# Nikon

# **NX Field System**

**User's Manual** 

# **Table of Contents**

About This Document	5
Symbols	5
Conventions	5
Background Knowledge	6
Compatible Cameras	6
Using the NX Field System	7
What the NX Field System Can Do for You	8
The NX Field App	11
What You'll Need	13
Configuring Your Devices for the NX Field System	14
Readying the Cameras	14
Restrictions and Settings for Remote Cameras Controlled from the NX Field App	37
Getting Ready: iPhones	40
Getting Ready: iPads	52
Taking and Uploading Pictures with Master	
and Remote Cameras (Synchronized Release)	73
Synchronized Release	73
Synchronized Release Settings	75
Viewing Remote Camera Status	77
Autofocus Settings for Remote Cameras	80

Remotely Taking and Selecting Pictures for Upload	
with an iPhone	81
NX Field App Displays	82
Taking Pictures with the NX Field App	93
Performing Auto Capture Operations on the NX Field App	107
Adjusting Remote Camera Settings from the NX Field App	124
Viewing Pictures with the NX Field App	141
Viewing and Adjusting FTP Settings in the NX Field App	156
Copying Connection Settings for All Remote Cameras to Other iPhones or iPads	167
Formatting Remote Camera Memory Cards with the NX Field App	168
Upload Speed and Frame Rate	169
Using Wake-on-LAN to Activate the Standby Timers on Remote Cameras (D6 Only)	171
Operate Remote Cameras Connected to an iPhone via a Gamepad	176
Other Options	177
Remotely Taking and Selecting Pictures for Upload	100
with an iPad	180
NX Field App Displays	181
Taking Pictures with the NX Field App	199
Group Release	246
Performing Auto Capture Operations on the NX Field App	252
Adjusting Remote Camera Settings from the NX Field App	269

1	Technical Notes	337
	Other Options	.333
	Operate Remote Cameras Connected to an iPad via a Gamepad	.331
	Using Wake-on-LAN to Activate the Standby Timers on Remote Cameras (D6 Only)	.326
	Upload Speed and Frame Rate	.324
	Formatting Remote Camera Memory Cards with the NX Field App	.323
	Copying Connection Settings for All Remote Cameras to Other iPhones or iPads	.322
	Viewing and Adjusting FTP Settings in the NX Field App	.310
	Viewing Pictures with the NX Field App	.290

Recommended Auto Upload Settings for Different Network Bandwidths..... 337

339

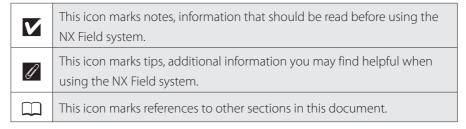
Index

# **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.



### **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".
- Most screenshots in this document show app functions with a Z9 "C" firmware version 5.10 and iOS/iPadOS version 17.

# **Background Knowledge**

This document assumes basic knowledge of networks and 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 Z9, Z8, Z6III, and D6.

# Using the NX Field System

The NX Field system lets you operate cameras remotely from a master camera or from an iPhone or iPad running the NX Field app ( $\square$  11). The cameras will require an update to install compatible firmware before they can be used with the NX Field system.

#### **☑** Updating the Camera Firmware

- Cameras that support NX Field features via normal firmware updates:
  - Z9 cameras ("C" firmware version 5.20 or later)
  - Z8 cameras ("C" firmware version 3.00 or later)
  - Z6III cameras ("C" firmware version 2.00 or later)
- Cameras that require a fee-for-service update from a Nikon-authorized service representative to use NX Field features:
  - D6 cameras

#### Checking Camera Firmware

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

- Z9, Z8, and Z6III cameras: [Connect to other cameras] > [Link profile].
- D6 cameras: [Wired LAN/WT] > [Options] > [Sync. release with FTP].

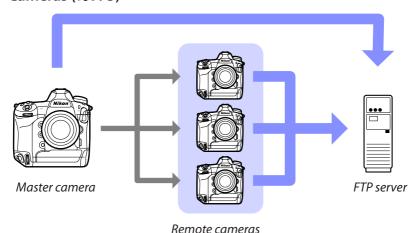
# What the NX Field System Can Do for You

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

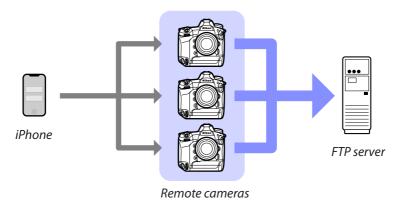
#### Wireless Connections

Although the NX Field system can connect to wireless networks via a WT-6 wireless transmitter or the Z9, Z8, or Z6III's built-in wiresless 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.

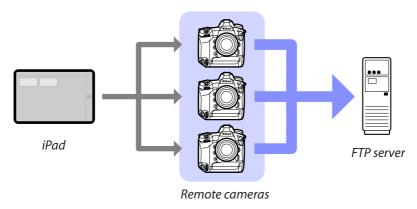
#### ■ Taking and Uploading Pictures with Master and Remote Cameras (□ 73)



■ Remotely Taking and Selecting Pictures for Upload with an iPhone (□ 81)



■ Remotely Taking and Selecting Pictures for Upload with an iPad (□ 180)



#### **▼** 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

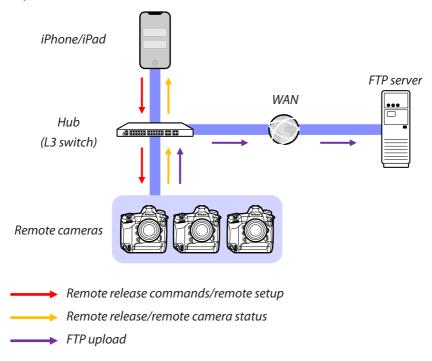
iPhones and iPads can be used to release the shutters on remote cameras in groups that include a mix of different camera types.

#### Master/Remote Synchronized Release

The Z9, Z8, Z6III, and D6 can serve in the master and remote roles for master/remote synchronized release ( $\square$  73).

# **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.



#### **☑** 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 ( $\square$  218), video recording ( $\square$  227), and "skins" for mapping the locations of remote cameras ( $\square$  233), 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:

• Z9, Z8, Z6III, or D6 cameras with the NX Field firmware update installed,



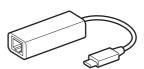
• an iPhone or iPad with the NX Field app installed,



• an FTP server,



 a USB Type-C to Ethernet adapter or a Lightning to Ethernet adapter (for connecting Z8, Z6III, or 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.

## <u>Updating the Camera Firmware to a Version</u> <u>Compatible with NX Field</u>

The camera firmware must be updated to a version that supports NX Field  $(\square 7)$ .

# **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 ( 177, 333).
- With a master camera, the clocks must be synchronized manually, as the connection is not made via the NX Field app.

#### 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:
  - Z9, Z8, and Z6III cameras: In the network menu, select [Connect to other cameras] > [Master/remote] > [Remote camera].
  - D6 cameras: In the setup menu, select [Wired LAN/WT] > [Options] >
     [Sync. release with FTP] > [ON] > [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 in the setup menu.



#### Step 2: Enable Wired LAN Network Hardware

- The procedure varies with the camera:
  - Z9 cameras: In the network menu, select [Wired LAN] > [ON].
  - Z8 cameras: In the network menu, select [USB data connection] > [USB-LAN].
  - Z6III cameras: In the network menu, select [USB] > [USB-LAN].



- D6 cameras: In the setup menu, select [Wired LAN/WT] > [Choose hardware] > [Wired LAN].
- The D6's built-in Wi-Fi cannot be used. Although you can connect to wireless networks via a WT-6 wireless transmitter or the Z9, Z8, or Z6III'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.
- For connection to Ethernet networks, users of the Z8 or Z6lll will require a third-party USB (Type-C) to Ethernet adapter. Connect the adapter to the camera's USB connector (or USB data connector for Z8).

#### 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:
    - Z9, Z8, and Z6lll cameras: In the network menu, select [Connect to FTP server] > [Network Settings] > [Create profile] > [Connection wizard].



- D6 cameras: In the setup menu, select [Wired LAN/WT] > [Network settings] > [Create profile] > [Connection wizard] > [FTP upload].
- Press 🕲 to proceed; the default profile name will be displayed.

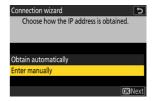
2. Name the new profile.

To rename the profile, press (Z9, Z8, and Z6III cameras) or press the center of the multi selector (D6 cameras).

After entering the desired name, press  $\P$  (Z9, Z8, and Z6III cameras) or 8 (D6 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 • (Z9, Z8, and Z6III cameras) or ⊕ (D6 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:
  - Z9, Z8, and Z6III cameras: Rotate the main command dial to highlight digits, press ◆ or ♠ to change, and press ♠ to accept.
  - D6 cameras: Rotate the main command dial to highlight digits, press ◆ or ◆ to change, and press the center of the multi selector to accept.
- Press ♥ (Z9, Z8, and Z6III cameras) or ♥ (D6 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  $oldsymbol{\Theta}$  to proceed once the confirmation dialog is displayed.



000.000.000.000

- 6. Choose the server type.
  - Highlight [**FTP**] or [**SFTP**] and press **®**; you will be prompted to enter the server address.
  - The Z9 ("C" firmware version 3.00 or later), Z8, and Z6III support [FTPS] in addition to the options listed above.



- 7. Enter the server address.
  - The procedure after entering the server address varies with the camera:
    - − Z9, Z8, and Z6III cameras: Pressing ♥ will prompt you to enter the server port number.
    - D6 cameras: Press 
       <sup>®</sup> to connect to the FTP
       server. A successful connection will display the login method selection
       screen.



Rotate the sub-command dial to highlight digits and the main command dial to change them, then press ® to accept. A successful connection will display the login method selection screen.



9. Choose a login method.

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

 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.

#### 10. 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.
- Connection wizard
  Choose a destination folder.

  Home folder
  Enter folder name

- After choosing a folder, press .
  - Z9, Z8, and Z6III cameras: The camera will initiate connections to the network and FTP server.
  - D6 cameras: Select [Connect and exit wizard]. The camera will initiate connections to the network and FTP server.
- 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.

#### 

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 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** ( 23).

## **Enable NX Field Settings on the Cameras**

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

#### Camera Settings for Synchronized Release

#### **Group Name**

Enter the same group name for all cameras on the network that will be used for synchronized release. If you are controlling the remote cameras from an iPhone or iPad, match the group name to that entered for [**Group name**] in the NX Field app  $(\square 46, 60)$ .

#### Master/Remote

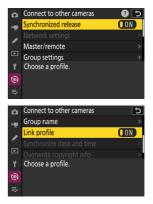
Cameras for use with NX Field must be designated either as master or remote cameras.

- Master camera: Pressing the shutter-release button on the master camera releases the shutters on the remote cameras.
- Remote camera: The shutters on the remote cameras are synchronized with the shutter on the master camera. The shutters on the remote cameras can also be released by tapping the shutter-release button in the NX Field app.

#### Configuring Z9/Z8/Z6III Cameras

#### **Master Camera**

 Navigate to [Connect to other cameras] in the network menu and select [ON] for [Synchronized release] and [Link profile].



 Select [Connect to other cameras] > [Master/ remote] in the network menu and choose [Master camera].



Navigate to [Connect to other cameras] >
 [Group settings] in the network menu and select
 [New].

A text-entry dialog will be displayed.

Depending on your camera firmware version,
 [Group settings] may not be available; in that case, proceed to Step 5.



**4.** Enter a display name.

After entering the display name, press  $\P$  to view the [**Edit**] display.



#### Display Names

"Display names" are the names given to remote camera lists ( $\square$  32). You can switch between remote camera lists for synchronized release by choosing the display name in the [**Group settings**] display.

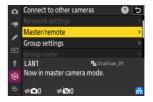
5. Select [Group name] and enter a group name.



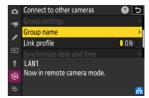
**6.** Add cameras to the remote camera list  $(\square 32)$ .

#### **Remote Cameras**

 Select [Connect to other cameras] > [Master/ remote] in the network menu and choose [Remote camera].



Select [Connect to other cameras] > [Group name] in the network menu and enter the group name for the master camera or the NX Field app.
 The camera can now be added to the master camera's remote camera list



#### **☑** [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.
- You can use a custom control to transfer control of remote cameras from the current master camera to a Z9 ("C" firmware version 3.00 or later), Z8, or Z6III 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.

#### The "Connect to Other Cameras" Status Display (Z9, Z8, and Z6III Only)

When NX Field settings are enabled on the camera, "now in master camera mode" or "now in remote camera mode" will appear in the network menu [Connect to other cameras] display. The display for master cameras shows the numbers of remote cameras connected and not connected.

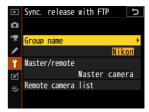


#### Configuring D6 Cameras

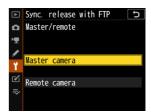
Select [Wired LAN/WT] > [Options] > [Sync. release with FTP] > [ON] in the setup menu.



2. Select [**Group name**] in the [**Sync. release with FTP**] display and enter the group name.



- Select [Master/remote] in the [Sync. release with FTP] display and choose [Master camera] or [Remote camera].
  - If you chose the master camera option, add cameras to the remote camera list (
     \sum 32).



#### 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:
  - Z9, Z8, and Z6III cameras: Use Custom Setting c3[Power off delay] > [Standby timer]
  - D6 cameras: Use Custom Setting c2 [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:
  - Z9, Z8, and Z6III cameras: Use Custom Setting c3[Power off delay] > [Standby timer]
  - D6 cameras: Use Custom Setting c2 [Standby timer].



#### **▼** Z9, Z8, and Z6III 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 ( $\bigcirc$  171, 326).

#### Restarting the Standby Timer When Photography Is Scheduled (D6 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.

Select [Wired LAN/WT] > [Options] > [Timer] > [ON] in the setup menu.



**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.
- Turning the camera off cancels the restart timer.

#### "Power Saving" (D6 Only)

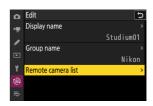
To prevent lost connections, select [Wired LAN/WT] > [Options] > [Power saving] > [Prioritize network speed] in the setup menu on the remote and master cameras.



# 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 ( $\square$  23) only after they have been added to the master camera's remote camera list.

- Display the remote camera list on the master camera.
  - The procedure varies with the camera:
    - Z9, Z8, and Z6III cameras: Navigate to
       [Connect to other cameras] > [Group settings] in the network menu, highlight the display name you chose when configuring the camera, press the button, and select
       [Remote camera list] in the [Edit] display.



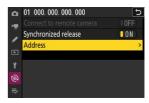
#### **☑** "Group Settings"

Depending on your camera firmware version, [**Group settings**] may not be available; in that case, select [**Connect to other cameras**] > [**Remote camera list**] in the network menu.

D6 cameras: In the setup menu, select [Wired LAN/WT] > [Options] >
 [Sync. release with FTP] > [ON] > [Remote camera list].

- 2. In the remote camera list, highlight the desired slot and press .
  - The number of remote cameras that can be added to the list varies by camera model:
    - 16: Z9 with "C" firmware version 4.00 or later,
       Z8, and Z6III with "C" firmware version 2.00 or later
    - 10: Z9 with "C" firmware version 3.00 or earlier,
       Z6III with "C" firmware version 1.10 or earlier,
       and D6
  - Remote camera settings will be displayed.
- 3. Display the IP address.
  - The procedure varies with the camera:
    - Z9, Z8, and Z6III cameras: Select [Address].
    - D6 cameras: Select [IP address].
- Enter the IP address assigned to a remote camera
   (□ 19).
  - The procedure varies with the camera:
    - Z9, Z8, and Z6III cameras: Rotate the main command dial to highlight digits, press ◆ or
      - **(**€) to change, and press **(**80) to accept.
    - D6 cameras: Rotate the main command dial to highlight digits, press ◆ or ◆ to change, and press the center of the multi selector to accept.



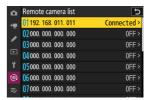




5. Press ♥ (Z9, Z8, and Z6III cameras) or ⊗ (D6 cameras).

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:
  - Z9, Z8, and Z6III cameras: Select [Connect to remote camera] > [ON].
  - D6 cameras: Select [Remote connection] > [Enable].





#### **■** 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	The remote camera standby timer has expired.
	The remote camera is off.
	The connection with the remote camera is disabled
	(C) 23).
	• The master and remote cameras are not in the same group
	(C) 23).
	• Incorrect IP address (CQ 15).
	IP address not specified (Z9 "C" firmware versions earlier
	than 2.11).
OFF	• IP address not specified (Z9 "C" firmware version 3.00 or
	later, Z8, Z6III, D6).
	• [Connect to remote camera] (Z9/Z8/Z6III) or [Remote
	connection] (D6) disabled (CC) 34).

