

Nikon

NX Field System

User's Manual

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About This Document

The following symbols and conventions are used throughout this document.

Symbols

The following symbols are used in this document. Use them to help locate the information you need.

	This icon marks notes, information that should be read before using the NX Field system.
	This icon marks tips, additional information you may find helpful when using the NX Field system.
	This icon marks references to other sections in this document.

Conventions

In this document, the camera transmitting synchronized release commands is referred to as the “master camera” and any camera responding with synchronized release as a “remote camera”.

Background Knowledge

This document assumes basic knowledge of networks and, in the case of the D6, D5, and Z 9, FTP servers. For more information on operating and configuring FTP servers, contact the vendor of the FTP software in question or consult commercially-available books or other reference materials.

Compatible Cameras

The NX Field system can be used with the D6, D5, Z 9, Z 7II, Z 6II, Z 7, and Z 6. For information on your camera, refer to:

[Using the NX Field System: D6, D5, and Z 9 Cameras \(📖 7\)](#)

[Using the NX Field System: Z 7II, Z 6II, Z 7, and Z 6 Cameras \(📖 221\)](#)

Using the NX Field System: D6, D5, and Z 9 Cameras

The NX Field system lets you operate cameras remotely from a master camera or from an iPhone or iPad running the NX Field app (📖 10). Before it can be used with the NX Field system, the camera will need a fee-for-service update from a Nikon-authorized service representative to install compatible firmware (📖 13).

Checking Camera Firmware

Cameras that have received the firmware update have the following items in their menus:

- D6 cameras: **[Wired LAN/WT]** > **[Options]** > **[Sync. release with FTP]**.
- D5 cameras: **[Network]** > **[Options]** > **[Sync. release with FTP]**.
- Z 9 cameras: **[Connect to other cameras]** > **[Link profile]**.

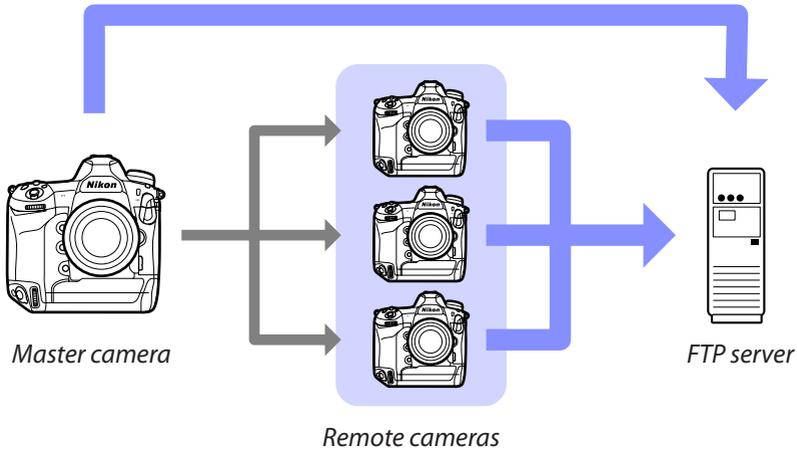
What the NX Field System Can Do for You

Using the NX Field system, you can control multiple cameras remotely from a master camera, iPhone, or iPad and upload pictures to an FTP server as they are taken.

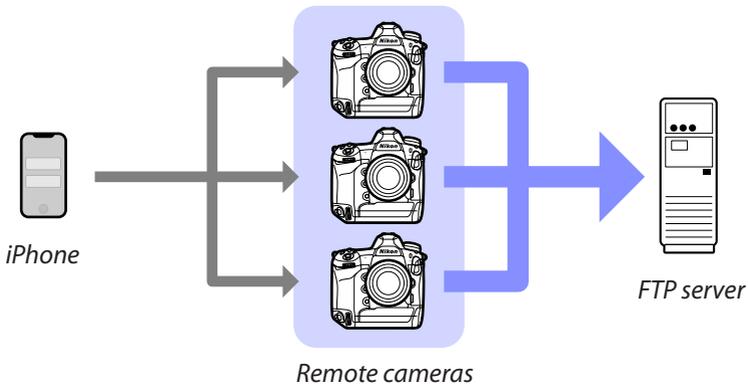
Wireless Connections

Although the NX Field system can connect to wireless networks via a WT-5 or WT-6 wireless transmitter or the Z 9's built-in wireless LAN, Ethernet networks are a better choice as they ensure reliable remote camera control and FTP upload unaffected by variations in signal strength. To reconnect after losing a wireless connection due to signal interruption or the like, wait for the network to restart and then turn the camera off and on.

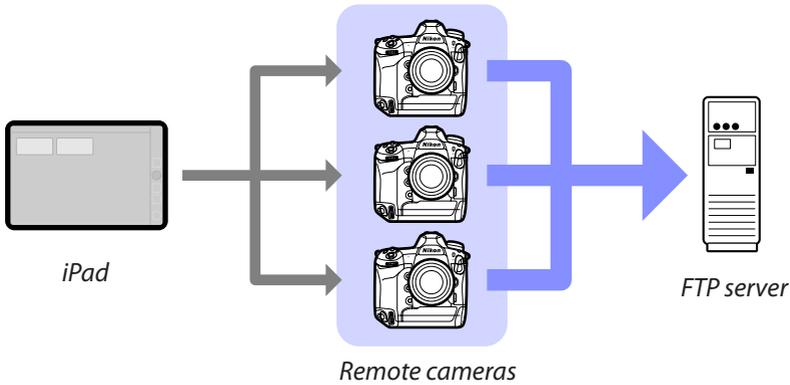
■ Taking and Uploading Pictures with Master and Remote Cameras (📖 60)



■ Remotely Taking and Selecting Pictures for Upload with an iPhone (📖 68)



■ Remotely Taking and Selecting Pictures for Upload with an iPad (📖 128)



☑ Networks

The master camera, iPhone, or iPad must be on the same local network as the remote cameras. The cameras and FTP server can be on the same local or wide-area network.

🔪 Mixing Cameras of Different Types

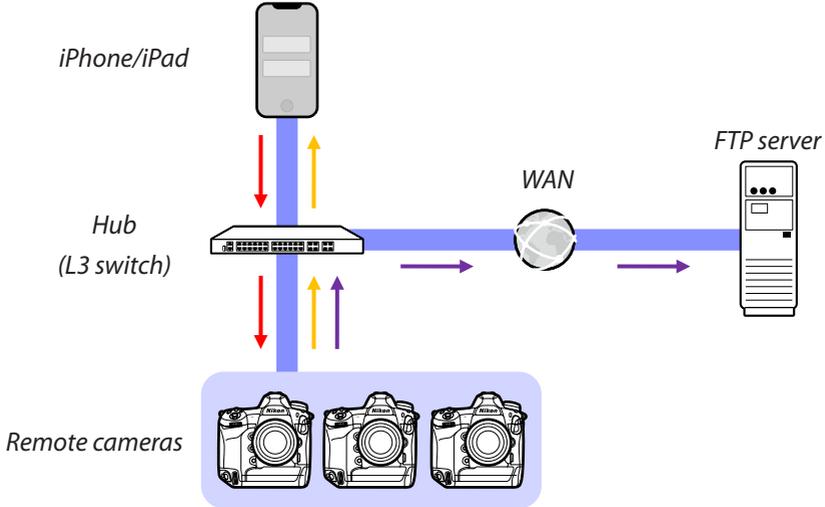
iPhones and iPads can be used to release the shutters on remote cameras in groups that include a mix of different camera types.

🔪 Master/Remote Synchronized Release

The D6, D5, and Z 9 can serve in the master and remote roles for master/remote synchronized release (📖 60).

The NX Field App

The NX Field app runs on iPhones and iPads. It can be used to control multiple remote cameras on the same local network and upload photos to an FTP server as they are taken.



- Remote release commands/remote setup
- Remote release/remote camera status
- FTP upload

☑ How the iPhone and iPad Apps Differ.....

Apart from some features available only in the iPad version, such as support for multiple live-view displays (📖 154), video recording (📖 158), and “skins” for mapping the locations of remote cameras (📖 164), the iPhone and iPad versions of the app are basically identical.

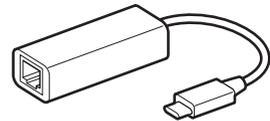
🔪 Crossing Network Boundaries (NAT Traversal).....

Only one remote camera at a time can be controlled by a master camera, iPhone, or iPad using NAT traversal implemented via router port forwarding.

What You'll Need

When using the NX Field app, you'll need:

- D6, D5, or Z 9 cameras with the NX Field firmware update installed,
- an iPhone or iPad with the NX Field app installed,
- an FTP server,
- an Ethernet-to-USB-Type-C or an Ethernet-to-Lightning adapter (for connecting iOS devices to Ethernet networks), and



other network peripherals as required given the connection type.

Configuring Your Devices for the NX Field System

Configure the cameras and iPhone or iPad for use with the NX Field system.

Readying the Cameras

Configure the master and remote cameras for use with the NX Field system.

Updating the Camera Firmware to a Version Compatible with NX Field

The camera firmware must be updated to a version that supports NX Field. Updates can be performed by a Nikon-authorized service representative (a fee is charged for this service).

Setting the Camera Clocks

We recommend that you set the clocks on all cameras as accurately as possible when using the NX Field system.

- Remote cameras automatically synchronize their clocks with iPhones or iPads connected via the NX Field app when the app's clock synchronization feature is enabled (☞ 126, 218).
- With a master camera, the clocks must be synchronized manually, as the connection is not made via the NX Field app.

☑ Time Zones

The NX Field app does not synchronize time zones. Before synchronizing clocks, be sure to set all cameras to the same time zone.

🔧 Syncing the Master Camera

Temporarily configuring the master as a remote camera allows the clock to be set from an iPad or iPhone via auto sync.

- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select **[Wired LAN/WT]** > **[Options]** > **[Sync. release with FTP]** > **[On]** > **[Master/remote]** > **[Remote camera]**.
 - D5 cameras: In the setup menu, select **[Network]** > **[Options]** > **[Sync. release with FTP]** > **[On]** > **[Master/remote]** > **[Remote camera]**.
 - Z 9 cameras: In the network menu, select **[Connect to other cameras]** > **[Master/remote]** > **[Remote camera]**.
- After synchronizing the clocks, restore the original **[Master camera]** setting.

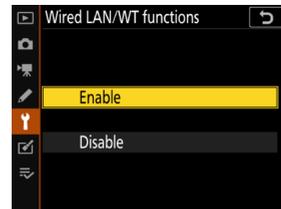
Adjusting Ethernet Connection Settings for the NX Field System

Adjust settings for all cameras that will be used with the NX Field system.

■ Step 1: Enable Wired LAN (D6 Only)

Users of the D6 will need to enable wired LAN before proceeding.

Select [**Enable**] for [**Wired LAN/WT**] > [**Wired LAN/WT functions**] in the setup menu.



■ Step 2: Enable Wired LAN Network Hardware

- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select [**Wired LAN/WT**] > [**Choose hardware**] > [**Wired LAN**].
 - D5 cameras: In the setup menu, select [**Network**] > [**Choose hardware**] > [**Wired LAN**].
 - Z 9 cameras: In the network menu, select [**Wired LAN**] > [**ON**].
- The D6's built-in Wi-Fi cannot be used. Although you can connect to wireless networks via a WT-5 or WT-6 wireless transmitter or the Z 9's built-in wireless LAN, Ethernet networks are a better choice as they ensure reliable remote camera control and FTP upload unaffected by variations in signal strength.

■ Step 3: Connect the Camera and FTP Server

Enter a profile name, IP address, and the other information needed to connect to the FTP server.

- Adjust the settings below after connecting the camera via an Ethernet cable and starting the FTP server.

☑ Connection Settings

Ask the network administrator for fixed IP addresses, subnet masks, and any other information you may need to enter.

1. Create an FTP server profile.

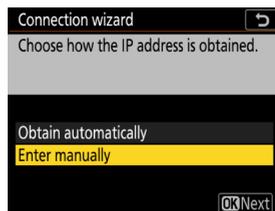
- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select **[Wired LAN/WT] > [Network settings] > [Create profile] > [Connection wizard] > [FTP upload]**.
 - D5 cameras: In the setup menu, select **[Network] > [Network settings] > [Create profile] > [Connection wizard] > [FTP upload]**.
 - Z 9 cameras: In the network menu, select **[Connect to FTP server] > [Network Settings] > [Create profile] > [Connection wizard]**.
- Press **OK** to proceed; the default profile name will be displayed.

2. Name the new profile.

- To rename the profile, press the center of the multi selector (D6 and D5 cameras) or press **OK** (Z 9 cameras).
- After entering the desired name, press **OK** (D6 and D5 cameras) or **OK** (Z 9 cameras); you will be prompted to choose how the IP address is obtained.
- To proceed without renaming the profile, leave the name as it is and press **OK** (D6 and D5 cameras) or press **OK** (Z 9 cameras); you will be prompted to choose how the IP address is obtained.

3. When prompted to choose how the IP address is obtained, select [**Enter manually**].

Although NX Field does support [**Obtain automatically**], fixed IP addresses are recommended, as otherwise profiles will have to be updated in the NX Field app whenever the remote camera IP address changes, as may occur for example when the camera reconnects to the network or the DHCP lease expires.

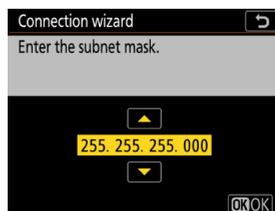


4. Enter the camera IP address.

- The procedure varies with the camera:
 - D6 and Z 9 cameras: Rotate the main command dial to highlight digits, press or to change, and press the center of the multi selector to accept.
 - D5 cameras: Press or to highlight digits and or to edit the highlighted value.
- Press (D6 and D5 cameras) or (Z 9 cameras) to complete the operation and display a confirmation dialog. Press the button again; you will be prompted to enter the subnet mask.

5. Enter the subnet mask.

- Press or to edit the subnet mask and press to accept; a confirmation dialog will be displayed.
- Press to proceed once the confirmation dialog is displayed.



6. Choose the server type.

Highlight [**FTP**] or [**SFTP**] and press ; you will be prompted to enter the server address. From “C” firmware version 3.00, the Z 9 supports [**FTPS**] in addition to the options listed above.



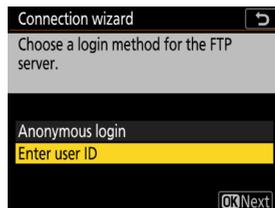
7. Enter the server address.

- Press **OK** (D6 and D5 cameras) or **Q** (Z 9 cameras) to connect to the FTP server. If the connection is successful, you will be prompted to choose a login method.

8. Choose a login method.

Highlight the desired method and press **OK**.

- If you selected [**Enter user ID**], supply a user ID and password when prompted.

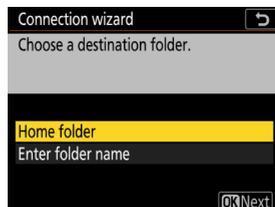


Caution: Secure FTP (SFTP)

Always choose [**Enter user ID**] when connecting to SFTP servers. The NX Field app may fail to connect to remote cameras when [**Anonymous login**] is selected.

9. Choose a destination folder.

- Select [**Home folder**] to upload pictures to the FTP server's home folder.
- To enter the folder name manually, select [**Enter folder name**]. The folder must already exist on the server.
- After choosing a folder, press **OK**.
 - D6 and D5 cameras: Select [**Connect and exit wizard**]. The camera will initiate connections to the network and FTP server.
 - Z 9 cameras: The camera will initiate connections to the network and FTP server.



10. Confirm that the camera has established a connection to the FTP server.
- Once a connection is established, the profile name will be displayed in green.
 - If the profile name is displayed in red, check FTP or network settings.

Port Numbers

TCP ports 21 and 32768 through 61000 are used for **[FTP]**, TCP ports 22 and 32768 through 61000 for **[SFTP]**, and TCP port 990 for **[FTPS]**. File transfer may be blocked if the server has a firewall not configured to allow access to these ports.

FTPS

Before connecting to an FTPS server, you will need to load a root certificate onto the camera. Root certificates can be managed using the **[Manage root certificate]** item newly added under **[Connect to FTP server] > [Options]** in the camera network menu.

Crossing Network Boundaries (NAT Traversal)

- Only one remote camera at a time can be controlled by a master camera, iPhone, or iPad using NAT traversal implemented via router port forwarding.
- We recommend using a VPN for enhanced security when controlling remote cameras via the Internet.

The camera is now configured for connection. Proceed to [Enable NX Field Settings on the Cameras](#) (📖 20).

Enable NX Field Settings on the Cameras

Now that cameras are configured for connection, ready the NX Field system for use.

- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select [**Wired LAN/WT**] > [**Options**] > [**Sync. release with FTP**] > [**On**].
 - D5 cameras: In the setup menu, select [**Network**] > [**Options**] > [**Sync. release with FTP**] > [**On**].
 - Z 9 cameras: Select [**Connect to other cameras**] in the network menu and choose [**ON**] for both [**Synchronized release**] and [**Link profile**].

Item	Description
Group name	Enter the group name. <ul style="list-style-type: none">• To control remote cameras from an iPhone or iPad, match the name to that chosen for [Group name] in the NX Field app (☞ 36, 48).
Master/remote	Choose whether the camera will act as master or remote. <ul style="list-style-type: none">• Master camera: The camera functions as a master camera. Pressing the shutter-release button on the master camera releases the shutters on the remote cameras.• Remote camera: The camera functions as a remote camera. The shutters on remote cameras are synchronized with the release on the master camera. The shutters can also be released by tapping the shutter-release button in the NX Field app.

Remote camera list	Add cameras to the remote camera list on the master camera (📖 24). The list also shows remote camera status.
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☑ [Master Camera] Selected for Multiple Cameras

- If multiple cameras in a given group have been chosen as master cameras, the NX Field system will assign the role to the first camera on.
- Only one camera in each group can function in the “master camera” role at a time.
- From Z 9 “C” firmware version 3.00, you can use a custom control to transfer control of remote cameras from the current master camera to a Z 9 configured to function in the master camera role.
 - Assign [**Override other cameras**] to a control using Custom Setting f2 [**Custom controls (shooting)**].
 - Press the control to which [**Override other cameras**] has been assigned to promote the camera to the role of a master camera in control of the remote cameras within its current group in the NX Field system.

■ Standby Timer Settings for Master Cameras

Master cameras take about 20 seconds to connect to remote cameras after the standby timer is activated. Set the standby timer on the master camera to 5 minutes or more and start the timer at least 20 seconds before taking photographs.

- The procedure for accessing standby timer settings varies with the camera:
 - D6 and D5 cameras: Use Custom Setting c2 [**Standby timer**].
 - Z 9 cameras: Use Custom Setting c3 [**Power off delay**] > [**Standby timer**].

■ Standby Timer Settings for Remote Cameras

The NX Field system cannot be used to configure remote cameras or release the shutter after the standby timer expires. Configure the remote cameras so that the standby timers will not expire.

- The procedure for accessing standby timer settings varies with the camera:
 - D6 and D5 cameras: Use Custom Setting c2 [**Standby timer**].
 - Z 9 cameras: Use Custom Setting c3 [**Power off delay**] > [**Standby timer**].

☑ Z 9 Camera Monitors

Be sure that the monitors on the remote cameras show the shooting display. If they are used for playback or menu navigation while the cameras are not connected to the NX Field system, the displays will turn off on the expiration of the timers for Custom Setting c3 [**Power off delay**] > [**Playback**] or [**Menus**], even if [**No limit**] is selected for [**Standby timer**], preventing the receipt of further commands from a master camera, iPhone, or iPad.

🔧 D6 Standby Timers

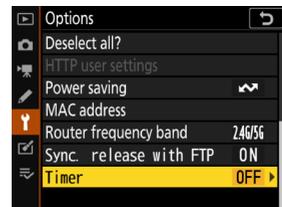
The standby timers on remote D6 cameras can be reactivated from the NX Field app (📖 121, 213).

Restarting the Standby Timer When Photography Is Scheduled (D6 and D5 Only)

Remote cameras can be configured to reactivate the standby timer at a set date and time. If you do not plan to start photography immediately after setting up the remote camera, a separate restart timer is available to delay activation of the standby timer until a specified time, reducing the drain on the camera battery.

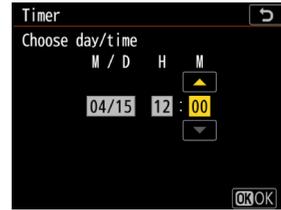
1. Enable the timer.

- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select [**Wired LAN/WT**] > [**Options**] > [**Timer**] > [**On**].
 - D5 cameras: In the setup menu, select [**Network**] > [**Options**] > [**Timer**] > [**On**].



2. Enter the date and time the remote camera standby timer will reactivate.

Choose a date within the next 21 days and a time between 0:00 and 23:59.



3. Select **[Start]**.

The standby timer will turn off after about four seconds and not start again until the specified time.

Cautions: The Restart Timer

- The remote camera takes about 30 seconds to reactivate once the selected date and time is reached.
- Once a date and time is set, the remote camera's standby timer can be started by pressing the shutter-release button halfway, but it will turn off again after about four seconds.
- Turning the camera off cancels the restart timer.

■ "Power Saving" (D6 and D5 Only)

To prevent lost connections, select "prioritize network speed" on the remote and master cameras.

- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select **[Wired LAN/WT] > [Options] > [Power saving] > [Prioritize network speed]**.
 - D5 cameras: In the setup menu, select **[Network] > [Options] > [Power saving] > [Prioritize network speed]**.



Add the Remote Cameras to the List on the Master Camera

A master camera can be used to release the shutters on remote cameras in the same group (☐ 20) only after they have been added to the master camera's remote camera list.

1. Display the remote camera list on the master camera.
 - The procedure varies with the camera:
 - D6 cameras: In the setup menu, select [**Wired LAN/WT**] > [**Options**] > [**Sync. release with FTP**] > [**On**] > [**Remote camera list**].
 - D5 cameras: In the setup menu, select [**Network**] > [**Options**] > [**Sync. release with FTP**] > [**On**] > [**Remote camera list**].
 - Z 9 cameras: In the network menu, select [**Connect to other cameras**] > [**Remote camera list**].

2. In the remote camera list, highlight the desired slot and press 
 - Up to 10 cameras can be added to the list.
 - Remote camera settings will be displayed.

3. Display the IP address.
 - The procedure varies with the camera:
 - D6 and D5 cameras: Select [**IP address**].
 - Z 9 cameras: Select [**Address**].

4. Enter the IP address assigned to a remote camera (book 17).

- The procedure varies with the camera:
 - D6 and Z 9 cameras: Rotate the main command dial to highlight digits, press  or  to change, and press the center of the multi selector to accept.
 - D5 cameras: Press  or  to highlight digits and  or  to edit the highlighted value.



5. Press  (D6 and D5 cameras) or  (Z 9 cameras).

The remote camera will be added to the master camera's remote camera list.

- Repeat Steps 2 through 5 for each camera you wish to add to the list.
- Enable the connection to the remote camera. The procedure varies with the camera:
 - D6 and D5 cameras: Select [**Remote connection**] > [**Enable**].
 - Z 9 cameras: Select [**Connect to remote camera**] > [**ON**].

■ Viewing Remote Camera Connection Status

Remote camera connection status can be viewed on the master camera.

- Remote camera connection status is displayed in the remote camera list on the master camera.

Item	Description
Connected (shooting time)	Normal connection. If the remote camera shutter has been released, the status display will also show the time the most recent picture was taken.
Busy	The camera is being controlled from another master camera or the NX Field app.
Error	<ul style="list-style-type: none">• The remote camera standby timer has expired.• The remote camera is off.• The connection with the remote camera is disabled (☞ 20).• The master and remote cameras are not in the same group (☞ 20).• Incorrect IP address (☞ 15).• IP address not specified (Z 9“C” firmware versions earlier than 2.11).
OFF	<ul style="list-style-type: none">• IP address not specified (Z 9“C” firmware version 3.00 or later, D6, D5).• [Connect to remote camera] (Z 9) or [Remote connection] (D6/D5) disabled (☞ 25).

Restrictions and Settings for Remote Cameras Controlled from the NX Field App

Adjust remote camera settings to avoid restrictions on the NX Field app's use of the shutter release or live view.

Live View Settings

The NX Field app will end live view if the monitors on the remote cameras turn off. Adjust settings so that the displays on the remote cameras will not turn off automatically.

- The procedure varies with the camera:
 - D6 and D5 cameras: Select Custom Setting c4 **[Monitor off delay]** > **[Live view]** > **[No limit]**.
 - Z 9 cameras: Select Custom Setting c3 **[Power off delay]** > **[Standby timer]** > **[No limit]**.

The Live View (or Photo/Video) Selector

- When taking photographs or recording video using the NX Field app, set the remote camera live view (or in the case of the Z 9, photo/video) selectors to . Selecting  restricts access to features on certain cameras.
- You will also need to set the remote camera live view (or in the case of the Z 9, photo/video) selectors to  when filming videos remotely from an iPad. Videos can be filmed by selecting the  **Video** (video) tab in the NX Field app's tiled or main/secondary live view display.

Deleting Files After Upload

Enabling the option on remote cameras to automatically delete pictures after upload may limit your ability to view images in the NX Field app. Disable this option.

- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select [**Wired LAN/WT**] > [**Options**] > [**Delete after send**] > [**No**].
 - D5 cameras: In the setup menu, select [**Network**] > [**Options**] > [**Delete after send**] > [**No**].
 - Z 9 cameras: In the network menu, select [**Connect to FTP server**] > [**Options**] > [**Delete after upload**] > [**OFF**].

Auto Send/Auto Upload

Enable auto upload to automatically upload pictures to the FTP server as they are taken.

- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select [**Wired LAN/WT**] > [**Options**] > [**Auto send**] > [**On**].
 - D5 cameras: In the setup menu, select [**Network**] > [**Options**] > [**Auto send**] > [**On**].
 - Z 9 cameras: In the network menu, select [**Connect to FTP server**] > [**Options**] > [**Auto upload**] > [**ON**].
- If you find that the NX Field app has trouble controlling cameras during auto upload due to bandwidth limitations or the like, we recommend that you select [**Off**] and manually select and upload pictures when photography is not in progress.

Image/Picture Review (D6 and Z 9 Only)

Disable the feature in the playback menu that displays pictures for review immediately after shooting. Enabling this feature will increase the amount of time needed for live view to resume after shooting.

Remote camera settings have now been adjusted for use with the NX Field app. Proceed to [Getting Ready: iPhones](#) (📖 31) if you are using an iPhone or to [Getting Ready: iPads](#) (📖 41) if you are using an iPad.

Getting Ready: iPhones

To use the NX Field system with an iPhone, install the NX Field app and connect an Ethernet cable.

Installing the NX Field App

Search for “NX Field App” on the App Store and install it on your iPhone.

The App Store

An Apple ID is required.

Connecting to an Ethernet Network

We recommend that NX Field system connections be made via Ethernet, as this ensures reliable remote camera control unaffected by variations in signal strength. Depending on the model of iPhone in question, Ethernet cables can be connected via a third-party Lightning adapter.

After connecting an Ethernet cable, launch the NX Field app and adjust settings as desired.

Connection Settings: iPhone

Before connecting to a network that employs the NX Field system, adjust connection settings and assign the iPhone an IP address.

☑ Connection Settings

Ask the network administrator for fixed IP addresses, subnet masks, and any other information you may need to enter.

1. Launch the iOS **[Settings]** app.
2. Select **[Ethernet]**.



☑ Wireless Networks

Although the NX Field system supports wireless connections, Ethernet connections are preferred for more reliable remote camera control unaffected by variations in wireless signal strength. When using a wireless network, enable Wi-Fi on the network to which the remote cameras are connected.

3. Choose the desired interface.



4. Tap [**Configure IP**] and select [**Manual**].



5. Enter an IP address and subnet mask and tap [**Save**].



☑ Entering an IP Address and Subnet Mask

When you first open the IPv4 configuration dialog, it will list dummy values for the IP address and subnet mask in gray. The [**Save**] button will only be available once new values have been entered manually. The new values will be lost if you return to the previous dialog without saving changes.

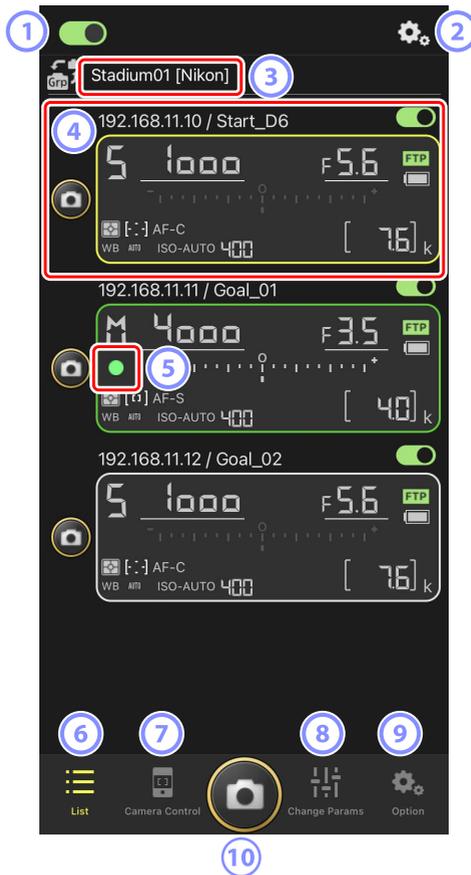
Adding Remote Cameras to the NX Field App

Add the remote cameras to the NX Field app.

■ Launching the NX Field App

The following dialog is displayed when the NX Field app is launched.

- No remote camera info (4) will be displayed until you have added at least one remote camera; instead, instructions for adding remote cameras will appear under the connection options (2).



① **Connection Switch** (📖 39)

Enable or disable the connection to the remote cameras listed under the current display name.

② **Connection/Camera Control Options**

Tapping this button in the dialog shown after launch displays remote camera connection settings (📖 38). In the camera control display (📖 71), you can tap it to view focus, playback, and other settings for remote cameras.

③ **Display Name and [Group Name]** (📖 36)

The display name and group name. Tap to switch display names.

④ **Remote Camera Info**

A series of displays mirroring the information in the cameras' top control panels, including shutter speed and exposure mode. Cameras can be controlled individually using shutter-release button to the left and the connection switch at the top right corner of each display.

⑤ **Memory Card Access Icon**

Lights while data are being recorded to the memory card in the remote camera.

⑥ **List** (📖 70)

Opens the list display.

⑦ **Camera Control** (📖 71)

Opens the camera control display.

⑧ **Change Parameters** (📖 72)

Opens the "change parameters" display.

⑨ **Options** (📖 73)

Opens the options display.

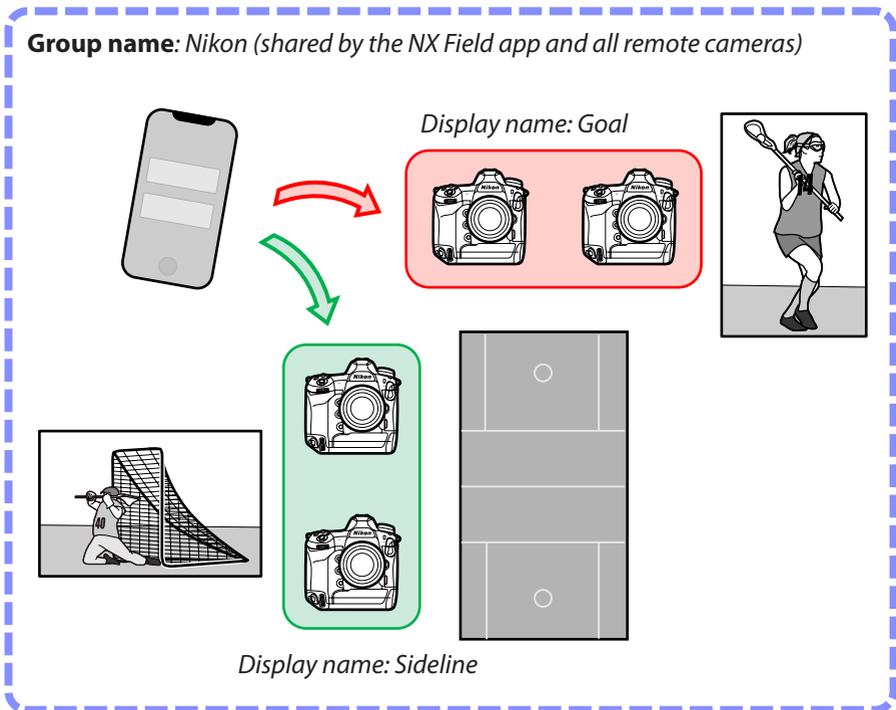
⑩ **Shutter-Release Button**

Releases the shutters on all cameras in the remote camera list with connection switches currently in the  (on) position.

