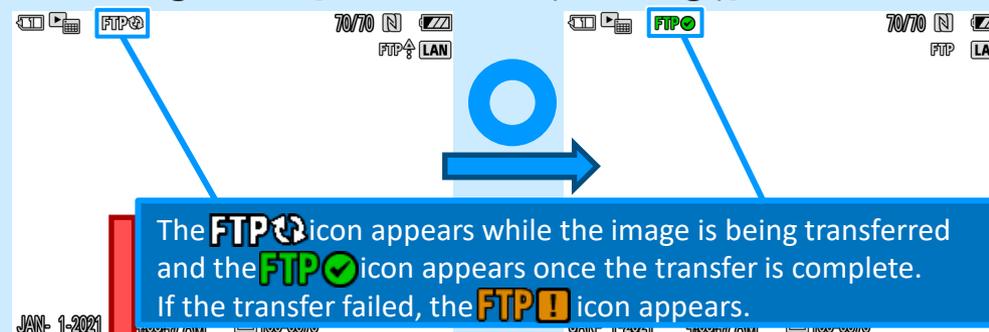
Assigning a custom key to [FTP Transfer (This img.)] makes image transfer easier.

You can transfer the image displayed on the playback screen to the FTP server just by pressing the key.

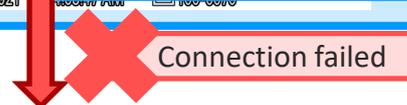
1. Go to [MENU]→[ (Setup)]→[Operation Customize] →[ Custom Key Setting] and assign a key you want to use to the [FTP Transfer (This Img.)] function.



2. Display an image you want to transfer and press the key that is assigned to [FTP Transfer (This Img.)].



The **FTP** icon appears while the image is being transferred and the **FTP** icon appears once the transfer is complete. If the transfer failed, the **FTP** icon appears.



Connection failed

Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.] and see the error message. Try the following depending on the error message you receive:

[Failed to establish a connection to the FTP server. Please check the FTP server settings.]

- Are the settings for the FTP server correct?

[Cannot recognize the LAN cable. Trying to establish a connection again.]

- Is the camera connected to the network?

[Failed to obtain the IP address. Please check the DNS server settings or destination settings.]

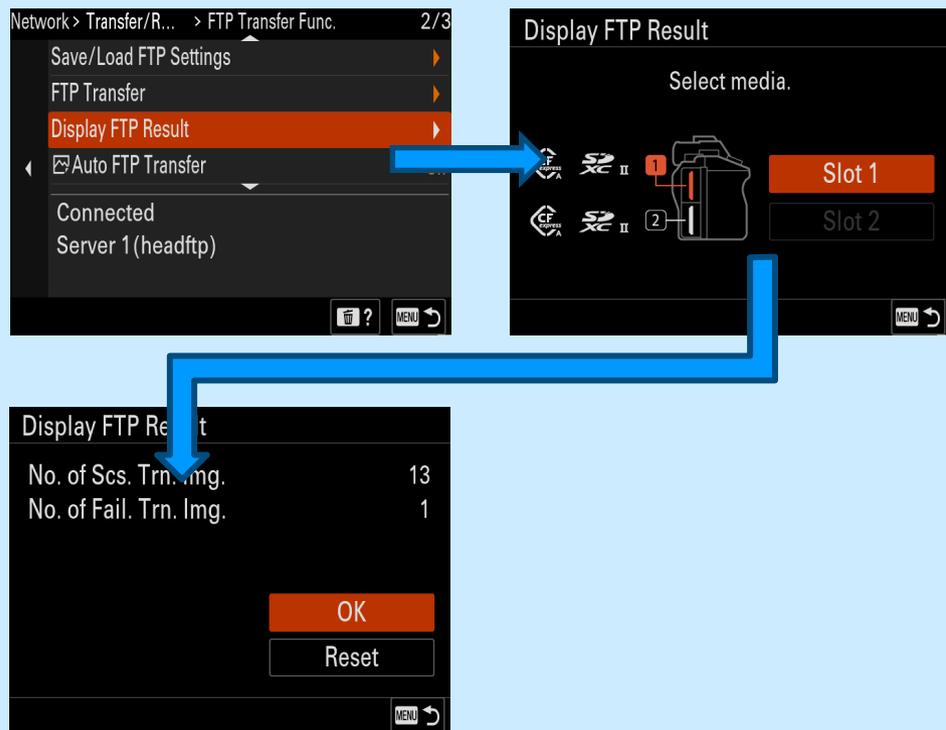
- Are the destination settings correct?

- Is the DNS server working properly?

- If the FTP server is located outside the LAN network, is the network connected to the Internet?