• The shooting displays for Z9 ("C" firmware version 3.00 or later), Z8, and Z6lll 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 ① will appear in the camera icon. In this case, the display shows the number of cameras with which no connection could be established.

# 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:
  - Z9, Z8, and Z6III cameras: Select Custom Setting c3 [Power off delay] > [Standby timer] > [No limit]
  - D6 cameras: Select Custom Setting c4 [Monitor off delay] > [Live view] > [No limit].

#### ▼ The Live View (or Photo/Video) Selector

- When taking photographs or recording video using the NX Field app, set the
  remote camera photo/video (or in the case of the D6, live view) selectors to
   ■. Selecting ▼ restricts access to features on certain cameras.
- You will also need to set the remote camera photo/video (or in the case of the D6, live view) selectors to when filming videos remotely from an iPad.
   Videos can be filmed by selecting 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:
  - Z9, Z8, and Z6III cameras: In the network menu, select [Connect to FTP server] > [Options] > [Delete after upload] > [OFF].
  - D6 cameras: In the setup menu, select [Wired LAN/WT] > [Options] > [Delete after send] > [No].

## **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:
  - Z9, Z8, and Z6III cameras: In the network menu, select [Connect to FTP server] > [Options] > [Auto upload] > [ON].
  - D6 cameras: In the setup menu, select [Wired LAN/WT] > [Options] > [Auto send] > [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**

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 <u>Getting Ready: iPhones</u> ( 40) if you are using an iPhone or to <u>Getting Ready: iPads</u> ( 52) 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 Apple App Store® and install it on your iPhone.

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 USB Type-C or 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.

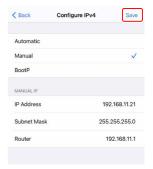
3. Choose the desired interface.



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.

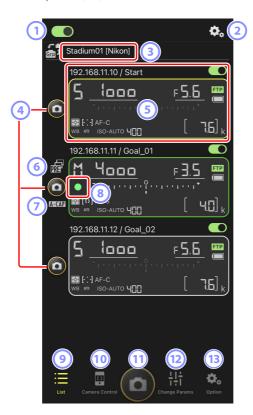
## Adding Remote Cameras to the NX Field App

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 (⑤) 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 (🕮 50)

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 ( $\square$  48). In the camera control display ( $\square$  87), you can tap it to view focus, playback, and other settings for remote cameras.

## 3 Display Name and [Group Name] ( 46)

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

#### 4 Shutter-Release Button (on one camera)

Releases the shutter on the selected remote camera.

#### 5 Remote Camera Info ( \$\simeq\$ 85)

A series of displays mirroring the information in the cameras' top control panels, including shutter speed and aperture. 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 [Copy exposure info.].

#### 6 Pre-Release Capture Icon ( 103)

Displayed while performing Pre-Release Capture from the NX Field app (Z9 "C" firmware version 5.00 or later only).

## 7 A-CAP Icon (□ 107)

Displayed while performing auto capture from the NX Field app (supported cameras only).

## Memory Card Access Icon

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

## 9 List ( \$\mathbb{Q}\$ 86)

Opens the list display.

Camera Control (□ 87)

Opens the camera control display.

① Shutter-Release Button (on multiple cameras)

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

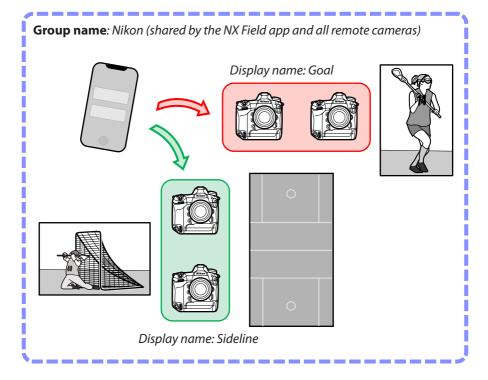
Change Parameters ( \$\subseteq\$ 89)Opens the "change parameters" display.

Options ( 91)Opens the options display.

## 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".



- Enter the same [Group name] as the one selected for the remote camera along with a [Display name] of your choice, then tap [Save].
  - The default [**Display name**] is "Default name."



- **4.** Tap [**Done**].
  - To add a new display name, tap 🛨.



## 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 (connection options button) in the list display.



**2.** Tap +.



 Enter the IP address (
 19) 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 32 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 ( $\bigcirc$  171) to restart the standby timers on remote cameras

#### Remote Camera IP Address and Name Displays

The IP addresses and names displayed in the remote camera info of the NX Field app will be abbreviated if the character length is longer than the set limits. To select the display order and hide or display the IP addresses or names, go to (options) and select [Misc settings].



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.

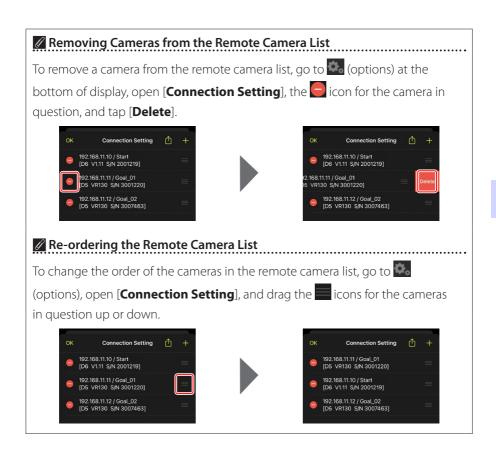






## **☑** Caution: Adding Remote Cameras

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.



Your iPhone is now configured for use with the NX Field system. Proceed to Remotely Taking and Selecting Pictures for Upload with an iPhone ( ## 81).

## **Getting Ready: iPads**

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

## **Installing the NX Field App**

Search for "NX Field App" on the Apple App Store® and install it on your iPad.

☑ The Apple 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 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.

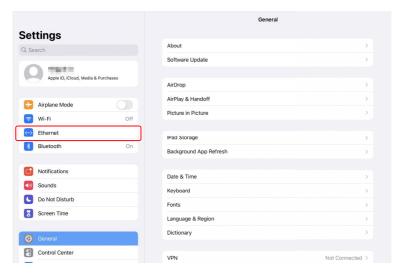
## **Connection Settings: iPad**

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.

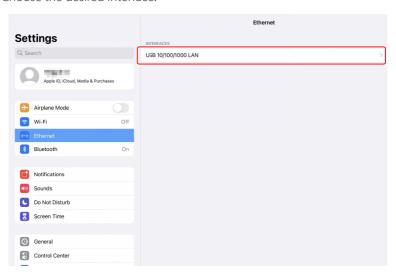
- 1. Launch the iPadOS [Settings] app.
- 2. Select [Ethernet].



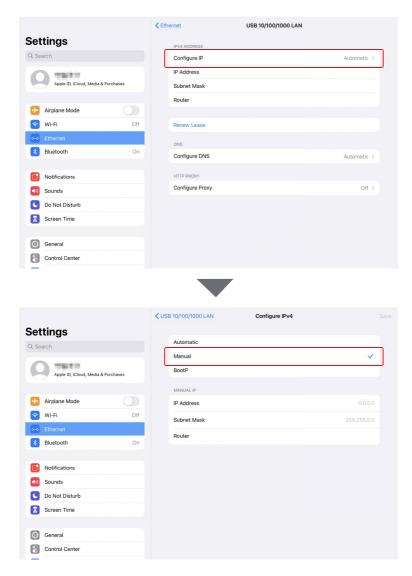
#### **▼** Wireless Networks

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.

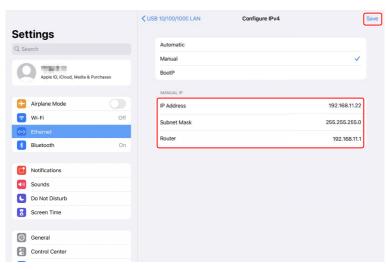
#### 3. Choose the desired interface.



## 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.

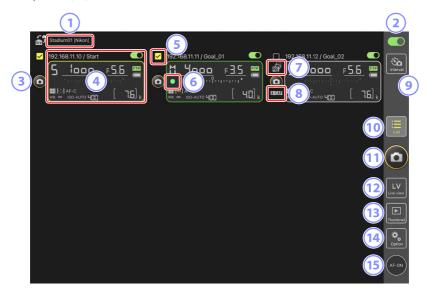
## Adding Remote Cameras to the NX Field App

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 over the options (14).



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

2 Connection Switch ( 68)

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

3 Shutter-Release Button (on one camera)

Releases the shutter on the selected remote camera

4 Remote Camera Info ( 184)

A series of displays mirroring the information in the cameras' top control panels, including shutter speed and aperture. 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 sub-menus for camera controls and settings.

(5) Checkbox

Displayed when going to (options) and selecting [**Group Release**] for [**Option**] > [**Shooting Button (multi-camera) setting**]. Tapping "Shutter-Release Button (on multiple cameras)" releases the shutters on all checked remote cameras ( $\square$  246).

**6** Memory Card Access Icon

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

7 Pre-Release Capture Icon ( 215)

Displayed while performing Pre-Release Capture from the NX Field app (Z9 "C" firmware version 5.00 or later only).

**8** A-CAP Icon (□ 252)

Displayed while performing auto capture from the NX Field app (supported cameras only).

## Interval-Timer Photography ( 240)

Display interval-timer options.

#### 10 List (III 188)

Opens the list display.

#### 11 Shutter-Release Button (on multiple cameras)

Releases the shutters on all cameras in the remote camera list with connection switches currently in the (on) position. You can also release the shutter on only selected remote cameras ( $\square$  246).

#### 12 Live View

Opens live view. Choose from tile ( $\square$  196), main/secondary ( $\square$  197), and "skin" ( $\square$  198) views and take photographs or adjust camera settings.

#### 13 Thumbnails

Tapping while a selected remote camera is connected displays thumbnail images of the pictures in the remote camera memory card ( $\square$  293). Tapping a thumbnail displays the selected picture in single-frame view ( $\square$  294).

## 194) Options ( 194)

Opens the options display.

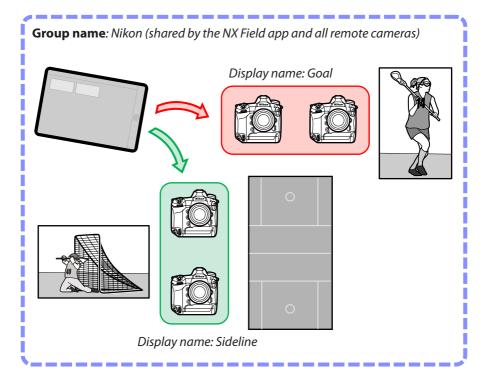
#### 15 AF-ON Button

The cameras focus while the button is held. Touch and hold the button when Pre-Release Capture is enabled to perform Pre-Release Capture buffering. The behavior of the button can be changed by tapping (options) and selecting [Option] > [AF-On button setting] ( 333).

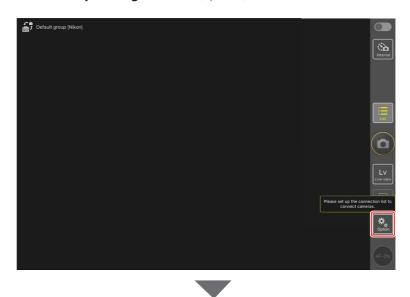
## Assigning Remote Cameras the Same Group Name in the NX Field App

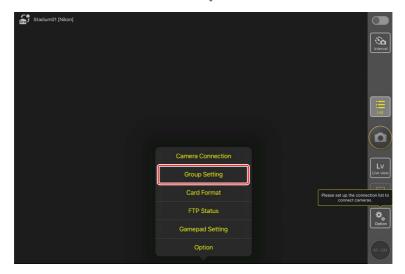
Remote cameras assigned the same group names in the NX Field app can be added to the remote camera list.

• 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".

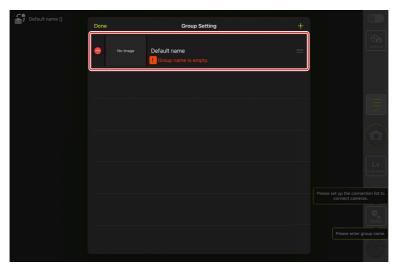


## 1. Select [Group Setting] under 🚨 (options).

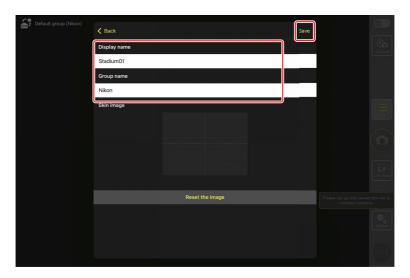




## 2. Tap "Default name".

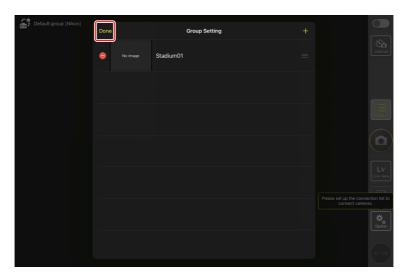


- **3.** Enter the same [**Group name**] as the one selected for the remote camera along with a [**Display name**] of your choice, then tap [**Save**].
  - The default [**Display name**] is "Default name."
  - For information on [**Group name**] of the remote cameras, refer to ."Enable NX Field Settings on the Cameras" (□ 23).



## **4.** Tap [**Done**].

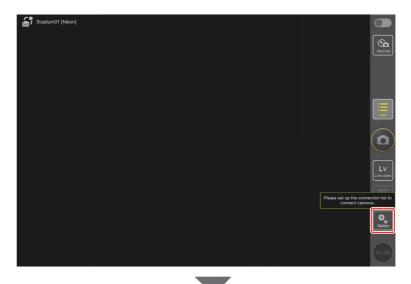
• To add a new display name, tap 🛨.

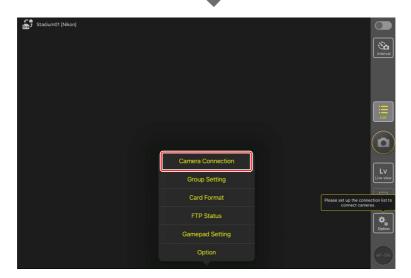


## Assigning Display Names to Remote Cameras in the Current Group

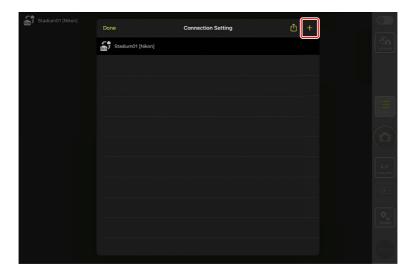
Assigning remote cameras display names allows the NX Field app to control each set separately by name.

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





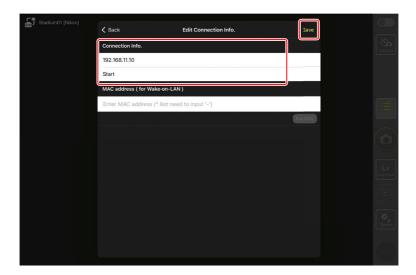
## 2. Tap +.



3. Enter the IP address ( 19) 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 32 single-byte characters long.
- Repeat Steps 2 through 3 for each camera you wish to add.



## MAC Addresses

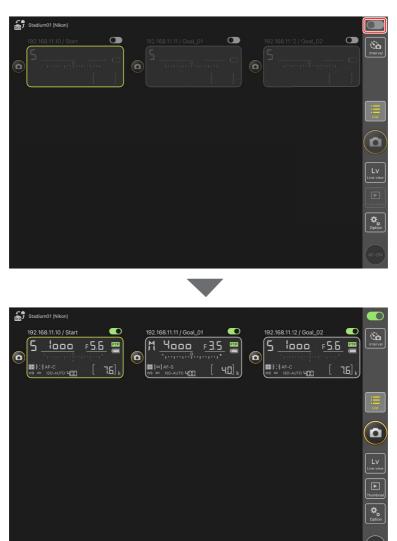
You need only supply MAC addresses if intend to use the NX Field app's wake-on-LAN feature ( 326) to restart the standby timers on remote cameras.

## Remote Camera IP Address and Name Displays

The IP addresses and names displayed in the remote camera info of the NX Field app will be abbreviated if the character length is longer than the set limits. To select the display order and hide or display the IP addresses or names, go to (options) and select [Misc settings].

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.