■ Assigning Remote Cameras the Same Group Name in the NX Field App

Remote cameras assigned the same group names in the NX Field app can be added to the remote camera list.

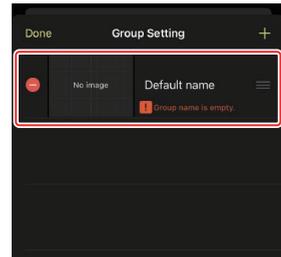
Grouping cameras by display name allows different groups with different display names to be used for different purposes (for example, to control cameras by location), making remote cameras easier to manage. The illustration below shows a group named “Nikon” consisting of four cameras, with the two positioned to photograph players from the front as they approach the goal given the display name “Goal”, and the two positioned on the sideline to photograph the scene in front of the goal from the side given the display name “Sideline”.



1. Tap  (options) and select [**Group Setting**].



2. Tap "Default name".

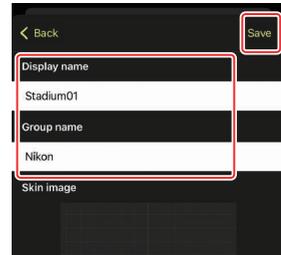


3. Enter a [**Display name**] and tap [**Save**].

The default [**Display name**] is "Default name".

You can enter a new name by tapping the default display name.

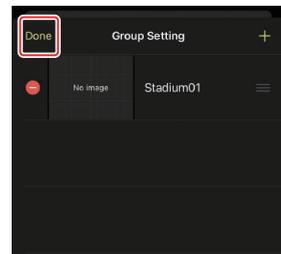
- Be sure the [**Group name**] matches that selected for [**Group name**] on the remote cameras ( 20).



4. Tap [**Done**].

The original "Default name" will be updated to the new name.

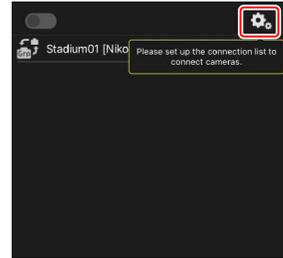
- To add a new display name, tap  in Step 2.



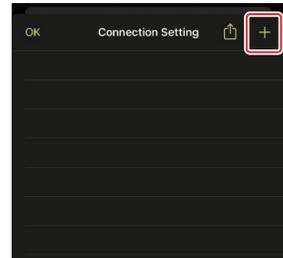
■ Assigning Display Names to Remote Cameras in the Current Group

Assigning remote cameras display names allows the NX Field app to control each set separately by name.

1. Tap the  (connection options) button in the list display.



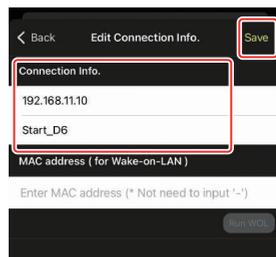
2. Tap .



3. Enter the IP address (📖 17) and a name for a camera in the remote camera list and tap **[Save]**.

The changes will be saved to the remote camera list in the NX Field app. Tap **[OK]** to close the dialog.

- Ignore leading zeros when supplying the IP address—for example, enter “1” in place of a segment entered on the camera as “001”.
- Names can be assigned as desired. You may find it helpful when taking pictures to name cameras by their locations or other easily-remembered attributes.
- Names can be up to eight single-byte characters long.
- Repeat Steps 2 through 3 for each camera you wish to add.

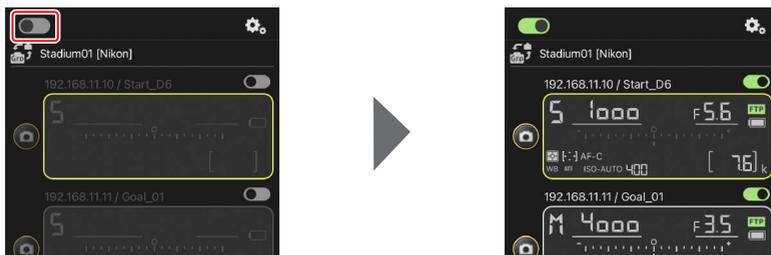


MAC Addresses

You need only supply MAC addresses if you intend to use the NX Field app's wake-on-LAN feature (📖 121) to restart the standby timers on remote cameras.

4. Tap the display name  (connection) switch.

The display name connection switch, as well as the connection switches for the cameras listed under the selected display name, will switch to  (on) as the NX Field connects to the remote cameras.

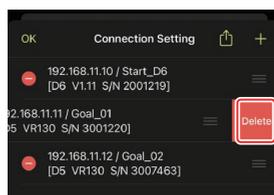
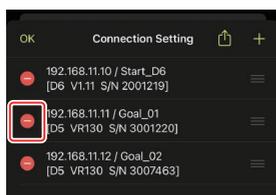


✔ Cautions: Adding Remote Cameras

- The NX Field app can list and connect to up to 10 remote cameras at a time.
- Only one iOS device can be used to control remote cameras, regardless of the number of iPhones or iPads in the group. The cameras will be controlled by the first iPhone or iPad to connect.

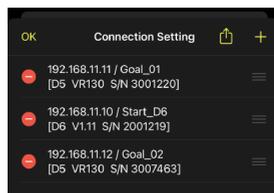
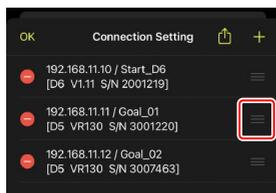
✎ Removing Cameras from the Remote Camera List

To remove a camera from the remote camera list, go to  (options) at the bottom of display, open [**Connection Setting**], the  icon for the camera in question, and tap [**Delete**].



✎ Re-ordering the Remote Camera List

To change the order of the cameras in the remote camera list, go to  (options), open [**Connection Setting**], and drag the  icons for the cameras in question up or down.



Your iPhone is now configured for use with the NX Field system. Proceed to [Remotely Taking and Selecting Pictures for Upload with an iPhone](#) (📖 68).

Getting Ready: iPads

Installing the NX Field App

Search for “NX Field App” on the App Store and install it on your iPad.



An Apple ID is required.

Connecting to an Ethernet Network

We recommend that NX Field system connections be made via Ethernet, as this ensures reliable remote camera control unaffected by variations in signal strength. Depending on the model of iPad in question, Ethernet cables can be connected via a third-party USB Type C or Lightning adapter.

After connecting an Ethernet cable, launch the NX Field app and adjust settings as desired.

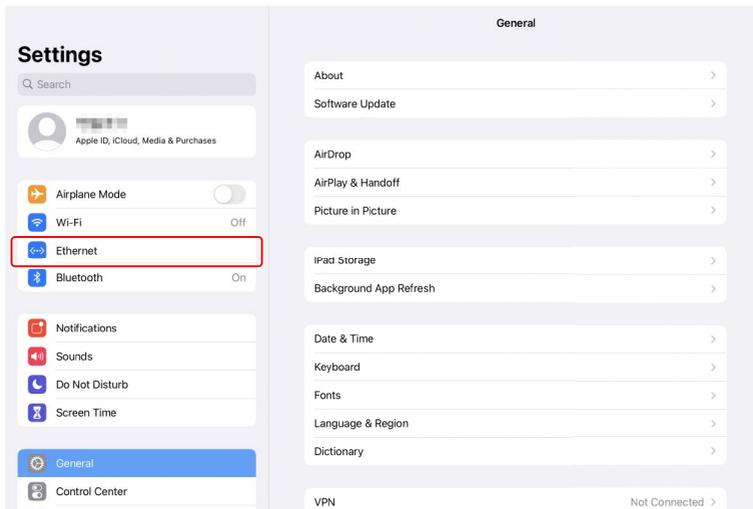
Connection Settings: iPad

Before connecting to a network that employs the NX Field system, adjust connection settings and assign the iPad an IP address.

☑ Connection Settings

Ask the network administrator for fixed IP addresses, subnet masks, and any other information you may need to enter.

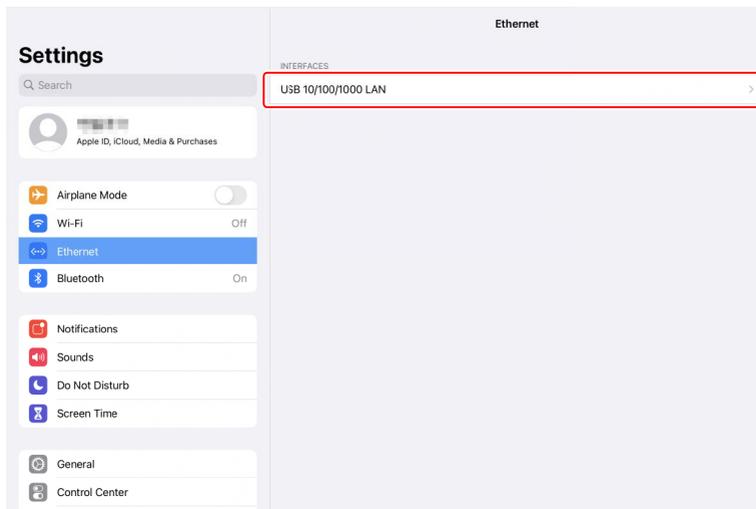
1. Launch the iOS **[Settings]** app.
2. Select **[Ethernet]**.



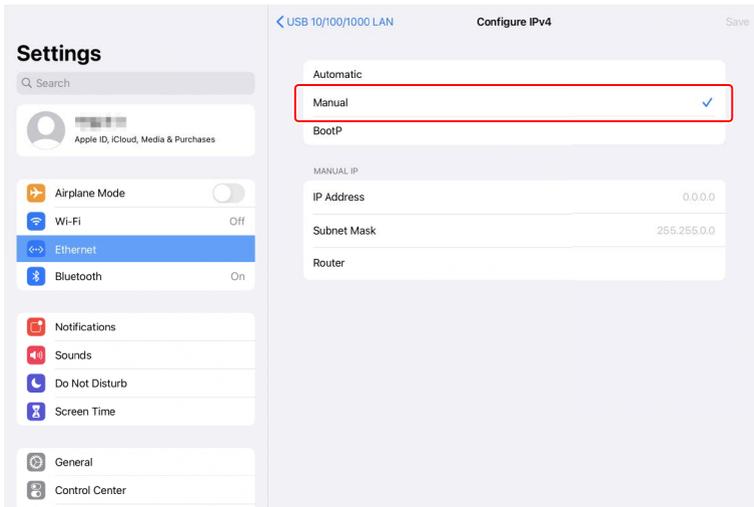
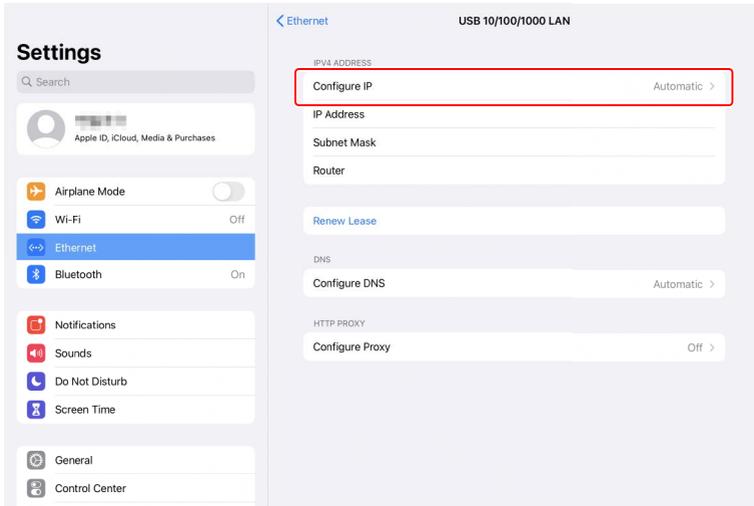
☑ Wireless Networks

Although the NX Field system supports wireless connections, Ethernet connections are preferred for more reliable remote camera control unaffected by variations in wireless signal strength. When using a wireless network, enable Wi-Fi on the network to which the remote cameras are connected.

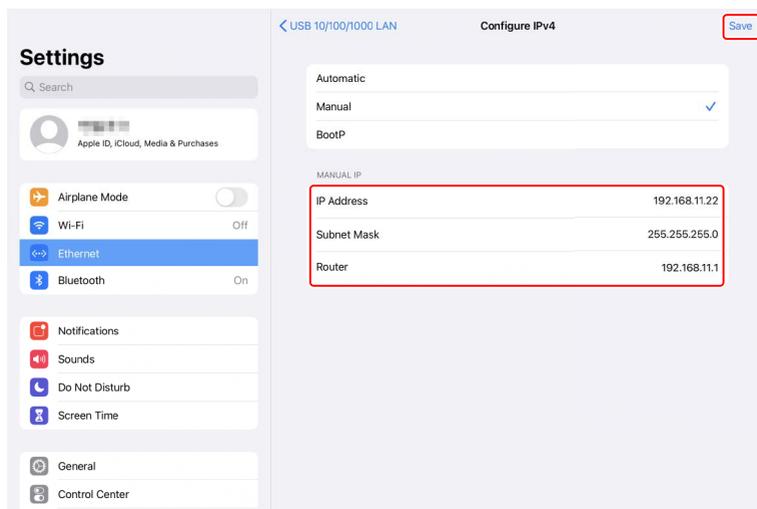
3. Choose the desired interface.



4. Tap [Configure IP] and select [Manual].



5. Enter an IP address and subnet mask and tap **[Save]**.



✓ Entering an IP Address and Subnet Mask

When you first open the IPv4 configuration dialog, it will list dummy values for the IP address and subnet mask in gray. The **[Save]** button will only be available once new values have been entered manually. The new values will be lost if you return to the previous dialog without saving changes.

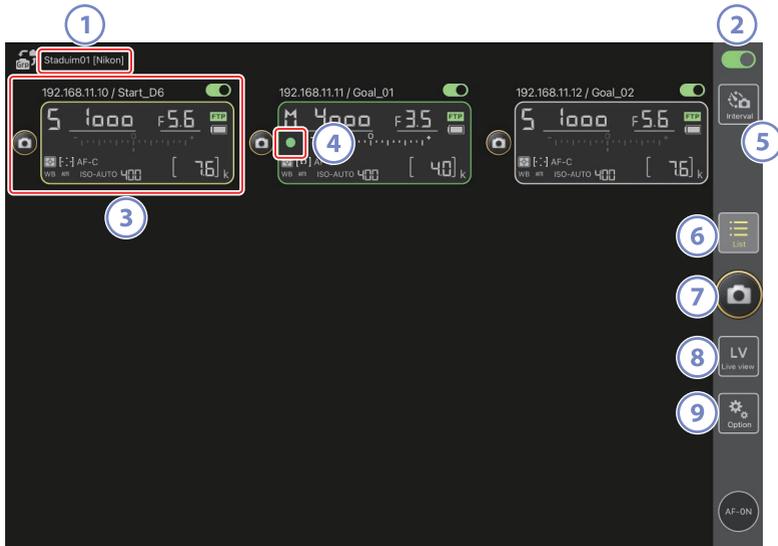
Adding Remote Cameras to the NX Field App

Add the remote cameras to the NX Field app.

■ Launching the NX Field App

The following dialog is displayed when the NX Field app is launched.

- No remote camera info (3) will be displayed until you have added at least one remote camera; instead, instructions for adding remote cameras will appear over the connection options (9).



① **Display Name and [Group Name]** (📖 48)

The display name and group name. Tap to switch display names.

② **Connection Switch** (📖 55)

Enable or disable the connection to the remote cameras listed under the current display name.

③ **Remote Camera Info**

A series of displays mirroring the information in the cameras' top control panels, including shutter speed and exposure mode. Cameras can be controlled individually using shutter-release button to the left and the connection switch at the top right corner of each display. Touch and hold to display menus for camera controls and settings.

④ **Memory Card Access Icon**

Lights while data are being recorded to the memory card in the remote camera.

⑤ **Interval-Timer Photography** (📖 169)

Display interval-timer options.

⑥ **List** (📖 131)

Opens the list display.

⑦ **Shutter-Release Button**

Releases the shutters on all cameras in the remote camera list with connection switches currently in the  (on) position.

⑧ **Live View**

Opens the live view display. Choose from tile (📖 137), main/secondary (📖 138), and "skin" (📖 139) views and take photographs or adjust camera settings.

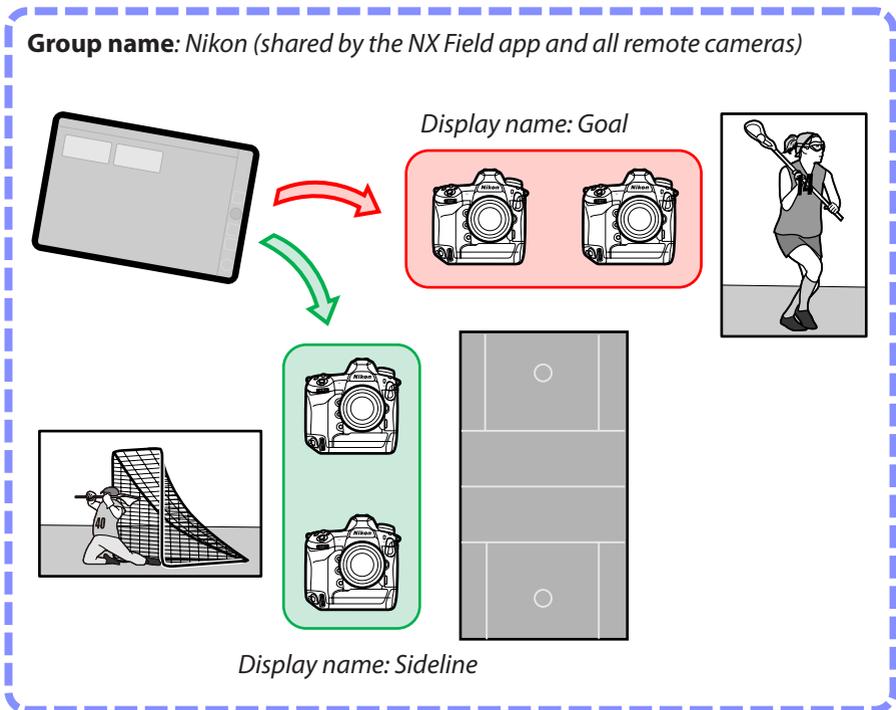
⑨ **Options** (📖 136)

Opens the options display.

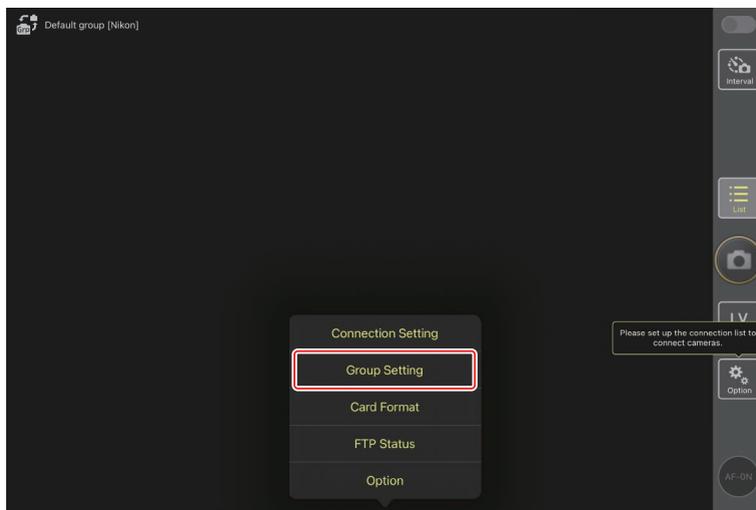
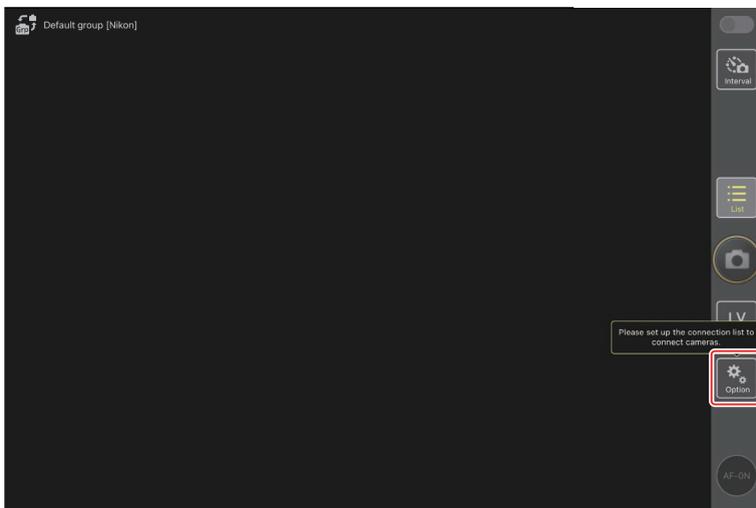
■ Assigning Remote Cameras to the Same Group in the NX Field App

Remote cameras assigned the same group names in the NX Field app can be added to the remote camera list.

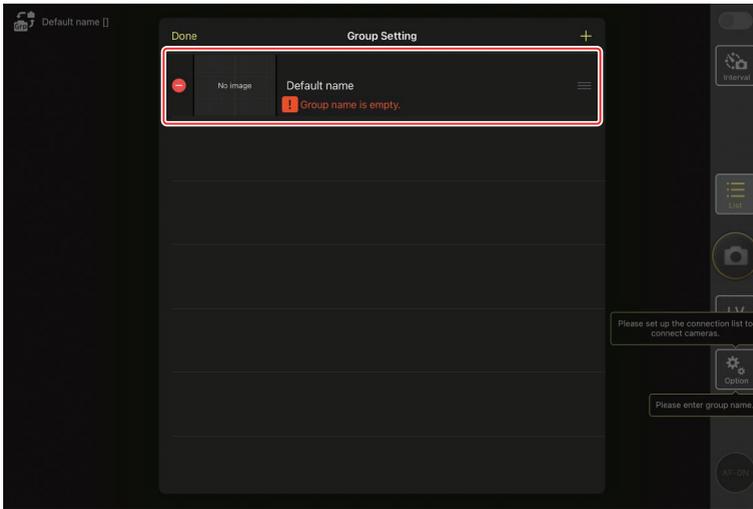
Grouping cameras by display name allows different groups with different display names to be used for different purposes (for example, to control cameras by location), making remote cameras easier to manage. The illustration below shows a group named “Nikon” consisting of four cameras, with the two positioned to photograph players from the front as they approach the goal given the display name “Goal”, and the two positioned on the sideline to photograph the scene in front of the goal from the side given the display name “Sideline”.



1. Select [**Group Setting**] under  (options).



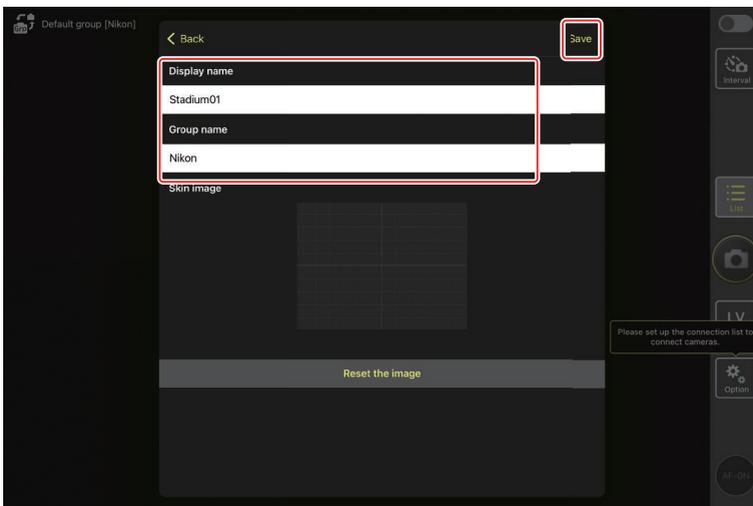
2. Tap "Default name".



3. Enter a [Display name] and tap [Save].

The default [Display name] is "Default name". You can enter a new name by tapping the default display name.

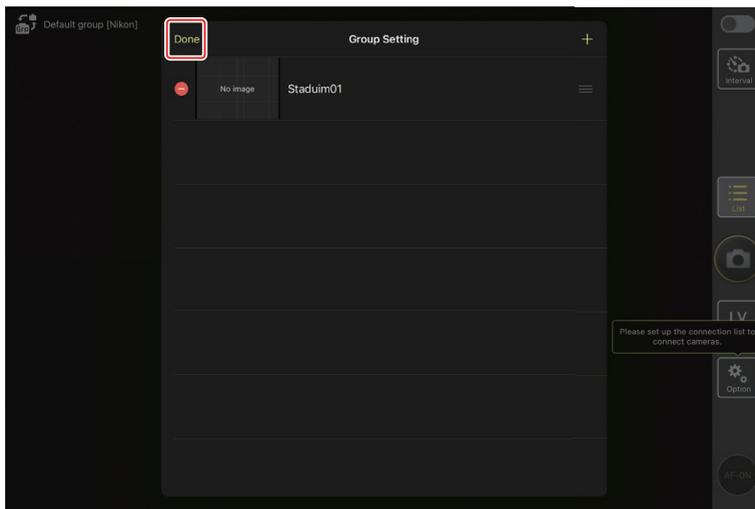
- Be sure the [Group name] matches that selected for [Group name] on the remote cameras (📖 20).



4. Tap **[Done]**.

The original “Default name” will be updated to the new name.

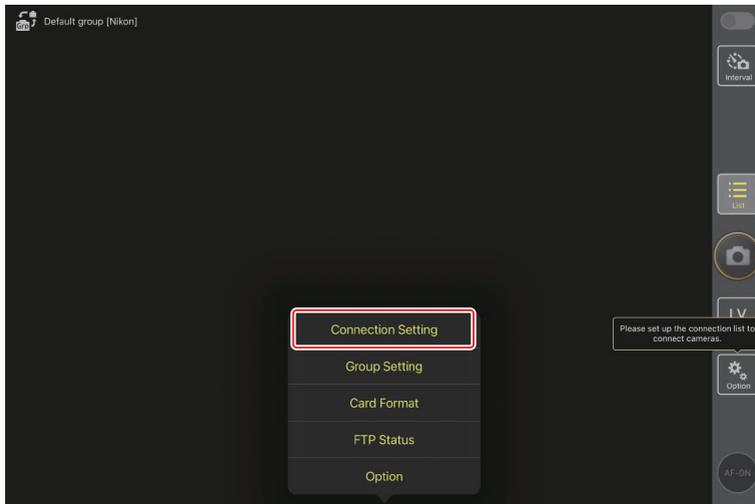
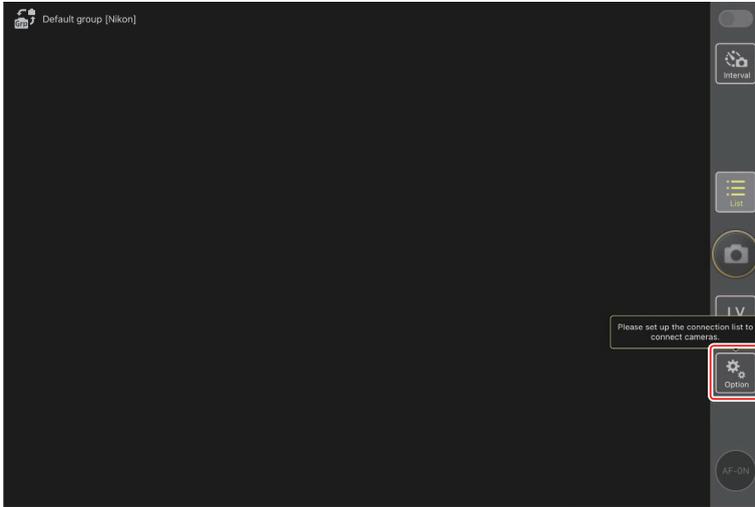
- To add a new display name, tap  in Step 2.



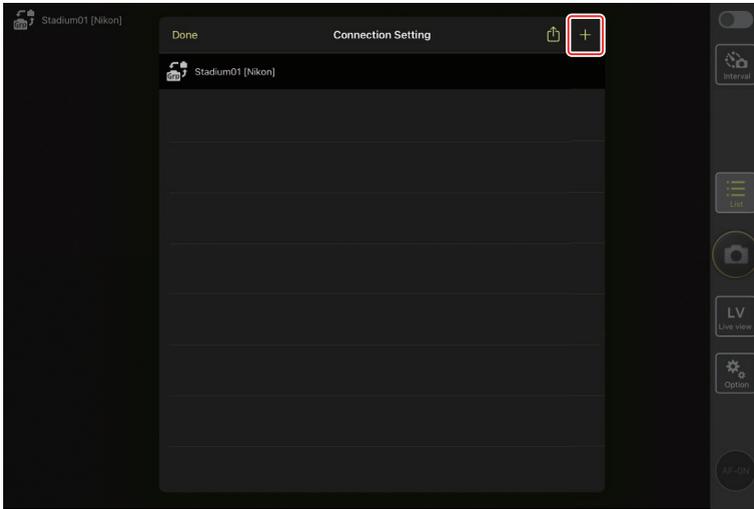
■ Assigning Display Names to Remote Cameras in the Current Group

Assigning remote cameras display names allows the NX Field app to control each set separately by name.

1. Select [**Connection Setting**] under  (options).



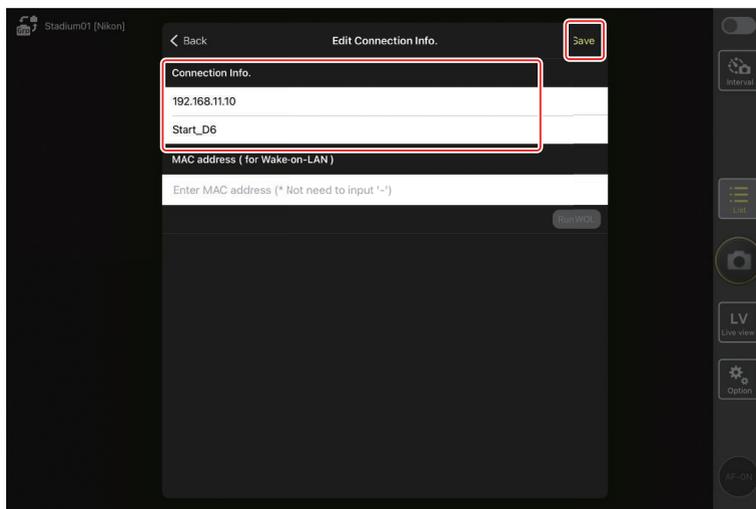
2. Tap .



3. Enter the IP address (📖 17) and a name for a camera in the remote camera list and tap **[Save]**.

The changes will be saved to the remote camera list in the NX Field app. Tap **[Done]** to close the dialog.