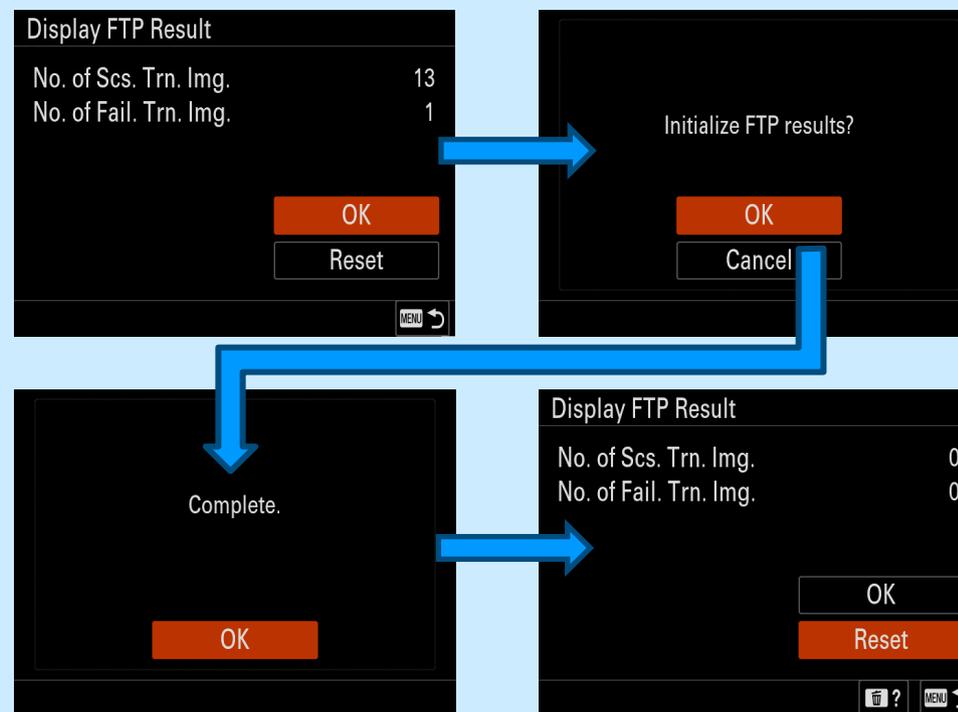
Check FTP transfer results

1. Go to [MENU]→[Network]→[Transfer/Remote]→[FTP Transfer Func.]→[Display FTP Result] and select a slot you want to check transfer results for.

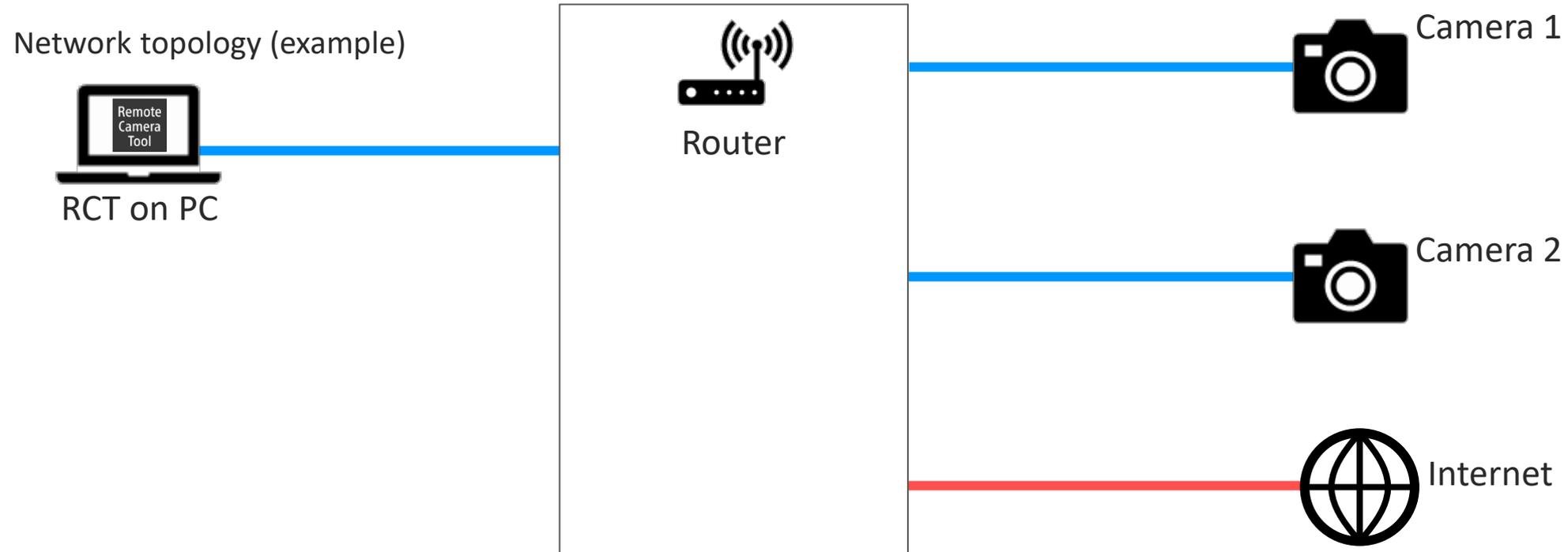


<How to delete FTP transfer results>

1. On the [Display FTP Result] screen, select [Reset].



Step by Step Guide #5: Settings to Use a Fixed IP Address



Step by Step Guide #5: Settings to Use a Fixed IP Address

Step by Step Guide Overview  for Mac * The fields for settings are left blank. Please use them to write down your own settings, etc.

[Preparation 1: Things to prepare](#)

- Camera that supports Remote Camera Tool
- Ethernet cable
- PC on which Remote Camera Tool has been installed
- Router

[Preparation 2: PC settings\(for Mac\)](#)

- If the PC is connected to other networks, including Wi-Fi, disconnect them in advance.
- Take a note of the MAC address of the PC in advance.
 - Go to [ Menu]→[About This Mac]→[System Report].
 - Take a note of the MAC address displayed in [Network]→[Locations].
- Set up a fixed IP address.
 - Go to [ Menu]→[System Preferences...]→[Network].
 - From the [Location] pull-down menu, select [Edit Locations...]→[+].
 - Enter [] in the entry field and select [Done].
 - From the [Locations] pull-down menu, select [], which you entered manually in 3 above.
 - From the [Configure IPv4] pull-down menu, select [Manually].
 - Enter the IP address [. . .].