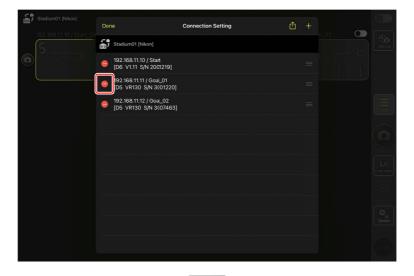


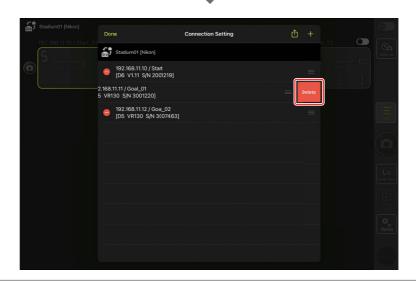
## **☑** Caution: Adding Remote Cameras

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

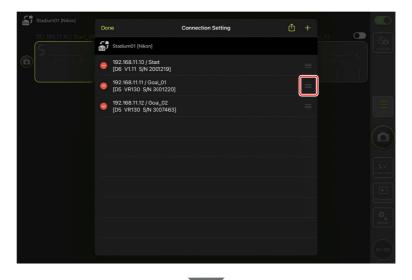
To remove a camera from the remote camera list, go to (options), open [Connection Setting], tap the camera in question, tap and tap [Delete].

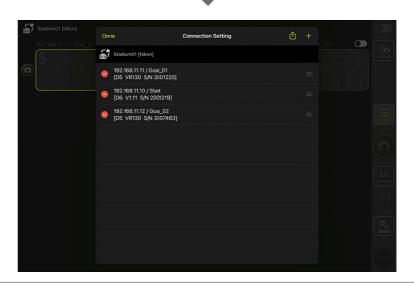




## Re-ordering the Remote Camera List

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.



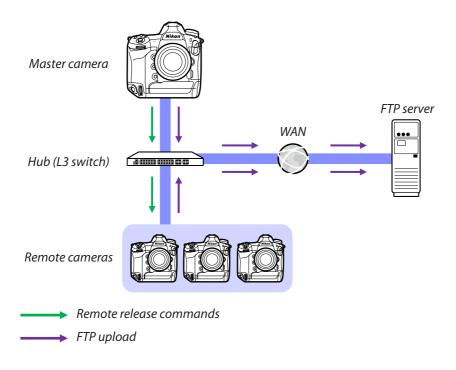


Your iPad is now configured for use with the NX Field system. Proceed to Remotely Taking and Selecting Pictures for Upload with an iPad ( 180).

# 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 remote cameras with a master camera and upload the pictures to an FTP server.



- The number of remote cameras that can be added to the list varies by camera model:
  - 16: Z9 with "C" firmware version 4.00 or later, Z8, and Z6III with "C" firmware version 2.00 or later
  - 10: Z9 with "C" firmware version 3.00 or earlier, Z6III with "C" firmware version 1.10 or earlier, and D6

#### The Z9, Z8, and Z6III Photo/Video Selectors

Before taking photographs using a Z9, Z8, or Z6III functioning in the remote camera role, rotate the photo/video selector to lacktriangle. No photographs can be taken when  $\lacktriangle$  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:
  - Z9 cameras: f2 [Custom controls (shooting)] and d5 [Sync. release mode options].
  - Z8 and Z6III cameras: f2 [Custom controls (shooting)] and d4 [Sync. release mode options].
  - D6 cameras: f3 [Custom controls] and d4 [Sync. release mode options].

[Sync. release mode options]	Shutter-release button pressed	[Sync. release selection]	Custom control*+ shutter-release button	
[Sync]	Master Remote	[Master release only]	Master R	Pemote
		[Remote release only]	Master R	emote
[No sync]		[Synchronized release]	Master R	Pemote
	Master Remote	[Remote release only]	Master R	emote

<sup>\*</sup> 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:
    - Z9, Z8, and Z6III cameras: Navigate to [Connect to other cameras] >
      [Group settings] in the network menu, highlight the display name you chose when configuring the camera, press the button, and select [Remote camera list] in the [Edit] display.

#### **☑** "Group Settings"

Depending on your camera firmware version, [**Group settings**] may not be available; in that case, select [**Connect to other cameras**] > [**Remote camera list**] in the network menu.

- D6 cameras: In the setup menu, select [Wired LAN/WT] > [Options] > [Sync. release with FTP] > [ON] > [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
     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.
- You can use a custom control to transfer control of remote cameras from the current master camera to a Z9 ("C" firmware version 3.00 or later), Z8, or Z6III 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

The shooting displays for Z9 ("C" firmware version 3.00 or later), Z8, and Z6III 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 by selecting [**Shutter/AF-ON**] for Custom Setting a6 [**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 by selecting [AF-ON only] for Custom Setting a6 [AF activation].

### 

Autofocus settings for remote cameras can be adjusted from your iPhone or iPad using the NX Field app ( $\square$  124, 269).

# 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

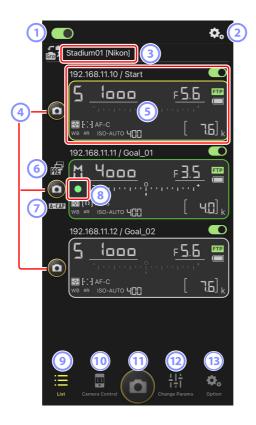
The iPhone edition of the NX Field app does not support video recording.

### 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**

Launching the NX Field app displays the remote camera list. Its controls are described below.



#### ① Connection Switch (🕮 50)

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 ( $\square$  48). In the camera control display ( $\square$  87), you can tap it to view focus, playback, and other settings for remote cameras.

### 3 Display Name and [Group Name] ( 46)

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

#### 4 Shutter-Release Button (on one camera)

Releases the shutter on the selected remote camera.

#### 5 Remote Camera Info ( \$\square\$ 85)

A series of displays mirroring the information in the cameras' top control panels, including shutter speed and aperture. 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 [Copy exposure info.].

#### 6 Pre-Release Capture Icon ( 103)

Displayed while performing Pre-Release Capture from the NX Field app (Z9 "C" firmware version 5.00 or later only).

### 7 A-CAP Icon (□ 107)

Displayed while performing auto capture from the NX Field app (supported cameras only).

# 8 Memory Card Access Icon

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

### 9 List ( \$\mathbb{Q}\$ 86)

Opens the list display.

10 Camera Control ( 87)

Opens the camera control display.

11 Shutter-Release Button (on multiple cameras)

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

① Change Parameters ( 89)

Opens the "change parameters" display.

Options ( 91)Opens the options display.

# **Remote Camera Info**

View the same information as is shown in the remote camera's top control panel, including shutter speed and aperture.

- Tapping remote camera info in list view displays camera controls.
- To choose a destination when copying exposure settings, touch and hold the
  info display for the desired remote camera and select [Copy exposure info.]
   ( 128).
- If [**Enable the shooting menu bank**] is enabled, you can swipe left or right on remote camera info display to choose a shooting menu bank ( $\square$  136).



- 1 IP address/name
- 2 Connection switch (on one camera)
- 3 Shooting mode
- 4 Shutter speed
- 5 Aperture
- 6 FTP connection status/battery level
- 7 Metering/AF-area mode/focus mode/white balance
- 8 Shooting menu bank ("A" through "D")
- 9 Exposure indicator
- 10 Auto ISO sensitivity indicator/ISO sensitivity
- 11 Number of exposures remaining

# **The List Display**

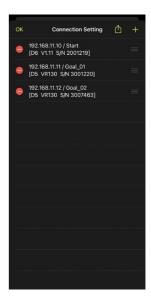
View information for the cameras in the remote camera list.

- The shutters on all cameras with connection switches currently in the (on) position can be released simultaneously (\$\sup\$94).
- Shutters for selected cameras can also be released individually (\$\Pi\$ 96).
- If you have created multiple display names, you can switch between them by tapping 67 (display button).



# Connection Options

Tapping (connection options button) in the list display opens [Camera Connection] ( 48).



# **The Camera Control Display**

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

- You can adjust focus during shooting using the controls in (camera tab) (D6 only; □ 97).
  - Select (camera tab) and tap (A-CAP button)
     to perform auto capture operations (supported cameras only; 107).
- Select [Playback tab] to view pictures taken with the remote camera. You can also delete pictures or upload them to an FTP server (1141).
- Select (LV tab) to take pictures while viewing a live image from the remote camera (\(\sime\) 100).



# Changing Camera Settings in the Remote Camera Info Display

Changes to settings can be made by tapping the following items in the remote camera info panes in the camera control display:

- Shooting mode
- Shutter speed
- Aperture
- Metering
- · AF-area mode
- Focus mode
- White balance
- Exposure compensation
- ISO-AUTO (auto ISO sensitivity control)
- ISO sensitivity

# Camera Control Options

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



Tab		Description	Ш
	Camera	Adjust focus-related settings.*	<u></u> 124
	Playback	Adjust settings for the playback display.*	<u></u> 144
LV	LV	Adjust settings for live view. *	104

<sup>\*</sup> 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 (\square 126, 131).



# 

Changes to settings can be made by tapping the following items in the remote camera info panes in the "change parameters" display:

- Shooting mode
- · Shutter speed
- Aperture
- Metering
- AF-area mode
- Focus mode
- · White balance
- Exposure compensation
- ISO-AUTO (auto ISO sensitivity control)
- ISO sensitivity

# **The Auto Capture Settings Display**

### **▼** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

Select (camera tab) in the camera control display and tap (A-CAP button) to show the auto capture settings display. You can configure auto capture settings, view a preview, load user presets, and start or suspend auto capture (\Pi 107).



# **The Options Display**

Used for such tasks as adjusting remote camera network, group, and FTP profile settings or formatting memory cards ( 177).





# **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 (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 (
   44) icon will light
   while pictures are being recorded to the memory
   card.
- The FTP (FTP) icon will flash while pictures are being uploaded to an FTP server.

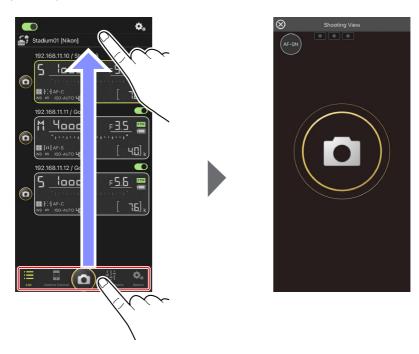


# Disabling the Release on Selected Cameras

The releases for selected cameras can be disabled by tapping (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 (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 (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 (
   44) icon will light
   while pictures are being recorded to the memory
   card.
- The FTP (FTP) icon will flash while pictures are being uploaded to an FTP server.



#### Adjusting Focus for a Selected Camera (D6 Only)

You can focus selected remote cameras before taking pictures.

Select the remote camera by tapping it in the list display.
 Controls for the selected remote camera will be displayed.





2. Select (camera tab) and tap (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

Preview (preview button) again.



3. Tap to position the focus point.

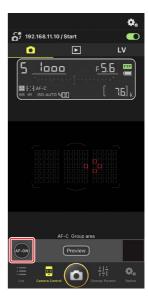
The focus point will move to the selected position.



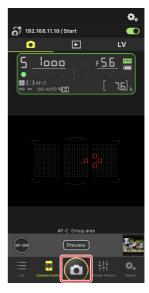
4. Touch and hold (AF-ON button) to focus.

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 Preview (preview button) again to retrieve another preview.



5. Tap (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.

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

Controls for the selected remote camera will be displayed.



# 2. Tap LV (LV tab).

A live image from the remote camera will be displayed.

 When a power zoom lens is attached to a remote camera, zooming can be controlled through the NX Field app (\$\subseteq\$ 105).



3. Tap to position the focus point.

The focus point will move to the selected position.



- 4. Touch and hold (AF-ON button) to focus.
  - Touch and hold (AF-ON button) when Pre-Release Capture is enabled to perform Pre-Release Capture buffering. Tapping the shutter-release button while holding (AF-ON button) saves the burst recorded during the buffering.



#### **▼** AF Activation

Select [**Shutter/AF-ON**] for Custom Setting a6 [**AF activation**] to initiate autofocus during live view photography by tapping (shutter-release button).

# ✓ Using the Pre-Release Capture Feature with High-Speed Frame Capture +

When selecting a high-speed frame capture + mode (C15, C30, C60, or C120) for the camera release mode, you can use [**Pre-Release Capture options**] in the camera Custom Settings menu to choose the length of the burst recorded from the end of the memory buffer when the shutter-release button is pressed all the way down and the maximum length of the burst recorded while the shutter-release is fully pressed. You can also change settings for Pre-Release Capture and release mode in the [**Exposure**] tab ( $\square$  126) on the camera settings display of the NX Field App.

 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 release mode cannot be changed from the NX Field app for cameras that are not equipped with a release mode dial.

### 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 + and Each tap adjusts focus by the amount selected for [**MF driving amount**] in the (camera control options) display.

# 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 (shutter-release button) to take a picture.



# Adjusting Live View Settings

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





# Zooming with Power Zoom Lenses

When a power zoom lens is attached to a remote camera, zooming can be controlled through the NX Field app.

### **☑** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.10 or later)
- Z8 cameras ("C" firmware version 2.10 or later)
- Z6III cameras ("C" firmware version 1.10 or later)
- Tap (power zoom button) in the live view display.

This displays the tool area.



#### 2. Tap **W/T** to zoom in and out.

- Tap **W** to zoom out and **T** to zoom in.
- Tap the [Speed] value to select the zooming speed from the sub-menu.
- Tap PZ (power zoom button) again to hide the tool area.



#### **Saving Zoom Positions**

Touch and hold any of [PZ1] to [PZ3] and select [Add Zoom position] from the sub-menu to save the current zoom position as a preset (excluding APS-C sized, DX-format NIKKOR Z lenses).

- Tap the desired preset to recall it.
- To delete a preset, touch and hold it and select [Clear Zoom position] from the sub-menu.
- Attaching a power zoom lens other than the one used to save the preset will reset all saved presets.



# Performing Auto Capture Operations on the NX Field App

Use the NX Field app to start, suspend, or adjust settings for auto capture on the camera.

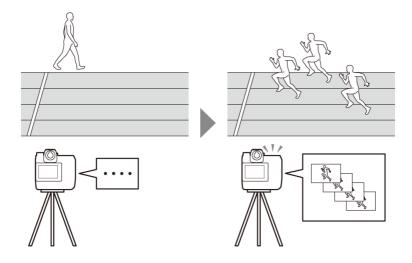
#### **▼** Supported Cameras

For details on auto capture, refer to the camera *Reference Guides* or *Supplementary Firmware Update Manuals*. This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

# What Is "Auto Capture"?

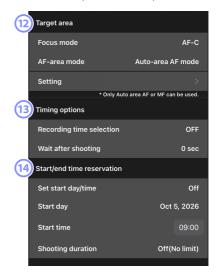
Auto capture is a function in which the camera takes photos or records videos automatically when the camera recognizes a subject. By choosing the trigger criteria for auto capture, photographers create what is effectively an unmanned camera that can take photos or film videos automatically without further action on their part.



# **The Auto Capture Settings Display**

Select (camera tab) in the camera control display and tap (A-CAP button) to show the auto capture settings display (Q 87). You can configure auto capture settings, view a preview, load user presets, and start or suspend auto capture.





#### 1 Close

Return to the camera control display.

• Closing the auto capture settings display does not suspend an auto capture that is in progress. Tap [**End**] to end auto capture.

## 2 Live View

Before starting auto capture, you can check whether the camera recognizes the subject as intended. When the camera recognizes a subject that meets the configured criteria, green boxes appear on the subject.

#### 3 Focus Point/Auto Capture Detection Area

The focus point is displayed in red, and the auto capture detection areas are displayed in green. If a setting other than [Auto-area AF] is configured for the AF-area mode on the camera, you can tap the screen to move the focus point.

#### 4 The Auto Capture Status Display

**A-CAP** is displayed while auto capture is in progress.

#### 5 Start/End

Tap the [Start] button to start auto capture with configured settings. Tap the [End] button to end auto capture.

## ☑ Disabled [Start] Button

The [Start] button is disabled if the camera cannot perform auto capture operations due to conditions such as no lens being attached. Check the camera's settings.

## **☑** Caution: Saving Settings to the Camera during Auto Capture

Saving settings to the camera by tapping (options) and selecting [Option] > [Save camera settings] will end auto capture.

#### 6 Preview

Tap this button to show or hide the focus point/auto capture detection area (3).

#### User Presets

Select and load user presets for auto capture stored in the camera. Changes made to auto capture settings with the NX Field app are also automatically reflected in user presets.

#### **8** The [Capture Criteria] Check Boxes

Checked settings will be effective during auto capture.

 At least one checkbox must be checked. When switching capture criteria, first check the checkbox of the criterion to be switched to.

#### 9 [Motion] ( 113)

The configured speed and size of motion are displayed. Tap to display motion settings.