- Ignore leading zeros when supplying the IP address—for example, enter “1” in place of a segment entered on the camera as “001”.
- Names can be assigned as desired. You may find it helpful when taking pictures to name cameras by their locations or other easily-remembered attributes.
- Names can be up to eight single-byte characters long.
- Repeat Steps 2 through 3 for each camera you wish to add.

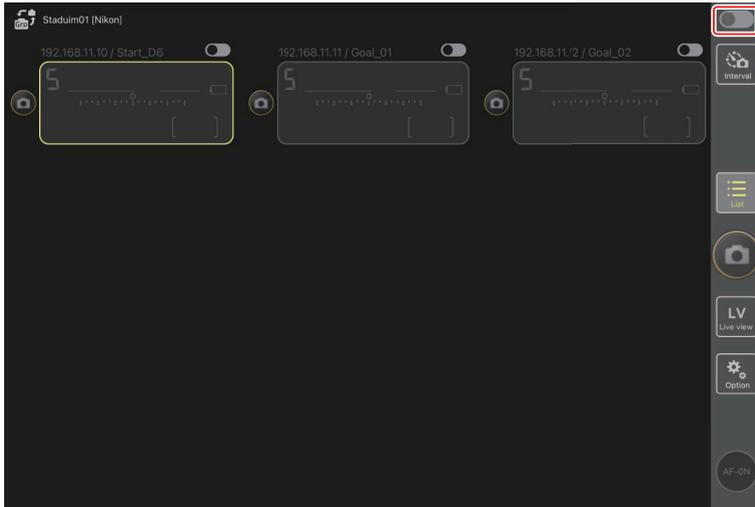


MAC Addresses

You need only supply MAC addresses if intend to use the NX Field app's wake-on-LAN feature (📖 213) to restart the standby timers on remote cameras.

4. Tap the display name  (connection) switch.

The display name connection switch, as well as the connection switches for the cameras listed under the selected display name, will switch to  (on) as the NX Field app connects to the remote cameras.

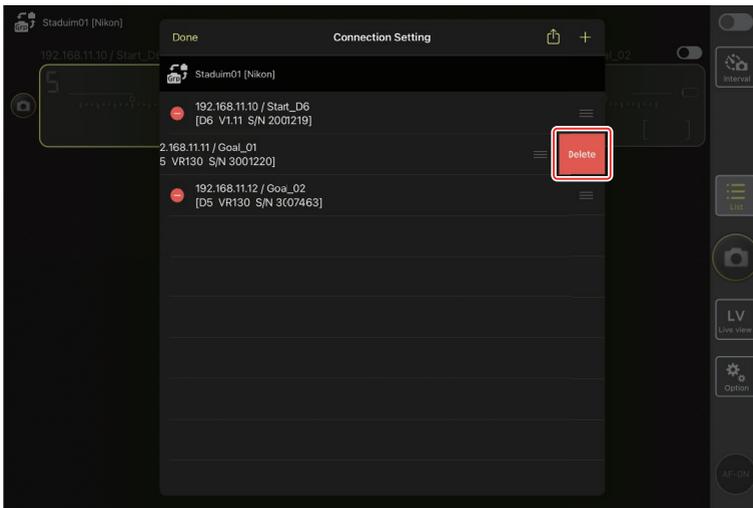
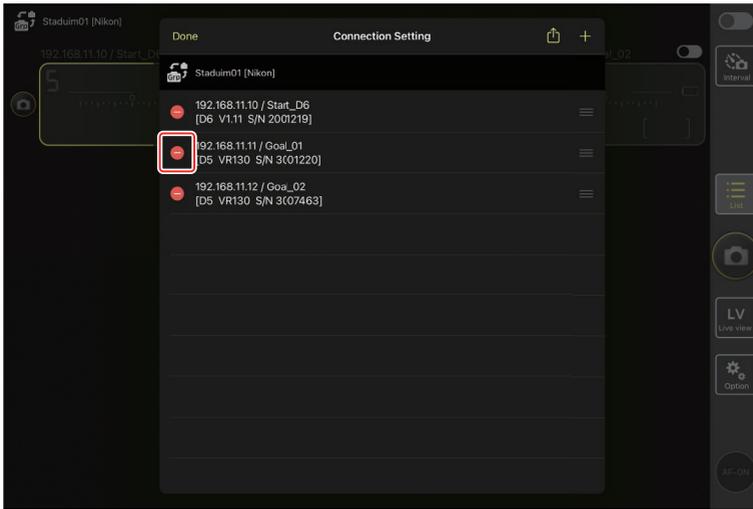


☑ Cautions: Adding Remote Cameras

- The NX Field app can list and connect to up to 10 remote cameras at a time.
- Only one iOS device can be used to control remote cameras, regardless of the number of iPhones or iPads in the group. The cameras will be controlled by the first iPhone or iPad to connect.

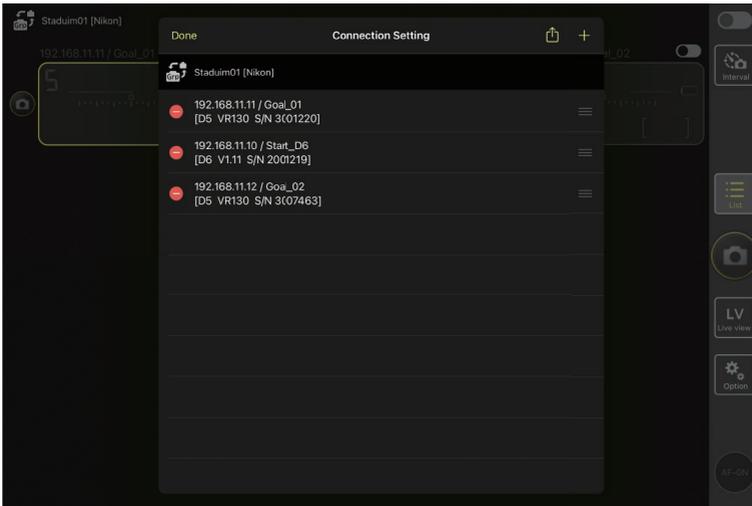
✎ Removing Cameras from the Remote Camera List

To remove a camera from the remote camera list, go to  (options), open **[Connection Setting]**, tap the camera in question, tap , and tap **[Delete]**.



Re-ordering the Remote Camera List

To change the order of the cameras in the remote camera list, go to  (options), open [**Connection Setting**], and drag the  icons for the cameras in question up or down.



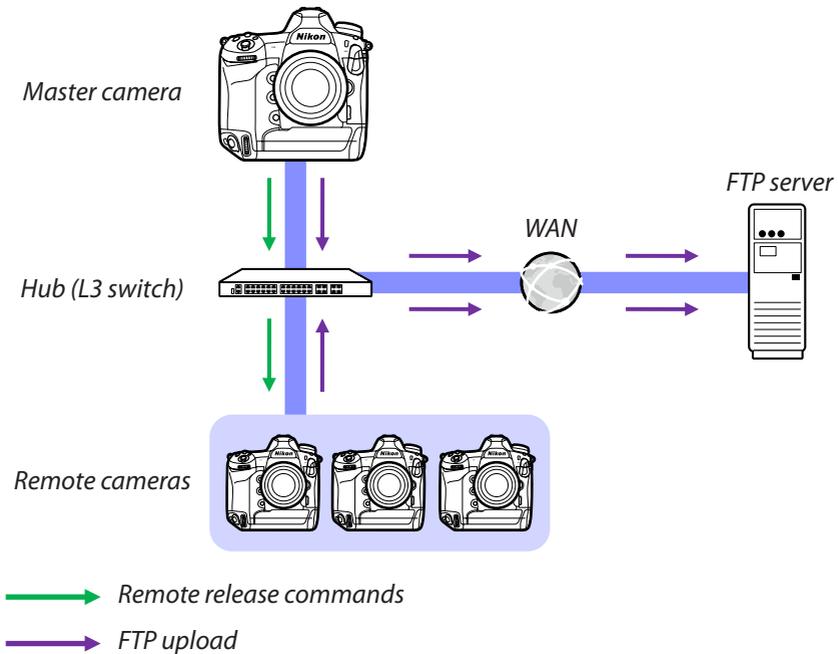
Your iPad is now configured for use with the NX Field system. Proceed to [Remotely Taking and Selecting Pictures for Upload with an iPad](#) (📖 128).



Taking and Uploading Pictures with Master and Remote Cameras (Synchronized Release)

Synchronized Release

“Synchronized release” allows the shutters on one or more remote cameras to be released by pressing the shutter-release button on a master camera. Using NX Field, you can synchronize the releases on up to ten remote cameras with a master camera and upload the pictures to an FTP server.



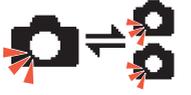
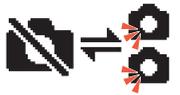
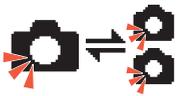
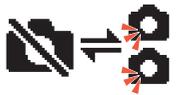
☑ The Z 9 Photo/Video Selector

Before taking photographs using a Z 9 functioning in the remote camera role, rotate the photo/video selector to . No photographs can be taken when  is selected.

Synchronized Release Settings

The [**Sync. release mode options**] item in the Custom Settings menu controls whether releasing the shutter on the master camera also releases the shutters on the remote cameras.

- For flexible remote photography adapted to the situation, assign [**Sync. release selection**] to a control using the [**Custom controls**] or [**Custom control assignment**] item in the Custom Settings menu.
- Custom controls (including synchronized release selection) and synchronized release mode options can respectively be found in the Custom Settings menu at:
 - D6 cameras: f3 [**Custom controls**] and d4 [**Sync. release mode options**].
 - D5 cameras: f1 [**Custom control assignment**] and d4 [**Sync. release mode options**].
 - Z 9 cameras: f2 [**Custom controls (shooting)**] and d5 [**Sync. release mode options**].

[Sync. release mode options]	Shutter-release button pressed	[Sync. release selection]	Custom control* + shutter-release button
[Sync]	 <i>Master</i> <i>Remote</i>	[Master release only]	 <i>Master</i> <i>Remote</i>
		[Remote release only]	 <i>Master</i> <i>Remote</i>
[No sync]	 <i>Master</i> <i>Remote</i>	[Synchronized release]	 <i>Master</i> <i>Remote</i>
		[Remote release only]	 <i>Master</i> <i>Remote</i>

* The control assigned [Sync. release selection].

 **Control Assignments Reset**

Changing the option selected for Custom Setting d4 [Sync. release mode options] resets [Sync. release selection].

Viewing Remote Camera Status

Release and FTP upload status for remote cameras can be viewed in the master camera's remote camera list.

1. Display the remote camera list.

- The procedure varies with the camera:
 - D6 cameras: In the setup menu, select [**Wired LAN/WT**] > [**Options**] > [**Sync. release with FTP**] > [**On**] > [**Remote camera list**].
 - D5 cameras: In the setup menu, select [**Network**] > [**Options**] > [**Sync. release with FTP**] > [**On**] > [**Remote camera list**].
 - Z 9 cameras: In the network menu, select [**Connect to other cameras**] > [**Remote camera list**].
- The remote camera list will be displayed. The label [**Connected**] next to a remote camera indicates that a connection has been successfully established.
- The entries for the remote cameras used for synchronized release will show the time of the most recent shot.

2. Select the desired camera.

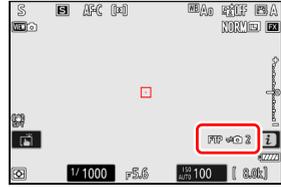
- Highlighting a remote camera with the [**Connected**] label and pressing  displays the number of images awaiting upload from the camera via FTP, FTP connection status, the battery level, and the number of exposures remaining.

☑ Remote Camera Control Priority

- If multiple cameras in a given group have been chosen as master cameras, the NX Field system will assign the role to the first camera on. Only one camera can function in the “master camera” role at a time.
- Connections to remote cameras from an iPhone or iPad via the NX Field app take priority over connections from a master camera. Control will be passed back to the master camera when you end the connection from the NX Field app. Cameras controlled from other master cameras or from the NX Field app are labeled [**Busy**] in the master camera’s remote camera list.
- From Z 9 “C” firmware version 3.00, you can use a custom control to transfer control of remote cameras from the current master camera to a Z 9 configured to function in the master camera role.
 - Assign [**Override other cameras**] to a control using Custom Setting f2 [**Custom controls (shooting)**].
 - Press the control to which [**Override other cameras**] has been assigned to promote the camera to the role of a master camera in control of the remote cameras within its current group in the NX Field system.
 - Control can be transferred to the master camera by means of a custom control even if the remote cameras are currently being controlled from the NX Field app.

Viewing Remote Camera Status in the Master Camera Shooting Display

From “C” firmware version 3.00, the shooting displays for Z 9 cameras functioning in the master camera role will show the number of remote cameras currently listed as **[Connected]**. This does not apply if the master camera photo/video selector is rotated to .



- **[FTP]** will appear in the master camera shooting display if any of the remote cameras are connected to an FTP server.
- If any of the remote cameras is currently listed as **[Busy]** or **[Error]**, the **[FTP]** and camera icons and the number of cameras will be shown in red, and  will appear in the camera icon. In this case, the display shows the number of cameras with which no connection could be established.

Autofocus Settings for Remote Cameras

Autofocus settings for remote cameras must be adjusted according to whether or not autofocus is to be synchronized with the master camera.

Focusing the Remote Cameras Using Autofocus

To have the remote cameras focus at the same time as the master camera, enable AF activation using the shutter-release button.

- The procedure varies with the camera:
 - D6 and Z 9 cameras: Select [**Shutter/AF-ON**] for Custom Setting a6 [**AF activation**].
 - D5 cameras: Select [**Shutter/AF-ON**] for Custom Setting a8 [**AF activation**].

Having the Remote Cameras Focus at a Fixed Distance

To disable autofocus and have the remote cameras focus at a pre-selected distance, disable AF activation using the shutter-release button.

- The procedure varies with the camera:
 - D6 and Z 9 cameras: Select [**AF-ON only**] for Custom Setting a6 [**AF activation**].
 - D5 cameras: Select [**AF-ON only**] for Custom Setting a8 [**AF activation**].

Adjusting Autofocus Settings from the NX Field App

Autofocus settings for remote cameras can be adjusted from your iPhone or iPad using the NX Field app (📖 86, 175).

Remotely Taking and Selecting Pictures for Upload with an iPhone

iPhones running the NX Field app can be used to adjust settings or release the shutters on remote cameras and select pictures for upload via FTP.

Video Recording.....

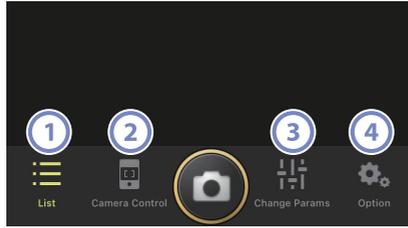
The iPhone edition of the NX Field app does not support video recording.

Uploading Pictures via FTP.....

The pictures uploaded to FTP servers using the NX Field app are not the copies stored on the iPhone but the original pictures stored on the camera memory card.

NX Field App Displays

The NX Field app offers a choice of four displays: “list”, “camera control”, “change parameters”, and “options”. Use the controls at the bottom to switch displays.



Control	Name	Description
①	List (📖 70)	Lists the remote cameras with the current display name.
②	Camera Control (📖 71)	Opens the camera control display.
③	Change Params (📖 72)	Opens the “change parameters” display.
④	Options (📖 73)	Used for such tasks as adjusting remote camera network, group, and FTP profile settings or formatting memory cards.

The List Display

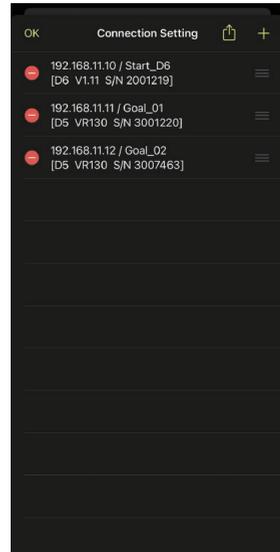
View information for the cameras in the remote camera list.

- The shutters on all cameras with connection switches currently in the  (on) position can be released simultaneously ( 75).
- Shutters for selected cameras can also be released individually ( 77).
- If you have created multiple display names, you can switch between them by tapping the  (display) button.



Connection Options

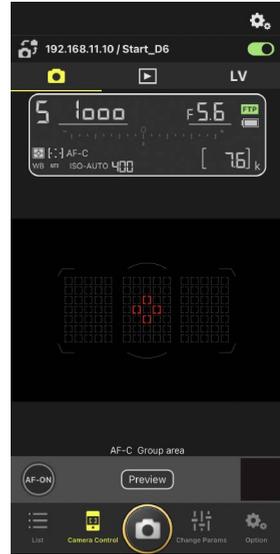
Tapping the  (connection options) button in the list display opens [**Connection Setting**] ( 38).



The Camera Control Display

Camera controls can be viewed by tapping remote cameras or the  (camera control) button in the list display.

- Focus controls are available in the  (camera) tab (📖 78). They cannot, however, be used with mirrorless cameras.
- The  (playback) tab can be used to view pictures taken with the remote camera. You can also delete pictures or upload them to an FTP server (📖 97).
- In the **LV** (LV) tab, you can take pictures while viewing a live image from the remote camera (📖 81).



Camera Control Options

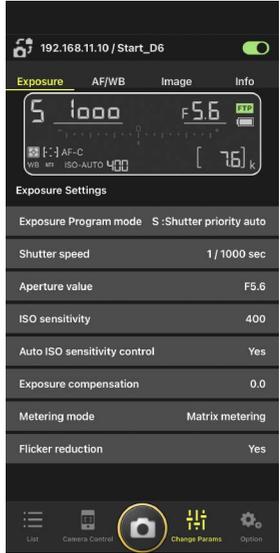
To display camera control settings for the current tab, tap the  (camera control options) button in the camera control display.

	Tab	Description	📖
	Camera	Adjust focus-related settings. *	📖 86
	Playback	Adjust settings for the playback display. *	📖 99
LV	LV	Adjust settings for live view. *	📖 85

* The options available vary with the camera.

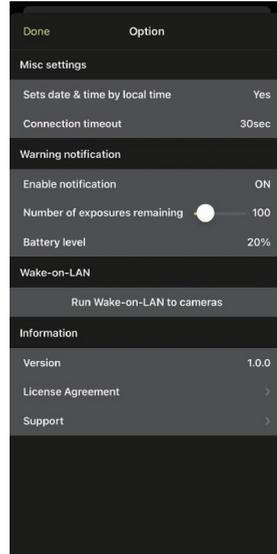
The “Change Parameters” Display

Adjust exposure, autofocus, image quality, and other settings for the remote camera selected in the list display (89).



The Options Display

Used for such tasks as adjusting remote camera network, group, and FTP profile settings or formatting memory cards (📖 126).



Taking Pictures with the NX Field App

In the NX Field app, remote camera shutters can be released from either the list display or live view.

Video Recording

The iPhone edition of the NX Field app does not support video recording.

Taking Pictures in the List Display

⚠ Caution: Taking Pictures in the List Display

The live image stream and shutter-release button response may lag if you switch to live view immediately after taking a burst of pictures in the list display.

■ Taking Pictures with Multiple Remote Cameras

Tapping the  (shutter-release) button at the bottom of the list display releases the shutters on all remote cameras with connection switches currently in the  (on) position.

- The remote camera info for the camera in question is highlighted in green while photography is in progress.
- The memory card access ( 35) icon will light while pictures are being recorded to the memory card.
- The  (FTP) icon will flash while pictures are being uploaded to an FTP server.

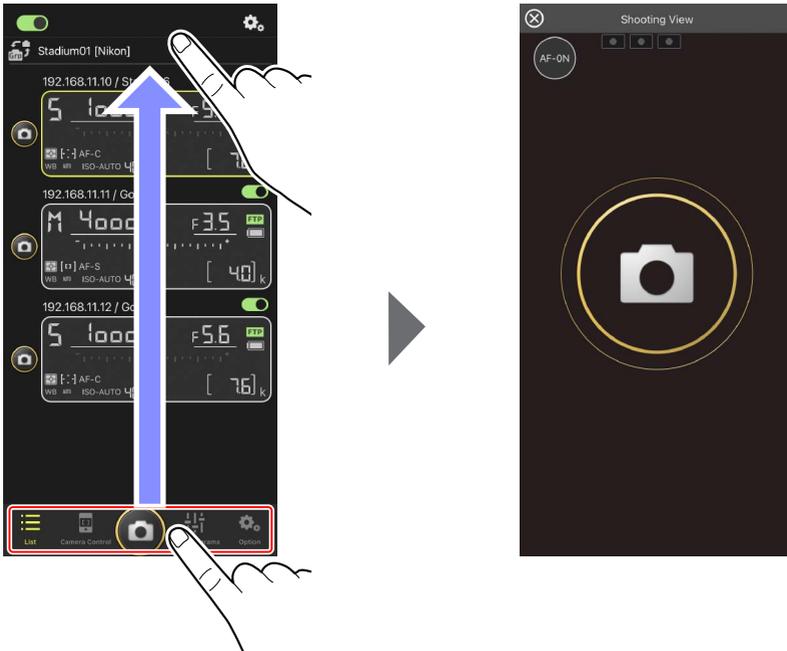


✎ Disabling the Release on Selected Cameras

The releases for selected cameras can be disabled by tapping the  (connection) switch at the top right corner of each camera's remote camera info.

Full-Screen Release Mode

To switch to full-screen release mode, swipe up from the gray area containing the  (shutter-release) button and other controls in the list display. This lets you take photographs without looking at the display so that you can focus all your attention on your subject.



- Tap the  (AF-ON) button to initiate focus operations on all connected remote cameras and tap it again to stop.
- Tap the display to release the shutters on all connected remote cameras.
- Tap the  at the top left corner of the screen to return to the list display.

■ Taking Pictures with a Single Camera

The shutter for a selected remote camera can be released by tapping its  (shutter-release) button in the list display.

- The remote camera info for the camera in question is highlighted in green while photography is in progress.
- The memory card access ( 35) icon will light while pictures are being recorded to the memory card.
- The  (FTP) icon will flash while pictures are being uploaded to an FTP server.

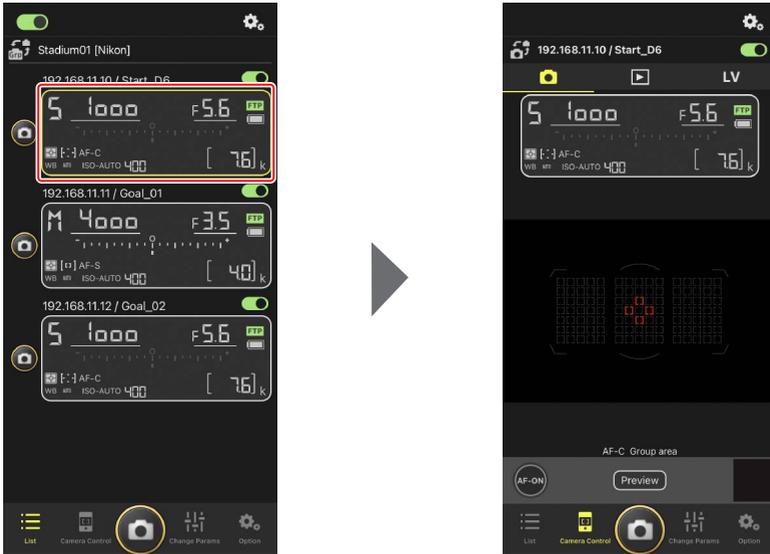


Adjusting Focus for a Selected Camera

You can focus selected remote cameras before taking pictures.

1. Select the remote camera by tapping it in the list display.

Controls for the selected camera will be displayed.



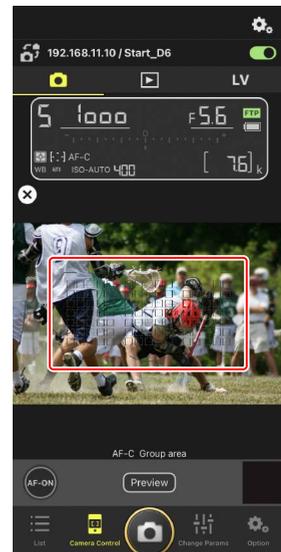
2. Select the  (camera) tab and tap the  (preview) button.

The app will retrieve a preview from the remote camera for reference during focusing. Note that the image is not live; if the subject moves, tap the  (preview) button again.



3. Tap to position the focus point.

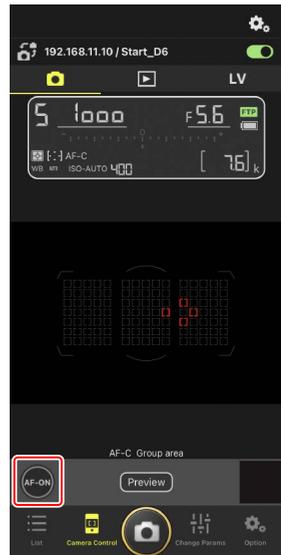
The focus point will move to the selected position.



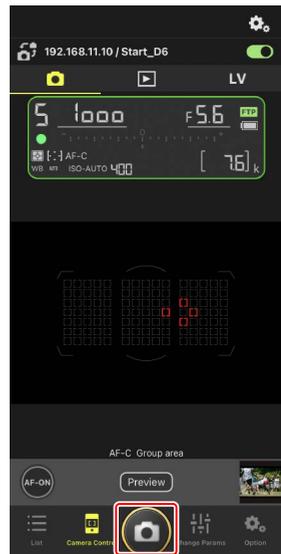
4. Touch and hold the  (AF-ON) button to focus.

The remote camera will focus on the subject in the selected focus point.

- The preview will clear from the display when you tap  (AF-ON) button. You can check focus by tapping the  (preview) button again to retrieve another preview.



5. Tap the  (shutter-release) button to take a picture.



Live View Photography

Live view lets you check the view from remote cameras while adjusting settings and taking pictures.

⚠ Caution: Live View Photography

Shutter-release button response may lag if you switch to the list display immediately after taking a burst of pictures in live view.

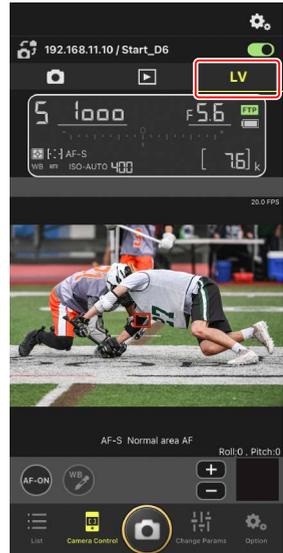
1. Select the remote camera by tapping it in the list display.

Controls for the selected camera will be displayed.



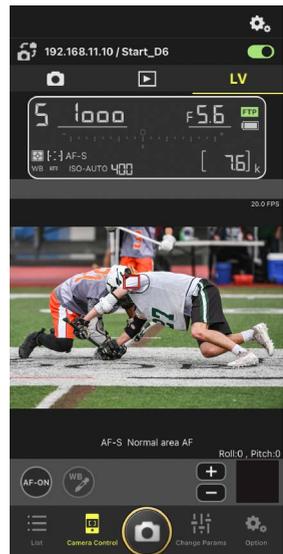
2. Tap the **LV** (LV) tab.

A live image from the remote camera will be displayed.

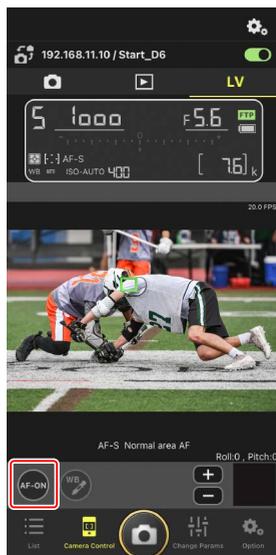


3. Tap to position the focus point.

The focus point will move to the selected position.



4. Touch and hold the  (AF-ON) button to focus.



AF Activation

Whether tapping the  (shutter-release) button initiates autofocus during live view photography varies with the camera:

- D6 and Z 9 cameras: Tapping the  (shutter-release) button will initiate autofocus provided [**Shutter/AF-ON**] is selected for Custom Setting a6 [**AF activation**].
- D5 cameras: Tapping the  (shutter-release) button does not initiate autofocus, even if [**Shutter/AF-ON**] is selected for Custom Setting a8 [**AF activation**].

Manual Focus Adjustment

If the lens focus-mode switch is set to M/A or A/M when autofocus is enabled on the camera, focus can be adjusted manually by tapping the  and  buttons. Each tap adjusts focus by the amount selected for **[MF driving amount]** in the  (camera control options) display.

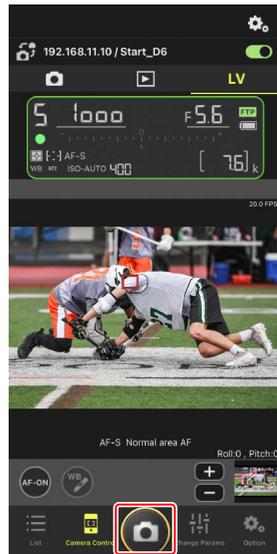
AF-ON Unavailable

Selecting **[AF-F]** for **[LV - AF mode]** disables the  (AF-ON) button for the remote camera in question. Select **[AF-S]** for  (camera control options) > **[LV - AF mode]** (📖 85).

Focusing at a Fixed Distance

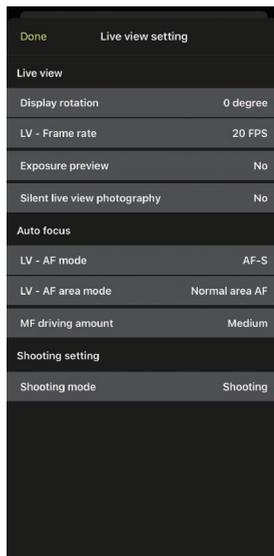
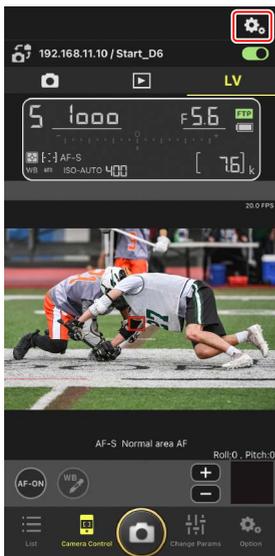
To focus at a fixed distance, select manual focus on the camera. Note that you cannot initiate autofocus or manually adjust the focus position from the NX Field app while focusing at a fixed distance.

5. Tap the  (shutter-release) button to take a picture.



■ Adjusting Live View Settings

Frame rate and other settings can be adjusted by tapping the  (camera control options) button in the live view display.



Adjusting Remote Camera Settings from the NX Field App

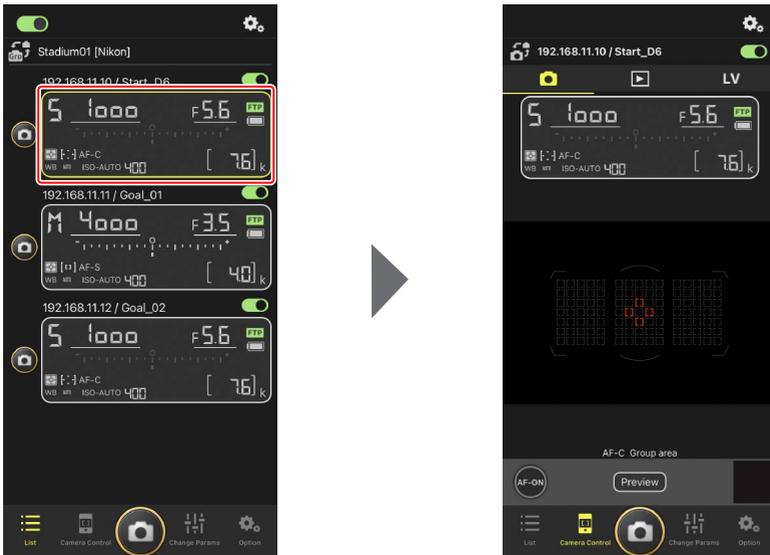
In the NX Field app, remote camera settings can be adjusted from displays of two types, one principally for focus-related settings and another for most other camera settings. The options available vary with the camera.