- Enter the subnet mask [. . .].
- Enter the router [. . .].
- Select [Advanced...]→[DNS]→[+].
- Enter [. . .] in the field and select [OK].
- Select [Apply].

[Preparation 3: Camera settings.](#)

- Go to [MENU]→[Network]→[Wired LAN]→[Display Wired LAN Info.] and take a note of the MAC Address of the camera in advance.
- Go to [MENU]→[Network]→[Wired LAN]→[IP Address Setting] and set it to [Manual].
- Enter IP address[. . .].
- Enter Subnet mask [. . .].
- Enter Default Gateway [. . .].
- Enter Primary DNS Server [. . .].
- Enter Secondary DNS Server [. . .].
- Select [OK].
- From the [MENU] button, go to [Network]→[Transfer/Remote]→[PC Remote Function]→[PC Remote], set it to [On].
- Select [PC Remote Cnct Method] and set it to [Wired LAN].

Step by Step Guide #5: Settings to Use a Fixed IP Address

Step by Step Guide Overview for Windows

* The fields for settings are left blank. Please use them to write down your own settings, etc.

[Preparation 1: Things to prepare](#)

- Camera that supports Remote Camera Tool
- Ethernet cable
- PC on which Remote Camera Tool has been installed
- Router

[Preparation 2: PC settings\(for Windows\)](#)

- If the PC is connected to other networks, including Wi-Fi, disconnect them in advance.
- Take a note of the MAC address of the PC in advance.
 - Go to [ Menu]→[Setting]→[Network & Internet]→[Ethernet]→[Ethernet].
 - Take a note of the MAC address displayed in [Properties].
- Set up a fixed IP address.
 - Select [Edit] button in IP settings.
 - From the [Edit IP settings] pull-down menu, Select [Manual].
 - Set [IPv4] to [On].
 - Enter the IP address [. . .].
 - Enter Subnet prefix length [. . .].

- Enter Preferred DNS [. . .].
- Enter Alternate DNS [. . .].
- Select [Save].

[Preparation 3: Camera settings.](#)

- Go to [MENU]→[Network]→[Wired LAN]→[Display Wired LAN Info.] and take a note of the MAC Address of the camera in advance.
- Go to [MENU]→[Network]→[Wired LAN]→[IP Address Setting] and set it to [Manual].
- Enter IP address[. . .].
- Enter Subnet mask [. . .].
- Enter Default Gateway [. . .].
- Enter Primary DNS Server [. . .].
- Enter Secondary DNS Server [. . .].
- Select [OK].
- From the [MENU] button, go to [Network]→[Transfer/Remote]→[PC Remote Function]→[PC Remote], set it to [On].
- Select [PC Remote Cnct Method] and set it to [Wired LAN].

Preparation 1: Things to prepare

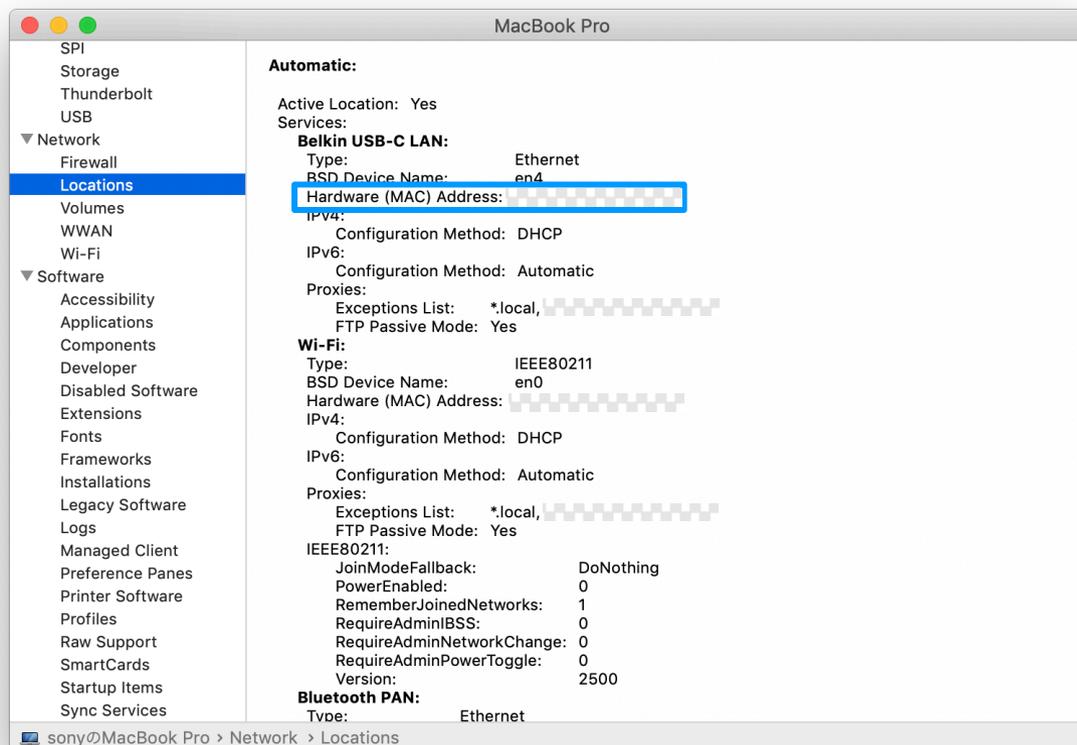
- Camera that supports Remote Camera Tool
- Ethernet cable
 - If your PC is not equipped with an Ethernet port, you need to use a USB-to-Ethernet adapter (available at stores).
- PC on which Remote Camera Tool has been installed
- Router

Preparation 2: PC settings for Mac [click here for Windows](#)

1. If the PC is connected to other networks, including Wi-Fi, disconnect them in advance.
2. Take a note of the MAC address of the PC in advance.