#### (In the image of the image) [Subject Detection] (In the image) [In the image) [In

The size and target of subject detection are displayed. Tap to display subject detection settings.

#### 11 [Distance] ( 118)

Displays the nearest and farthest distances to the subject that the camera recognizes. Tap to display distance settings.

 You can use this function when a NIKKOR Z lens is attached. It may not function with other lenses.

#### 12 [Target Area] ( 120)

Tap to display target area settings.

- Configure settings for the focus mode and the AF-area mode. Tap [**Setting**] to display the target area settings when any of the following criteria is met:
  - The focus mode is set to a mode other than MF and the AF-area mode is set to [Auto-area AF].
  - The focus mode is set to **MF** and the [**Distance**] capture criteria checkbox is unchecked

- (I) [Timing Options] (III 122)
  - Configure the shooting duration and the minimum length of time it will wait before beginning shooting again.
- (4) [Start/end time reservation] (123)

Set the date and time to begin auto capture with the NX Field app (supported cameras only).

# **Configuring Capture Criteria**

Configure the criteria for performing auto capture. The configurable criteria are [Motion], [Distance], and [Subject detection]. If multiple criteria are selected, shooting will only be performed when all of the criteria are satisfied.

## [Capture Criteria]: [Motion]

Tap [**Motion**] in the auto capture settings display to open the motion settings display. You can configure the direction of movement, speed, and size of the subject.



#### 1 Live View

Preview how the camera recognizes the subject under the configured motion criteria.

• You can configure the point where you want to focus by tapping the position where the subject is expected to enter the angle of view.

#### 2 Back

Save settings and return to the previous display.

#### ③ [Slowest]

Configure a value that corresponds to the speed measured as the time taken for the subject to cross the frame horizontally. Each option roughly corresponds to the following number of seconds.

- [1(Low)]: About 5 s or less
- [2]: About 4 s or less
- [**3**]: About 3 s or less
- [4]: About 2 s or less
- [5(High)]: About 1 s or less

#### 4 [Smallest]

You can configure the size of the subject. Choose from the following five options corresponding to the size of the auto capture detection areas consisting of the number of points (the green boxes displayed in live view).

- [1(Small)]: 4 points or larger
- [2]: 8 points or larger
- [3]: 14 points or larger
- [4]: 24 points or larger
- [5(Large)]: 34 points or larger

#### ☑ Size Settings for [Motion] and [Subject Detection]

When both [Motion] and [Subject detection] are checked under [Capture criteria] in the auto capture settings display, the [Smallest] chosen for the former will have no effect on the [Smallest] chosen for the latter. Changing the [Smallest] selected in the motion settings display has no effect on the [Smallest] selected in the subject detection display. The two conditions will be assessed separately, but only subjects that meet the criteria for both will trigger auto capture.

#### ⑤ [Direction]

Select the direction in which the subject should move in order for the camera to shoot. Multiple directions can be selected. Tap the camera icon in the center to check all check boxes

#### 6 AF-ON

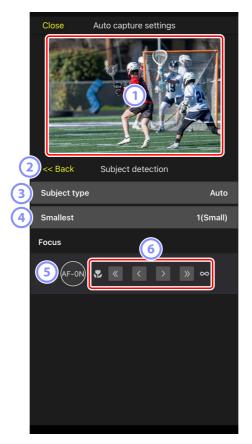
Touch and hold the button to perform autofocus on the selected focus point.

#### Manual Focus

Tap ≤ or >> to move the focus position to the near side or the infinity side in fixed step widths. To adjust the focus position in smaller step widths, tap ≤ or

## [Capture Criteria]: [Subject Detection]

Tap [**Subject detection**] in the auto capture settings display to open the subject detection settings display. You can configure the size and type (such as animal or vehicle) of the subject.



#### 1 Live View

Preview how the camera recognizes the subject under the configured subject detection criteria.

• You can configure the point where you want to focus by tapping the position where the subject is expected to enter the angle of view.

#### 2 Back

Save settings and return to the previous display.

#### [Subject Type]

Choose a subject type.

#### 4 [Smallest]

You can configure the size of the subject as a percentage of the angle of view. Each option roughly corresponds to the following percentages.

- [1(Small)]: 2.5% or more
- [2]: 5% or more
- [3]: 10% or more
- [4]: 15% or more
- [5(Large)]: 20% or more

## ☑ Size Settings for [Motion] and [Subject Detection]

When both [Motion] and [Subject detection] are checked under [Capture criteria] in the auto capture settings display, the [Smallest] chosen for the former will have no effect on the [Smallest] chosen for the latter. Changing the [Smallest] selected in the motion settings display has no effect on the [Smallest] selected in the subject detection display. The two conditions will be assessed separately, but only subjects that meet the criteria for both will trigger auto capture.

#### 5 AF-ON

Perform autofocus at the position where the focus point is set while touching and holding the button.

#### **6** Manual Focus

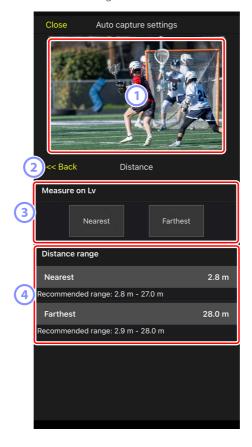
Tap ≤ or >> to move the focus position to the near side or the infinity side in fixed step widths. To adjust the focus position in smaller step widths, tap ≤ or

>

## [Capture Criteria]: [Distance]

Tap [**Distance**] in the auto capture settings display to open the distance settings display. You can configure the nearest and farthest distances at which the camera will recognize the subject.

- You can use this function when a NIKKOR Z lens is attached. It may not function with other lenses.
- The nearest distance cannot be set greater than the farthest distance.



#### 1 Live View

Preview how the camera recognizes the subject under the configured distance criteria.

#### 2 Back

Save settings and return to the previous display.

#### (3) [Measure on Lv]

Tap these buttons to enable changes to the nearest or farthest distance by tapping the live view display. Tap [**End**] to end the process.

• This option is not available when the focus mode is set to **MF**.

## **4** [Distance Range]

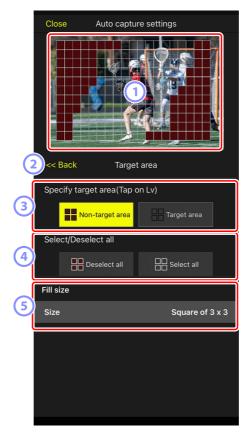
Tap to select the nearest and farthest distances.

- The setting units according to the range of distances are as follows:
  - Less than 20 m: 0.1 m
  - 20-50 m: 1.0 m
  - More than 50 m: 5.0 m
- Set the distance within the range indicated by [Recommended range].
   Setting the distance outside this range will reduce the accuracy of recognizing the distance to the subject.

## Configuring the Target Area

Tap [**Setting**] under [**Target area**] in the auto capture settings display to open the target area settings display. By specifying non-target areas, such as areas with obstacles within the angle of view, you will be able to capture the subject more accurately.

- This option is available when either of the following criteria is met:
  - When the focus mode is set to a mode other than **MF** and the AF-area mode is set to [**Auto-area AF**].
  - When the focus mode is set to MF and the [Capture criteria] checkbox for [Distance] is unchecked.



#### 1 Live View

Preview how the camera recognizes the subject within the target area.

#### 2 Back

Save settings and return to the previous display.

#### ③ [Specify Target Area (Tap on LV)]

After tapping the [Non-target area] or [Target area] button, you will be able to tap points in live view to set them as non-target or target areas. Contiguous points can be selected together by dragging your finger across the screen.

#### 4 [Select/deselect All]

Target and non-target areas for subject recognition can be configured all at once.

## Tip for Configuring the Target Area

If the non-target area is larger, tap [**Deselect all**], or if the target area is larger, tap [**Select all**], then use [**Specify target area (Tap on LV)**] to quickly configure the target area.

#### 5 [Fill Size]

Set the size of the area to be selected with a single tap.

## Configuring the Recording Time

Configure the length of time the camera continues to shoot after auto capture is triggered and the minimum length of time it will wait before beginning shooting again.

## · [Recording Time Selection]

Select the amount of time to record for each shot from 1 second to 30 minutes, or select [**OFF**]. If a setting other than [**OFF**] is selected, the camera will continue to record for the configured amount of time even if the subject is no longer detected. If [**OFF**] is selected, the camera will only record while the subject is detected.

 Depending on the settings on the camera, it may not be possible to record for the configured amount of time.

#### · [Wait After Shooting]

Select the amount of time to wait after shooting from 0 seconds to 30 minutes. The camera will not start shooting until the configured amount of time has elapsed since the previous shot, even if the subject is detected earlier.

# **Scheduling Auto Capture**

#### **✓** Supported Cameras

This feature is available with:

- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

You can enable/disable auto capture scheduling, set the start date and time, and set the duration in the auto capture settings display.

- The time display format varies depending on your iPhone's language settings.
- Once scheduled, as well as when auto capture is in progress, A-CAP is
  displayed in the auto capture settings display and the following functions will be
  unavailable:
  - Button operations other than [**End**] in the auto capture settings display
  - Interval-timer photography
  - Video live view

# Adjusting Remote Camera Settings from the NX Field App

The controls for adjusting remote camera settings in the NX Field app consist of a display principally for focus-related settings, another for exposure-related settings, and a third for most other camera settings.

# **Adjusting Focus-Related Settings**

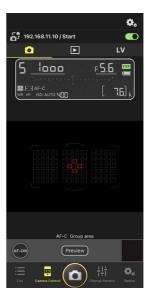
The NX Field app can be used to select the focus mode and AF-area mode and adjust other focus-related settings.

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

Controls for the selected remote camera will be displayed.

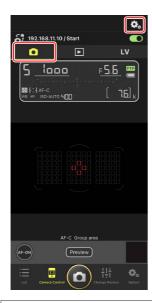






2. Select (camera tab) and tap (camera control options).

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 release mode cannot be changed from the NX Field app for cameras that are not equipped with a release mode dial.
- You can also change release mode settings in the [Exposure] tab
   (\$\sup\$126) on the camera settings display.

# **Adjusting Exposure Settings**

Remote camera settings such as shutter speed and aperture can be adjusted from the NX Field app.

1. Select the desired remote camera by tapping it in the camera list and then tap [Change Params].

Settings for the selected remote camera will be displayed.







## 2. Tap [Exposure].

Adjust exposure settings for the selected remote camera. This can be done by tapping settings in the display.



## ▼ Shooting Mode for Z6III

The shooting mode for Z6III cannot be set from the NX Field app. Use the camera to change the setting.

## Copying Exposure Settings from One Remote Camera to Another

Exposure settings can be copied from the display to any other remote cameras currently connected.

- The following settings will be copied: shutter speed, aperture, auto ISO sensitivity control status (enabled or disabled), ISO sensitivity, exposure compensation, white balance, white balance fine-tuning, and preset manual white balance.
  - Touch and hold the info for the source remote camera and then tap [Copy exposure info.].

You will be prompted to choose the destination remote cameras.



Select the desired remote cameras and tap [Done].

Tap [**Yes**] when prompted to copy the source camera's exposure settings to the selected cameras.



## **▼** Restrictions

- Depending on the model and current settings, the destination remote cameras may not support the copied values. In this event, shutter speed, aperture, ISO sensitivity, and exposure compensation will be set to the closest supported values.
- You may not be able to copy white balance between different models of camera.
- Exposure settings cannot be copied during auto capture.

## High-Frequency Flicker Reduction

A [**High-frequency flicker reduction**] option is available when a Z9 ("C" firmware version 2.10 or later), Z8, or Z6III 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 live view. 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 Z9, Z8, or Z6III *Reference Guide*.

# **Adjusting Other Remote Camera Settings**

Adjust remote camera settings, such as white balance and Picture Controls.

## ■ The "Change Params" [AF/WB] Tab

Adjust autofocus and white balance settings. Some autofocus settings can also be accessed via camera control options ( $\square$  124).



#### **Measuring Spot White Balance**

## **▼** Supported Cameras

This feature is available with:

- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)
- D6 cameras

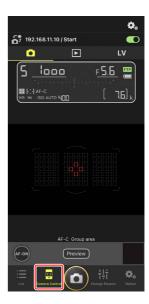
Spot white balance can be measured in live view when [**Preset manual**] is selected for white balance.

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 🗓 (camera control button).



3. Tap LV (LV tab).

A live image from the remote camera will be displayed.



4. Tap (WB button).

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

 Autofocus operation is interrupted. Exiting direct measurement mode reactivates autofocus.



- 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 (WB button) again to exit direct measurement mode.
  - "The memory card is not inserted." message may appear when exiting direct measurement mode, but this does not indicate a malfunction.

## ■ The "Change Params" [Image] Tab

Adjust image quality, Picture Controls, and other imagerelated settings.



## ■ The "Change Params" [Info] Tab

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



## Choosing a Settings Bank

You can switch between photo shooting menu settings stored on the remote camera in banks "A" through "D" by swiping the remote camera info in the NX Field app.

- This feature is available with the Z9, Z8, and D6.
  - 1. Adjust settings in the remote camera photo shooting menu.

The procedure varies with the camera:

- Z9 and Z8 cameras: Select [**Extended menu banks**] in the photo shooting menu and choose [**ON**].
- D6 cameras: Select [Extended photo menu banks] in the photo shooting menu and choose [On].
- 2. Go to (options) in the NX Field app and select [Yes] for [Enable the shooting menu bank].



**3.** Connect to the remote camera from the NX Field app.

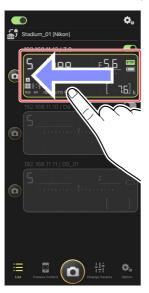
The remote camera info will now include a shooting menu bank icon ("A"—"D").



4. Swipe the remote camera info left or right.

The selected shooting menu bank will change.

- It will take about a second for settings to be updated after you stop swiping.
- Shooting menu bank selection is also supported during still photography live view (Z9 and Z8 only).





## Loading Shooting Menu Settings

- NX Field will require additional time to load all the shooting menu settings from banks "A" through "D" when connecting to remote cameras with [Yes] selected for [Enable the shooting menu bank].
- Shooting menu settings cannot be loaded by selecting [Yes] for [Enable the shooting menu bank] after a connection has been established to the remote camera via the NX Field app. End the connection to the remote camera and then reconnect.

## Configuring Copyright Information

Go to (options), open [**Option**], and tap [**Setting copyright info**] to display a dialog to access the following settings:

- You can choose whether to overwrite these settings on the remote cameras when connected.
- Set the name of the photographer and copyright holder. You can enter up to 36 characters for the photographer's name and 54 characters for the copyright holder.



# **Rebooting All Connected Remote Cameras**

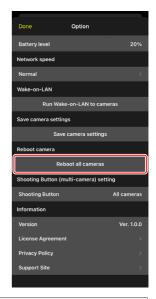
#### **▼** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.10 or later)
- 78 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

Go to (options), open [Option], tap [Reboot all cameras] to display the confirmation dialog, then tap [OK] to reboot all connected remote cameras.

 The rebooted remote cameras will be automatically reconnected to the NX Field app.



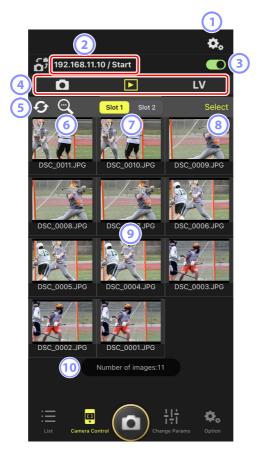
## Using NX Field for an Extended Period

When using NX Field for an extended period, reboot the remote cameras during intermissions or at other convenient times to reduce the risk of unexpected errors and loss of communications.

# **Viewing Pictures with the NX Field App**

# **Viewing Pictures**

To view a thumbnail list of the pictures on the memory cards in the selected remote camera, tap [10] (playback tab) in the camera control display.



① Camera Control Options (CL 148)

Adjust settings for the playback display.

2 IP Address/Name ( 48)

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.

Sefresh

Refresh the thumbnail display.

6 Find

Filter pictures by protection status or date of recording.

Slot Selection

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

[Select]

Tap to enable picture selection.

Thumbnails

Thumbnail images showing the pictures on the memory card in the selected slot ( $\square$  143). Tapping a thumbnail displays the selected picture in single-frame view ( $\square$  144).

10 Number of Pictures

The total number of pictures saved on the memory card in the selected slot displayed in the thumbnail list. A burst is counted as one picture.

## Thumbnails Display

Details of the thumbnail display that appears by tapping (playback tab) in the camera control screen are as follows.