Adjusting Focus-Related Settings

The NX Field app can be used to choose the autofocus and AF-area modes and adjust other focus-related settings.

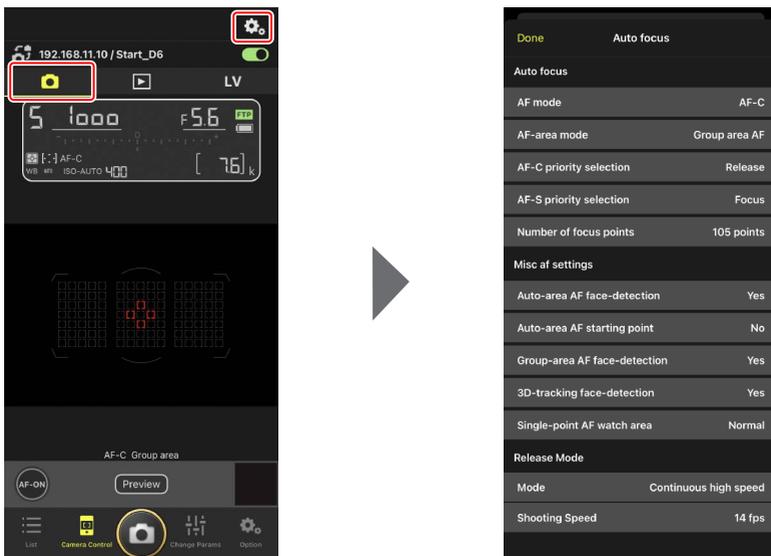
1. Select the remote camera by tapping it in the list display.

Controls for the selected camera will be displayed.



2. Select the  (camera) tab and tap  (camera control options).

You can adjust focus and release-mode settings for the selected remote camera. To do so, tap the desired settings.

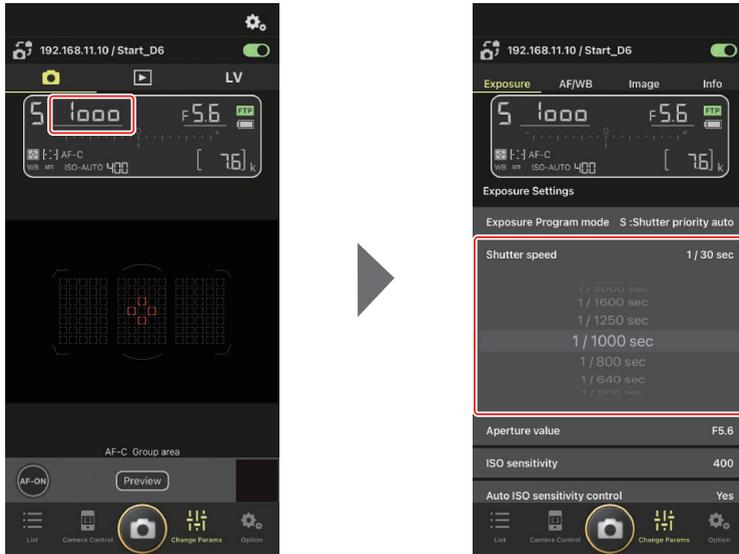


Frame Advance Rate

The frame advance rate (“shooting speed”) can be adjusted from the NX Field app only when the remote camera release mode dial is in the “quick release-mode selection” position.

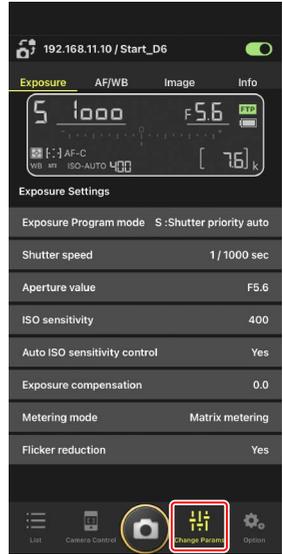
The Remote Camera Info Display

Settings can also be adjusted by tapping the items in the remote camera info display in the  (camera) tab of the NX Field app.



Adjusting Other Remote Camera Settings

Tapping the  (“change parameters”) button opens the “change parameters” display. You can adjust settings for the remote camera selected in the list display.



Choose a tab and tap the desired settings.

■ The [Exposure] Tab

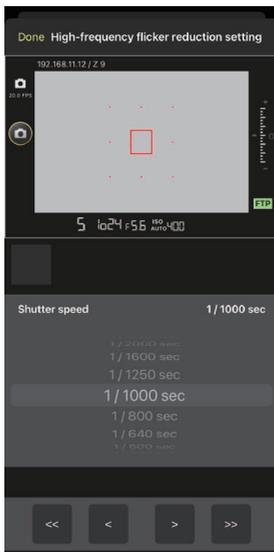
Adjust exposure settings, including exposure mode, shutter speed, and aperture.



High-Frequency Flicker Reduction

A [**High-frequency flicker reduction**] option is available when a Z 9 camera running “C” firmware version 2.10 or later is connected.

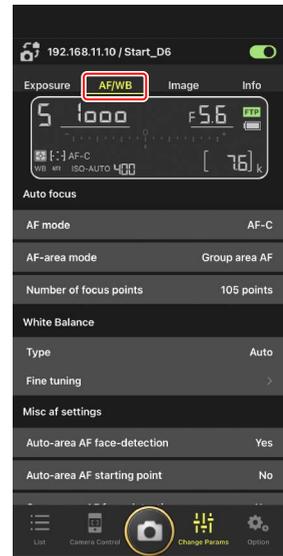
- Select [**Yes**] to enable [**High-frequency flicker reduction setting**]. You will then be able to adjust [**Shutter speed**] in smaller-than-normal increments while previewing the effect in the live view display. Tap **<<** or **>>** to adjust shutter speed by the amount selected on the remote camera. To adjust shutter speed in smaller increments, tap **<** or **>**.



- The shutter-speed display will show only the denominator, including the first digit following the decimal point.
- For more information on high-frequency flicker reduction, see the Z 9 Reference Guide.

■ The [AF/WB] Tab

Adjust autofocus and white balance settings. Some autofocus settings can also be accessed via camera control options (📖 86).

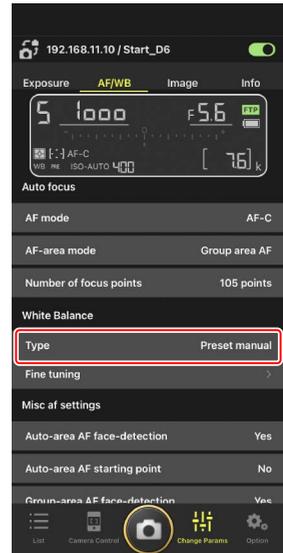


Measuring Spot White Balance

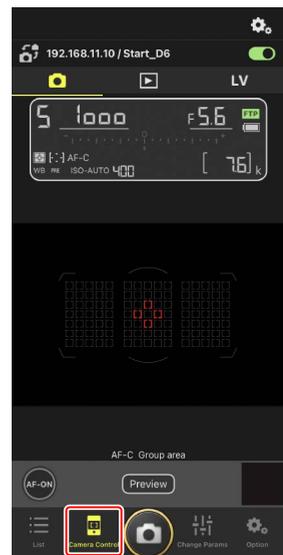
Spot white balance can be measured in the live view display when [**Preset manual**] is selected for white balance.

1. Select [**Preset manual**] for white balance.

White balance settings can be accessed from the [**AF/WB**] tab in the “change parameters” display.



2. Tap the camera control  (camera control) button.



3. Tap the **LV** (LV) tab.

A live image from the remote camera will be displayed.



4. Tap the **WB** (WB) button.

The button will turn yellow to indicate that direct measurement mode is selected.



5. Tap a neutral gray or white area of the subject.

If the measurement succeeds, the live view display will be highlighted in green and **[Success]** will be displayed.

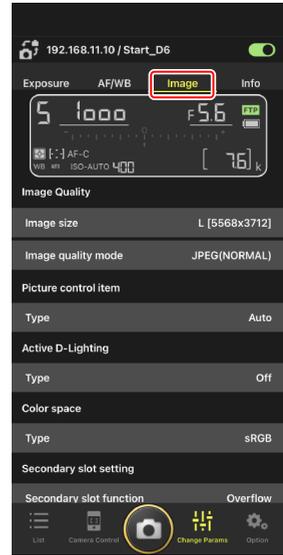
- If the live view display is not highlighted in green, tap a neutral gray or white area of the subject again.



6. Tap the  (WB) button again to exit direct measurement mode.

The [Image] Tab

Adjust image quality, Picture Controls, and other image-related settings.



The [Info] Tab

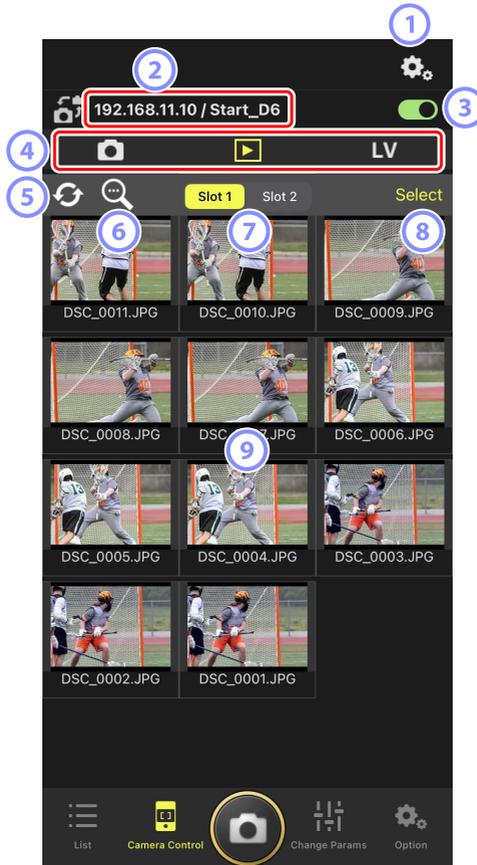
Select the data saved with pictures, including IPTC information and image comments.



Viewing Pictures with the NX Field App

Viewing Pictures (Thumbnail Playback and Playback Zoom)

To view the pictures on the memory cards in the remote cameras, tap the  (playback) tab in the camera control display.



① **Camera Control Options**

Adjust settings for the playback display (📖 99).

② **IP Address/Name (📖 38)**

The IP address and name.

③ **Connection Switch**

Enable or disable the connection to the source camera.

④ **Camera, Playback, and LV Tabs**

Choose the tab to be displayed.

⑤ **Refresh**

Refresh the thumbnail display.

⑥ **Find**

Filter pictures by protection status or date of recording.

⑦ **Slot Selection**

Choose the slot containing the memory card from which pictures will be played back.

⑧ **[Select]**

Tap to enable picture selection.

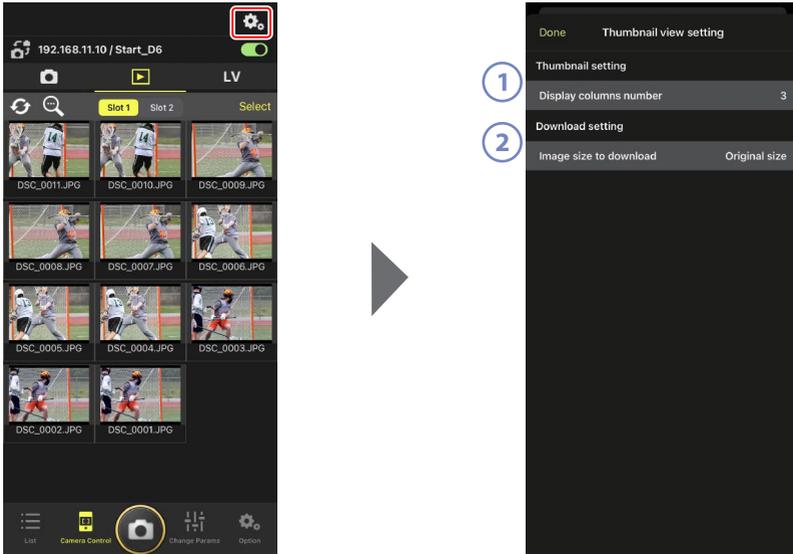
⑨ **Thumbnails**

Thumbnail images showing the pictures on the memory card in the selected slot. Tapping a thumbnail displays the selected picture full frame.

- The app displays only the JPEG copies of pictures recorded in NEF (RAW) + JPEG mode. "RAW" icons appear on the thumbnails.
- Pictures that have been uploaded to the FTP server are indicated by  icons, while those that are awaiting upload are indicated by  icons.
- To view the focus point active at the time the picture was taken, tap **[AF]** when a picture is displayed full frame. Tap **[Info.]** to view the date and time of recording, exposure mode, and other shooting info.

■ Adjusting Playback Display Settings

Playback options can be adjusted by tapping the  (camera control options) button in the playback display.



① [Display Columns Number]

Choose the number of thumbnails (1 to 6) displayed in each row.

② [Image Size to Download]

Choose the size at which pictures will be downloaded to the iPhone.

Sharing and Downloading Pictures with an iPhone

Pictures selected in the thumbnail list can be shared with others via e-mail or the like or downloaded from the remote camera to the iPhone.

1. Tap **[Select]** in the thumbnail display.



2. Select pictures to share.



3. Tap the  (share) button.

The selected pictures can be shared with others via e-mail, messaging, or the like. They can also be downloaded to the iPhone's camera roll.



Uploading Selected Pictures via FTP

Pictures selected in the thumbnail list can be uploaded from the remote camera via FTP.

1. Tap **Select** in the thumbnail display.



2. Select pictures for upload to the FTP server.



3. Tap the **FTP** (FTP) button.

A confirmation dialog will be displayed; tap [**OK**] to upload the selected pictures to the FTP server.



Upload Status

Pictures are marked with  after upload and with  while awaiting upload. You can change remote camera settings, take pictures, and use live view while upload is in progress.

Transfer Marking for Pictures After Upload

The camera displays upload marking for the most recent uploads only; the number of pictures for which upload marking is displayed varies with the camera:

- D6 and Z 9 cameras: 5000 (10,000 when two memory cards are inserted)
- D5 cameras: 1000

FTP Upload Options

For information on changing FTP settings, see [Viewing and Adjusting FTP Settings in the NX Field App](#) (📖 106).

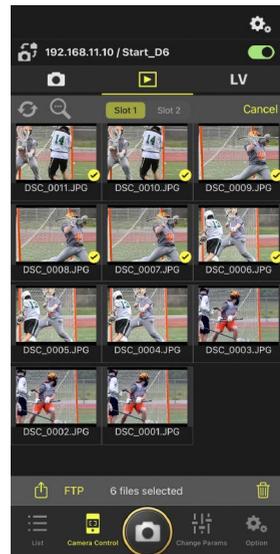
Deleting Selected Pictures

Pictures selected in the thumbnail list can be deleted from the remote camera.

1. Tap **Select** in the thumbnail display.



2. Select pictures for deletion.



3. Tap the  (delete) button.

A confirmation dialog will be displayed; tap [OK] to delete the selected pictures from the remote camera.



During Deletion

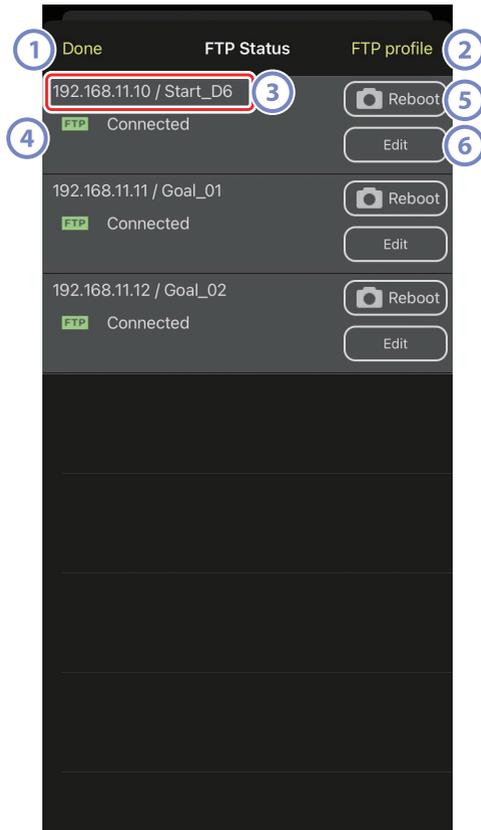
A round blue indicator is displayed during deletion. The NX Field app cannot be used while deletion is in progress.

Deleting Dual-Format Pictures

- Deleting the JPEG copy of pictures recorded with **[Overflow]** selected in NEF (RAW) + JPEG mode also deletes the NEF (RAW) copy.
- If **[Backup]** was selected, only the pictures on the memory card in the current slot will be deleted. Deleting the JPEG copy of NEF (RAW) + JPEG pictures also deletes the NEF (RAW) copy.
- If **[JPEG Slot 1 - JPEG Slot 2]** (D6 and Z 9 only) or **[RAW Slot 1 - JPEG Slot 2]** was selected, only the pictures on the memory card in the current slot will be deleted.

Viewing and Adjusting FTP Settings in the NX Field App

The NX Field app can be used to view and adjust the FTP settings for the cameras in the remote camera list. Go to  (options) > **[FTP Status]** to view FTP status.



① **[Done]**

Save any changes and exit the FTP settings display.

② **[FTP Profile]**

View existing FTP profiles ( 114) and your FTP connection history ( 110).

③ IP Address/Remote Camera Name

The IP address and name of the remote camera.

④ Connection Status

The status of the connection between the remote camera and the FTP server.

- The  (FTP) icon in the remote camera info area will be displayed in red if an FTP error occurs.

⑤ Reboot

Reboots the remote camera's network connection.

Rebooting Connections

- Re-establishing the remote camera's network connection after a reboot takes about 30 seconds.
- Tap [**Reboot**] to recover from a server malfunction or disconnected Ethernet cable if the remote camera shows an error even after the FTP server has been restored.

⑥ Edit

Directly edit remote camera FTP profiles ( 108) or choose profiles from a list ( 114).

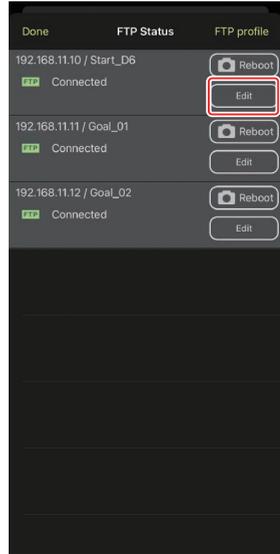
FTP Server Down

If the FTP server goes down while upload is in progress, the connection between the NX Field app and the remote cameras may become erratic and subsequently be lost. To reconnect, wait a few minutes before restoring the connection switch to the  (on) position.

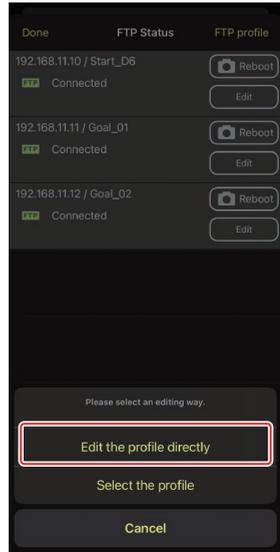
Editing Remote Camera FTP Profiles Directly

Edit the current FTP profile to choose a different destination. You may need to do this when, for example, the FTP server is temporarily down.

1. Tap the  (edit) button for the desired remote camera in the FTP status display.
 - This option is available only with cameras listed as **[Connected]**.



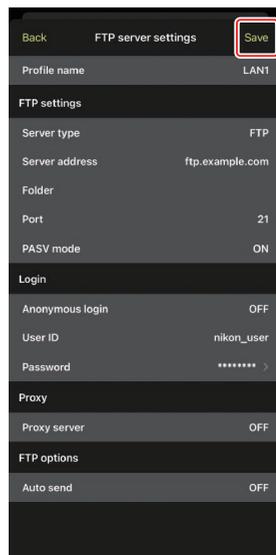
2. Tap **[Edit the profile directly]**.



3. Edit the IP address, port number, and other FTP profile settings and tap **[Save]**.

The remote camera will reboot the connection as it updates the FTP profile.

- If the connection is a success, **[Connected]** will appear in the FTP status display.



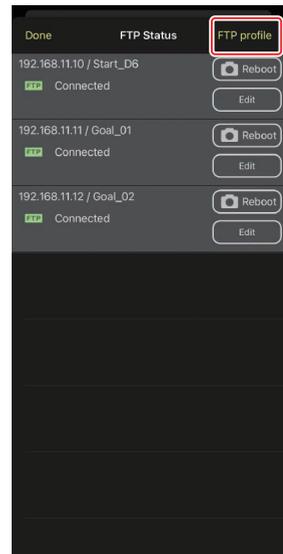
Adding FTP Profiles

You can add profiles from the connection history or enter new profiles directly and add them to the list. The FTP profiles in the list can be used to choose the destination for pictures uploaded from remote cameras.

■ Adding Profiles from the Connection History

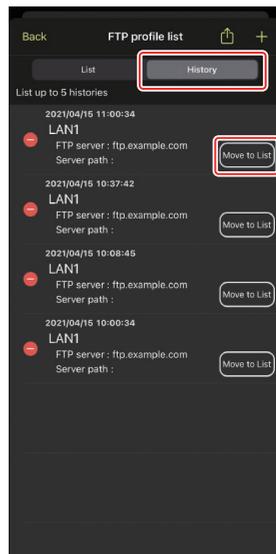
Select profiles in the connection history and add them to the list.

1. Tap **[FTP profile]** in the FTP status display.



2. Tap **[History]** and then tap the **[Move to List]** (move to list) button for the desired FTP profile in the connection history.

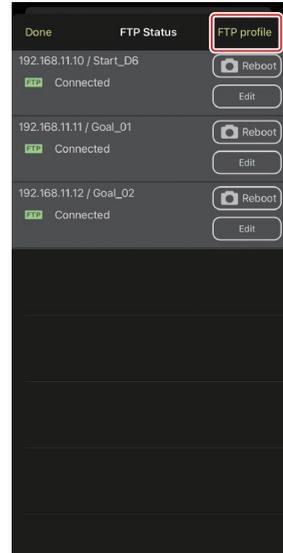
The selected FTP profile will be added to the list and can be used for subsequent connections.



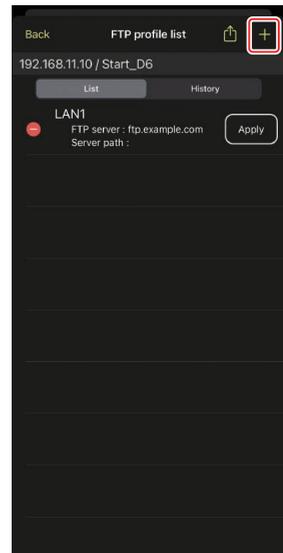
■ Entering FTP Profiles Directly

Enter an FTP server profile and add it to the FTP profile list.

1. Tap **[FTP profile]** in the FTP status display.

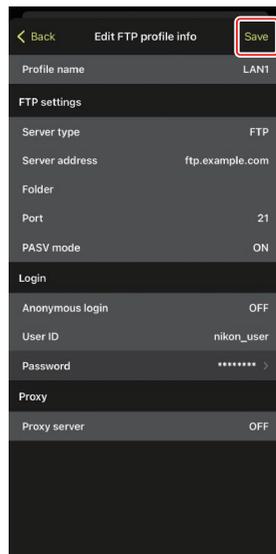


2. Tap .



3. Enter the desired settings and tap **[Save]**.

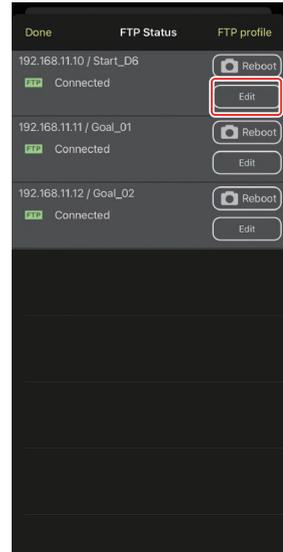
The new FTP profile will be added to the list and can be used for subsequent connections.



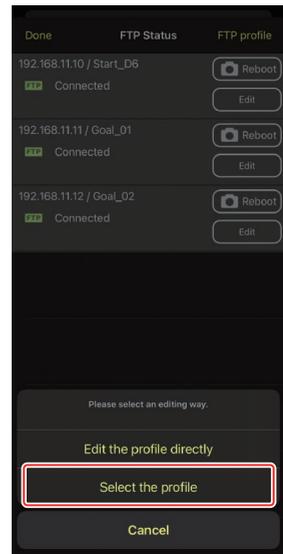
■ Selecting Destinations from the FTP Profile List

The FTP profiles in the list can be used to choose the destination for pictures uploaded from remote cameras.

1. Tap the  (edit) button for the desired remote camera in the FTP status display.



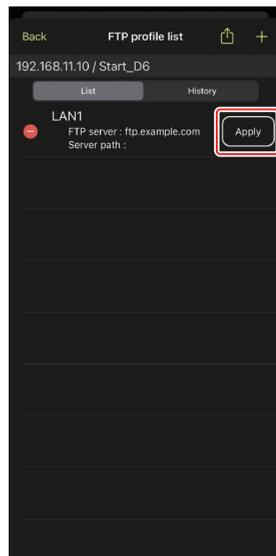
2. Tap **[Select the profile]**.



3. Tap the  (apply) button for the desired FTP profile.

The remote camera will reboot the connection as it updates the FTP profile.

- If the connection is a success, **[Connected]** will appear in the FTP status display.



☑ Caution: Choosing FTP Profiles

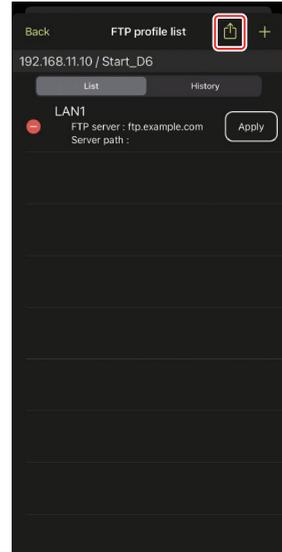
FTP profiles containing settings for FTPS or other features available only with specific cameras or camera firmware can be selected only if the features are supported by the camera in question.

Copying Remote Camera FTP Profiles to Other iPhones or iPads

Remote camera FTP profiles can be copied to the NX Field apps on other iPhones or iPads.

In the FTP profile list, tap the  (share) button and select a sharing method and destination.

Tap **[OK]** in the confirmation dialogs displayed on the source and destination devices to copy the FTP profile to the NX Field app on the destination device.

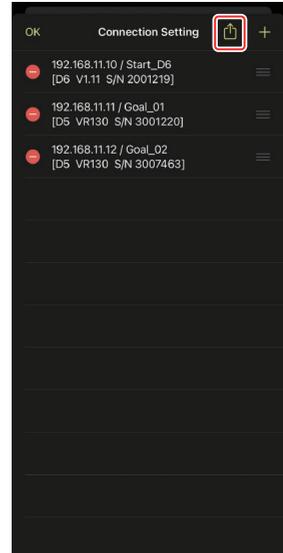


Copying Connection Settings for All Remote Cameras to Other iPhones or iPads

The IP addresses and camera names for remote cameras with display names saved in the NX Field app (📖 38) can be copied to the NX Field apps on other iPhones or iPads.

Go to  (options) > [**Connection Setting**], tap the  (share) button, and then select a sharing method and destination.

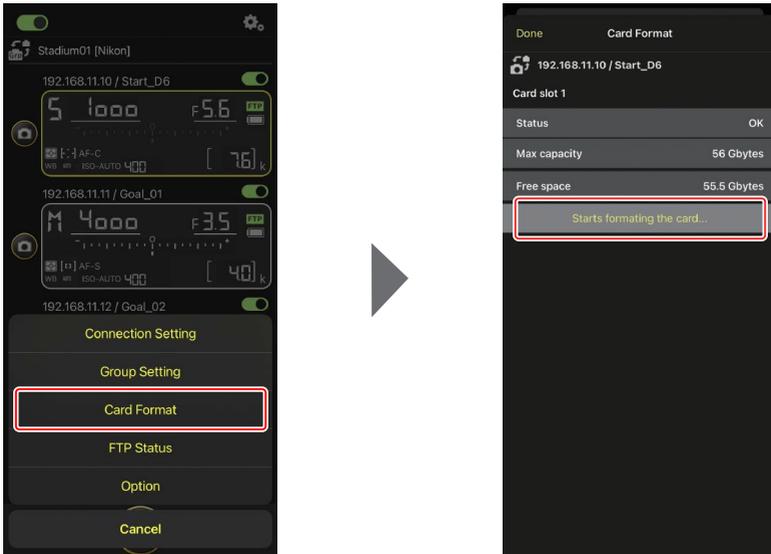
Tap [**OK**] in the confirmation dialogs displayed on the source and destination devices to copy the IP addresses and camera names for all remote cameras with the current display name on the source device to the NX Field app on the destination device.



Formatting Remote Camera Memory Cards with the NX Field App

To format memory cards inserted in remote cameras, go to  (options) and select **[Card Format]**.

Highlight the slot containing the memory card and tap **[Starts formatting the card...]**. A confirmation dialog will be displayed; tap **[OK]** to format the memory card.



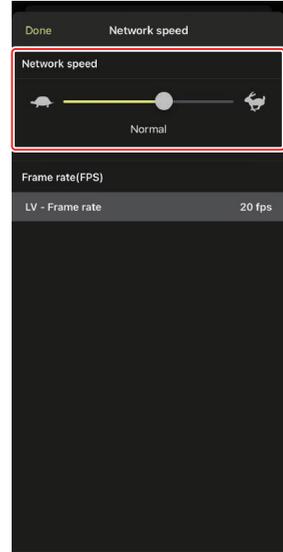
Upload Speed and Frame Rate

Lowering the upload speed and live view display frame rate can help make NX Field more responsive when the network is slow.

Choosing an Upload Speed

Upload speed can be adjusted by going to  (options), selecting [**Option**] > [**Network speed**], and using the slider.

- Tap [**Done**] to save changes.



Choosing a Frame Rate for Live View

To choose a frame rate for the live view display, go to  (options), select [Option] > [Network speed], and tap [LV - Frame rate].

- Choose from values of from 1 through 30 fps. Choosing slow frame rates when the app is sluggish can help make it more responsive.
- Tap [Done] to save changes.



Live View Options

Frame rate can also be adjusted from the live view options dialog (📖 85).

Using Wake-on-LAN to Activate the Standby Timers on Remote Cameras (D6 Only)

The D6 supports the NX Field app's Wake-on-LAN (WOL) feature, used to activate the standby timers on remote cameras. To use WOL, you will need to supply the NX Field app with the remote camera's MAC address.