Go to [ Menu]→[About This Mac...]→[System Report].

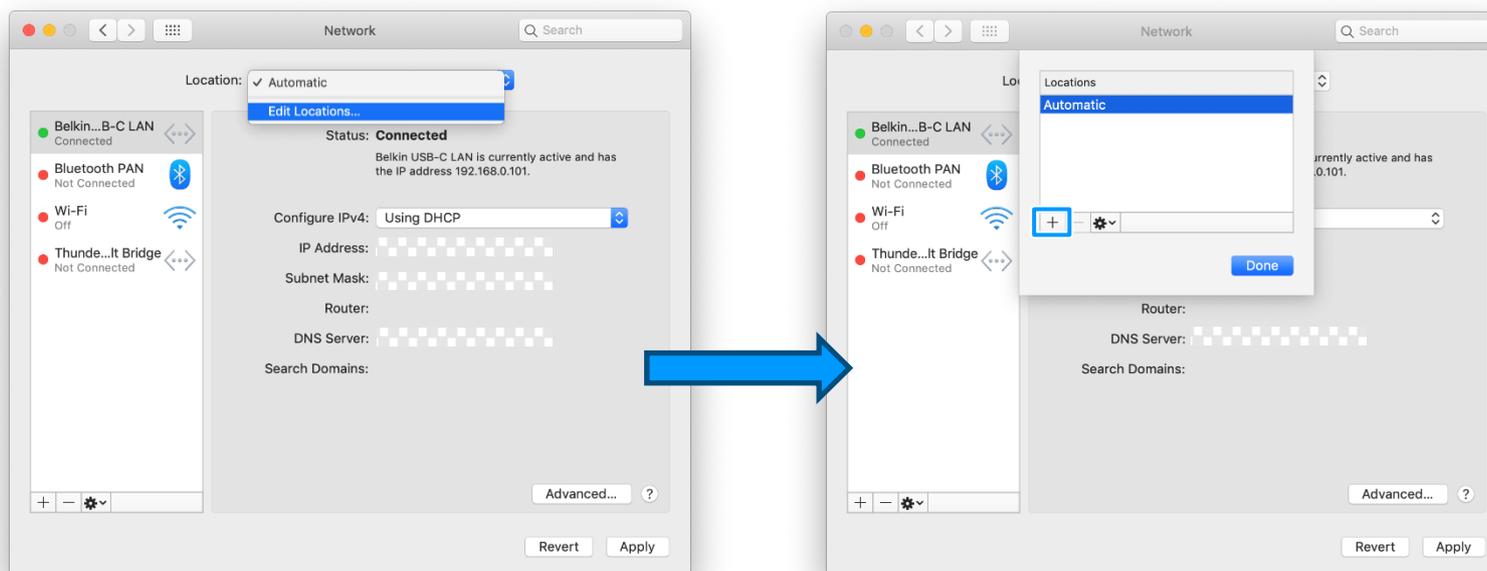
Take a note of the MAC address displayed in [Network]→[Locations].



Preparation 2: PC settings for Mac [click here for Windows](#)

3. Set up a fixed IP address.

1. Go to [Apple Menu]→[System Preferences...]→[Network].
2. From the [Location] pull-down menu, select [Edit Locations...]→[+].



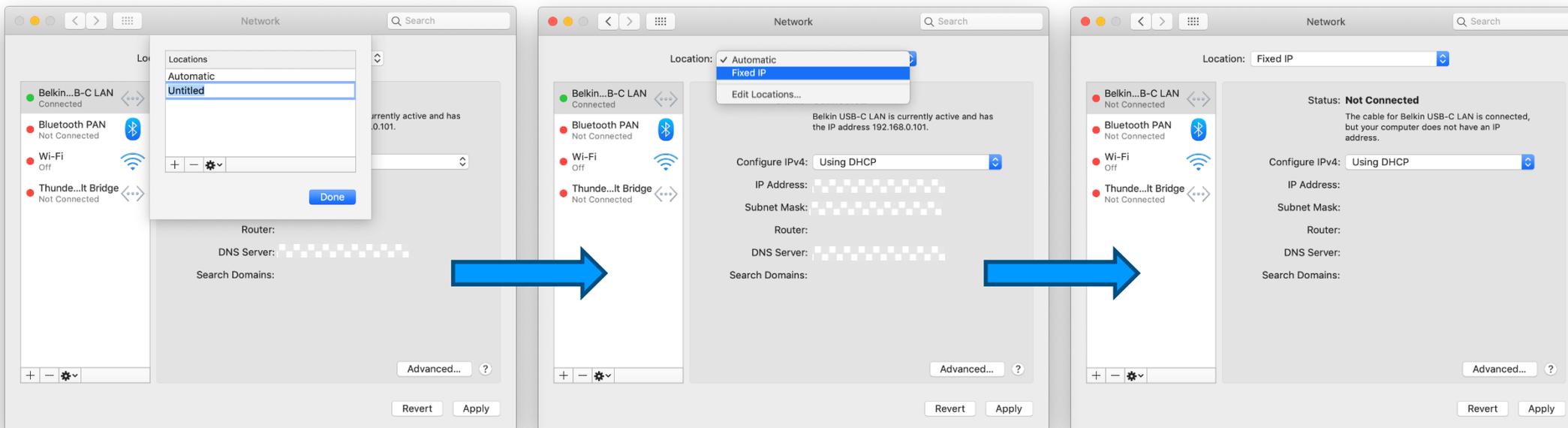
Preparation 2: PC settings for Mac [click here for Windows](#)