- The app displays only the JPEG or HEIF copies of pictures recorded in RAW + JPEG or RAW + HEIF 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.
- Pictures with voice memos are marked with .
- Only the first shot in each series of burst photography (a burst) will appear as a thumbnail. A licon is displayed on the thumbnail. Tap the thumbnail image to display all the pictures in the burst as thumbnails.

## Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)
- Tap the first picture in the burst to exit to the previous screen.
- How the series of shots taken in burst photography are displayed can be changed using the playback display options (□ 148).
- If voice memos are added to pictures other than the first picture in a burst,
   does not appear on thumbnail images.
   appears on pictures with voice memos when all pictures in the burst are viewed as independent thumbnails.

## Display a Picture in Single-Frame View

Display the selected picture in single-frame view by tapping its thumbnail in the playback display. You can share and save the current picture, send it via FTP, or add a voice memo.



## 1 [AF]

Tap this icon to view the focus point used when the picture was taken. This is not available when a HEIF or RAW picture recorded with HLG selected for tone mode is displayed in single-frame view.

#### (2) [Info.]

Tap this icon to view the date and time of recording, shutter speed, and other shooting information. This is not available when a HEIF or RAW picture recorded with HLG selected for tone mode is displayed in single-frame view.

#### 3 The View Area

Displays the selected picture in full frame.

#### 4 Share

Tap this icon to share the current picture with others via e-mail, messaging, etc  $(\square 149)$ . You can also download it to your iPhone camera roll.

#### 5 FTP

Tap this icon to upload the current picture to the FTP server.

#### 6 Record/Play Voice Memos

#### **☑** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)
- Tap 
   • (record voice memo button) to display a dialog to record a voice memo (
   • 146).
- When a picture with a voice memo is viewed in single-frame view, (play voice memo button) appears and tapping it will play the voice memo.

#### Delete

Delete the current picture from the remote camera. You can delete voice memos from selected pictures in the confirmation dialog.

#### Add a Voice Memo to a Picture

#### **▼** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

Selecting a picture in the playback display to display in single-frame view will show (record voice memo button) to record a voice memo. You can record a voice memo with your iPhone's microphone and add it to the current picture.

- A voice memo cannot be added to a protected picture.
  - 1. Tap a picture in the thumbnail list.

The selected picture is displayed in single-frame view



2. Tap (record voice memo button) in single-frame view.

Tap [**Start**] in the confirmation dialog to start recording.

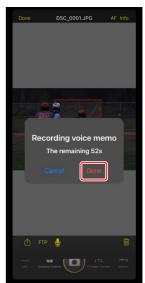
• Up to 60 seconds of a voice memo can be recorded.



#### **3.** Tap [**Done**].

The voice memo is saved to the camera memory card.

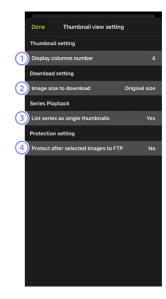
• The voice memo is saved in the same folder and has the same file name as the current picture.



# Adjusting Playback Display Settings

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





- ① [Display Columns Number]
  Choose the number of thumbnails (1 to 6) displayed in each row.
- [Image Size to Download]
  Choose the size at which pictures will be downloaded to the iPhone.
- [3 [List Series as Single Thumbnails]
  Configure how the series of shots taken in burst photography are displayed.
- (4) [Protect After Selected Images to FTP] Automatically protects pictures in the camera memory card that are selected for upload via FTP in the thumbnail list.

# **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.
  - Choose a single burst image to select all the pictures in the burst.



# 3. Tap (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.



# **☑** Numbers and Sizes of Pictures to Share

Tapping (share button) displays a confirmation dialog when 200 or more pictures are selected or the total size of selected files is 4.1 GB or larger. Sharing these pictures as-is may cause the NX Field app to terminate; to prevent this, we recommend sharing them in smaller batches.

- The approximate file size of bursts or RAW pictures that were recorded in RAW + JPEG mode is calculated as follows. Note that the confirmation dialog may not appear even if the total size exceeds the 4.1 GB limit.
  - The size of bursts is calculated by multiplying the size of the first shot in the series by the number of shots in the burst.
  - The size of RAW pictures recorded in RAW + JPEG mode is uniformly calculated as 60 MB per picture.

# **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.
  - Choose a single burst image to select all the pictures in the burst.



# 3. Tap 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.

• If a voice memo is added to the picture with an upload status of the picture will be uploaded without the associated voice memo according to the queue and the same picture with the voice memo will be added to the end of the waiting queue (1146).

### 

Marks indicating completed uploads are displayed only for the most recent uploads; up to 5000 pictures can show this mark (10,000 when two memory cards are inserted).

### FTP Upload Options

For information on changing FTP settings, see <u>Viewing and Adjusting FTP</u> Settings in the NX Field App ( $\square$  156).

### Identifying Pictures Uploaded to FTP on Cameras and Computers

Tapping (camera control options button) in the playback display and setting 
[Protect after selected images to FTP] to [Yes] automatically protects pictures on the camera memory card when they are selected in the thumbnail list for 
FTP upload. Protection status can be viewed on the camera and on computer 
software such as NX Studio.

# **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.
  - Choose a single burst image to select all the pictures in the burst.



# 3. Tap (delete button).

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



#### **☑** During Deletion

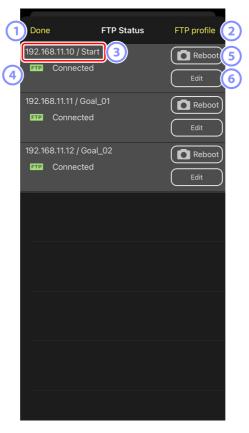
A round blue indicator is displayed during deletion. The NX Field app cannot be used while deletion is in progress.

#### **Deleting Dual-Format Pictures**

- Deleting the JPEG or HEIF copy of pictures recorded with [Overflow] selected in NEF (RAW) + JPEG or NEF (RAW) + HEIF 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 or HEIF copy of NEF (RAW) + JPEG or NEF (RAW) + HEIF pictures also deletes the NEF (RAW) copy.
- If a dual-format option 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.



- [Done]Save any changes and exit the FTP settings display.
- ② **[FTP Profile]**View existing FTP profiles (□ 164) and your FTP connection history (□ 160).

#### 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 (FTP) icon in the remote camera info area will be displayed in red if

#### 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 ( $\square$  158) or choose profiles from a list ( $\square$  164).

#### 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 (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.



Selecting the Type of Pictures to Be Uploaded to FTP (Z9, Z8 ("C" Firmware Version 2.10 or Later), and Z6III Cameras Only)

After selecting **[ON]** for **[FTP options]** > **[Auto send]**, you can select the type of pictures for FTP upload for the following upload settings:

- [Upload RAW + JPEG as] (Z9)
- [Upload RAW + JPEG as (Overflow/backup)] (Z8, Z6III)
- [Upload RAW + JPEG as (RAW primary JPEG secondary)] (Z8, Z6III)
- [Upload RAW + HEIF as (Overflow/backup)] (Z8, Z6III)
- [Upload RAW + HEIF as (RAW primary HEIF secondary)] (Z8, Z6III)

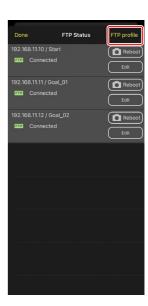
# **Adding FTP Profiles**

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



2. Tap [Select the profile].



3. Tap (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.

# <u>Copying Remote Camera FTP Profiles to Other iPhones</u> 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 (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.

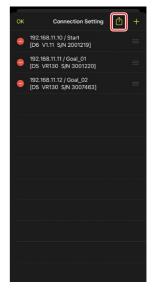


# Copying Connection Settings for All Remote Cameras to Other iPhones or iPads

The IP addresses and camera names for remote cameras with display names saved in the NX Field app ( 48) can be copied to the NX Field apps on other iPhones or iPads.

Go to (options) > [Camera Connection], tap (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 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.

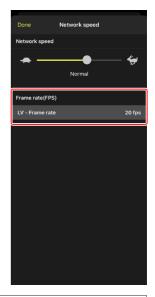
• Tap [Done] to save changes.



# **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 ( $\square$  104).

# 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.

### Camera Connection

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

# **Entering MAC Addresses for Remote Cameras**

Entering the remote camera's MAC address enables WOL.

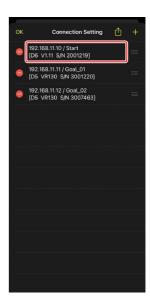
1. Tap (options button) and select [Camera Connection].







**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.



# <u>Using WOL to Activate the Standby Timers on Remote</u> <u>Cameras</u>

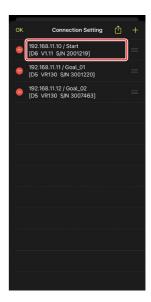
Run WOL to activate the standby timers on remote cameras.

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





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



3. Tap 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.

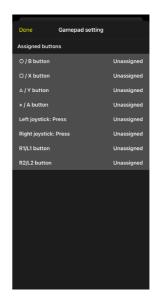
# Operate Remote Cameras Connected to an iPhone via a Gamepad

To use a gamepad to release shutters on remote cameras connected to an iPhone, go to (options) and select [Gamepad Setting].

- The following functions can be assigned to buttons on the gamepad:
  - [Shooting all cameras]: Release the shutters on all connected remote cameras.
  - [Shooting selected camera]: Release the shutter on a connected remote camera selected from the list.
- For instructions on how to connect the gamepad to the iPhone, refer to the documentation provided with the gamepad.







# **Other Options**

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



### Setting on connect

Item	Description
Sets date & time by local time	Choose whether to synchronize the clocks on the remote cameras with the iPhone. Selecting this item
- Toedi tiirie	enables [Set time zone].
Set time zone	Synchronizes daylight saving time and UTC time from your iPhone settings to the remote camera.
Setting copyright info (\$\square\$ 139)	Choose whether to overwrite the names of the photographer and copyright holder on the connected remote camera with new names.

### Misc settings

ltem	Description
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.
Enable the shooting menu bank (🕮 136)	Choose whether to enable shooting menu bank selection.
Camera name display	Set the IP address and name displayed in the remote camera info. You can select the display order and hide or display the IP address or name.

# Warning notification

Item	Description
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

Item	Description
Network speed	Choose an upload speed.

### Wake-on-LAN (D6 only)

Item	Description
Run Wake-on-LAN to	Choose whether to run WOL.
cameras (🕮 171)	

# Save camera settings

Item	Description
Save camera settings	Save current settings to the camera.

#### Reboot camera

ltem	Description
Reboot all cameras	Reboot all connected remote cameras.
(🕮 140)	

#### Force disconnect camera

Item	Description
Force disconnect	Terminate all remote camera connections to other
occupied cameras	iPhones or iPads.

#### Information

ltem	Description
Version	View version information.
License information	View license information.
Privacy policy	View the privacy policy.
Support	View the customer support website URL.

# 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

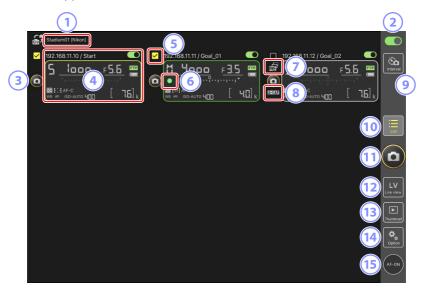
The pictures uploaded to FTP servers using the NX Field app are not the copies stored on the iPad but the original pictures stored on the camera memory card.

# 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.



- 2 Connection Switch ( 68)
  Enable or disable the connection to the remote cameras listed under the current display name.
- 3 Shutter-Release Button (on one camera)
  Releases the shutter on the selected remote camera.

### 4 Remote Camera Info ( 184)

A series of displays mirroring the information in the cameras' top control panels, including shutter speed and aperture. 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 sub-menus for camera controls and settings.

#### (5) Checkbox

Displayed when going to (options) and selecting [**Group Release**] for [**Option**] > [**Shooting Button (multi-camera) setting**]. Tapping "Shutter-Release Button (on multiple cameras)" releases the shutters on all checked remote cameras ( $\square$  246).

- 6 Memory Card Access Icon Lights while data are being recorded to the memory card in the remote camera.
- 7 Pre-Release Capture Icon ( 215)
  Displayed while performing Pre-Release Capture from the NX Field app (Z9 "C" firmware version 5.00 or later only).
- A-CAP Icon (

  252)

  Displayed while performing auto capture from the NX Field app (supported cameras only).
- Interval-Timer Photography ( 240)
  Display interval-timer options.
- List ( 188)Opens the list display.
- ① Shutter-Release Button (on multiple cameras)

Releases the shutters on all cameras in the remote camera list with connection switches currently in the (on) position. You can also release the shutter on only selected remote cameras ( $\square$  246).

#### 12 Live View

Opens live view. Choose from tile ( $\square$  196), main/secondary ( $\square$  197), and "skin" ( $\square$  198) views and take photographs or adjust camera settings.

#### 13 Thumbnails

Tapping while a selected remote camera is connected displays thumbnail images of the pictures in the remote camera memory card ( $\square$  293). Tapping a thumbnail displays the selected picture in single-frame view ( $\square$  294).

# Options ( 194) Opens the options display.

#### 15 AF-ON Button

The cameras focus while the button is held. Touch and hold the button when Pre-Release Capture is enabled to perform Pre-Release Capture buffering. The behavior of the button can be changed by tapping (options) and selecting [Option] > [AF-On button setting] ( 333).

### **Remote Camera Info**

View the same information as is shown in the remote camera's top control panel, including shutter speed and aperture.

#### Remote Camera Info in the Remote Camera List

The remote camera info displayed in the remote camera list includes such details as the type of metering selected and the number of exposures remaining. Touching and holding remote camera info displays sub-menus that can (among other things) be used to control the camera or adjust settings ( $\square$  186).

 If [Enable the shooting menu bank] is enabled, you can switch between shooting menu banks by swiping remote camera info left or right (
 285).



- 1 IP address/name
- 2 Connection switch (on one camera)
- 3 Shooting mode
- 4 Shutter speed
- 5 Aperture
- 6 FTP connection status/battery level
- 7 Metering/AF-area mode/focus mode/white balance
- 8 Shooting menu bank ("A" through "D")
- Exposure indicator
- 10 Auto ISO sensitivity indicator/ISO sensitivity
- 11 Number of exposures remaining

## Remote Camera Info in the Live View Display

Limited information on camera settings appears under the live view display for each remote camera.

• If photo mode is selected in live view and [**Enable the shooting menu bank**] is enabled, you can switch between shooting menu banks by swiping remote camera info left or right (Z9 and Z8 only; 285).



- ① Shooting menu bank ("A" through "D")
- Shooting mode
- 3 Shutter speed
- 4 Aperture
- 5 Auto ISO sensitivity indicator/ISO sensitivity

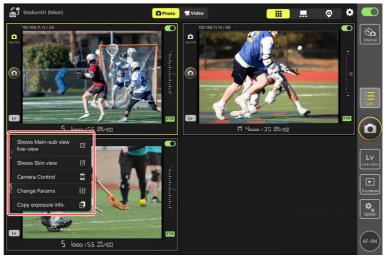
## ■ The View/Settings Sub-menu

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



Option	Description	
[Shows Tiled view live-view]	Switch to tiled live view.	
[Shows Main-sub view live-view]	Switch to main/secondary live view with the selected remote camera serving as the main camera.	<u></u> 197
[Shows Skin view]	Switch to "skin" view.	
[Camera Control]	Display controls for the selected camera.	
[Change Params]	<b>ams</b> ] Display settings for the selected camera.	
[Copy exposure info.]	View a list of the remote cameras to which exposure settings can be copied. The list can also be displayed by touching and holding remote camera info in the camera control or camera settings display.	□ 274

• A sub-menu can be displayed by touching and holding a live view pane in tiled or main/secondary live view.



- In "skin" live view, a sub-menu can be displayed by touching and holding the camera icon.
- The only item displayed when you touch and hold remote camera info in the camera control or camera settings display is [**Copy exposure info.**].

## **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 (\infty 200). You can also release the shutter on only selected remote cameras (\infty 246).
- Shutters for selected cameras can also be released individually (QQ 204).
- If you have created multiple display names, you can switch between them by tapping (display button).



## **The Camera Control Display**

Camera controls can be displayed by touching and holding the info or (in tiled or main/secondary view) live view for the desired remote camera and selecting [Camera Control] from the view/settings sub-menu.

- You can adjust focus during shooting using the controls in (camera tab) (D6 only; \(\mathref{\Pi}\) 205).
  - Select (camera tab) and tap (A-CAP button) to perform auto capture operations (supported cameras only; □ 252)
- Select (playback tab) to view pictures taken with the remote camera. You can also delete pictures or upload them to an FTP server (290). It cannot, however, be used when the live view Video (video tab) is selected.
- Select (LV tab) to take pictures while viewing a live image from the remote camera (CD 210).