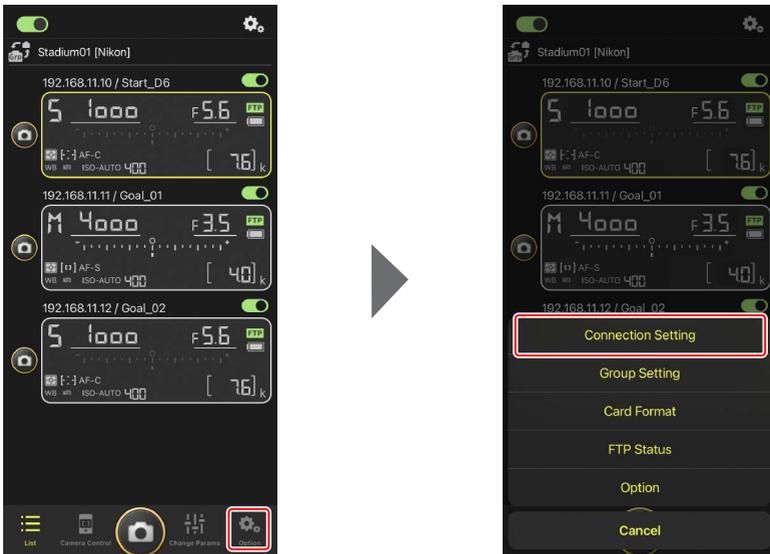
Connection Settings

End the connection to the remote camera before making changes to [Connection Setting].

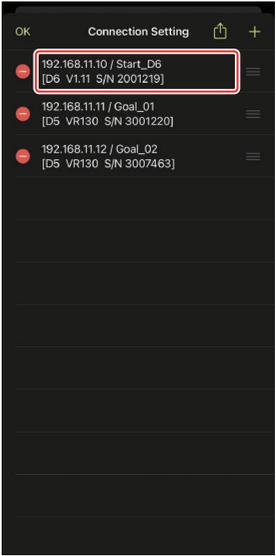
Entering MAC Addresses for Remote Cameras

Entering the remote camera's MAC address enables WOL.

1. Tap the  (options) button and select [Connection Setting].

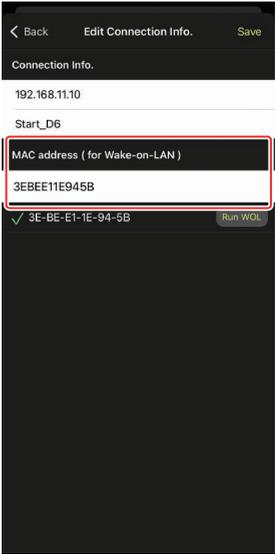


2. Tap the connection information for a remote D6 camera to be configured for use with WOL.



3. Enter an MAC address and tap **[Save]**.

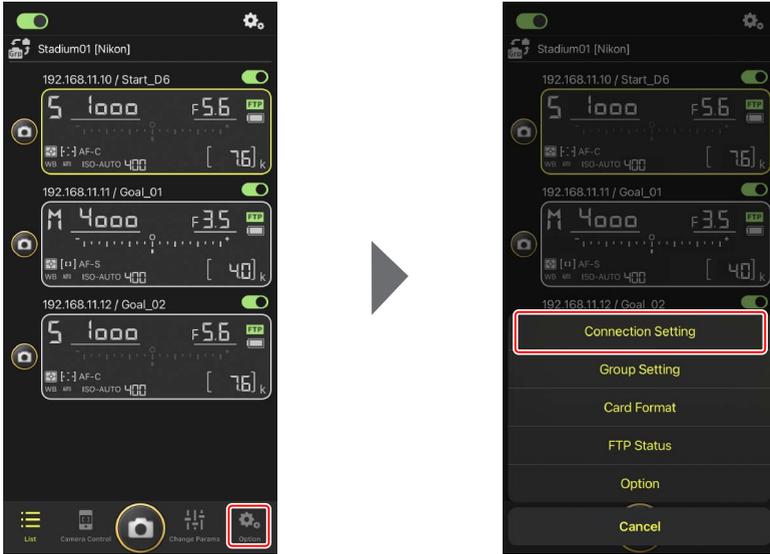
The remote camera's MAC address can be viewed by selecting **[Wired LAN/WT]** > **[Options]** > **[MAC address]** in the camera setup menu. You do not need enter the hyphens.



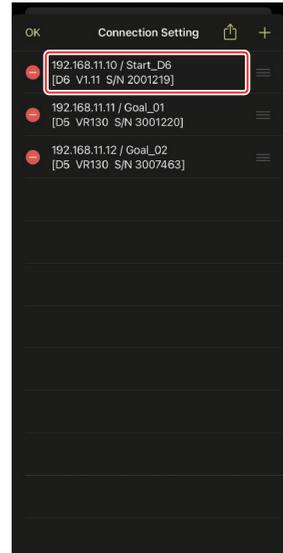
Using WOL to Activate the Standby Timers on Remote Cameras

Run WOL to activate the standby timers on remote cameras.

1. Tap the  (options) button and select [**Connection Setting**].

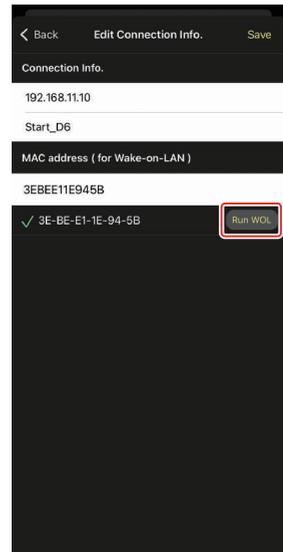


2. Tap the connection information for a remote D6 camera to be configured for use with WOL.



3. Tap the **Run WOL** (run WOL) button.

A confirmation dialog will be displayed; tap **[OK]** to activate the standby timer on the remote camera.



☑ **Cautions: Using WOL**

- Consult the network administrator for information on WOL support.
- Given that it takes about 30 seconds to re-establish the network connection after the standby timer restarts, we recommend selecting settings of 10 or 30 minutes for [**Standby timer**] in the camera menus.
- Be sure the remote camera is on.

📝 **Using WOL to Start the Standby Timer**

WOL can only be used to start the standby timer if both the remote camera and the iPhone or iPad are on the same network. WOL may not function if the devices are on different networks connected via a router.

Other Options

To access such settings as connection time-outs and notification levels, go to  (options) and select **[Option]**.



Item	Sub-item	Description
Misc settings	Sets date & time by local time	Choose whether to synchronize the clocks on the remote cameras with the iPhone.
	Connection timeout	Choose how long the app will continue to attempt connection when there is no response from the remote camera. An error will occur if a connection cannot be made in the time selected.

Item	Sub-item	Description
Warning notification	Enable notification	Choose whether notifications are displayed.
	Number of exposures remaining	A warning will be displayed if the space remaining on the memory card in the remote camera falls below this limit.
	Battery level	A warning will be displayed if the battery in the remote camera falls below this limit. If "1%" is selected, the connection to the remote camera may be lost before the warning can be displayed.
Network speed	Network speed	Choose an upload speed.
	Frame rate (FPS)	Choose a frame rate for the live view display.
Wake-on-LAN (D6 only)	Run Wake-on-LAN to cameras	Choose whether to run WOL.
Save camera settings	—	Save current settings to the camera.
Information	Version	View version information.
	License information	View license information.
	Privacy policy	View the privacy policy.
	Support	Open your web browser to the customer support website.

Remotely Taking and Selecting Pictures for Upload with an iPad

iPads running the NX Field app can be used to release the shutters, record video, or adjust settings on remote cameras and select pictures for upload via FTP.

Uploading Pictures via FTP.....

The pictures uploaded to FTP servers using the NX Field app are not the copies stored on the iPad but the original pictures stored on the camera memory card.

The iPad “Split View” Feature.....

The NX Field app supports the iPad “Split View” feature.

NX Field App Displays

The NX Field app launches in list view. The controls are described below.



① **Display Name and [Group Name]** (📖 48)

The display name and group name. Tap to switch display names.

② **Connection Switch** (📖 55)

Enable or disable the connection to the remote cameras listed under the current display name.

③ **Remote Camera Info**

A series of displays mirroring the information in the cameras' top control panels, including shutter speed and exposure mode. Cameras can be controlled individually using shutter-release button to the left and the connection switch at the top right corner of each display. Touch and hold the remote camera info area to display menus for camera controls and settings.

④ **Memory Card Access Icon**

Lights while data are being recorded to the memory card in the remote camera.

⑤ **Interval-Timer Photography** (📖 169)

Display interval-timer options.

⑥ **List** (📖 131)

Opens the list display.

⑦ **Shutter-Release Button**

Releases the shutters on all cameras in the remote camera list with connection switches currently in the  (on) position.

⑧ **Live View**

Opens the live view display. Choose from tile (📖 137), main/secondary (📖 138), and "skin" (📖 139) views and take photographs or adjust camera settings.

⑨ **Options** (📖 136)

Opens the options display.

The List Display

View information for the cameras in the remote camera list.

- The shutters on all cameras with connection switches currently in the  (on) position can be released simultaneously ( 141).
- Shutters for selected cameras can also be released individually ( 142).
- If you have created multiple display names, you can switch between them by tapping the  (display) button.



■ The View/Settings Menu

Touching and holding remote camera info in list view displays the options below. Tap options to switch to the desired view.

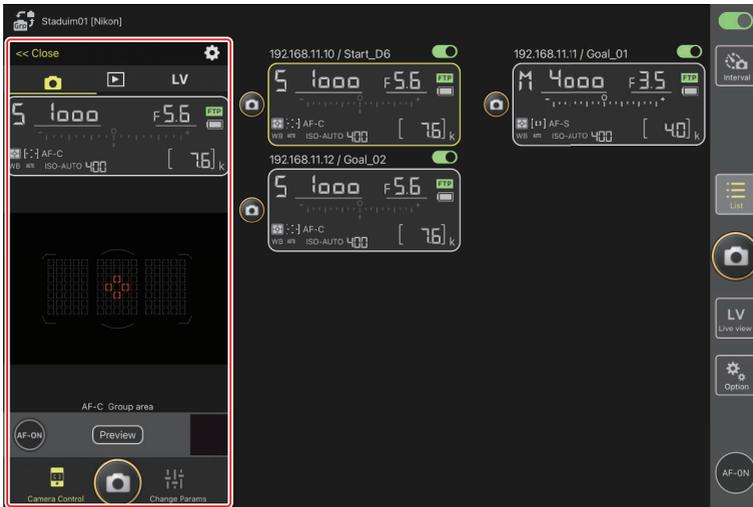


- **[Shows Tiled view live-view]**: Switch to tiled live view (📖 137).
- **[Shows Main-sub view live-view]**: Switch to main/secondary live view with the selected remote camera serving as the main camera (📖 138).
- **[Shows Skin view]**: Switch to “skin” view (📖 139).
- **[Camera Control]**: Display controls for the selected camera (📖 133).
- **[Change Params]**: Display settings for the selected camera (📖 135).

The Camera Control Display

Camera controls can be displayed by touching and holding a remote camera in the list or live view display and selecting [**Camera Control**] from the view/settings menu.

- Focus controls are available in the  (camera) tab (📖 143). They cannot, however, be used during live view or with mirrorless cameras.
- The  (playback) tab can be used to view pictures taken with the remote camera. You can also delete pictures or upload them to an FTP server (📖 189). It cannot, however, be used when the live view  **Video** (video) tab is selected.
- In the **LV** (LV) tab, you can take pictures while viewing a live image from the remote camera (📖 148).



■ Camera Control Options

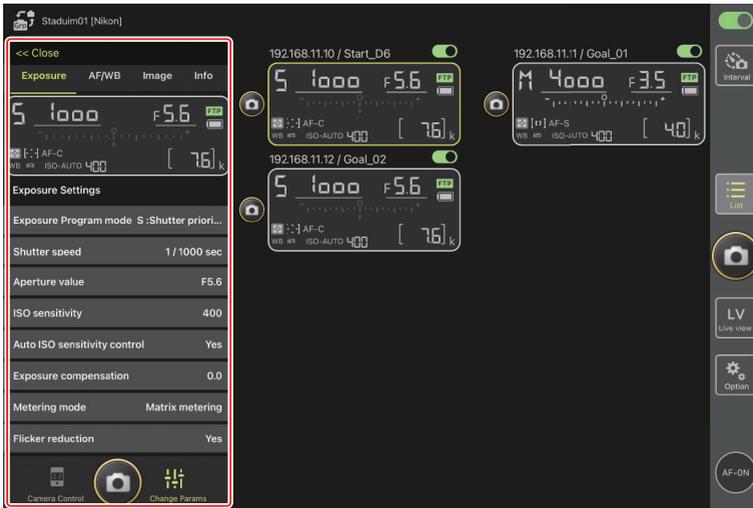
To display camera control settings for the current tab, tap the  (camera control options) button in the camera control display.

Tab		Description	
	Camera	Adjust focus-related settings. *	 175
	Playback	Adjust settings for the playback display. *	 191
	LV	Adjust settings for live view. *	 153

* The options available vary with the camera.

The “Change Parameters” Display

Camera settings can be displayed by touching and holding a remote camera in the list or live view display and selecting [**Change Params**] from the view/settings menu. The display can be used to adjust remote camera photo and video settings, including exposure, autofocus, and image quality (📖 179).



The Options Display

Used for such tasks as adjusting remote camera network, group, and FTP profile settings or formatting memory cards (📖 218).



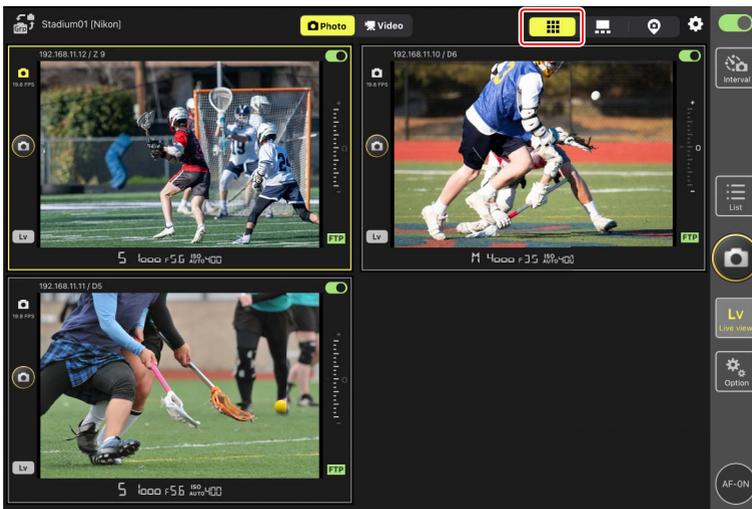
Live View

Tap the  (live view) button to choose from the tiled, main/secondary, and “skin” live view displays. You can also switch views by touching and holding remote camera info in the list display and selecting the desired option in the view/settings menu ( 132).

Tiled View

The tiled view is divided into equal-sized live view displays, one for each of the remote cameras. This display can be used for autofocus, taking photographs, and recording videos.

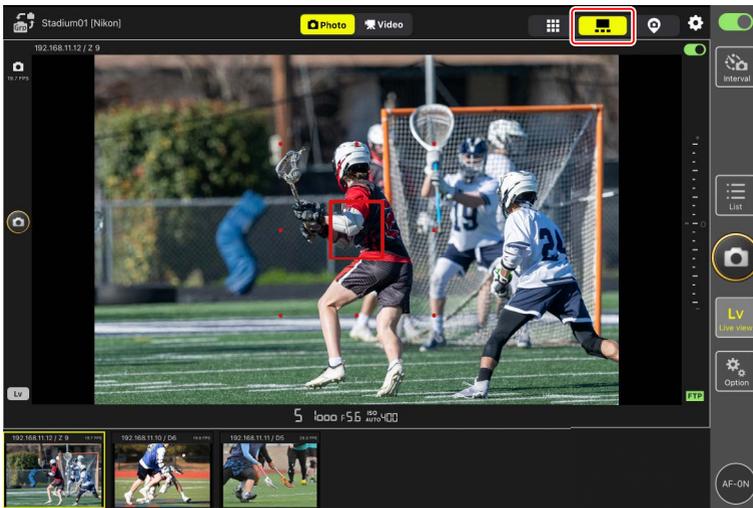
- To switch to tiled view, touch and hold the remote camera info for a camera in the list display and select [**Shows Tiled view live-view**] from the view/settings menu, or select the  (tiled view) tab above and toward the right edge of the live view display.
- Up to nine cameras can be displayed in tiled view at any one time.
- For more information, see the sections on taking photographs ( 154) and recording videos ( 160) in tiled view.



■ Main/Secondary View

The view from one camera is shown at a large size, with the views from the remaining cameras shown at smaller sizes. This display can be used for autofocus, taking photographs, and recording videos.

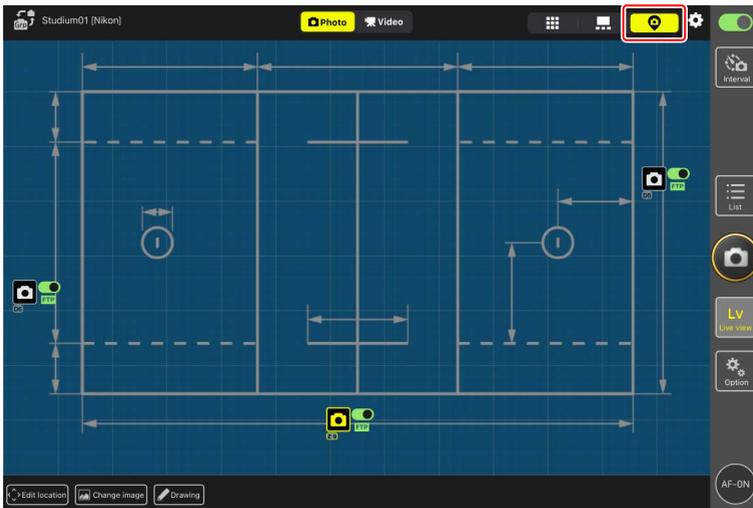
- To switch to main/secondary view, touch and hold the remote camera info for a camera in the list display and select **[Shows Main-sub view live-view]** from the view/settings menu, or select the  (main/secondary view) tab above and toward the right edge of the live view display.
- Tapping a secondary view displays it in main view and relegates the camera currently in main view to a secondary view.
- For more information, see the sections on taking photographs (📖 156) and recording videos (📖 162) in main/secondary view.



■ “Skin” View

This view uses pictures stored on the iPad as “skins”. One way in which this feature can be used is to provide a map showing the locations of the remote cameras.

- To switch to “skin” view, touch and hold the remote camera info for a camera in the list display and select [**Shows Skin view**] from the view/settings menu, or select the  (“skin” view) tab above and toward the right edge of the live view display.
- For more information, see [“Skin” View Settings](#) (📖 164).



Taking Pictures with the NX Field App

In the NX Field app, remote camera shutters can be released from either the list display or live view. Videos can be recorded during live view in the tile or main/secondary displays (📖 158).

Taking Photographs in the List Display

☑ Caution: Taking Pictures in the List Display.....

The live image stream and shutter-release button response may lag if you switch to live view immediately after taking a burst of pictures in the list display.

■ Taking Pictures with Multiple Remote Cameras

Tapping the  (shutter-release) button to the right of the list display releases the shutters on all remote cameras with connection switches currently in the  (on) position.

- To focus all remote cameras using autofocus, touch and hold the  (AF-ON) button.
- The remote camera info for the camera in question is highlighted in green while photography is in progress.
- The memory card access ( 130) icon will light while pictures are being recorded to the memory card.
- The  (FTP) icon will flash while pictures are being uploaded to an FTP server.



Disabling the Release on Selected Cameras

The releases for selected cameras can be disabled by tapping the  (connection) switch above and toward the right edge of each camera's remote camera info.

■ Taking Pictures with a Single Camera

The shutter for a selected remote camera can be released by tapping its  (shutter-release) button in the list display.

- The remote camera info for the camera in question is highlighted in green while photography is in progress.
- The memory card access ( 130) icon will light while pictures are being recorded to the memory card.
- The  (FTP) icon will flash while pictures are being uploaded to an FTP server.



Adjusting Focus for a Selected Camera

You can focus selected remote cameras before taking pictures.

1. To select the remote camera, touch and hold it in the list display and select **[Camera Control]** from the view/settings menu.

Controls for the selected camera will be displayed.



2. Select the  (camera) tab and tap the  (preview) button.

The app will retrieve an image from the remote camera. Note that the image is not live; if the subject moves, tap the  (preview) button again.



3. Tap to position the focus point.

The focus point will move to the selected position.



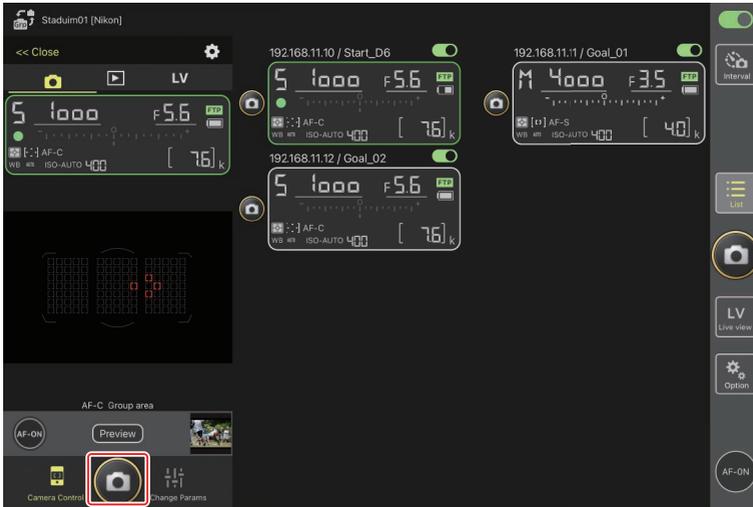
4. Touch and hold the  (AF-ON) button to focus.

The remote camera will focus on the subject in the selected focus point.

- The preview will clear from the display when you tap the  (AF-ON) button. You can check focus by tapping the  (preview) button again to retrieve another preview.



5. Tap the  (shutter-release) button to take a picture.



Live View Photography

Live view photography can be accessed either by choosing a remote camera in the list display and selecting [**Camera Control**] or via the  (live view) button.

Cautions: Live View Photography

- Shutter-release button response may lag if you switch to the list display immediately after taking a burst of pictures in live view.
- The photo/video selectors on Z 9 cameras must be set to . Photos cannot be taken when  is selected.

■ Selecting a Camera for Live-View AF Photography in the List Display

The remote camera for live-view AF photography can be chosen in the list display.

1. To select the remote camera, touch and hold it in the list display and select [**Camera Control**] from the view/settings menu.

Controls for the selected camera will be displayed.



2. Tap the **LV** (LV) tab.

A live image from the remote camera will be displayed.



3. Tap to position the focus point.

The focus point will move to the selected position.



4. Touch and hold the  (AF-ON) button to focus.



AF Activation

Whether tapping the  (shutter-release) button initiates autofocus during live view photography varies with the camera:

- D6 and Z 9 cameras: Tapping the  (shutter-release) button will initiate autofocus provided [**Shutter/AF-ON**] is selected for Custom Setting a6 [**AF activation**].
- D5 cameras: Tapping the  (shutter-release) button does not initiate autofocus, even if [**Shutter/AF-ON**] is selected for Custom Setting a8 [**AF activation**].

Manual Focus Adjustment

If the lens focus-mode switch is set to M/A or A/M when autofocus is enabled on the camera, focus can be adjusted manually by tapping the  and  buttons. Each tap adjusts focus by the amount selected for **[MF driving amount]** in the  (camera control options) display.

AF-ON Unavailable

Selecting **[AF-F]** for **[LV - AF mode]** disables the  (AF-ON) button for the remote camera in question. Select **[AF-S]** for  (camera control options) > **[LV - AF mode]** (📖 175).

Focusing at a Fixed Distance

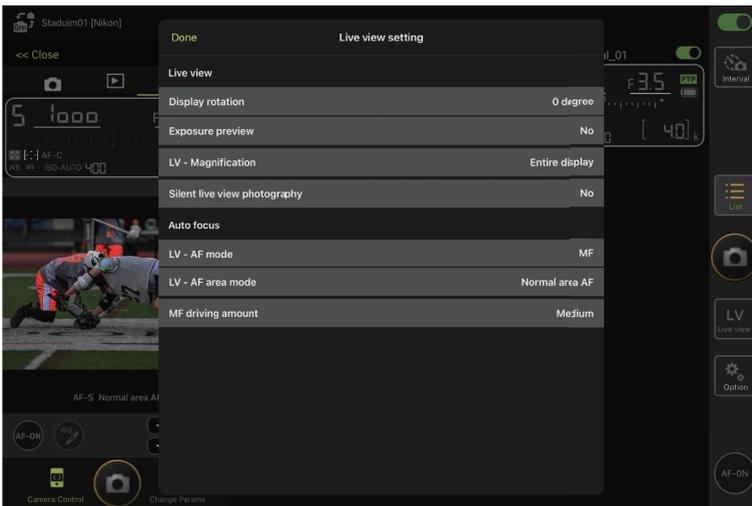
To focus at a fixed distance, select manual focus on the camera. Note that you cannot initiate autofocus or manually adjust the focus position from the NX Field app while focusing at a fixed distance.

5. Tap the  (shutter-release) button to take a picture.



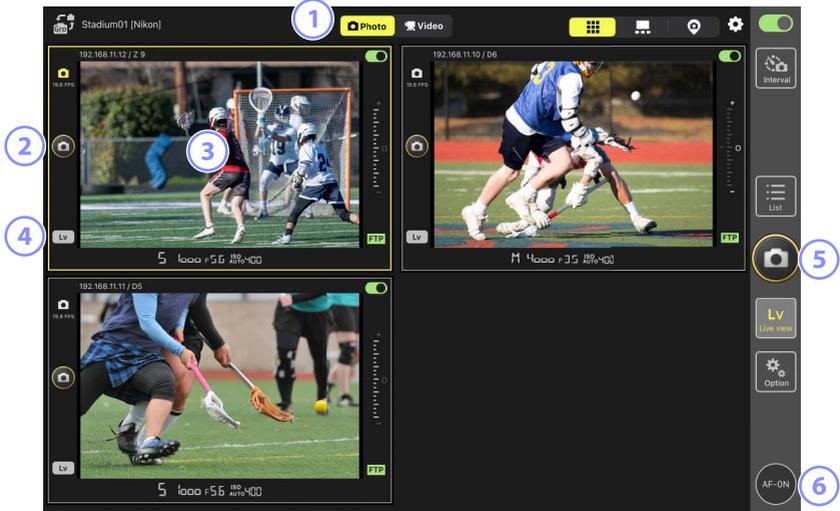
Camera Live View Settings

To adjust camera live view settings, including exposure preview and AF mode, select the live view tab in the camera control display and tap the  (camera control options) button.



■ Taking Photographs in Tiled View: The (Live View) Button

Tapping the  (live view) button and selecting the  (tiled view) tab displays equal-sized tiles showing the views through the lenses on all remote cameras with connection switches currently in the  (on) position.



- ① Switch between photo and video modes.
- ② To release the shutter on a selected camera, use the  (shutter-release) button to the left of the tile.
- ③ Tapping and holding the live view display brings up the view/settings menu, which among other things can be used to access the [Camera Control] (📖 175) and [Change Params] (📖 179) panels.
- ④ To end live view for a selected camera only, tap the  (Lv) button at the bottom left corner of the tile.

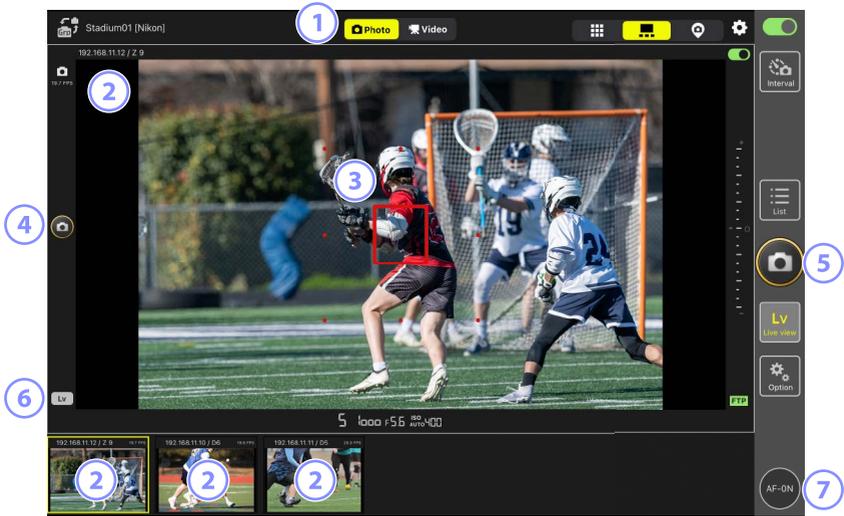
- 5 To release the shutters on all cameras simultaneously, use the  (shutter-release) button on the right side of the display.
- 6 To focus all remote cameras using autofocus, touch and hold the  (AF-ON) button.

Repositioning the Focus Point (Tiled View)

In tiled view, you can touch and hold a camera live view display to view camera controls and then select the **LV** (LV) tab to bring up a live view display where you can position the focus point.

■ Taking Photographs in Main/Secondary View: The (Live View) Button

Tapping the  (live view) button and selecting the  (main/secondary view) tab displays the views through the lenses of all remote cameras with connection switches currently in the  (on) position. The view for the main camera is displayed at a larger size than the views for the remaining cameras.



- ① Switch between photo and video modes.
- ② Tapping a secondary view displays it in main view and relegates the camera currently in main view to a secondary view. Tapping and holding the live view display brings up the view/settings menu, which among other things can be used to access the **[Camera Control]** (📖 175) and **[Change Params]** (📖 179) panels.
- ③ The focus point (main camera only). You can reposition the focus point by tapping the display. For more information, see [Selecting a Camera for Live-View AF Photography in the List Display](#) (📖 148).

- ④ To release the shutter on the main camera, tap the  (shutter-release) button on the left side of the display.
- ⑤ To release the shutters on selected cameras ( 168), tap the  (shutter-release) button on the right side of the display.
- ⑥ To end live view for the main camera only, tap the  (Lv) button at the bottom left corner of the display.
- ⑦ To focus all remote cameras—main and secondary included—touch and hold the  (AF-ON) button.

Live View Video Recording

Live view video recording is available in tiled and main/secondary views.

☑ Cautions: Recording Videos

- The options in the camera control  (playback) tab ( 189) cannot be used when the  **Video** (video) tab is selected.
- Videos over 4 GB in size cannot be uploaded via FTP.

(AF-ON) Options

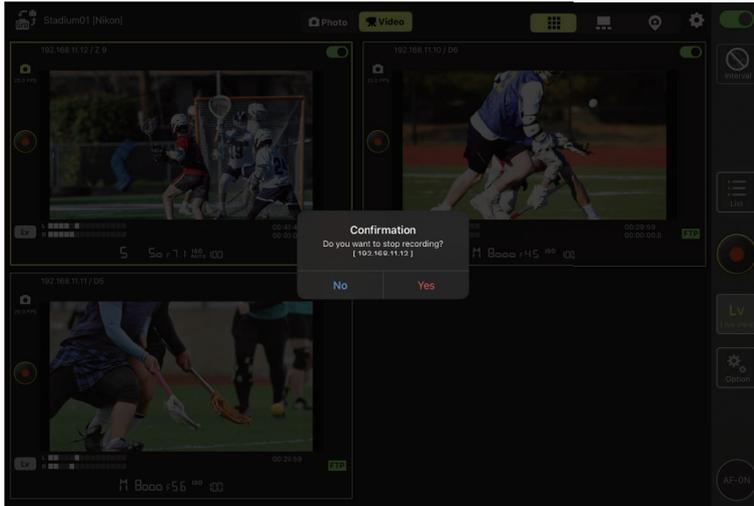
To choose how the  (AF-ON) button behaves during video recording, go to  (options) and select [**Option**] > [**AF-On button setting**].

- [**Push type**]: The camera focuses while the  (AF-ON) button is pressed.
- [**Toggle type**]: Focus starts when you tap the  (AF-ON) button and continues until you tap the button a second time.