3. Set up a fixed IP address.

* The fields for settings are left blank. Please use them to write down your own settings, etc.

3. Enter [] in the entry field and select [Done].

4. From the [Locations] pull-down menu, select [], which you entered manually in 3 above.



Preparation 2: PC settings for Mac [click here for Windows](#)

3. Set up a fixed IP address.

* The fields for settings are left blank. Please use them to write down your own settings, etc.

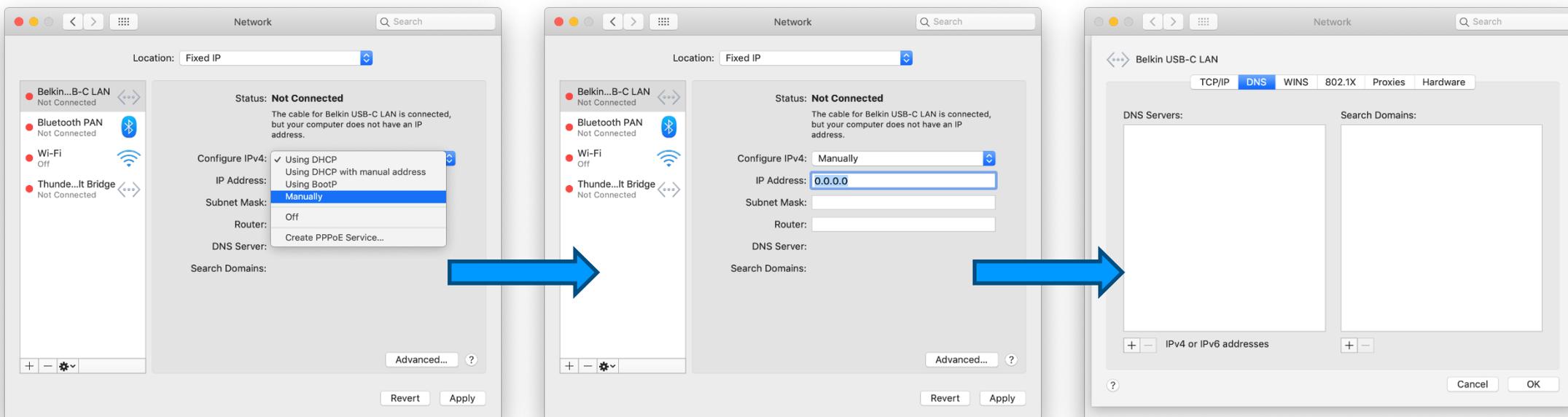
5. From the [Configure IPv4] pull-down menu, select [Manually].

6. Enter the IP address [. . .].

7. Enter the subnet mask [. . .].

8. Enter the router [. . .].

9. Select [Advanced...]→[DNS]→[+].



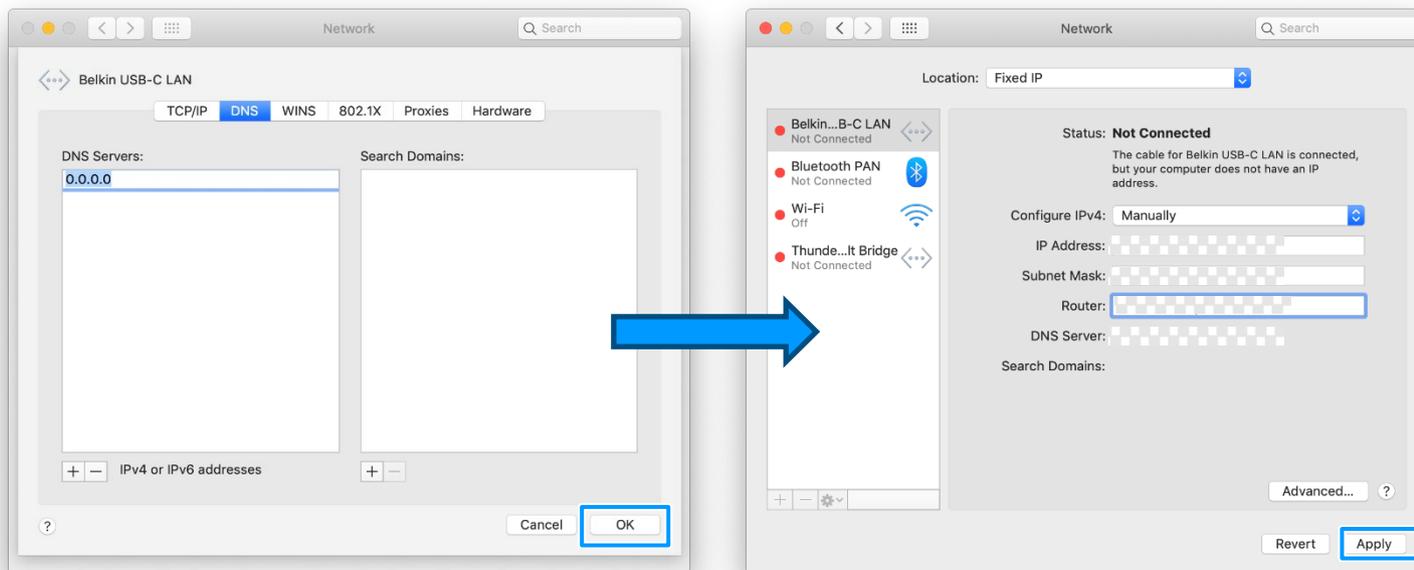
Preparation 2: PC settings for Mac [click here for Windows](#)