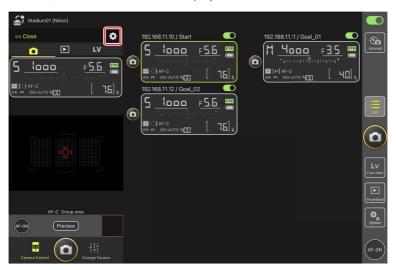
### 

Changes to settings can be made by tapping the following items in the remote camera info panes in the camera control display:

- · Shooting mode
- · Shutter speed
- Aperture
- Metering
- AF-area mode
- Focus mode
- · White balance
- Exposure compensation
- ISO-AUTO (auto ISO sensitivity control)
- ISO sensitivity

## Camera Control Options

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



Tab		Description	Ш
	Camera	Adjust focus-related settings.*	<b>1</b> 269
	Playback	Adjust settings for the playback display.*	₩ 299
LV	LV	Adjust settings for live view. *	<b>1</b> 217

<sup>\*</sup> The options available vary with the camera.

## The "Change Parameters" Display

Camera settings can be displayed by touching and holding the info or (in tiled or main/secondary view) live view for the desired remote camera and selecting [**Change Params**] from the view/settings sub-menu. The display can be used to adjust remote camera photo and video settings, including exposure, autofocus, and image quality ( $\square$  272, 277).



### 

Changes to settings can be made by tapping the following items in the remote camera info panes in the "change parameters" display:

- Shooting mode
- · Shutter speed
- Aperture
- Metering
- AF-area mode
- Focus mode
- · White balance
- Exposure compensation
- ISO-AUTO (auto ISO sensitivity control)
- ISO sensitivity

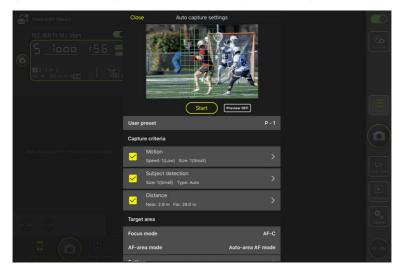
## **The Auto Capture Settings Display**

### **▼** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

Select (camera tab) in the camera control display and tap (A-CAP button) to show the auto capture settings display. You can configure auto capture settings, view a preview, load user presets, and start or suspend auto capture (QQ 252).



## **The Options Display**

Used for such tasks as adjusting remote camera network, group, and FTP profile settings or formatting memory cards ( 333).



### **Live View**

Tap (live view button) for simultaneous live views through the lenses of multiple remote cameras. You can choose from tiled, main/secondary, and "skin" views. You can also switch views by touching and holding remote camera info and selecting the desired option in the view/settings sub-menu (\Pi 186).

#### 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.

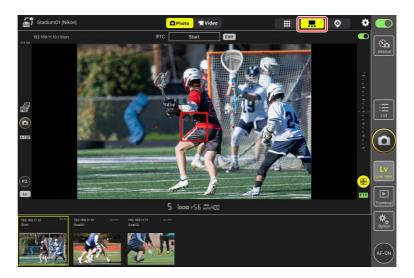
- To switch to tiled view, touch and hold the info for a remote camera and select [Shows Tiled view live-view] from the view/settings sub-menu, or select tiled view tab) above and toward the right edge of the multi-camera live view display.
- Up to nine cameras can be displayed in tiled view at any one time.
- For more information, see the sections on taking photographs (\$\sup\$ 218) and recording videos (\$\sup\$ 229) 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.

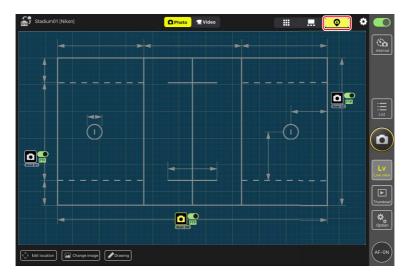
- To switch to main/secondary view, touch and hold the info for a remote camera and select [**Shows Main-sub view live-view**] from the view/settings sub-menu, or select (main/secondary view tab) above and toward the right edge of the multi-camera live view display.
- Tapping a secondary view displays 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 (\$\sup\$ 220) and recording videos (\$\sup\$ 231) 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 info for a remote camera and select [**Shows Skin view**] from the view/settings sub-menu, or select **Q** ("skin" view tab) above and toward the right edge of the multi-camera live view display.
- For more information, see "Skin" View Settings (QQ 233).



## **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 ( 227).

## 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.

## (AF-ON) Options

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

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

### ■ Taking Pictures with Multiple Remote Cameras

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

- To focus all remote cameras using autofocus, touch and hold (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 (\(\simeg \) 182) icon will light while pictures are being recorded to the memory card.
- The FTP (FTP) icon will flash while pictures are being uploaded to an FTP server.
- You can also release the shutter on only selected remote cameras ( 246).



### Disabling the Release on Selected Cameras

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

### **Ø** Selecting the Cameras to Release

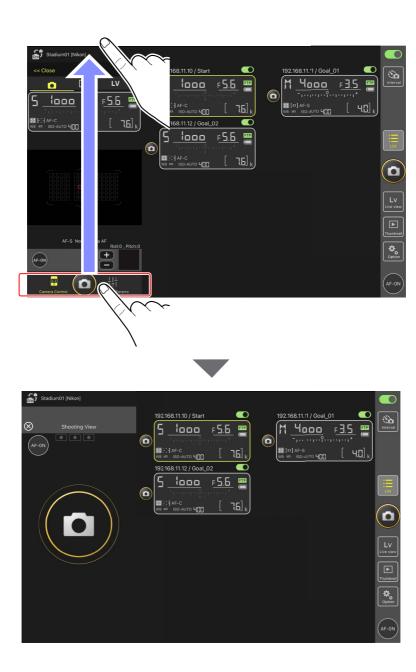
You can select the types of remote cameras to release when tapping (shutter-release button), going to (options) and selecting (Option) > [Shooting Button (multi-camera) setting].

• [Shooting Button (multi-camera) setting] only applies to remote cameras assigned the same display name that are currently connected to the NX Field app.

Options	Cameras to release
[All cameras]	All remote cameras.
[Selected camera only]	Selected remote cameras.
[All cameras except the selected one]	All remote cameras other than the one selected.
[Group Release]	Selected remote camera and all in the same shooting group.

#### **Full-Screen Release Mode**

Select [Camera Control] from the sub-menu by touching and holding the remote camera info, then swiping up on (shutter-release button) in the camera control display to switch to the full-screen release mode. (shutter-release button) will enlarge to fill the frame, allowing you to take photographs without looking at the display.

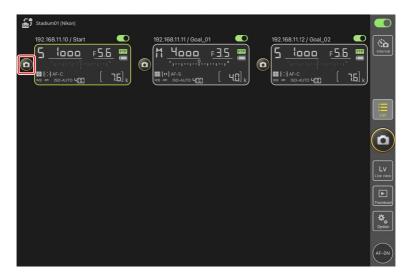


- Tap (AF-ON button) to initiate focus operations on all connected remote cameras and tap it again to stop.
- Tap the camera control display to release the shutters of all connected remote cameras.
- If [**Group Release**] is selected for [**Shooting Button (multi-camera) setting**], you can tap (shutter-release button) to release all remote cameras in the same shooting group (12 246).
- Tap 🔯 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 (\(\simeq\) 182) icon will light while pictures are being recorded to the memory card.
- The FTP (FTP) icon will flash while pictures are being uploaded to an FTP server.



### Adjusting Focus for a Selected Camera (D6 Only)

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 sub-menu.

Controls for the selected remote camera will be displayed.

• A sub-menu can be displayed by touching and holding a live view pane in tiled or main/secondary view.



2. Select (camera tab) and tap Preview (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 (preview button) again.



### 3. Tap to position the focus point.

The focus point will move to the selected position.

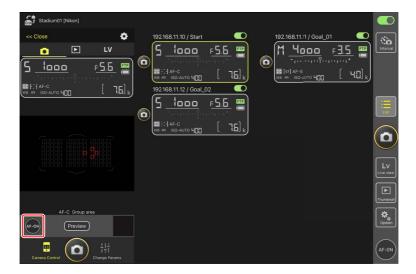


4. Touch and hold (AF-ON button) to focus.

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 Preview (preview button) again to retrieve another preview.



5. Tap (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 (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 Z9, Z8, and Z6III cameras must be set to ♠.

  Photos cannot be taken when ★ is selected.

## (AF-ON) Options

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

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

## Selecting a Camera for Live-View AF Photography

Choose a remote camera for live-view AF photography.

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

Controls for the selected remote camera will be displayed.

• A sub-menu can be displayed by touching and holding a live view pane in tiled or main/secondary view.



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

A live image from the remote camera will be displayed.

• When a power zoom lens is attached to a remote camera, zooming can be controlled through the NX Field app ( 222).



### 3. Tap to position the focus point.

The focus point will move to the selected position.



- 4. Touch and hold (AF-ON button) to focus.
  - Touch and hold (AF-ON button) when Pre-Release Capture is enabled to perform Pre-Release Capture buffering. Tapping (shutter-release button) while holding (AF-ON button) saves the burst recorded during the buffering. The behavior of the button can be changed by tapping (options button) and selecting [Option] > [AF-On button setting] ( 333).



#### AF Activation

Select [**Shutter/AF-ON**] for Custom Setting a6 [**AF activation**] to initiate autofocus during live view photography by tapping (shutter-release button).

## ✓ Using the Pre-Release Capture Feature with High-Speed Frame Capture +

When selecting a high-speed frame capture + mode (C15, C30, C60, or C120) for the camera release mode, you can use [**Pre-Release Capture options**] in the camera Custom Settings menu to choose the length of the burst recorded from the end of the memory buffer when the shutter-release button is pressed all the way down and the maximum length of the burst recorded while the shutter-release is fully pressed. You can also change settings for Pre-Release Capture and release mode in the [**Exposure**] tab ( $\square$  272) on the camera settings display of the NX Field App.

• 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 release mode cannot be changed from the NX Field app for cameras that are not equipped with a release mode dial.

### 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 + and -. Each tap adjusts focus by the amount selected for [**MF driving amount**] in the  $\bigcirc$  (camera control options) display.

### 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 **(** (shutter-release button) to take a picture.



#### Camera Live View Settings

To adjust camera live view settings, including magnification ratio and focus mode, select **LV** (LV tab) in the camera control display and tap **Q** (camera control options button).





## ■ Taking Photographs in Tiled View: 🔛 (Live View Button)

Tapping (live view button) and selecting (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 ② (shutter-release button) to the left of the tile.
- 3 Touching and holding a live view brings up the view/settings sub-menu, which among other things can be used to access the [Camera Control] (□ 269) and [Change Params] (□ 277) panels.
- 4 To end live view for a selected camera only, tap (Lv button) at the bottom left corner of the tile
- $\bigcirc$  Swipe the remote camera info at the bottom of the live view pane left or right to choose a shooting menu bank ( $\bigcirc$  285).
- 6 Displayed while performing Pre-Release Capture from the NX Field app (Z9 "C" firmware version 5.00 or later only) (\Pi 215).

- ① Displayed while performing auto capture from the NX Field app (supported cameras only) ( 252).
- (shutter-release button) on the right side of the display.
- To focus all remote cameras using autofocus, touch and hold (AF-ON button).

#### **Positioning the Focus Point**

To position the focus point, select main/secondary view or (LV tab) in the camera control display.

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

Tapping (live view button) and selecting (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. Touching and holding a live view brings up the view/settings sub-menu, which among other things can be used to access the [Camera Control] ( 269) and [Change Params] ( 277) panels.
- 3 Select and edit IPTC presets (\$\square\$ 226).
- Oisplayed while performing Pre-Release Capture from the NX Field app (Z9 "C" firmware version 5.00 or later only) (\(\simeg\) 215).

- (shutter-release button) on the left side of the display.
- 6 Displayed while performing auto capture from the NX Field app (supported cameras only) (☐ 252)
- 7 The focus point (main camera only). You can reposition the focus point by tapping the display (\Pi 211).
- ⑤ To release the shutters on selected cameras (□ 237), tap ⑥ (shutter-release button) on the right side of the display.
- 10 To end live view for the main camera only, tap (Lv button) at the bottom left corner of the display.
- $\bigcirc$  Swipe the remote camera info at the bottom of the live view pane left or right to choose a shooting menu bank ( $\bigcirc$  285).
- ① Tap to end subject tracking when [**Subject-tracking AF**] or [**Auto-area AF**] is selected for the AF-area mode.
- 13 Double-tap to view the [**FTP server settings**] display ( $\square$  313). This feature is not available during interval-timer photography or video recording.
- (4F-ON button).

#### Zooming with Power Zoom Lenses

With a power zoom lens is attached to a remote camera, zooming can be controlled through the NX Field app.

#### **▼** Supported Cameras

This feature is available with:

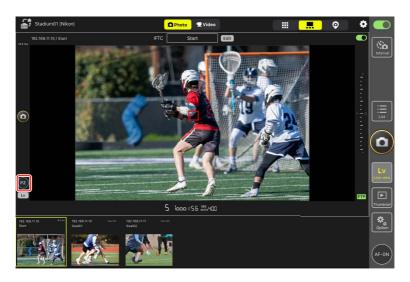
- Z9 cameras ("C" firmware version 5.10 or later)
- Z8 cameras ("C" firmware version 2.10 or later)
- Z6III cameras ("C" firmware version 1.10 or later)
- 1. Tap (power zoom button) in the live view display.

This displays the tool area.

- P2 (power zoom button) appears on V (LV tab) in the camera control display or on ... (main/secondary view tab) in the live view display.
  - LV (LV tab) in the camera control display



- 💻 (main/secondary view tab) in the live view display



#### 2. Tap **W/T** to zoom in and out.

- Tap **W** to zoom out and **T** to zoom in.
- Tap the [**Speed**] value to select the zooming speed from the sub-menu.
- Tap [PZ] (power zoom button) again to hide the tool area.



#### **Saving Zoom Positions**

Touch and hold any of [PZ1] to [PZ3] and select [Add Zoom position] from the submenu to save the current zoom position as a preset (excluding APS-C sized, DX-format NIKKOR Z lenses).

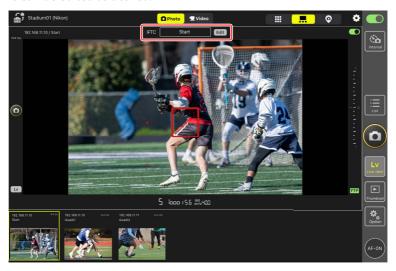
- Tap the desired preset to recall it.
- To delete a preset, touch and hold it and select [**Clear Zoom position**] from the sub-menu.
- Attaching a power zoom lens other than the one used to save the preset will reset all saved presets.



#### Automatically Add IPTC Presets to Pictures Taken in Live View

You can select and edit IPTC presets in main/secondary view during live view photography.

- Select by tapping the name of an IPTC preset (or [non-registered] if not selected). This adds the selected IPTC preset to the picture taken in main view.
- Tap Edit (Edit button) to display the edit display for the selected IPTC preset. Items can be edited as desired.



#### Creating IPTC Presets with the NX Field App

Create IPTC presets using the **[Edit]** item under **[IPTC information]** in the **[Info]** tab ( $\square$  283) on the camera settings display.

## **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) (1290) cannot be used when Video (video tab) is selected.
- Videos over 4 GB in size cannot be uploaded via FTP.

#### ▼ Camera Shutter Modes

Starting NX Field video live view automatically sets [**Shutter mode**] in the camera Custom Settings menu to [**Shutter speed**] even if [**Shutter angle**] was selected

- [Shutter mode] is available with:
  - Z9 cameras ("C" firmware version 5.10 or later)
  - Z8 cameras ("C" firmware version 2.10 or later)
  - Z6III cameras ("C" firmware version 1.10 or later)
- This setting does not restore automatically when exiting the video live view.

## (AF-ON) Options

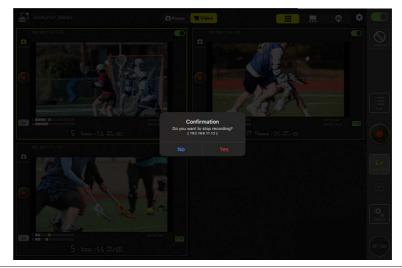
To choose how (AF-ON button) behaves, go to (options) and select [Option] > [AF-On button setting].

- [Push type]: The camera focuses while (AF-ON button) is held.
- [Toggle type]: Focus starts when you tap (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 (live view button) and selecting (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 video (video tab).