Prompt Before Ending Recording

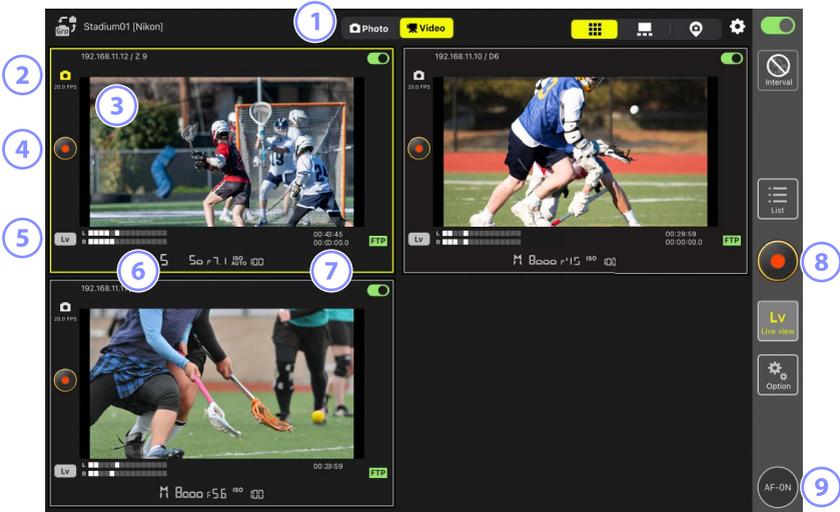
If desired, a confirmation dialog can be displayed when the stop button is tapped to end recording. Selecting **[Yes]** ends recording. To enable this option, go to

 (options) > **[Option]** > **[Video setting]**.



Recording Videos in Tiled View

Tapping the  (live view) button and selecting the  (tiled view) tab displays equal-sized tiles showing the views through the lenses on all remote cameras with connection switches currently in the  (on) position. To select video mode, tap the  (video) tab.



- 1 Switch between photo and video modes.
- 2 The frame rate for live view ([link](#) 168).
- 3 Tapping and holding the live view display brings up the view/settings menu, which among other things can be used to access the **[Camera Control]** ([link](#) 175) and **[Change Params]** ([link](#) 179) panels.
- 4 To start recording on a selected camera, use the  (video recording) button to the left of the tile.
- 5 To end live view for a selected camera only, tap the  (Lv) button at the bottom left corner of the tile.
- 6 Sound level indicators.

- ⑦ The number in the first row is the recording time, that in the second row the time code.
- ⑧ To start video recording on all cameras simultaneously, use the  (video recording) button on the right side of the display.
- ⑨ To focus all remote cameras using autofocus, touch and hold the  (AF-ON) button.

Repositioning the Focus Point (Tiled View)

In tiled view, you can touch and hold a camera live view display to view camera controls and then select the  (LV) tab to bring up a live view display where you can position the focus point.

■ Recording Videos in Main/Secondary View

Tapping the  (live view) button and selecting the  (main/secondary view) tab displays the views through the lenses of all remote cameras with connection switches currently in the  (on) position. The view for the main camera is displayed at a larger size than the views for the remaining cameras. To select video mode, tap the  Video (video) tab.



- ① Switch between photo and video modes.
- ② The frame rate for live view (📖 168).
- ③ Tapping a secondary view displays it in main view and relegates the camera currently in main view to a secondary view. Tapping and holding the live view display brings up the view/settings menu, which among other things can be used to access the **[Camera Control]** (📖 175) and **[Change Params]** (📖 179) panels.
- ④ The focus point (main camera only). You can reposition the focus point by tapping the display. For more information, see [Selecting a Camera for Live-View AF Photography in the List Display](#) (📖 148).

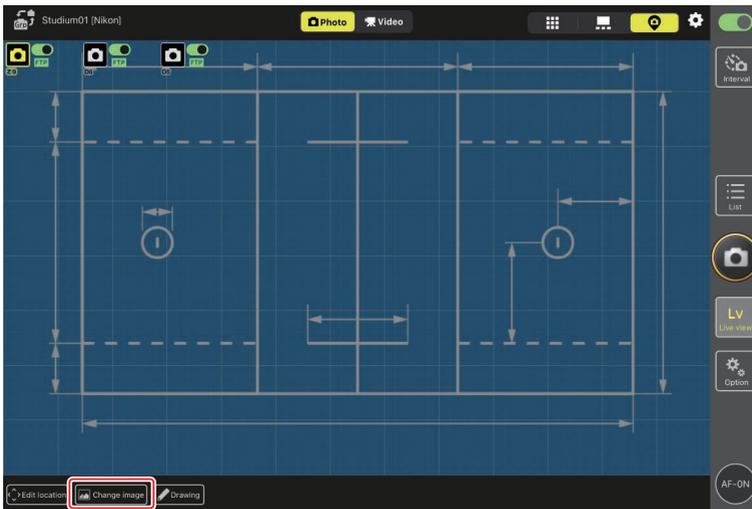
- ⑤ To start video recording on the main camera, tap the  (video recording) button on the left side of the display.
- ⑥ To start video recording on all cameras simultaneously, tap the  (video recording) button on the right side of the display.
- ⑦ To end live view for the main camera only, tap the  (Lv) button at the bottom left corner of the display.
- ⑧ Sound level indicators.
- ⑨ The number in the first row is the recording time, that in the second row the time code.
- ⑩ To focus all remote cameras—main and secondary included—touch and hold the  (AF-ON) button.

“Skin” View Settings

Choose a picture stored on the iPad for use as a “skin” in “skin” view (📖 139). Placing icons on a site plan “skin” lets you quickly grasp the locations of the remote cameras when working at facilities such as stadiums or tennis courts.

■ Choosing Backgrounds for “Skin” View

To choose a background for “skin” view, tap [**Change image**] at bottom left in the display and select a picture from those stored on the iPad.



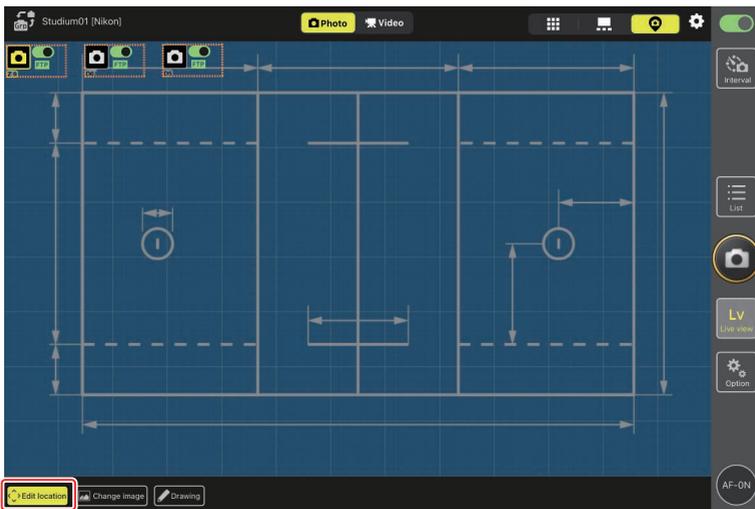
■ Mapping Remote Camera Locations

Place icons on the background showing the locations of the remote cameras with the selected display name.

1. Tap [**Edit location**] in “skin” view.

The remote camera icons will be highlighted with broken orange borders, indicating that they can be moved.

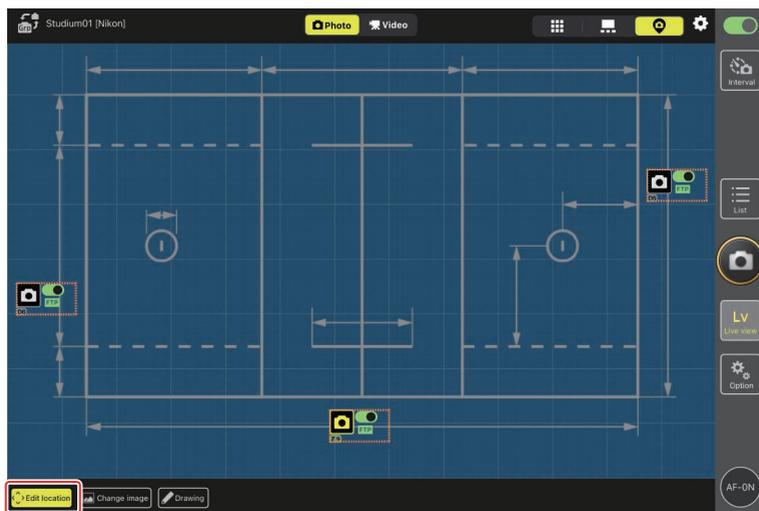
- The selected icon is highlighted in yellow.



2. After positioning all the icons, tap **[Edit location]** again.

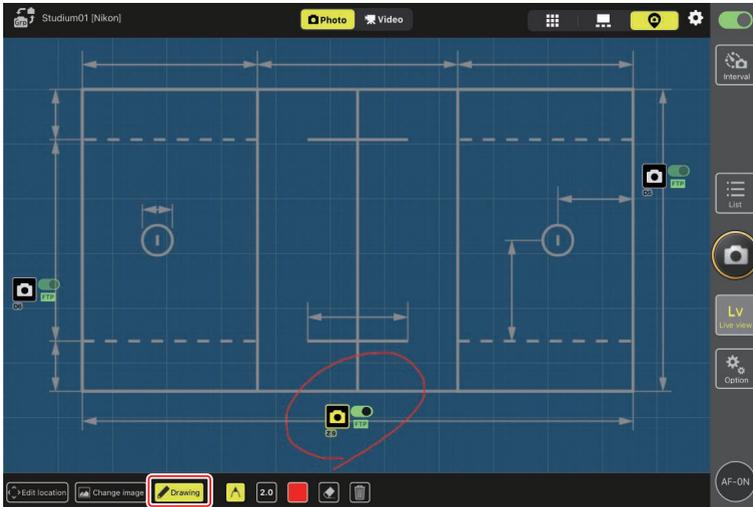
The remote cameras' locations will be saved.

- You can open the **[Camera Control]** or **[Change Params]** displays for selected remote cameras by touching and holding the icons.



■ Annotating Backgrounds

To add hand-drawn annotations to backgrounds in “skin” view, tap **[Drawing]**.



Annotation controls are described below.

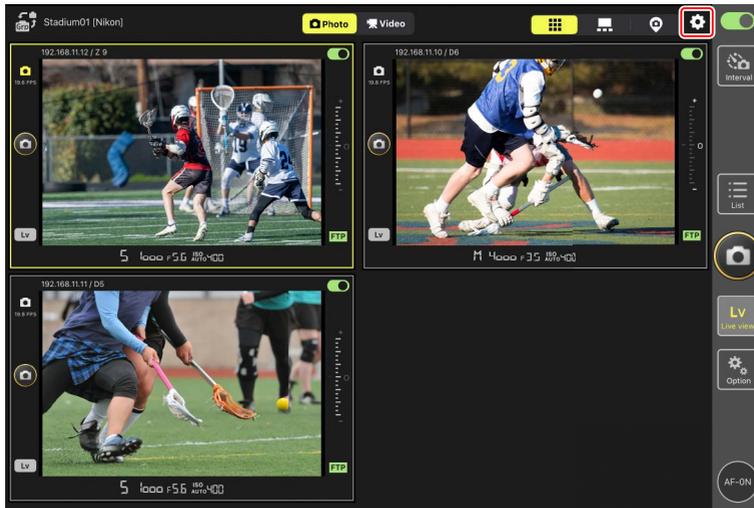
Control	Description
	Select to add hand-drawn annotations.
	Choose line thickness of from [1.0] to [8.0] .
	Choose a color. The default is red.
	Select to erase parts of the annotations.
	Delete all annotations.

Taking Photographs and Recording Videos in “Skin” View

In “skin” view, you can take photographs or start video recording on all cameras by tapping the  (shutter-release) or  (video recording) button on the right side of the display.

Adjusting Live View Settings

Adjustments to the frame rate for live view and skin opacity can be made via the  (live view options) button.



Item	Sub-item	Description
Frame rate (FPS)	Frame rate of main LV	Choose a frame rate for the main view display from eight options ranging from [1 fps] to [30 fps].
	Frame rate of sub LV	Choose a frame rate for the secondary view displays from eight options ranging from [1 fps] to [30 fps].
	Frame rate of tile LV	Choose a frame rate for tiled view from eight options ranging from [1 fps] to [30 fps].
Shooting Button Setting (Main-sub view)	Shooting Button	Choose whether the shutter-release button on the right side of the main camera display releases the shutters on all cameras ([All]), only the shutter on the main camera ([Main Only]), or only the shutters on the secondary cameras ([Sub Only]). <ul style="list-style-type: none"> Not available during video recording.
Skin image	Opacity	Adjust the opacity of the "skin" image; choose from values of from 0% to 100% in 5% increments.

Interval-Timer Photography

Configure remote cameras for interval-timer photography to take a selected number of pictures automatically at a selected interval.

Cautions: Interval-Timer Photography

- Only remote cameras that are currently connected can be used for interval-timer photography. Timers for remote cameras that are not currently connected will be activated but no pictures will be taken.
- Configure the remote cameras for a release mode other than self-timer or **Mup**.
- You cannot switch between the list and live view displays during interval-timer photography.

Adjusting Camera Settings for Interval-Timer Photography

The camera may sometimes fail to release the shutter if autofocus with focus priority is enabled on the camera. To ensure that pictures are taken at the selected interval, select **[Release]** for Custom Settings a1 **[AF-C priority selection]** and a2 **[AF-S priority selection]** or use manual focus.

1. Tap the  (interval-timer photography) button.



2. Adjust interval-timer settings.

The NX Field app offers **[Normal]**, **[Advance]**, and **[In camera]** interval-timer tabs, each with their own  (start) and  (stop) buttons. The options available vary with the tab selected, and the options selected in one tab have no effect on the others.

Choosing an Interval

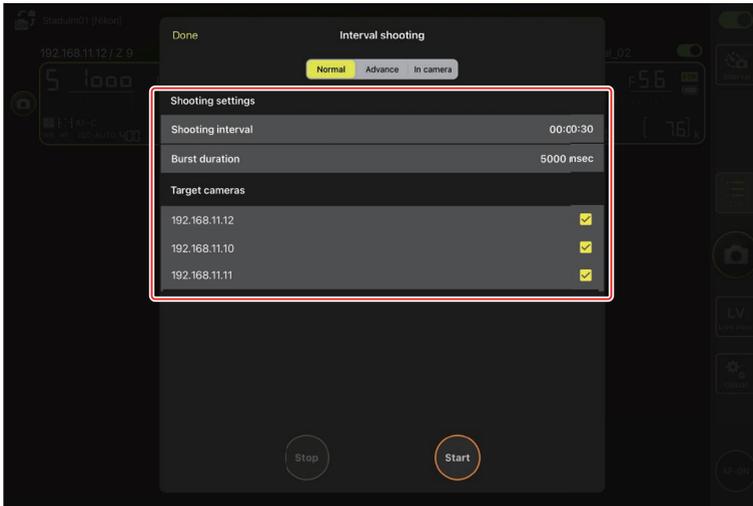
Choose an interval longer than the time needed to take the selected number of shots at the predicted shutter speed. If the interval is too short, the camera may drop shots or miss the interval altogether.

Burst Length

The number of pictures that can be taken in the selected time varies with the camera release mode.

- **[Normal]**

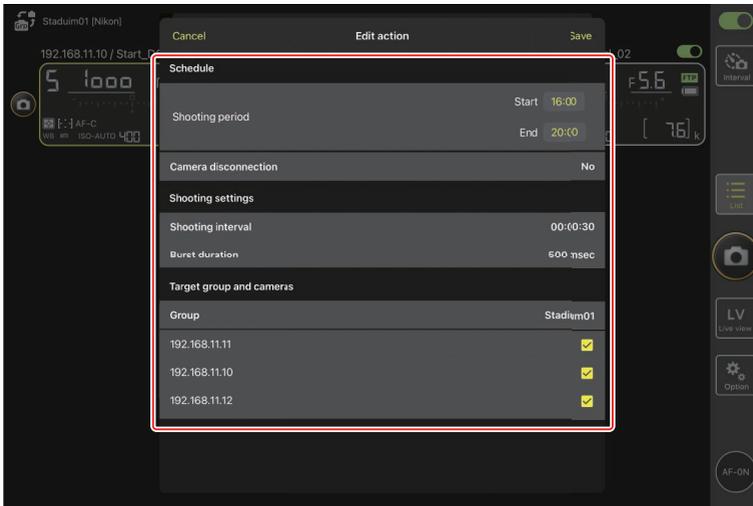
- Interval (1 second to 2 hours)
- Burst length (“none” or values of up to 5000 msec)
- Target remote camera.



- **[Advance]**

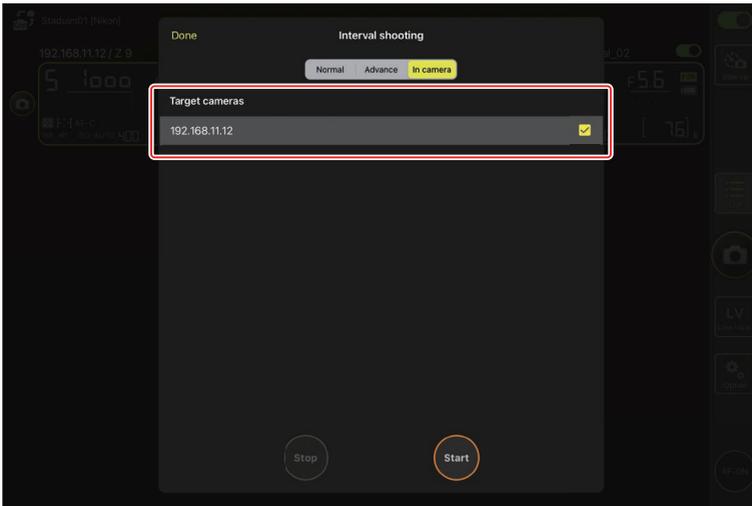
Tap **[+Add]** to access the following settings:

- Start and end times (hour and minute)
- Terminate/do not terminate camera connection when interval-timer photography ends
- Interval (1 second to 2 hours)
- Burst length (“none” or values of up to 5000 msec)
- Target remote camera or group



- **[In camera]**

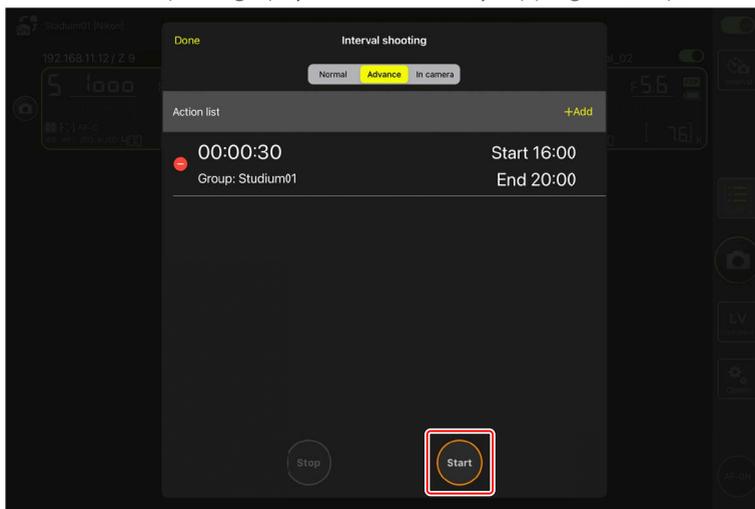
Perform interval-timer photography according to the settings selected for **[Interval timer shooting]** in the camera photo shooting menu. The NX Field app is used only to start and stop interval-timer photography. This option is available with compatible remote cameras (the Z 9 only).



3. Tap the  (start) button.

Interval-timer photography will start.

- If you chose a start time, shooting will start at the time selected.
- Interval-timer photography can be ended by tapping  (stop).



Taking Pictures Between Intervals

The shutter can be released normally between intervals while interval-timer photography is in progress.

Adjusting Remote Camera Settings from the NX Field App

In the NX Field app, remote camera settings can be adjusted from displays of two types, one principally for focus-related settings and another for most other camera settings. The options available vary with the camera.

Adjusting Focus-Related Settings

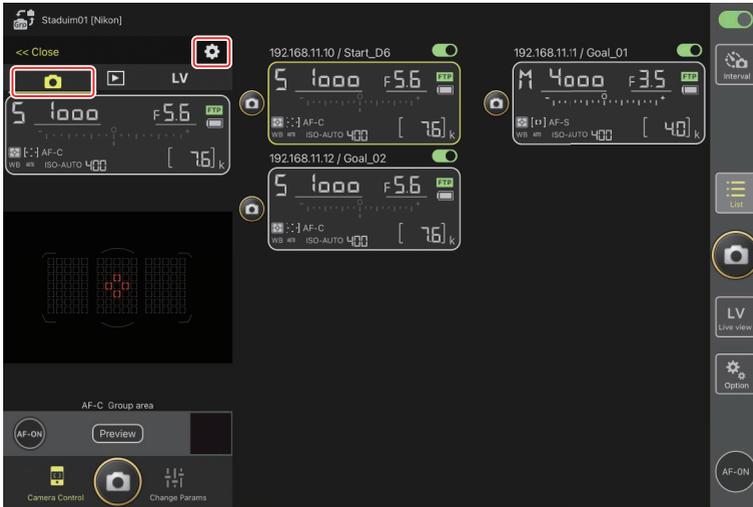
The NX Field app can be used to choose the autofocus and AF-area modes and adjust other focus-related settings.

1. To select the remote camera, touch and hold it in the list display and select **[Camera Control]** from the view/settings menu.

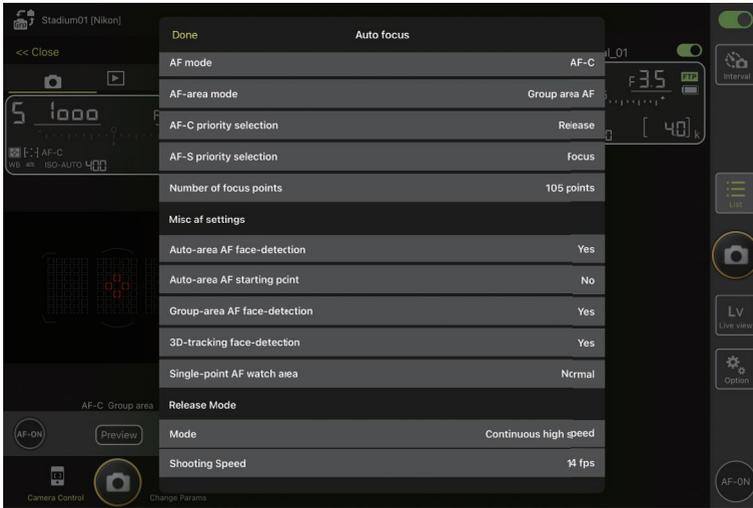
Controls for the selected camera will be displayed.



2. Select the  (camera) tab and tap  (camera control options).



You can adjust focus and release-mode settings for the selected remote camera. To do so, tap the desired settings.

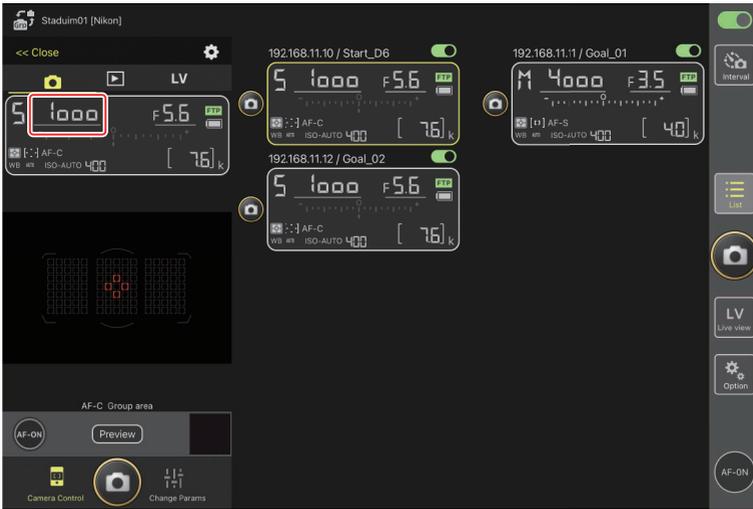


Frame Advance Rate

The frame advance rate (“shooting speed”) can be adjusted from the NX Field app only when the remote camera release mode dial is in the “quick release-mode selection” position.

The Remote Camera Info Display

Settings can also be adjusted by tapping the items in the remote camera info display in the  (camera) tab of the NX Field app.



Adjusting Other Remote Camera Settings

Touching and holding the remote camera info for a camera in list view and selecting [**Change Params**] from the view/settings menu opens a camera settings panel on the left side of the display. Use the panel to adjust settings for the selected remote camera.



Choose a tab and tap the desired settings.

Photo/Video Settings

Adjustments to [**Exposure**], [**AF/WB**], [**Image**], and [**Info**] settings made during still photography apply independently of those made during video recording.

Adjust settings after selecting the appropriate tab:  **Photo** (photo) for still photography or  **Video** (video) for video recording. The options in the [**Video**] tab apply during video recording only.

The [Exposure] Tab

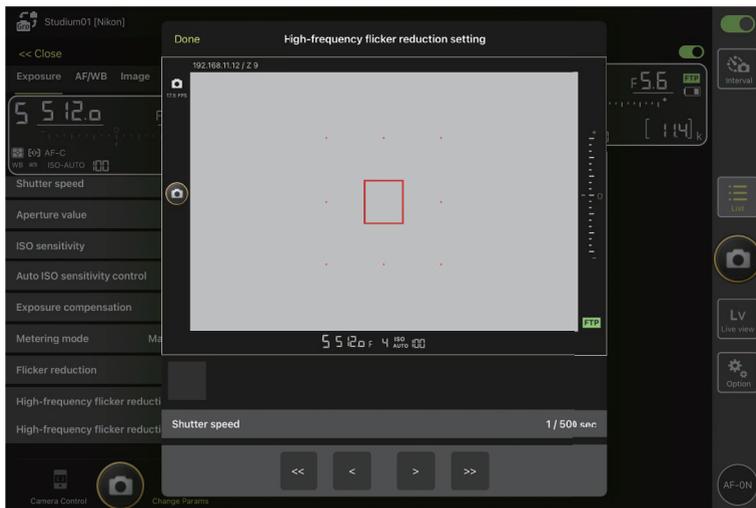
Adjust exposure settings, including exposure mode, shutter speed, and aperture.



High-Frequency Flicker Reduction

A **[High-frequency flicker reduction]** option is available when a Z 9 camera running “C” firmware version 2.10 or later is connected.

- Select **[Yes]** to enable **[High-frequency flicker reduction setting]**. You will then be able to adjust **[Shutter speed]** in smaller-than-normal increments while previewing the effect in the live view display. Tap **<<** or **>>** to adjust shutter speed by the amount selected on the remote camera. To adjust shutter speed in smaller increments, tap **<** or **>**.



- The shutter-speed display will show only the denominator, including the first digit following the decimal point.
- For more information on high-frequency flicker reduction, see the Z 9 Reference Guide.

■ The [AF/WB] Tab

Adjust autofocus and white balance settings. Some autofocus settings can also be accessed via camera control options (📖 175).



Measuring Spot White Balance

Spot white balance can be measured in the live view display when [**Preset manual**] is selected for white balance.

1. Select [**Preset manual**] for white balance.

White balance settings can be accessed from the [**AF/WB**] tab in the “change parameters” display.



2. Tap the  (camera control) button.



3. Tap the **LV** (LV) tab.

A live image from the remote camera will be displayed.



4. Tap the  (WB) button.

The button will turn yellow to indicate that direct measurement mode is selected.



5. Tap a neutral gray or white area of the subject.

If the measurement succeeds, the live view display will be highlighted in green and **[Success]** will be displayed.

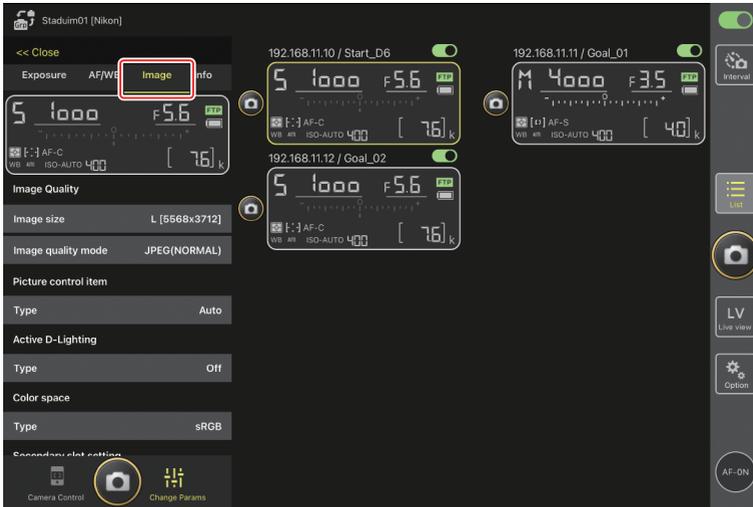
- If the live view display is not highlighted in green, tap a neutral gray or white area of the subject again.



6. Tap the  (WB) button again to exit direct measurement mode.

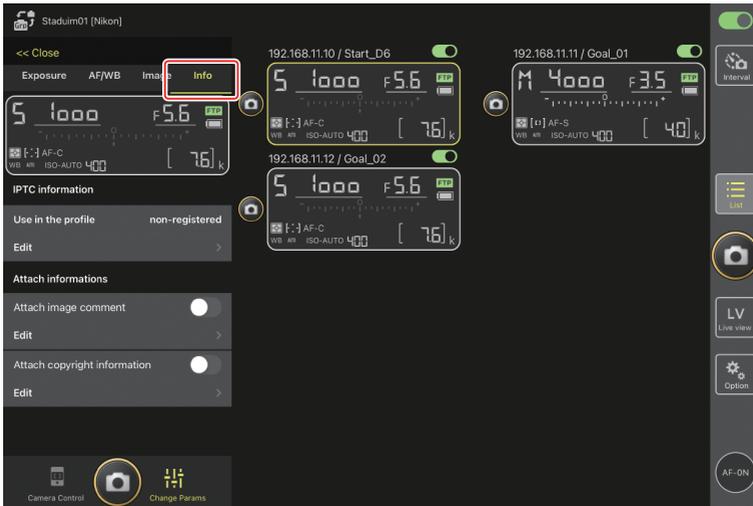
The [Image] Tab

Adjust image quality, Picture Controls, and other image-related settings.



The [Info] Tab

Select the data saved with pictures, including IPTC information and image comments.



■ The [Video] Tab

Choose the video file type and destination and adjust video-related settings, including those for the microphone, noise and flicker reduction, and time codes.



Viewing Pictures with the NX Field App

Viewing Pictures (Thumbnail Playback and Playback Zoom)

To view the pictures on the memory cards in the remote cameras, tap the  (playback) tab in the camera control display.



① **Display Name and [Group Name]** (📖 48)

The display name and group name.

② **[Close]**

Close the camera control panel.

③ **Camera Control Options**

Adjust settings for the playback display (📖 191).

④ **Camera, Playback, and LV Tabs**

Choose the tab to be displayed.

5 Refresh

Refresh the thumbnail display.

6 Find

Filter pictures by protection status or date of recording.

7 Slot Selection

Choose the slot containing the memory card from which pictures will be played back.

8 [Select]

Tap to enable picture selection.

9 Thumbnails

Thumbnail images showing the pictures on the memory card in the selected slot. Tapping a thumbnail displays the selected picture full frame.