3. Set up a fixed IP address.

* The fields for settings are left blank. Please use them to write down your own settings, etc.

10. Enter [. . .] in the field and select [OK].

11. Select [Apply].



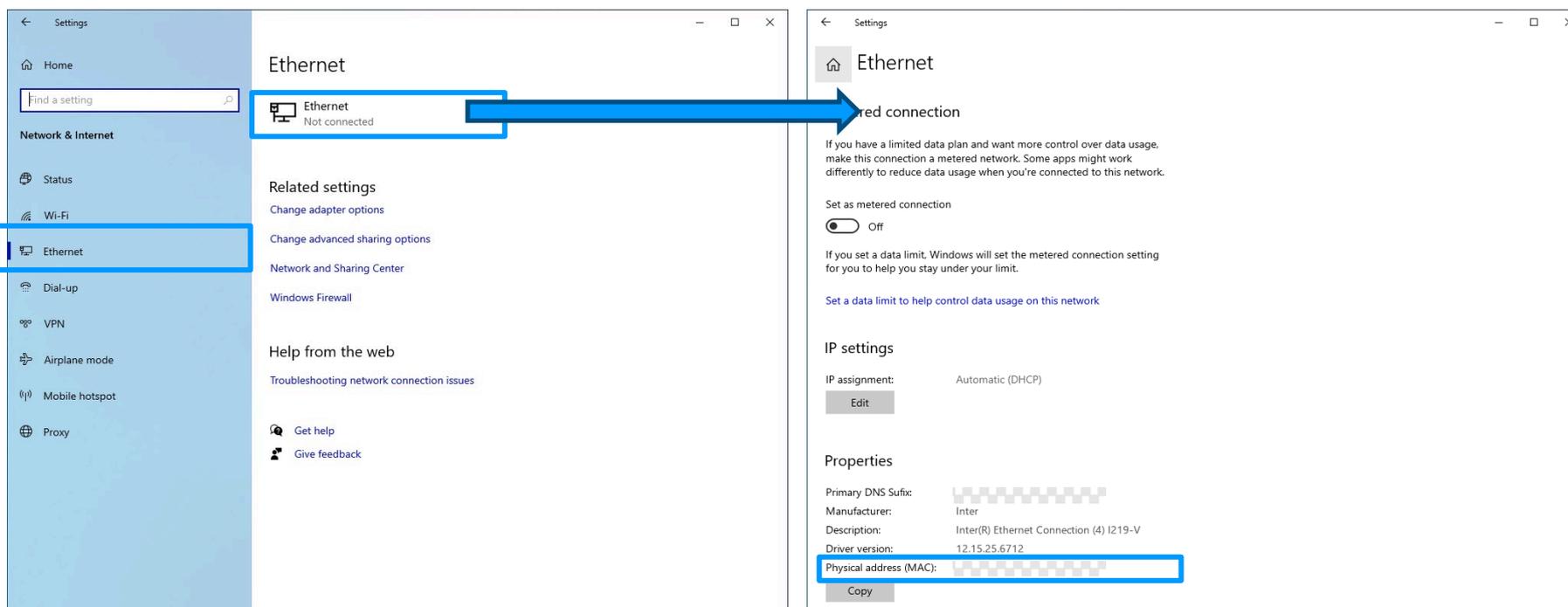
Preparation 2: PC settings for Windows

[click here for Mac](#)

1. If the PC is connected to other networks, including Wi-Fi, disconnect them in advance.
2. Take a note of the MAC address of the PC in advance.

Go to [ menu]→[Settings]→[Network & Internet]→[Ethernet]→[Ethernet].

Take a note of the “Physical address (MAC)” displayed in [Properties].