- ① Switch between photo and video modes.
- 2 The frame rate for live view ( $\square$  237).
- 3 Touching and holding a live view brings up the view/settings sub-menu, which among other things can be used to access the [Camera Control] (□ 269) and [Change Params] (□ 277) panels.
- 4 To start recording on a selected camera, use (video recording button) to the left of the tile.
- 5 To end live view for a selected camera only, tap (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.
- To start video recording on all cameras simultaneously, use (video recording button) on the right side of the display.
- To focus all remote cameras using autofocus, touch and hold (AF-ON button).

#### **Positioning the Focus Point**

To position the focus point, select main/secondary view or (LV tab) in the camera control display.

#### Recording Videos in Main/Secondary View

Tapping (live view button) and selecting (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 video (video tab).



- ① Switch between photo and video modes.
- 2 The frame rate for live view ( $\square$  237).
- 3 Tapping a secondary view displays it in main view and relegates the camera currently in main view to a secondary view. Touching and holding a live view brings up the view/settings sub-menu, which among other things can be used to access the [Camera Control] ( 269) and [Change Params] ( 277) panels.
- 4 The focus point (main camera only). You can reposition the focus point by tapping the display (\square 211).

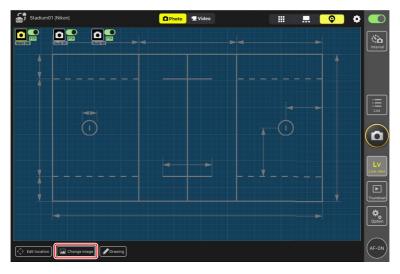
- 5 To start video recording on the main camera, tap (video recording button) on the left side of the display.
- 6 To start video recording on all cameras simultaneously, tap (video recording button) on the right side of the display.
- ⑦ When a power zoom lens is attached to a remote camera, zooming can be controlled through the NX Field app (□ 222).
- Sound level indicators.
- 10 The number in the first row is the recording time, that in the second row the time code.
- 1 Tap to end subject tracking when [**Subject-tracking AF**] or [**Auto-area AF**] is selected for the AF-area mode
- ① Double-tap to view the [**FTP server settings**] display ( 313). This feature is not available during interval-timer photography or video recording.
- (3) To focus all remote cameras—main and secondary included—touch and hold (AF-ON button).

## "Skin" View Settings

Choose a picture stored on the iPad for use as a "skin" in "skin" view ( 198). 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.



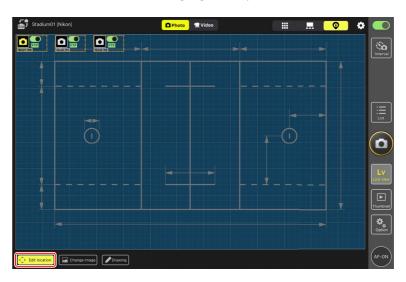
#### Mapping Remote Camera Locations

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.

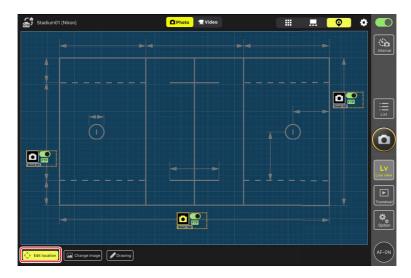
• The selected camera icon is highlighted in yellow.



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

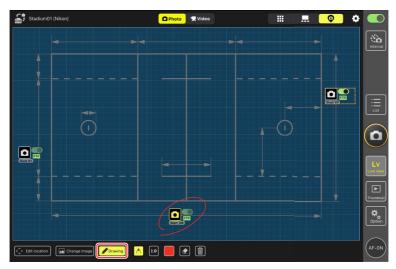
The remote cameras' locations will be saved.

• Touching and holding the icons displays a sub-menu.



## Annotating Backgrounds

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



Annotation controls are described below.

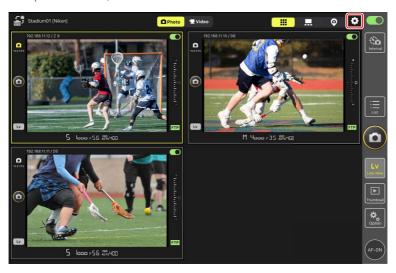
Control	Description
$\land$	Select to add hand-drawn annotations.
2.0	Choose line thickness of from [1.0] to [8.0].
	Choose a color. The default is red.
	Select to erase parts of the annotations.
	Delete all annotations.

#### ✓ Taking Photographs and Recording Videos in "Skin" View

- In "skin" view, you can take photographs or start video recording on all cameras by tapping (shutter-release button) or (video recording button) on the right side of the display.
- Enabling group release puts check boxes on the remote camera icons (\$\sup\$ 246).

## **Adjusting Live View Settings**

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



Item	Sub-item	Description
	Frame rate	Choose a frame rate for the main view display from
	of main LV	seven options ranging from [1 fps] to [30 fps].
Frame rate	Frame rate	Choose a frame rate for the secondary view displays
(FPS)	of sub LV	from seven options ranging from [1 fps] to [30 fps].
	Frame rate	Choose a frame rate for tiled view from seven
	of tile LV	options ranging from [ <b>1 fps</b> ] to [ <b>30 fps</b> ].

Item	Sub-item	Description
item		Choose an image size for the main view display
Image size	Image size of main LV	from [Equivalent to QVGA], [Equivalent to VGA],
		[Equivalent to XGA].
		Choose an image size for the secondary view
	Image size of sub LV	display from [Equivalent to QVGA], [Equivalent
		to VGA], [Equivalent to XGA].
		Choose an image size for tiled view display from
	Image size	[Equivalent to QVGA], [Equivalent to VGA],
	of tile LV	[Equivalent to XGA]
	Image	
	compression	Choose an image quality for the main view display
	of main LV	from six options ranging from [BASIC] to [FINE★].
lmaga	Image	Choose an image quality for the secondary view
Image	compression	display from six options ranging from [BASIC] to
compression	of sub LV	[FINE★].
	Image	Choose an image quality for tiled view display from
	compression	six options ranging from [BASIC] to [FINE★].
	of tile LV	six options ranging norm [BASIC] to [FINEX].
		Select which cameras will release the shutter
		when tapping the button on the right side of the
		main view display, from [All cameras], [Selected
Shooting		camera only], [All cameras except the selected
Button (multi-	Shooting	one], or [Group release].
camera)	Button	This is the same item as [Shooting Button
setting		(multi-camera) setting] in 🚨 (options) >
		[ <b>Option</b> ] ( $\square$ 247). Changes to either item will
		apply to both.
		Not available during video recording.

ltem	Sub-item	Description
Focus point		Select whether to display the focus point indicated
display setting	Focus point	as a red frame on the main view display. You can tap
(Main-sub	display	the display to move the focus point even when the
view)		red frame is hidden.
Chin imaga	Opacity	Adjust the opacity of the "skin" image; choose from
Skin image		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

- Configure the remote cameras for a release mode other than self-timer or Mup.
- Some features are not available during interval-timer photography, including switching between the list display and live view and copying exposure settings.
- Interval-timer photography will pause if the user views the camera controls or camera settings display while shooting in the [NORMAL] or [Advance] tab.
   Closing either of the displays will resume shooting. Note that regardless of when shooting is paused, the next shooting will restart from the beginning of the interval.

#### 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 (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 button) and (stop button). 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]

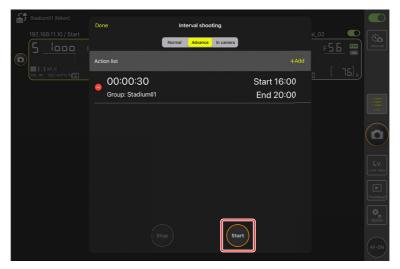
Perform interval-timer photography according to the settings selected for [**Interval timer shooting**] in the camera photo shooting menu. The NX Field app is used only to start and stop interval-timer photography. This option is available with compatible remote cameras (Z9, Z8, and Z6III only).



## 3. Tap 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 button).



#### Taking Pictures Between Intervals

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

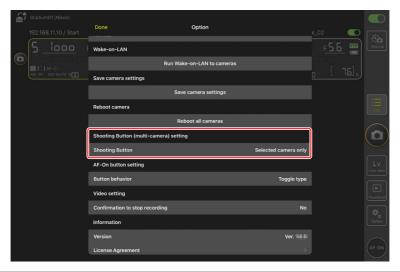
## **Group Release**

The NX Field app enables a simultaneous shutter release for all remote cameras assigned the same display name ( $\square$  46). Further dividing the remote cameras under a display name in smaller shooting groups allows you to limit shutter release to the target cameras to optimize shooting performance.

- Enable the group release before setting shooting groups and starting group releases (\(\simeg 247\)).
- You can use the shooting group settings and the group release function when taking photos in the remote camera list or the tiled, main/secondary, and "skin" live view displays.

## **Enabling Group Release**

Go to (options) and select [Group Release] for [Option] > [Shooting Button (multi-camera) setting] to set shooting groups and enable group release.



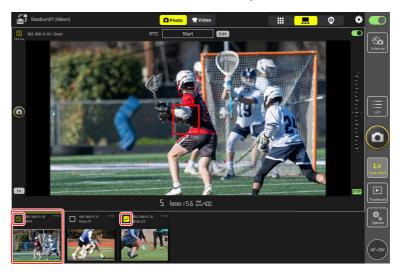
[Shooting Button (multi-camera) setting] In Live View Settings

The [Shooting Button (multi-camera) setting] item can be set from the live view settings or from (options) > [Option]. Changes to either item will apply to both.

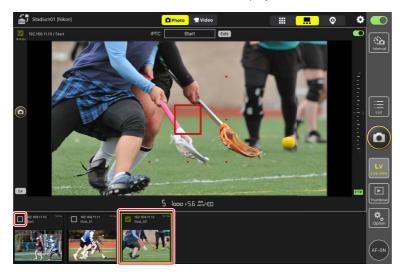
## **Setting Shooting Groups**

Set a shooting group by selecting check boxes on "child" remote cameras while selecting a remote camera to be their "parent" in the list display or in main view.

• The shooting group settings will automatically be saved. If the remote camera set as the "parent" is deselected in the list display or displayed in secondary view, then selected in the list display or displayed in main view again, the check boxes on "children" remote cameras will be automatically selected.



• Since a shooting group setting is saved for each "parent" remote camera, the checkbox on the "parent" remote camera will not be automatically selected if a "child" remote camera is selected in the list or displayed in main view.

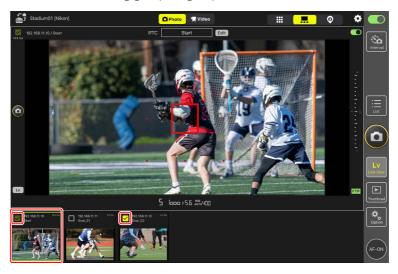


## **Group Releases**

Execute a group release for the set shooting group.

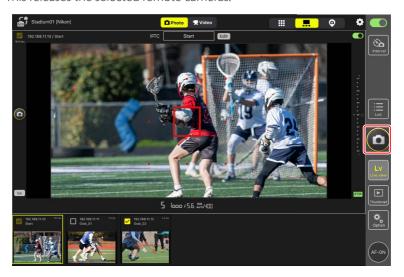
- Enable group release and select remote cameras for the shooting group before shooting (\$\square\$ 247, 248).
  - 1. In the remote camera list or the tiled, main/secondary, and "skin" live view displays, select a "parent" remote camera for the shooting group or display it in main view

This automatically selects the check boxes on all "parent" and "child" remote cameras in the shooting group for group release.



## 2. Tap (shutter-release button).

This releases the selected remote cameras.



# Performing Auto Capture Operations on the NX Field App

Use the NX Field app to start, suspend, or adjust settings for auto capture on the camera.

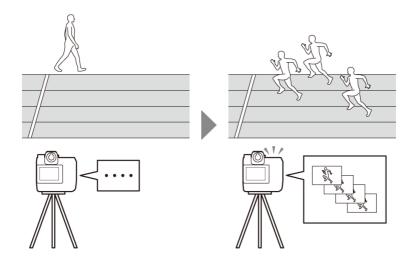
#### **▼** Supported Cameras

For details on auto capture, refer to the camera *Reference Guides* or *Supplementary Firmware Update Manuals*. This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

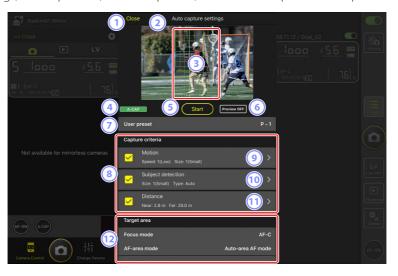
# What Is "Auto Capture"?

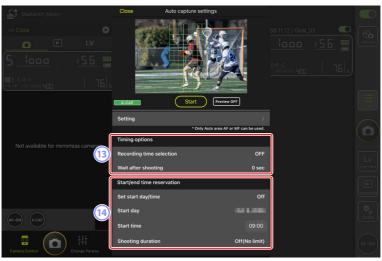
Auto capture is a function in which the camera takes photos or records videos automatically when the camera recognizes a subject. By choosing the trigger criteria for auto capture, photographers create what is effectively an unmanned camera that can take photos or film videos automatically without further action on their part.



# **The Auto Capture Settings Display**

Select (camera tab) in the camera control display and tap (A-CAP button) to show the auto capture settings display ( 189). You can configure auto capture settings, view a preview, load user presets, and start or suspend auto capture.





#### 1 Close

Return to the camera control display.

• Closing the auto capture settings display does not suspend an auto capture that is in progress. Tap [**End**] to end auto capture.

#### 2 Live View

Before starting auto capture, you can check whether the camera recognizes the subject as intended. When the camera recognizes a subject that meets the configured criteria, green boxes appear on the subject.

#### 3 Focus Point/Auto Capture Detection Area

The focus point is displayed in red, and the auto capture detection areas are displayed in green. If a setting other than [**Auto-area AF**] is configured for the AF-area mode on the camera, you can tap the screen to move the focus point.

#### 4 The Auto Capture Status Display

**A-CAP** (A-CAP) is displayed while auto capture is in progress.

#### 5 Start/End

Tap the [**Start**] button to start auto capture with configured settings. Tap the [**End**] button to end auto capture.

#### ☑ Disabled [Start] Button

The [**Start**] button is disabled if the camera cannot perform auto capture operations due to conditions such as no lens being attached. Check the camera's settings.

# ✓ Cautions: Auto Capture

- The following functions cannot be used while auto capture is in progress.
  - Interval-timer photography
  - Video live view
- Saving settings to the camera by tapping (options) and selecting [Option] > [Save camera settings] will end auto capture.

#### 6 Preview

Tap this button to show or hide the focus point/auto capture detection area (3).

#### User Presets

Select and load user presets for auto capture stored in the camera. Changes made to auto capture settings with the NX Field app are also automatically reflected in user presets.

#### **8** The [Capture Criteria] Check Boxes

Checked settings will be effective during auto capture.

• At least one checkbox must be checked. When switching capture criteria, first check the checkbox of the criterion to be switched to.

#### **9** [Motion] (□ 258)

The configured speed and size of motion are displayed. Tap to display motion settings.

# (1) [Subject Detection] (1) 261)

The size and target of subject detection are displayed. Tap to display subject detection settings.

#### 

Displays the nearest and farthest distances to the subject that the camera recognizes. Tap to display distance settings.

• You can use this function when a NIKKOR Z lens is attached. It may not function with other lenses

# (12) [Target Area] (12) 265)

Tap to display target area settings.

- Configure settings for the focus mode and the AF-area mode. Tap [**Setting**] to display the target area settings when any of the following criteria is met:
  - The focus mode is set to a mode other than **MF** and the AF-area mode is set to [**Auto-area AF**].
  - The focus mode is set to **MF** and the [**Distance**] capture criteria checkbox is unchecked

# (13) [Timing Options] (12) 267)

Configure the shooting duration and the minimum length of time it will wait before beginning shooting again.

(4) [Start/end time reservation] (12) 268)

Set the date and time to begin auto capture with the NX Field app (supported cameras only).

# **Configuring Capture Criteria**

Configure the criteria for performing auto capture. The configurable criteria are [Motion], [Distance], and [Subject detection]. If multiple criteria are selected, shooting will only be performed when all of the criteria are satisfied.

# [Capture Criteria]: [Motion]

Tap [**Motion**] in the auto capture settings display to open the motion settings display. You can configure the direction of movement, speed, and size of the subject.



#### 1 Live View

Preview how the camera recognizes the subject under the configured motion criteria.