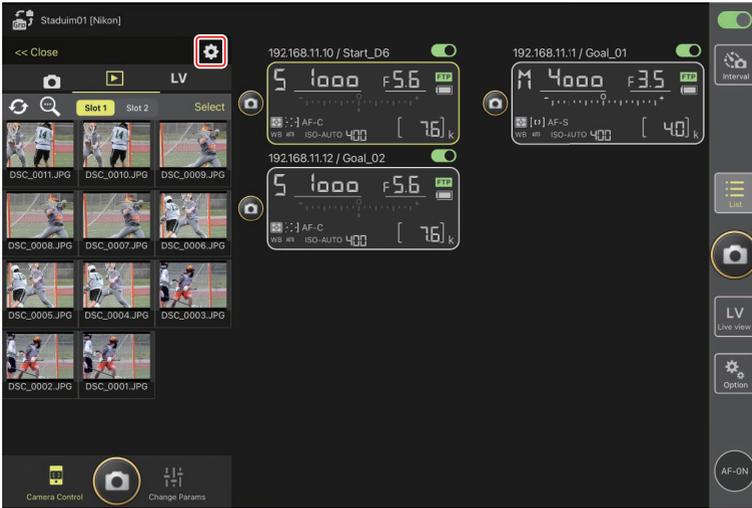
- The app displays only the JPEG copies of pictures recorded in NEF (RAW) + JPEG mode. "RAW" icons appear on the thumbnails.
- Pictures that have been uploaded to the FTP server are indicated by  icons, while those that are awaiting upload are indicated by  icons.
- To view the focus point active at the time the picture was taken, tap **[AF]** when a picture is displayed full frame. Tap **[Info.]** to view the date and time of recording, exposure mode, and other shooting info.
- In the case of RAW videos, only the MP4 proxy videos recorded with the RAW footage will be displayed. MP4 icons appear on the thumbnails.

Viewing Videos

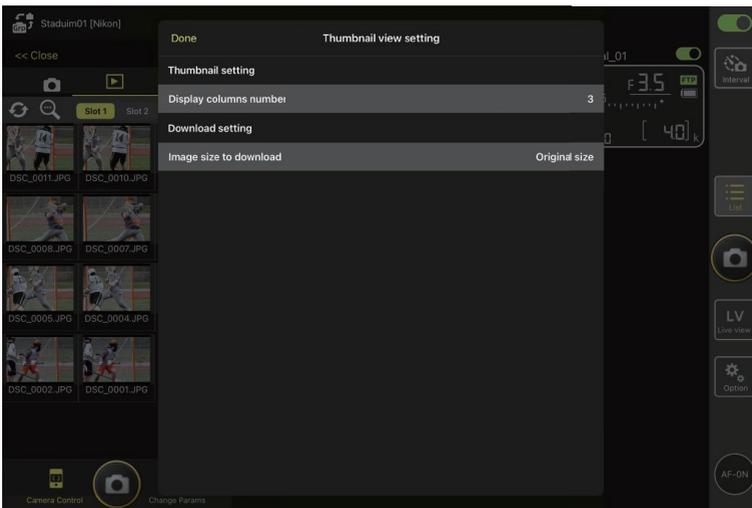
Videos cannot be viewed in the NX Field app. Videos can be shared or downloaded to the iPad's camera roll or the like for playback (📖 192).

■ Adjusting Playback Display Settings

Playback options can be adjusted by tapping the  (camera control options) button in the playback display.



Choose the number of columns in the thumbnail display and the size at which pictures will be downloaded. To do so, tap the desired settings.



Sharing and Downloading Pictures with an iPad

Pictures selected in the thumbnail list can be shared with others via e-mail or the like or downloaded from the remote camera to the *iPad*.

1. Tap **[Select]** in the thumbnail display.

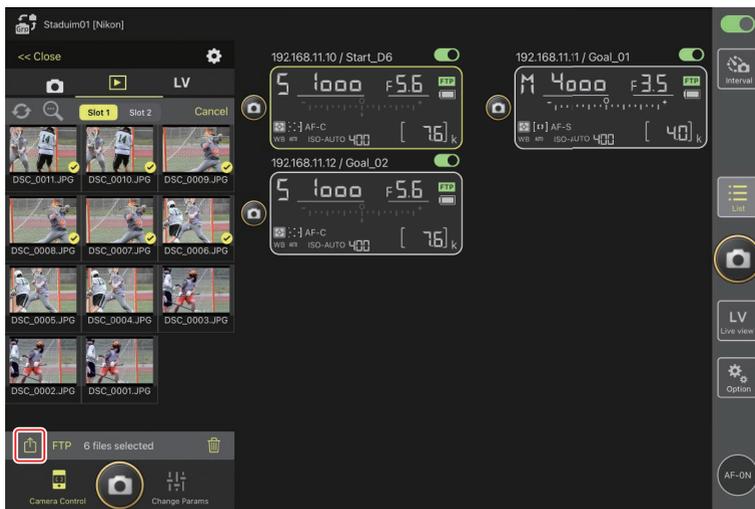


2. Select pictures to share.



3. Tap the (share) button.

The selected pictures can be shared with others via e-mail, messaging, or the like. They can also be downloaded to the iPad's camera roll.



Uploading Selected Pictures via FTP

Pictures selected in the thumbnail list can be uploaded from the remote camera via FTP.

1. Tap **[Select]** in the thumbnail display.



2. Select pictures for upload to the FTP server.



3. Tap the **FTP** (FTP) button.

A confirmation dialog will be displayed; tap **[OK]** to upload the selected pictures to the FTP server.



✓ Upload Status

Pictures are marked with  after upload and with  while awaiting upload. You can change remote camera settings, take pictures, and use live view while upload is in progress.

✍ Transfer Marking for Pictures After Upload

The camera displays upload marking for the most recent uploads only; the number of pictures for which upload marking is displayed varies with the camera:

- D6 and Z 9 cameras: 5000 (10,000 when two memory cards are inserted)
- D5 cameras: 1000

✍ FTP Upload Options

For information on changing FTP settings, see [Viewing and Adjusting FTP Settings in the NX Field App](#) (📖 198).

Deleting Selected Pictures

Pictures selected in the thumbnail list can be deleted from the remote camera.

1. Tap **[Select]** in the thumbnail display.

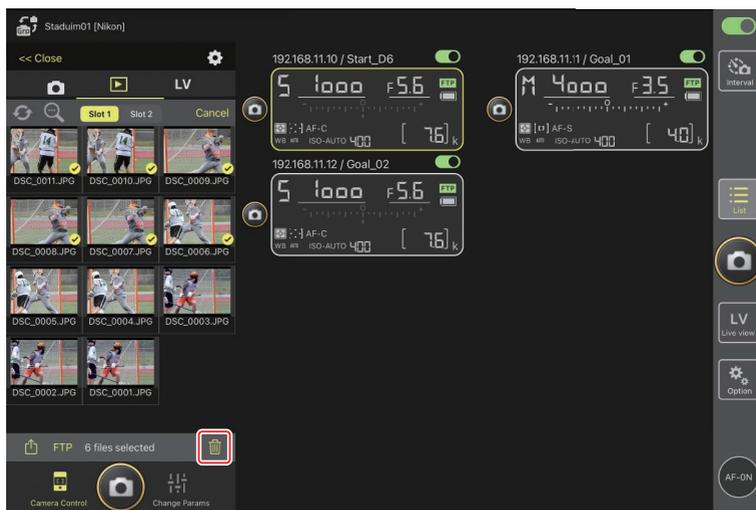


2. Select pictures for deletion.



3. Tap the (delete) button.

A confirmation dialog will be displayed; tap **[OK]** to delete the selected pictures from the remote camera.



During Deletion

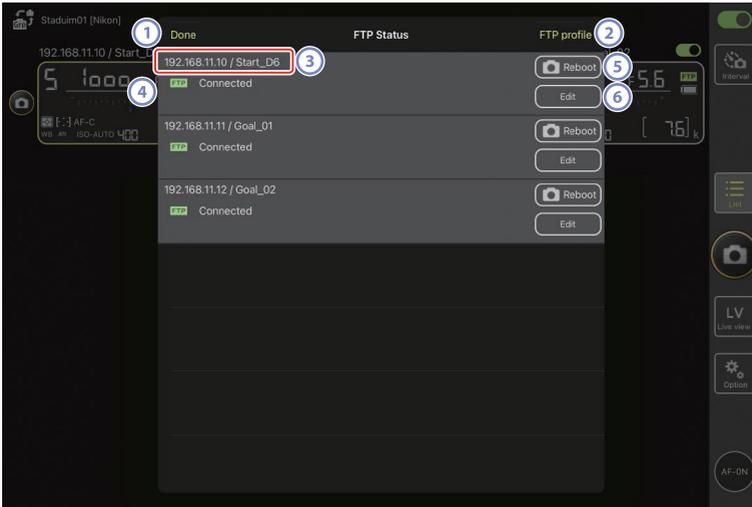
A round blue indicator is displayed during deletion. The NX Field app cannot be used while deletion is in progress.

Deleting Dual-Format Pictures

- Deleting the JPEG copy of pictures recorded with **[Overflow]** selected in NEF (RAW) + JPEG mode also deletes the NEF (RAW) copy.
- If **[Backup]** was selected, only the pictures on the memory card in the current slot will be deleted. Deleting the JPEG copy of pictures recorded in NEF (RAW) + JPEG mode also deletes the NEF (RAW) copy.
- If **[JPEG Slot 1 - JPEG Slot 2]** (D6 and Z 9 only) or **[RAW Slot 1 - JPEG Slot 2]** was selected, only the pictures on the memory card in the current slot will be deleted.

Viewing and Adjusting FTP Settings in the NX Field App

The NX Field app can be used to view and adjust the FTP settings for the cameras in the remote camera list. Go to  (options) > **[FTP Status]** to view FTP status.



① **[Done]**

Save any changes and exit the FTP settings display.

② **[FTP Profile]**

View existing FTP profiles ( 206) and your FTP connection history ( 202).

③ **IP Address/Remote Camera Name**

The IP address and name of the remote camera.

④ **Connection Status**

The status of the connection between the remote camera and the FTP server.

- The  (FTP) icon in the remote camera info area will be displayed in red if an FTP error occurs.

5 Reboot

Reboots the remote camera's network connection.

✓ Rebooting Connections

- Re-establishing the remote camera's network connection after a reboot takes about 30 seconds.
- Tap **[Reboot]** to recover from a server malfunction or disconnected Ethernet cable if the remote camera shows an error even after the FTP server has been restored.

6 Edit

Directly edit remote camera FTP profiles (📖 200) or choose profiles from a list (📖 206).

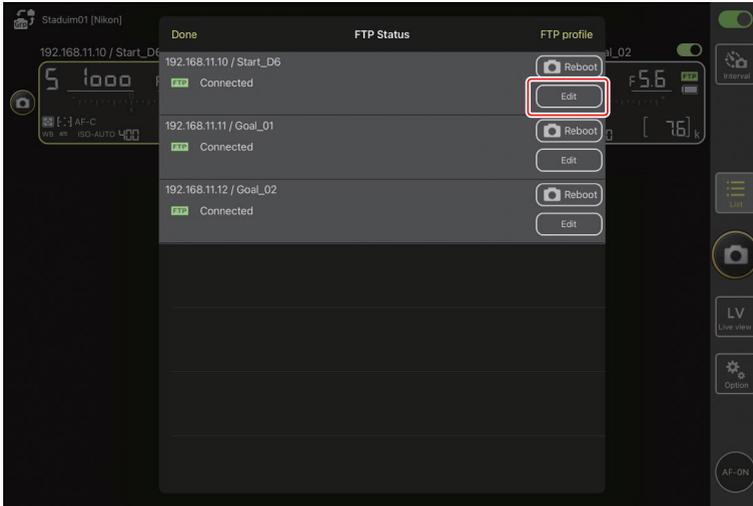
✓ FTP Server Down

If the FTP server goes down while upload is in progress, the connection between the NX Field app and the remote cameras may become erratic and subsequently be lost. To reconnect, wait a few minutes before restoring the connection switch to the  (on) position.

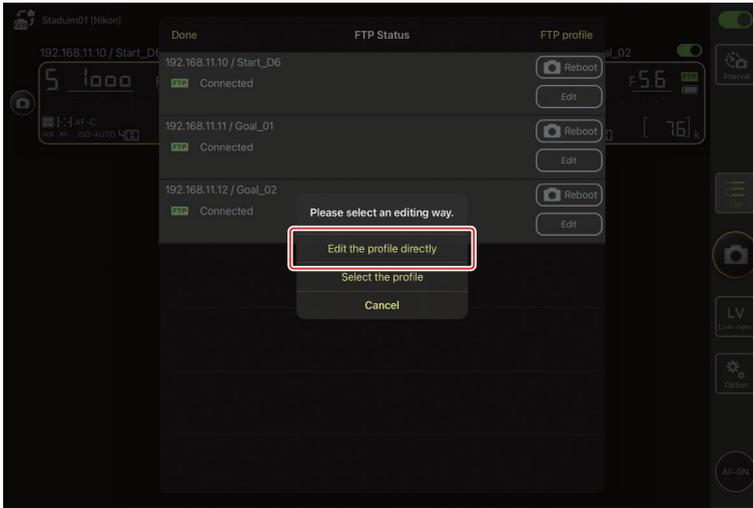
Editing Remote Camera FTP Profiles Directly

Edit the current FTP profile to choose a different destination. You may need to do this when, for example, the FTP server is temporarily down.

1. Tap the  (edit) button for the desired remote camera in the FTP status display.
 - This option is available only with cameras listed as **[Connected]**.



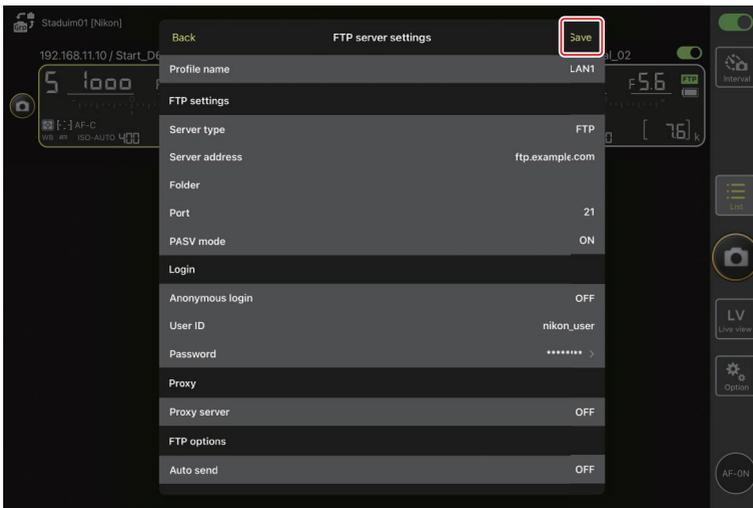
2. Tap [Edit the profile directly].



3. Edit the IP address, port number, and other FTP profile settings and tap [Save].

The remote camera will reboot the connection as it updates the FTP profile.

- If the connection is a success, [**Connected**] will appear in the FTP status display.



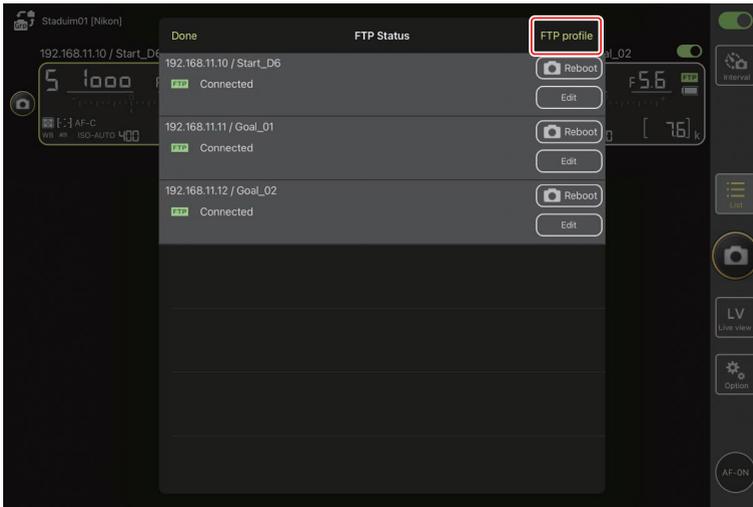
Adding FTP Profiles

You can add profiles from the connection history or enter new profiles directly and add them to the list. The FTP profiles in the list can be used to choose the destination for pictures uploaded from remote cameras.

■ Adding Profiles from the Connection History

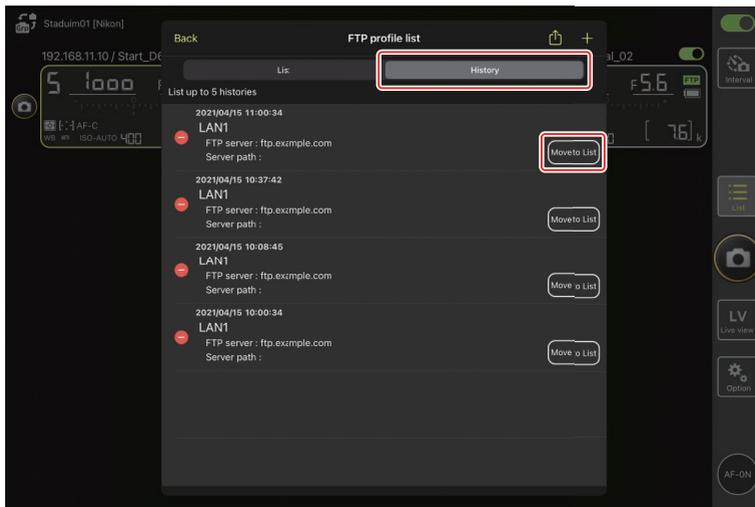
Select profiles in the connection history and add them to the list.

1. Tap **[FTP profile]** in the FTP status display.



2. Tap **[History]** and then tap the **Move to List** (move to list) button for the desired FTP profile in the connection history.

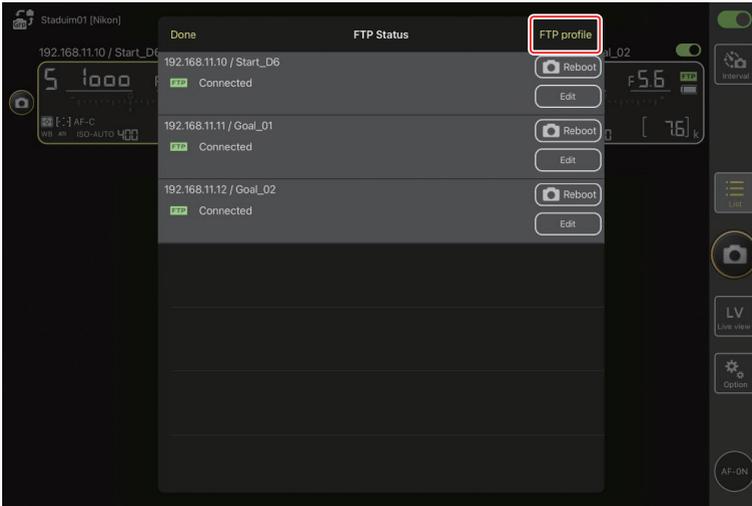
The selected FTP profile will be added to the list and can be used for subsequent connections.



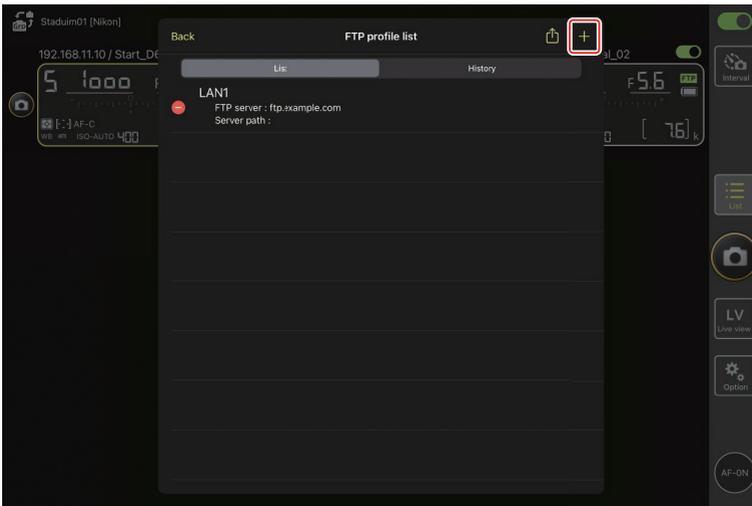
■ Entering FTP Profiles Directly

Enter an FTP server profile and add it to the FTP profile list.

1. Tap **[FTP profile]** in the FTP status display.

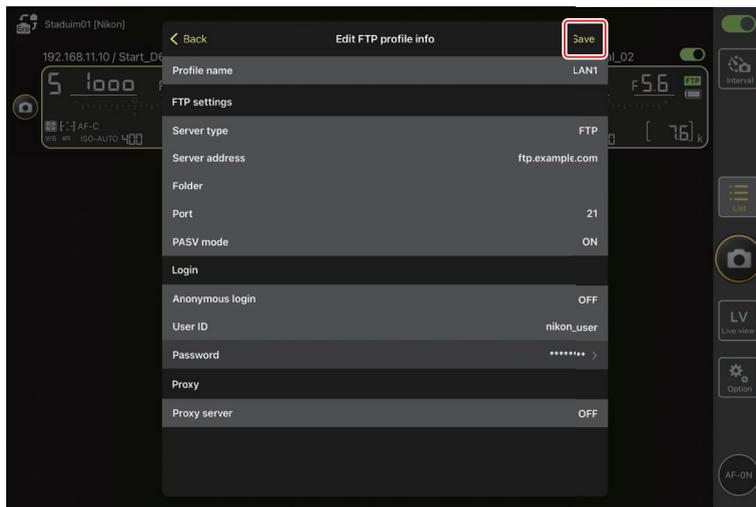


2. Tap **+**.



3. Enter the desired settings and tap **[Save]**.

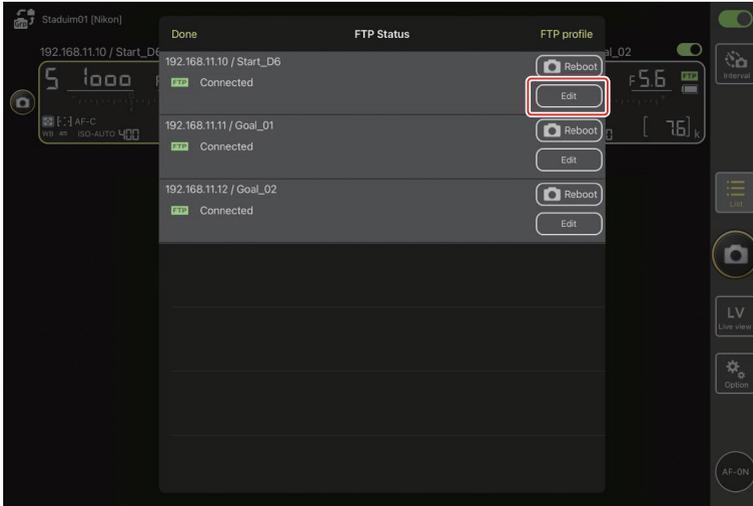
The new FTP profile will be added to the list and can be used for subsequent connections.



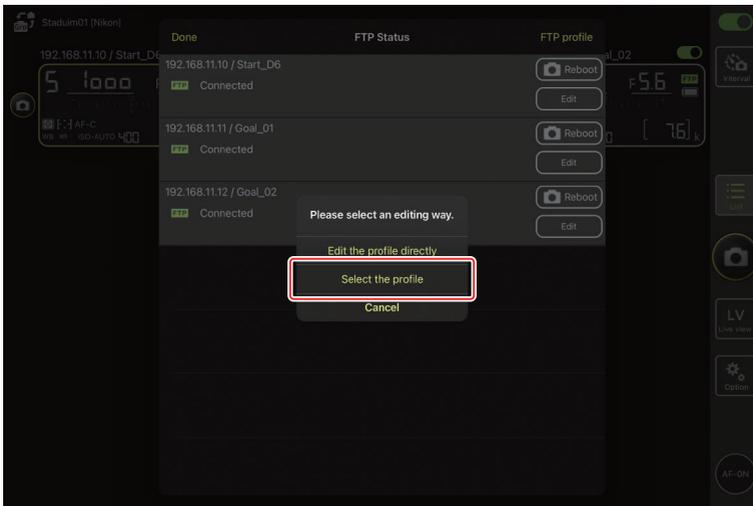
■ Selecting Destinations from the FTP Profile List

The FTP profiles in the list can be used to choose the destination for pictures uploaded from remote cameras.

1. Tap the  (edit) button for the desired remote camera in the FTP status display.



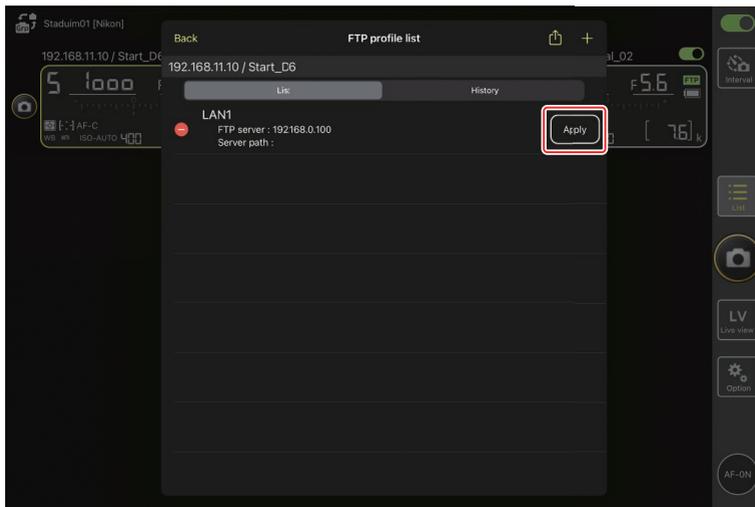
2. Tap **[Select the profile]**.



3. Tap the **Apply** (apply) button for the desired FTP profile.

The remote camera will reboot the connection as it updates the FTP profile.

- If the connection is a success, [**Connected**] will appear in the FTP status display.



Caution: Choosing FTP Profiles

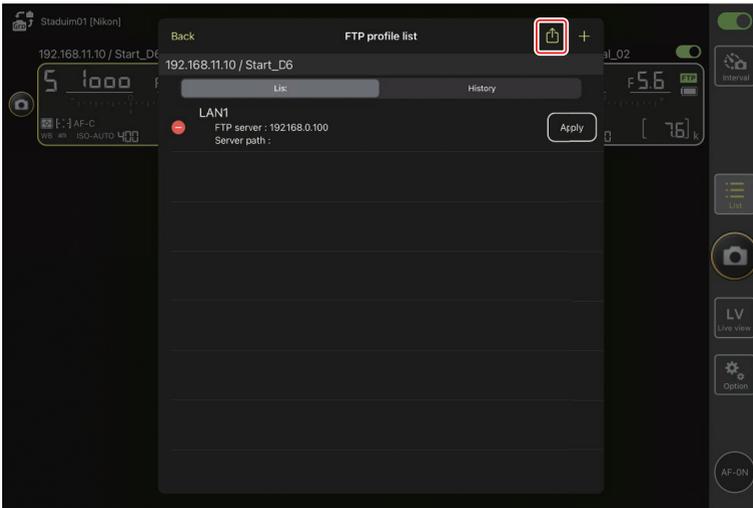
FTP profiles containing settings for FTPS or other features available only with specific cameras or camera firmware can be selected only if the features are supported by the camera in question.

Copying Remote Camera FTP Profiles to Other iPhones or iPads

Remote camera FTP profiles can be copied to the NX Field apps on other iPhones or iPads.

In the FTP profile list, tap the  (share) button and select a sharing method and destination.

Tap **[OK]** in the confirmation dialogs displayed on the source and destination devices to complete the operation.

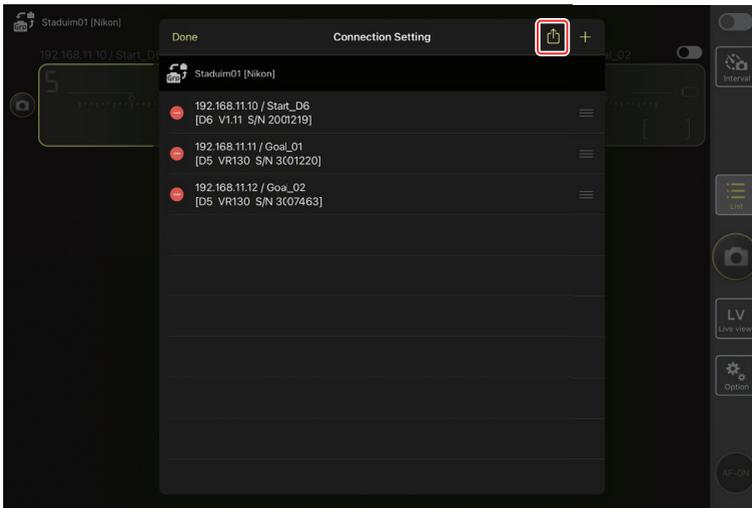


Copying Connection Settings for All Remote Cameras to Other iPhones or iPads

The IP addresses and camera names for remote cameras with display names saved in the NX Field app (📖 52) can be copied to the NX Field apps on other iPhones or iPads.

Go to  (options) > [**Connection Setting**], tap the  (share) button, and then select a sharing method and destination.

Tap [**OK**] in the confirmation dialogs displayed on the source and destination devices to copy the IP addresses and camera names for all remote cameras with the current display name on the source device to the NX Field app on the destination device.

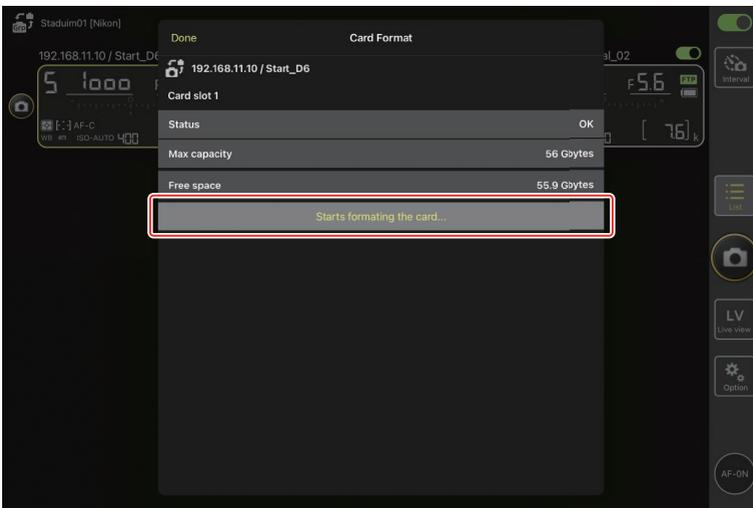


Formatting Remote Camera Memory Cards with the NX Field App

To format memory cards inserted in remote cameras, go to  (options) and select **[Card Format]**.



Highlight the slot containing the memory card and tap **[Starts formatting the card...]**. A confirmation dialog will be displayed; tap **[OK]** to format the memory card.



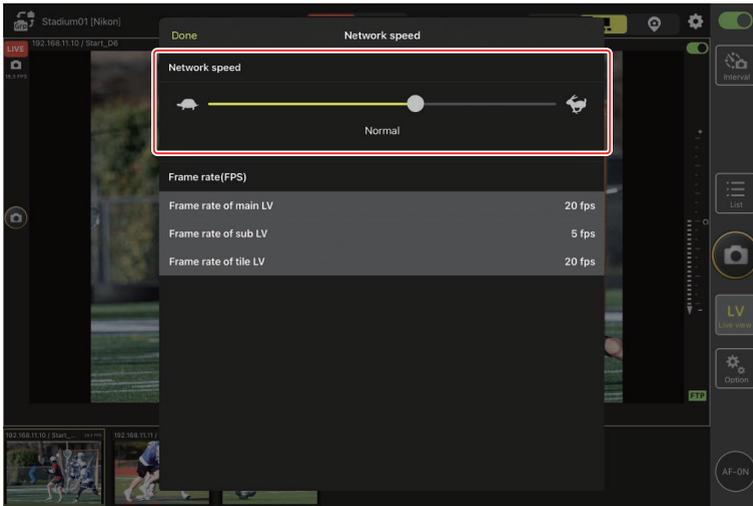
Upload Speed and Frame Rate

Lowering the upload speed and live view display frame rate can help make NX Field more responsive when the network is slow.