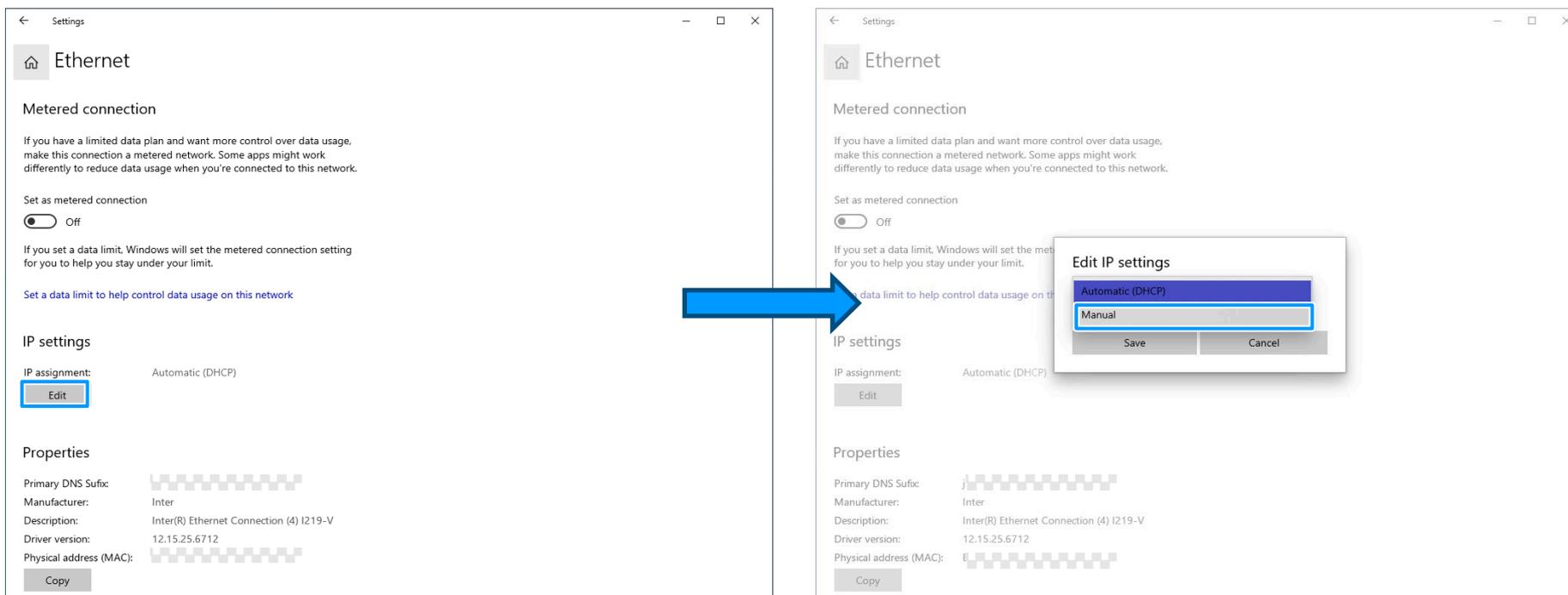


Preparation 2: PC settings for Windows

[click here for Mac](#)

3. Set up a fixed IP address.

1. Select [Edit] button in IP settings.
2. From the [Edit IP settings] pull-down menu, Select [Manual].



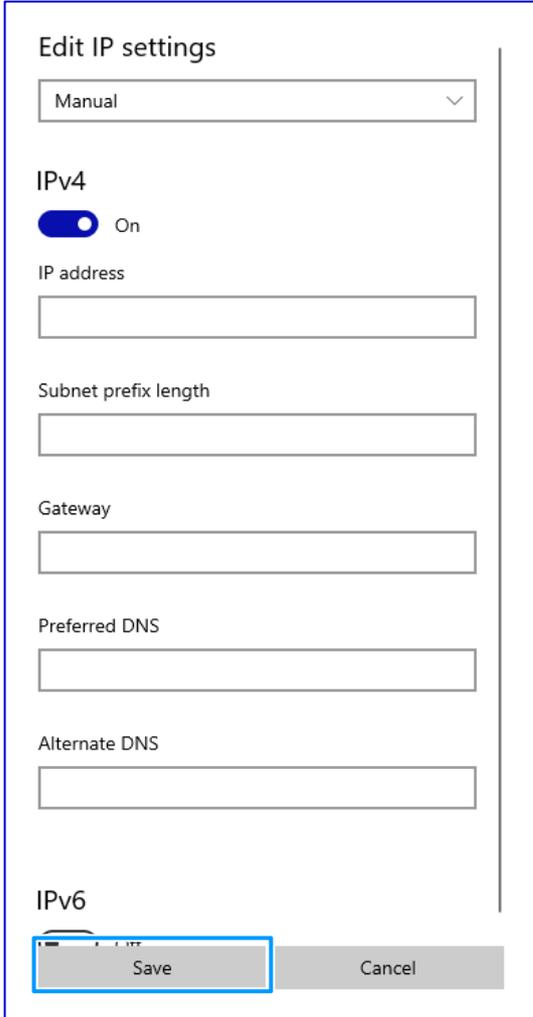
Preparation 2: PC settings for Windows

[🍏 click here for Mac](#)

3. Set up a fixed IP address.

* The fields for settings are left blank. Please use them to write down your own settings, etc.

3. In the Edit IP settings menu, set [IPv4] to [On].
4. Enter the IP address [. . .].
5. Enter Subnet prefix length [. . .].
6. Enter Preferred DNS [. . .].
7. Enter Alternate DNS [. . .].
8. After entering the above, select [Save].



Edit IP settings

Manual

IPv4

On

IP address

Subnet prefix length

Gateway

Preferred DNS

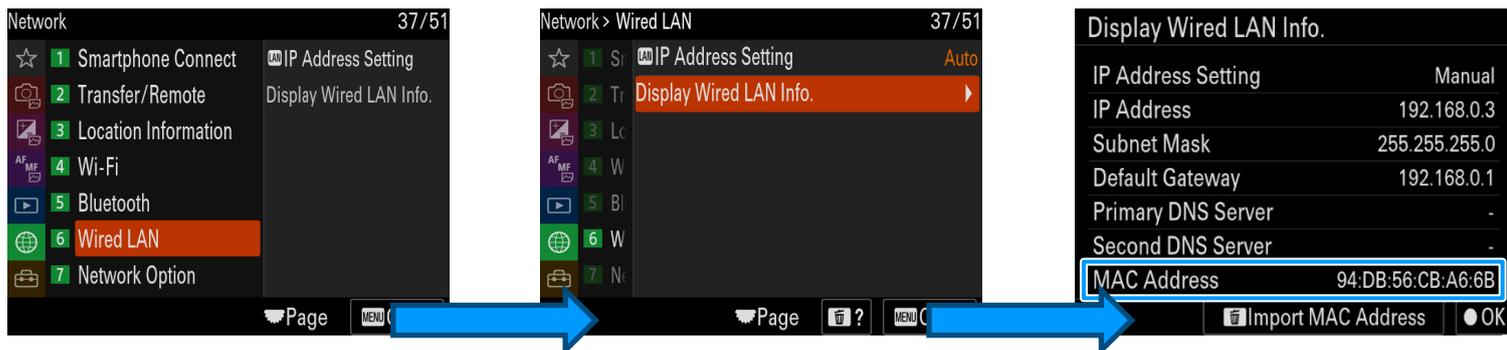
Alternate DNS

IPv6

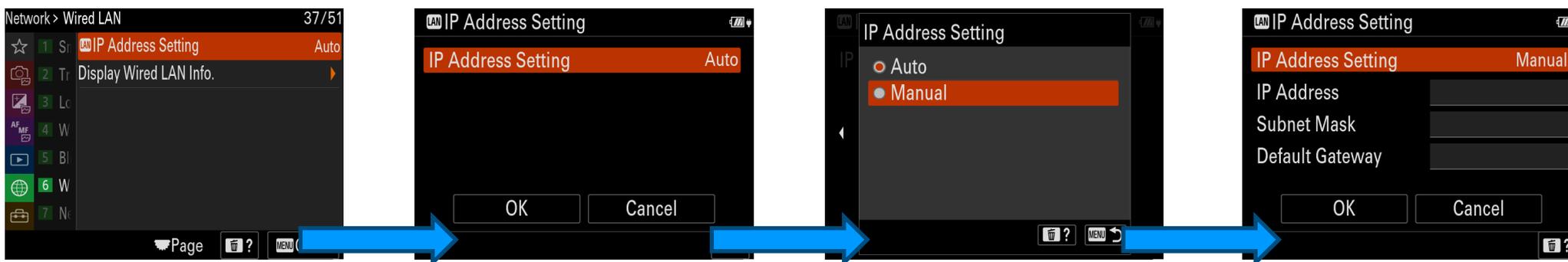
Save Cancel

Preparation 3: Camera settings

1. Go to [MENU]→[Network]→[Wired LAN]→[Display Wired LAN Info.] and take a note of the MAC Address of the camera in advance.

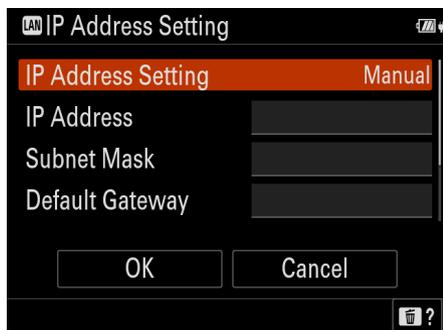


2. Go to [MENU]→[Network]→[Wired LAN]→[IP Address Setting] and set it to [Manual].



Preparation 3: Camera settings

* The fields for settings are left blank. Please use them to write down your own settings, etc.



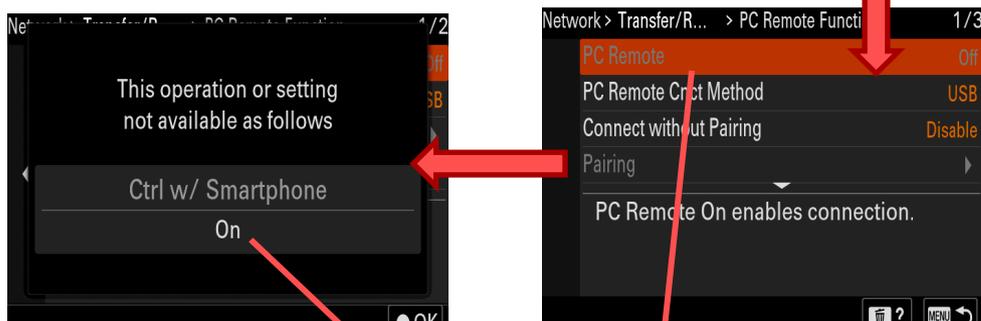
3. Enter IP address [. . .].
4. Enter Subnet mask [. . .].
5. Enter Default Gateway [. . .].
6. Enter Primary DNS Server [. . .].
7. Enter Secondary DNS Server [. . .].
8. Select [OK].

Preparation 3: Camera settings.

- From the [MENU] button, go to [Network]→[Transfer/Remote] →[PC Remote Function]→[PC Remote], set it to [On].
- Select [PC Remote Cnct Method] and set it to [Wired LAN].



The [PC Remote] setting is grayed out.



Select the [PC Remote] setting to see which menu item is "On" and interrupting.

When [PC Remote] is [On], the **LAN** icon appears on the live view.

The **LAN** icon is gray at this point because the Ethernet cable has not been connected/recognized yet.