Choosing an Upload Speed

Upload speed can be adjusted by going to  (options), selecting **[Option]** > **[Network speed]**, and using the slider.

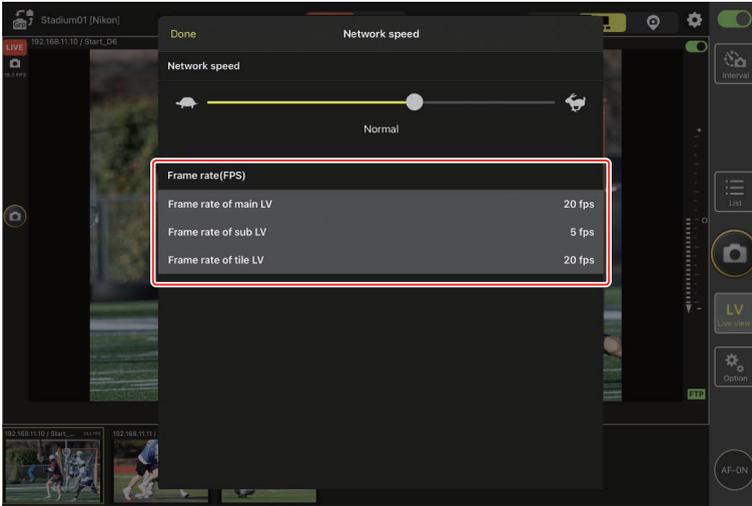
- Tap **[Done]** to save changes.



Choosing a Frame Rate for Live View

To choose a frame rate for the live view display, go to  (options), select **[Option]** > **[Network speed]**, and tap the desired view (main, secondary, or tiled).

- Choose from values of from 1 through 30 fps. Choosing slow frame rates when the app is sluggish can help make it more responsive.
- Tap **[Done]** to save changes.



Live View Options

Frame rate can also be adjusted from the live view options dialog ( 168).

Using Wake-on-LAN to Activate the Standby Timers on Remote Cameras (D6 Only)

The D6 supports the NX Field app's Wake-on-LAN (WOL) feature, used to activate the standby timers on remote cameras. To use WOL, you will need to supply the NX Field app with the remote camera's MAC address.

Connection Settings

End the connection to the remote camera before making changes to **[Connection Setting]**.

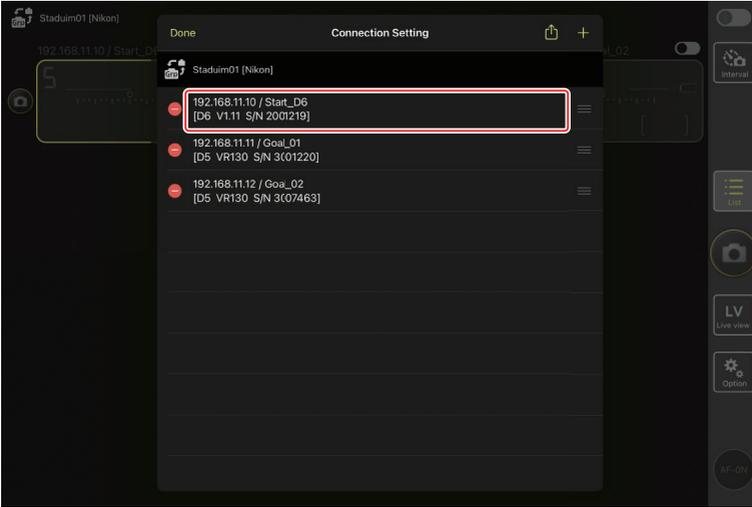
Entering MAC Addresses for Remote Cameras

Entering the remote camera's MAC address enables WOL.

1. Select **[Connection Setting]** under  (options).

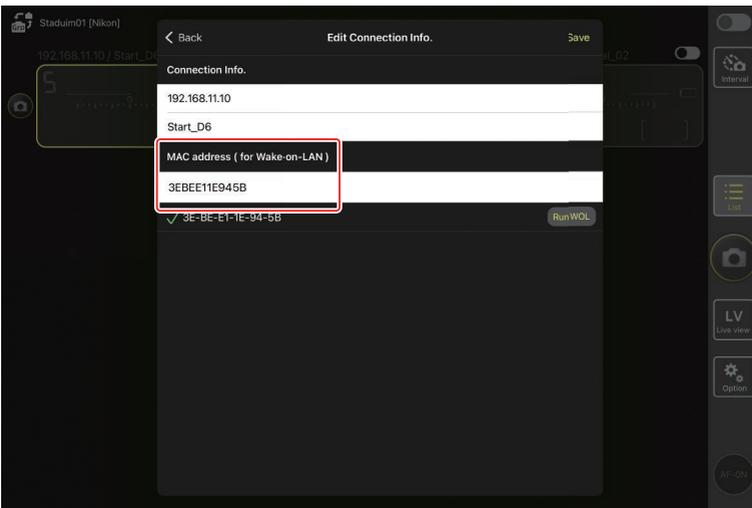


2. Tap the connection information for a remote D6 camera to be configured for use with WOL.



3. Enter an MAC address and tap **[Save]**.

The remote camera's MAC address can be viewed by selecting **[Wired LAN/WT] > [Options] > [MAC address]** in the camera setup menu. You do not need to enter the hypens.



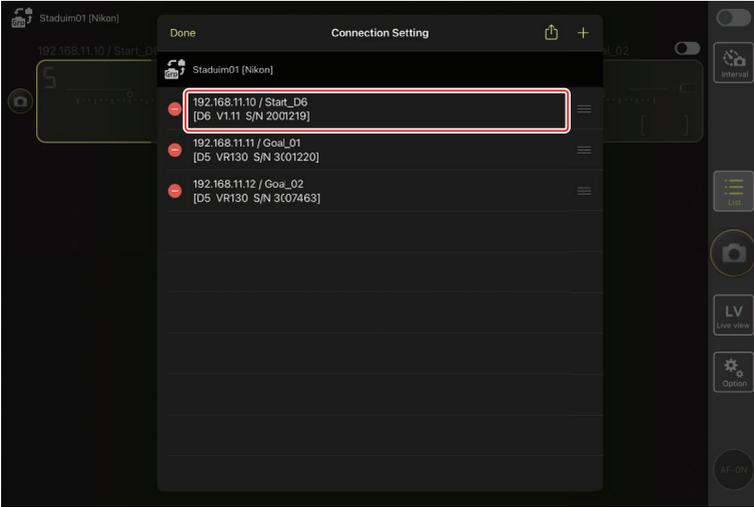
Using WOL to Activate the Standby Timers on Remote Cameras

Run WOL to activate the standby timers on remote cameras.

1. Select [**Connection Setting**] under  (options).

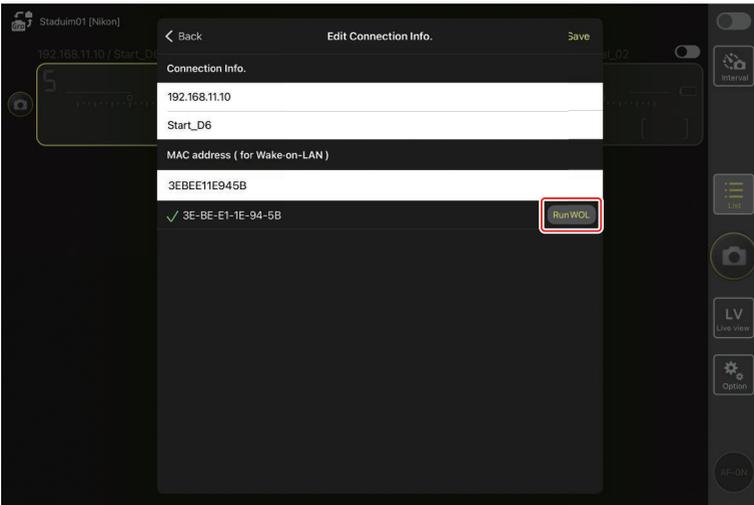


2. Tap the connection information for a remote D6 camera to be configured for use with WOL.



3. Tap the **Run WOL** (run WOL) button.

A confirmation dialog will be displayed; tap **[OK]** to activate the standby timer on the remote camera.



☑ **Cautions: Using WOL**

- Consult the network administrator for information on WOL support.
- Given that it takes about 30 seconds to re-establish the network connection after the standby timer restarts, we recommend selecting settings of 10 or 30 minutes for [**Standby timer**] in the camera menus.
- Be sure the remote camera is on.

📝 **Using WOL to Start the Standby Timer**

WOL can only be used to start the standby timer if both the remote camera and the iPhone or iPad are on the same network. WOL may not function if the devices are on different networks connected via a router.

Other Options

To access such settings as connection time-outs and notification levels, go to  (options) and select **[Option]**.



Item	Sub-item	Description
Misc settings	Sets date & time by local time	Choose whether to synchronize the clocks on the remote cameras with the iPad.
	Connection timeout	Choose how long the app will continue to attempt connection when there is no response from the remote camera. An error will occur if a connection cannot be made in the time selected.

Item	Sub-item	Description
Warning notification	Enable notification	Choose whether notifications are displayed.
	Number of exposures remaining	A warning will be displayed if the space remaining on the memory card in the remote camera falls below this limit.
	Recordable time (minute)	A warning will be displayed if the recording time available falls below this limit.
	Battery level	A warning will be displayed if the battery in the remote camera falls below this limit. If "1%" is selected, the connection to the remote camera may be lost before the warning can be displayed.
Network speed	Network speed	Choose an upload speed.
	Frame rate (FPS)	Choose a frame rate for the live view display.
AF-On button setting	Button behavior	<p>Choose how the  (AF-ON) button behaves during video recording.</p> <ul style="list-style-type: none"> • [Push type]: The camera focuses while the  (AF-ON) button is pressed. • [Toggle type]: Focus starts when you tap the  (AF-ON) button and continues until you tap the button a second time.

Item	Sub-item	Description
Video setting	Confirmation to stop recording	Choose whether a confirmation dialog will be displayed when recording is ended.
Wake-on-LAN (D6 only)	Run Wake-on-LAN to cameras	Choose whether to run WOL.
Save camera settings	—	Save current settings to the camera.
Information	Version	View version information.
	License information	View license information.
	Privacy policy	View the privacy policy.
	Support	Open your web browser to the customer support website.

Using the NX Field System: Z 7II, Z 6II, Z 7, and Z 6 Cameras

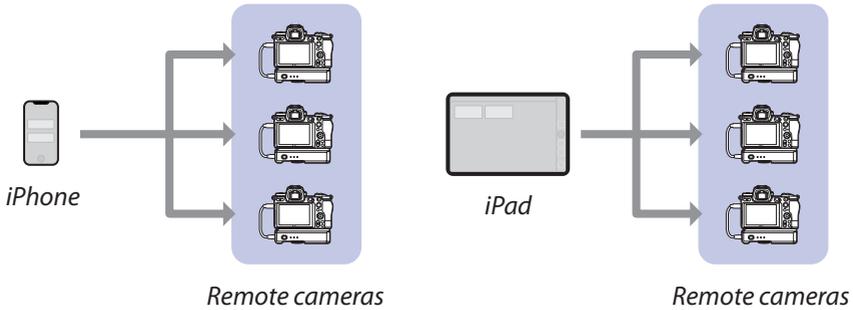
The NX Field system lets you operate cameras remotely from an iPhone or iPad running the NX Field app (📖 223). Before it can be used with the NX Field system, the camera will need a fee-for-service update from a Nikon-authorized service representative to install compatible firmware (📖 225).

☑ **Supported Cameras**

- Cameras for use with the NX Field system must be configured for connection by means of dedicated (Windows) computer software.
- WT-7 wireless transmitters must be connected to cameras for use with the NX Field system. Although the NX Field system can connect to wireless networks via the WT-7, Ethernet networks are a better choice as they ensure reliable remote camera control unaffected by variations in signal strength. To reconnect after losing a wireless connection due to signal interruption or the like, wait for the network to restart and then turn the camera off and on.

What the NX Field System Can Do for You

The NX Field system lets you take pictures using multiple remote cameras controlled from an iPhone or iPad.



[Taking Pictures Remotely with an iPhone](#) (📖 233)

[Taking Pictures Remotely with an iPad](#) (📖 234)

☑ Networks

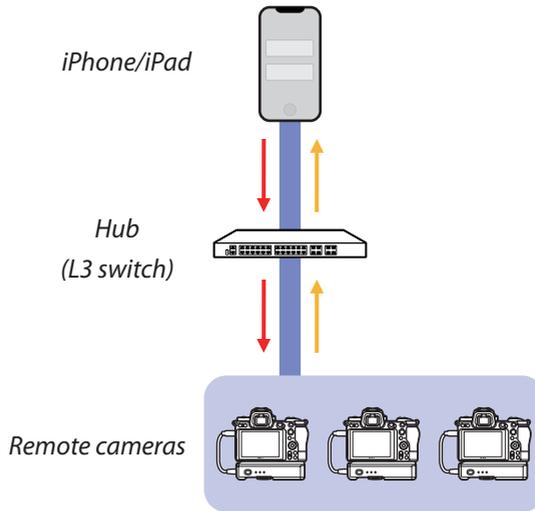
- The iPhone or iPad must be on the same local network as the remote cameras.
- Once a connection has been established between the remote cameras and an iPhone or iPad, attempting to establish a second such connection will terminate the first connection without establishing a connection to the second device. End the connection to the current device before attempting to connect another iPhone or iPad.

✎ Mixing Cameras of Different Types

iPhones and iPads can be used to release the shutters on remote cameras in groups that include a mix of different camera types.

The NX Field App

The NX Field app runs on iPhones and iPads. It can be used to control—and issue release commands to—multiple remote cameras on the same local network.



→ Remote release commands/remote setup

→ Remote release/remote camera status

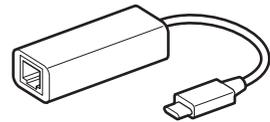
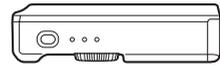
☑ How the iPhone and iPad Apps Differ

Apart from some features available only in the iPad version, such as support for multiple live-view displays (📖 154) and “skins” for mapping the locations of remote cameras (📖 164), the iPhone and iPad versions of the app are basically identical.

What You'll Need

When using the NX Field app, you'll need:

- Z 7II, Z 6II, Z 7, or Z 6 cameras that
 - have the NX Field firmware update installed and
 - are configured for connection using a Windows computer,
- a WT-7 wireless transmitter,
- an iPhone or iPad with the NX Field app installed,
- an Ethernet-to-USB-Type-C or an Ethernet-to-Lightning adapter (for connecting to Ethernet networks), and



other network peripherals as required given the connection type.

Configuring Your Devices for the NX Field System

Configure the cameras and iPhone or iPad for use with the NX Field system.

Updating the Camera Firmware to a Version Compatible with NX Field

The camera firmware must be updated to a version that supports NX Field. Updates can be performed by a Nikon-authorized service representative (a fee is charged for this service).

Configuring Cameras for Connection Using a Computer

Connection profiles configuring remote cameras for use with the NX Field System can be created using Pairing Tool for NX Field software for Windows computers.

- The Pairing Tool for NX Field is available for download from the website below. You can also view the system requirements and latest information for NX Field. <https://downloadcenter.nikonimglib.com/>
- Pairing Tool for NX Field is not compatible with macOS.

■ Creating a Connection Profile

Follow the steps below to create a new connection profile.

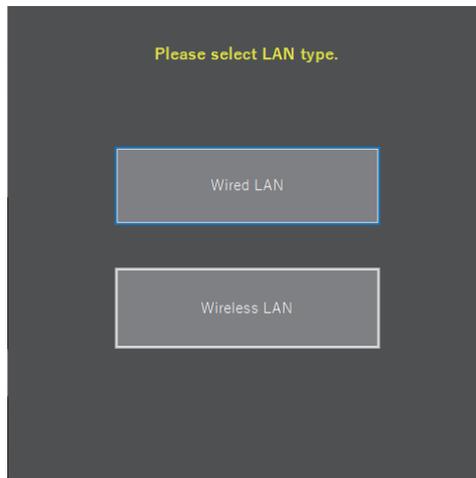
1. Turn on the remote camera.

Why Turn the Camera On?

Although the computer will detect the camera even when the latter is off, the configuration process can only be completed if the camera is connected while on.

2. Connect the camera to the computer using the USB cable supplied with the camera.
3. Extract the contents of the Pairing Tool for NX Field archive and double-click the "Pairing Tool for NX Field.exe" icon.

A splash screen will be displayed, followed by a dialog prompting you to choose the LAN type.

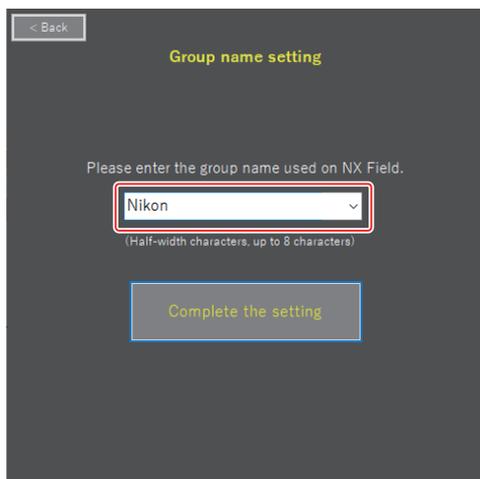


4. Select [**Wired LAN**] > [**Create new profile**] and choose [**Fixed IP address**] when prompted.

The screenshot shows a dark-themed interface titled "IP address setting [Wired LAN]". At the top left is a "< Back" button. Below the title are two radio button options: "DHCP (Automatically IP address)" and "Fixed IP address". The "Fixed IP address" option is selected and highlighted with a red rectangular box. Below these options are four rows of input fields, each with four small boxes separated by dots: "IP address", "Subnet mask", "Default GW", and "DNS server". The "Default GW" and "DNS server" rows have a small square checkbox to their left, which is currently unchecked. At the bottom center is a "Next" button.

- Although NX Field does support [**DHCP (Automatically IP address)**], a fixed IP address is recommended as otherwise you will have to update the NX Field app whenever the IP address changes, for example on reconnecting to the network or when the DHCP lease expires.
 - Complete the [**Default GW**] and [**DNS server**] fields if required.
5. Enter the remote camera IP address and subnet mask.
 - Ignore leading zeros when supplying the IP address—for example, enter “1” in place of a segment entered on the camera as “001”.
 6. Click [**Next**].

7. Enter a **[Group name]** for use in NX Field.



- See [Getting Ready: iPhones](#) (📖 31) and [Getting Ready: iPads](#) (📖 41) for information on adjusting connection settings for iPhones and iPads, respectively.

8. Click **[Complete the setting]**.

The new profile will be saved under **[Wireless transmitter (WT-7)]** > **[Network settings]** in the camera setup menu and the Pairing Tool for NX Field will exit.

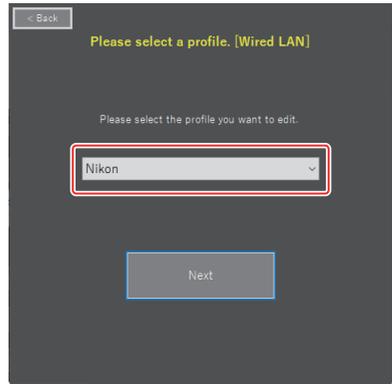
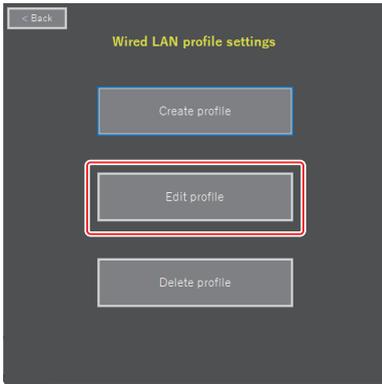
- The profile will be named using the group name chosen in Step 7.

🔧 Restoring Profiles After Resetting Camera Settings

Selecting **[Reset all settings]** in the camera setup menu resets the settings for profiles created using the Pairing Tool for NX Field to default values. The previous settings must be restored manually.

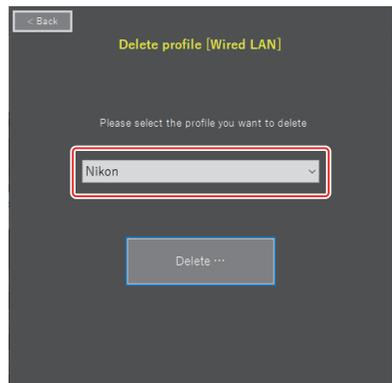
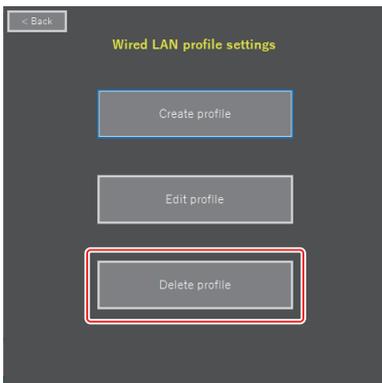
■ Editing Connection Profiles

To edit an existing profile, click [**Edit profile**] in the dialog displayed after you selected [**Wired LAN**] and choose a profile when prompted.



■ Deleting Connection Profiles

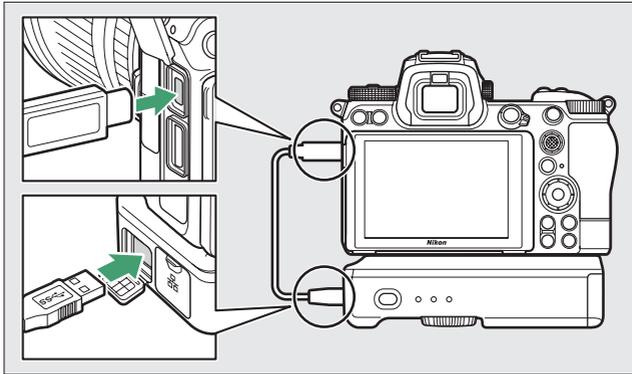
To delete an existing profile, click [**Delete profile**] in the dialog displayed after you selected [**Wired LAN**] and choose a profile when prompted.



Configuring Cameras for Use with the NX Field App

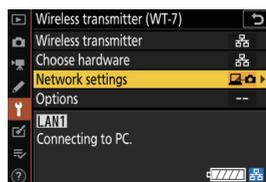
Configure the camera so that it can be detected by the NX Field app using the profile created in the Pairing Tool for NX Field.

1. Connect the camera to the WT-7 using the USB cable supplied with the camera.



- For information on connecting to networks using a WT-7 wireless transmitter, see the documentation supplied with the WT-7.
2. Connect the WT-7 via Ethernet to the same network as the iPhone or iPad running NX Field.
- Although the WT-7 does support wireless connections, we recommend that the connection be made via Ethernet, as this ensures reliable remote camera control unaffected by variations in signal strength.

3. Turn the WT-7 on.
4. Adjust settings as required using the [**Wireless transmitter (WT-7)**] item in the camera setup menu.
 - Adjust settings as follows:
 - [**Wireless transmitter**]: [**Use**]
 - [**Choose hardware**]: [**Wired LAN**]
 - [**Networks settings**]: Choose the profile (group name) you selected on the computer.
 - The NX Field app will be able to detect the camera when [**Connecting to PC**] appears in the setup menu [**Wireless transmitter (WT-7)**] display.



The Standby Timer

The NX Field app will end live view if the shooting displays on the remote cameras turn off. Select **[No limit]** for Custom Setting c3 **[Power off delay]** > **[Standby timer]**.



The Photo/Movie Selector

Rotate the photo/movie selectors on remote cameras to  when taking photographs. If  is selected, a confirmation dialog will be displayed every time live view is enabled in the NX Field app.

Remote camera settings have now been adjusted for use with the NX Field app. See [Getting Ready: iPhones](#) (📖 31) or [Getting Ready: iPads](#) (📖 41) for information on readying your iPhone or iPad. Once preparation is complete, proceed to any of the following sections according to the task at hand:

[Taking Pictures Remotely with an iPhone](#) (📖 233)

[Taking Pictures Remotely with an iPad](#) (📖 234)

Taking Pictures Remotely with an iPhone

iPhones running the NX Field app can be used to adjust settings or release the shutters on remote cameras.

- The NX Field app does not support FTP upload from the Z 7II, Z 6II, Z 7, or Z 6.

Taking Pictures with the NX Field App

- For information on the buttons and icons in the NX Field app, see [NX Field App Displays](#) (□ 69).
- For information on taking pictures with the NX Field app, see [Taking Pictures with the NX Field App](#) (□ 74).
- For information on adjusting focus and other remote camera settings from the NX Field app, see [Adjusting Remote Camera Settings from the NX Field App](#) (□ 86).

Viewing Pictures with the NX Field App

- For information on viewing, sharing, and saving pictures with the NX Field app, see [Viewing Pictures with the NX Field App](#) (□ 97).

Other Features

- For information on copying remote camera settings from NX Field to other iPhones or iPads, see [Copying Connection Settings for All Remote Cameras to Other iPhones or iPads](#) (□ 117).
- For information on formatting remote camera memory cards with the NX Field app, see [Formatting Remote Camera Memory Cards with the NX Field App](#) (□ 118).
- For information on advanced options, including connection time-outs and notification levels, see [Other Options](#) (□ 126).

Taking Pictures Remotely with an iPad

iPads running the NX Field app can be used to adjust settings or release the shutters on remote cameras.

- The NX Field app does not support FTP upload from the Z 7II, Z 6II, Z 7, or Z 6.

Taking Pictures with the NX Field App

- For information on the buttons and icons in the NX Field app, see [NX Field App Displays](#) (□ 129).
- For information on taking pictures with the NX Field app, see [Taking Pictures with the NX Field App](#) (□ 140).
- For information on adjusting focus and other remote camera settings from the NX Field app, see [Adjusting Remote Camera Settings from the NX Field App](#) (□ 175).

Viewing Pictures with the NX Field App

- For information on viewing, sharing, and saving pictures with the NX Field app, see [Viewing Pictures with the NX Field App](#) (□ 189).

Other Features

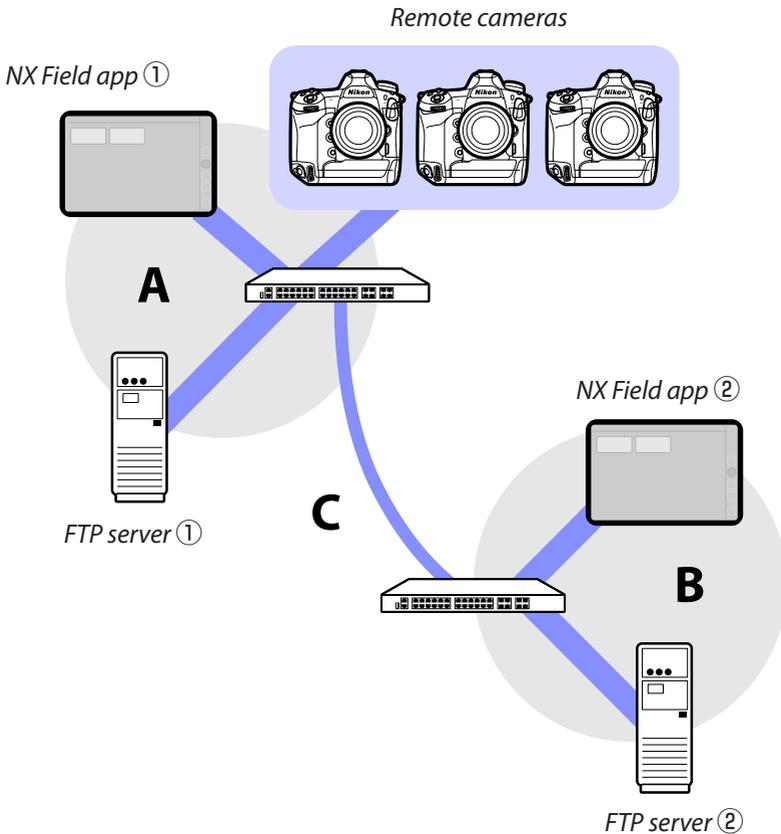
- For information on copying remote camera settings from NX Field to other iPhones or iPads, see [Copying Connection Settings for All Remote Cameras to Other iPhones or iPads](#) (□ 209).
- For information on formatting remote camera memory cards with the NX Field app, see [Formatting Remote Camera Memory Cards with the NX Field App](#) (□ 210).
- For information on advanced options, including connection time-outs and notification levels, see [Other Options](#) (□ 218).

Technical Notes

Recommended Auto Upload Settings for Different Network Bandwidths

D6, D5, and Z 9 Cameras

As is shown in the figure below, the suggested environments for auto upload vary with bandwidth and the connection between the iOS device and the FTP server.



If the remote cameras, FTP server, and NX Field app are all on the same network (Network A):

Effective speed within Network A	LV photography	List photography
100 Mbps	✓ ^{1,2}	✓
1 Gbps	✓	✓

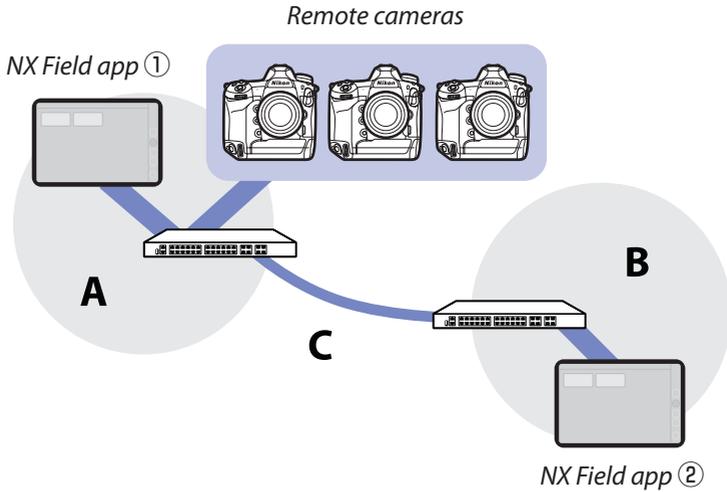
If the FTP server and/or NX Field app are not on the same network as the remote cameras (Network A):

Effective speed within Network A	Effective speed within Network B	Effective speed between hubs (C)	LV photography	List photography
100 Mbps		< 50 Mbps	— ¹	✓ ^{1,2}
		100 Mbps	✓ ^{1,2}	✓ ^{1,2}
1 Gbps			✓	✓

1. Using auto upload affects the reliability of the app.
2. Auto upload from three or more cameras, or remote control of three or more cameras during upload, is not recommended (each camera requires 50 Mbps of bandwidth).

Z 7II, Z 6II, Z 7, and Z 6 Cameras

As is shown in the figure below, the suggested network environment varies with bandwidth and the connection between the cameras and the iOS device.



If the NX Field app is on the same network as the remote cameras (Network A):

Effective speed within Network A	LV photography	List photography
100 Mbps	✓	✓
1 Gbps	✓	✓

If the NX Field app is not on the same network as the remote cameras (Network A):

Effective speed within Network A	Effective speed within Network B	Effective speed between hubs (C)	LV photography	List photography
100 Mbps		< 50 Mbps	—	✓
		100 Mbps	✓	✓
1 Gbps			✓	✓

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