• You can configure the point where you want to focus by tapping the position where the subject is expected to enter the angle of view.

#### 2 Back

Save settings and return to the previous display.

#### 3 [Slowest]

Configure a value that corresponds to the speed measured as the time taken for the subject to cross the frame horizontally. Each option roughly corresponds to the following number of seconds.

- [1(Low)]: About 5 s or less
- [2]: About 4 s or less
- [**3**]: About 3 s or less
- [4]: About 2 s or less
- [5(High)]: About 1 s or less

#### 4 [Smallest]

You can configure the size of the subject. Choose from the following five options corresponding to the size of the auto capture detection areas consisting of the number of points (the green boxes displayed in live view).

- [1(Small)]: 4 points or larger
- [2]: 8 points or larger
- [3]: 14 points or larger
- [4]: 24 points or larger
- [5(Large)]: 34 points or larger

# ☑ Size Settings for [Motion] and [Subject Detection]

When both [Motion] and [Subject detection] are checked under [Capture criteria] in the auto capture settings display, the [Smallest] chosen for the former will have no effect on the [Smallest] chosen for the latter. Changing the [Smallest] selected in the motion settings display has no effect on the [Smallest] selected in the subject detection display. The two conditions will be assessed separately, but only subjects that meet the criteria for both will trigger auto capture.

## ⑤ [Direction]

Select the direction in which the subject should move in order for the camera to shoot. Multiple directions can be selected. Tap the camera icon in the center to check all check boxes

#### 6 AF-ON

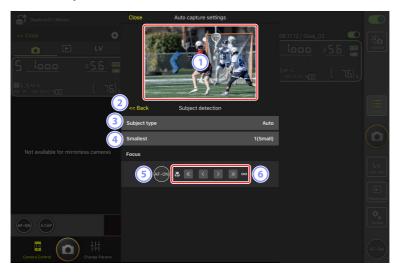
Touch and hold the button to perform autofocus on the selected focus point.

#### Manual Focus

Tap << or >> to move the focus position to the near side or the infinity side in fixed step widths. To adjust the focus position in smaller step widths, tap << or >

# [Capture Criteria]: [Subject Detection]

Tap [**Subject detection**] in the auto capture settings display to open the subject detection settings display. You can configure the size and type (such as animal or vehicle) of the subject.



#### 1 Live View

Preview how the camera recognizes the subject under the configured subject detection criteria.

• You can configure the point where you want to focus by tapping the position where the subject is expected to enter the angle of view.

# 2 Back

Save settings and return to the previous display.

# ③ [Subject Type]

Choose a subject type.

#### 4 [Smallest]

You can configure the size of the subject as a percentage of the angle of view. Each option roughly corresponds to the following percentages.

- [1(Small)]: 2.5% or more
- [2]: 5% or more
- [3]: 10% or more
- [4]: 15% or more
- [**5(Large)**]: 20% or more

#### ☑ Size Settings for [Motion] and [Subject Detection]

When both [Motion] and [Subject detection] are checked under [Capture criteria] in the auto capture settings display, the [Smallest] chosen for the former will have no effect on the [Smallest] chosen for the latter. Changing the [Smallest] selected in the motion settings display has no effect on the [Smallest] selected in the subject detection display. The two conditions will be assessed separately, but only subjects that meet the criteria for both will trigger auto capture.

#### (5) AF-ON

Perform autofocus at the position where the focus point is set while touching and holding the button.

# **6** Manual Focus

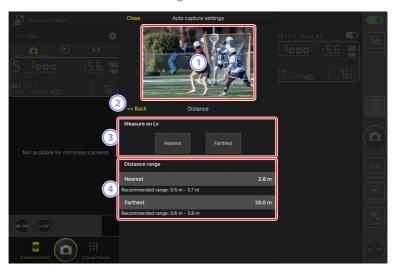
Tap  $\leq$  or >> to move the focus position to the near side or the infinity side in fixed step widths. To adjust the focus position in smaller step widths, tap  $\leq$  or



# [Capture Criteria]: [Distance]

Tap [**Distance**] in the auto capture settings display to open the distance settings display. You can configure the nearest and farthest distances at which the camera will recognize the subject.

- You can use this function when a NIKKOR Z lens is attached. It may not function with other lenses.
- The nearest distance cannot be set greater than the farthest distance.



#### 1 Live View

Preview how the camera recognizes the subject under the configured distance criteria.

#### 2 Back

Save settings and return to the previous display.

# 3 [Measure on Lv]

Tap these buttons to enable changes to the nearest or farthest distance by tapping the live view display. Tap [**End**] to end the process.

• This option is not available when the focus mode is set to **MF**.

## 4 [Distance Range]

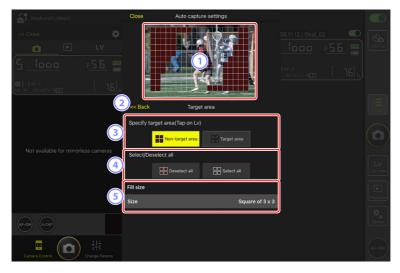
Tap to select the nearest and farthest distances.

- The setting units according to the range of distances are as follows:
  - Less than 20 m: 0.1 m
  - 20-50 m: 1.0 m
  - More than 50 m: 5.0 m
- Set the distance within the range indicated by [Recommended range].
   Setting the distance outside this range will reduce the accuracy of recognizing the distance to the subject.

# Configuring the Target Area

Tap [**Setting**] under [**Target area**] in the auto capture settings display to open the target area settings display. By specifying non-target areas, such as areas with obstacles within the angle of view, you will be able to capture the subject more accurately.

- This option is available when either of the following criteria is met:
  - When the focus mode is set to a mode other than **MF** and the AF-area mode is set to [**Auto-area AF**].
  - When the focus mode is set to MF and the [Capture criteria] checkbox for [Distance] is unchecked.



#### 1 Live View

Preview how the camera recognizes the subject within the target area.

#### 2 Back

Save settings and return to the previous display.

## ③ [Specify Target Area (Tap on LV)]

After tapping the [Non-target area] or [Target area] button, you will be able to tap points in live view to set them as non-target or target areas. Contiguous points can be selected together by dragging your finger across the screen.

## 4 [Select/deselect All]

Target and non-target areas for subject recognition can be configured all at once.

# Tip for Configuring the Target Area

If the non-target area is larger, tap [**Deselect all**], or if the target area is larger, tap [**Select all**], then use [**Specify target area (Tap on LV)**] to quickly configure the target area.

#### (5) [Fill Size]

Set the size of the area to be selected with a single tap.

# Configuring the Recording Time

Configure the length of time the camera continues to shoot after auto capture is triggered and the minimum length of time it will wait before beginning shooting again.

# · [Recording Time Selection]

Select the amount of time to record for each shot from 1 second to 30 minutes, or select [**OFF**]. If a setting other than [**OFF**] is selected, the camera will continue to record for the configured amount of time even if the subject is no longer detected. If [**OFF**] is selected, the camera will only record while the subject is detected.

 Depending on the settings on the camera, it may not be possible to record for the configured amount of time.

#### · [Wait After Shooting]

Select the amount of time to wait after shooting from 0 seconds to 30 minutes. The camera will not start shooting until the configured amount of time has elapsed since the previous shot, even if the subject is detected earlier.

# **Scheduling Auto Capture**

#### **✓** Supported Cameras

This feature is available with:

- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

You can enable/disable auto capture scheduling, set the start date and time, and set the duration in the auto capture settings display.

- The time display format varies depending on your iPad's language settings.
- Once scheduled, as well as when auto capture is in progress, A-CAP is displayed in the auto capture settings display and the following functions will be unavailable:
  - Button operations other than [**End**] in the auto capture settings display
  - Interval-timer photography
  - Video live view

# Adjusting Remote Camera Settings from the NX Field App

The controls for adjusting remote camera settings in the NX Field app consist of a display principally for focus-related settings, another for exposure-related settings, and a third for most other camera settings.

# **Adjusting Focus-Related Settings**

The NX Field app can be used to select the focus mode and AF-area mode and adjust other focus-related settings.

 Touch and hold the info for the desired remote camera and select [Camera Control] from the sub-menu.

Controls for the selected remote camera will be displayed.

• A sub-menu can be displayed by touching and holding a live view pane in tiled or main/secondary view.



2. Select (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 release mode cannot be changed from the NX Field app for cameras that are not equipped with a release mode dial.
- You can also change release mode settings in the [Exposure] tab
   (\$\sum\_2\$ 272) on the camera settings display.

# **Adjusting Exposure Settings**

Remote camera settings such as shutter speed and aperture can be adjusted from the NX Field app.

**1.** Touch and hold the info for the desired remote camera and select [**Change Params**] from the sub-menu.

Settings for the selected remote camera will be displayed.

• A sub-menu can be displayed by touching and holding a live view pane in tiled or main/secondary view.



#### 2. Tap [Exposure].

Adjust exposure settings for the selected remote camera. This can be done by tapping settings in the display.



## ▼ Shooting Mode for Z6III

The shooting mode for Z6III cannot be set from the NX Field app. Use the camera to change the setting.

# Copying Exposure Settings from One Remote Camera to Another

Exposure settings can be copied from the display to any other remote cameras currently connected.

- The following settings will be copied: shutter speed, aperture, auto ISO sensitivity control status (enabled or disabled), ISO sensitivity, exposure compensation, white balance, white balance fine-tuning, and preset manual white balance.
  - Touch and hold the info for the source remote camera and then tap [Copy exposure info.].

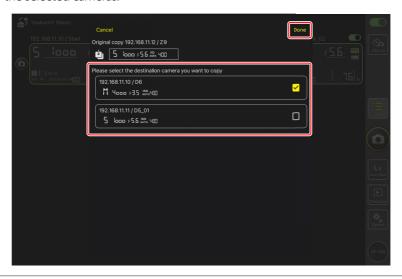
You will be prompted to choose the destination remote cameras.

• A sub-menu can be displayed by touching and holding a live view pane in tiled or main/secondary view.



2. Select the desired remote cameras and tap [Done].

Tap [**Yes**] when prompted to copy the source camera's exposure settings to the selected cameras.



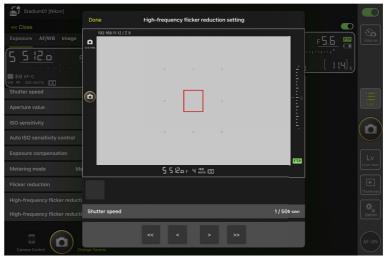
#### Restrictions

- Depending on the model and current settings, the destination remote cameras may not support the copied values. In this event, shutter speed, aperture, ISO sensitivity, and exposure compensation will be set to the closest supported values.
- You may not be able to copy white balance between different models of camera.
- Exposure settings cannot be copied during video recording or interval-timer photography.
- Exposure settings cannot be copied during auto capture.
- Copying exposure settings while a [**Toggle type**] focus operation ( 333) is in progress interrupts the focus operation; the focus operation will resume once copying is complete.

# High-Frequency Flicker Reduction

A [**High-frequency flicker reduction**] option is available when a Z9 ("C" firmware version 2.10 or later), Z8, or Z6III 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 live view. 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 Z9, Z8, or Z6III *Reference Guide*.

# **Adjusting Other Remote Camera Settings**

Adjust remote camera settings, such as white balance and Picture Controls.

## 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 in the live view display: tap

Photo (Photo tab) for still photography or Video (Video tab) for video recording. The options in the [Video] tab in the camera control display apply during video recording only.

# ■ The "Change Params" [AF/WB] Tab

Adjust autofocus and white balance settings. Some autofocus settings can also be accessed via camera control options ( $\square$  269).



#### **Measuring Spot White Balance**

# **▼** Supported Cameras

This feature is available with:

- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)
- D6 cameras

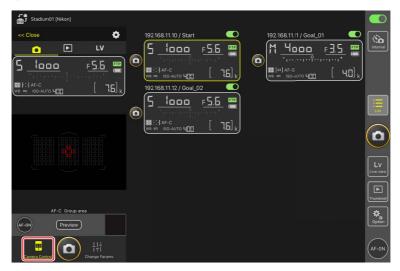
Spot white balance can be measured in live view when [**Preset manual**] is selected for white balance.

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 (camera control button).



# 3. Tap LV (LV tab).

A live image from the remote camera will be displayed.



# 4. Tap (WB button).

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

• Autofocus operation is interrupted. Exiting direct measurement mode reactivates autofocus.



**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 (WB button) again to exit direct measurement mode.
  - "The memory card is not inserted." message may appear when exiting direct measurement mode, but this does not indicate a malfunction.

# ■ The "Change Params" [Image] Tab

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



# ■ The "Change Params" [Info] Tab

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



# ■ The "Change Params" [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.



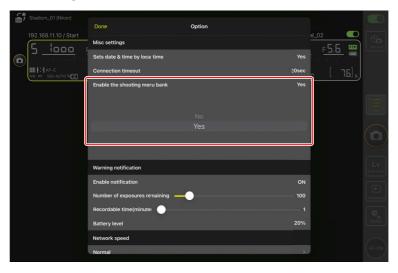
# Choosing a Settings Bank

You can switch between photo shooting menu settings stored on the remote camera in banks "A" through "D" by swiping the remote camera info in the NX Field app."

- This feature is available with the Z9, Z8, and D6.
  - 1. Adjust settings in the remote camera photo shooting menu.

The procedure varies with the camera:

- Z9 and Z8 cameras: Select [**Extended menu banks**] in the photo shooting menu and choose [**ON**].
- D6 cameras: Select [**Extended photo menu banks**] in the photo shooting menu and choose [**On**].
- 2. Go to (options) > [Option] in the NX Field app and select [Yes] for [Enable the shooting menu bank].



3. Connect to the remote camera from the NX Field app.

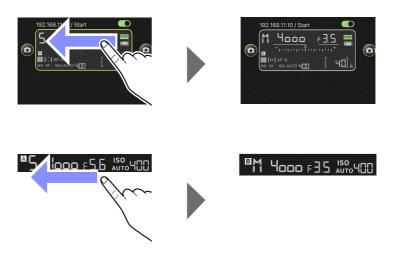
The remote camera info will now include a shooting menu bank icon ("A"-"D").



4. Swipe the remote camera info left or right.

The selected shooting menu bank will change.

- It will take about a second for settings to be updated after you stop swiping.
- Shooting menu bank selection is also supported during still photography live view (Z9 and Z8 only).



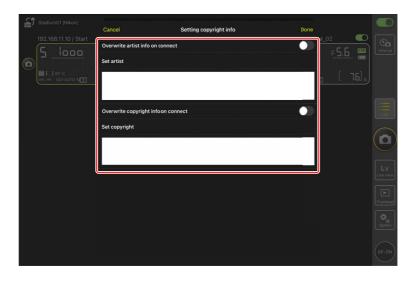
# Loading Shooting Menu Settings

- NX Field will require additional time to load all the shooting menu settings from banks "A" through "D" when connecting to remote cameras with [Yes] selected for [Enable the shooting menu bank].
- Shooting menu settings cannot be loaded by selecting [Yes] for [Enable the shooting menu bank] after a connection has been established to the remote camera via the NX Field app. End the connection to the remote camera and then reconnect.

# Configuring Copyright Information

Go to (options), open [**Option**], and tap [**Setting copyright info**] to display a dialog to access the following settings:

- You can choose whether to overwrite these settings on the remote cameras when connected.
- Set the name of the photographer and copyright holder. You can enter up to 36 characters for the photographer's name and 54 characters for the copyright holder.



## **Rebooting All Connected Remote Cameras**

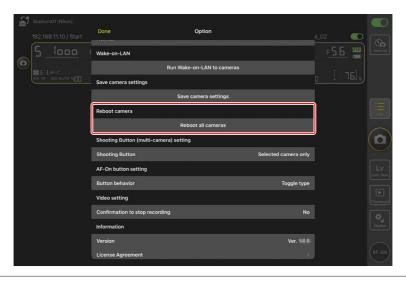
## ▼ Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.10 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

Go to (options), open [**Option**], tap [**Reboot all cameras**] to display the confirmation dialog, then tap [**OK**] to reboot all connected remote cameras.

 The rebooted remote cameras will be automatically reconnected to the NX Field app.



## Using NX Field for an Extended Period

When using NX Field for an extended period, reboot the remote cameras during intermissions or at other convenient times to reduce the risk of unexpected errors and loss of communications.

## **Viewing Pictures with the NX Field App**

## **Viewing Pictures**

To view a thumbnail list of the pictures on the memory cards in the selected remote camera, tap (playback tab) in the camera control display.



- ① **Display Name and [Group Name] ( © 60)** The display name and group name.
- (2) [Close]
  Close the camera control panel.
- 3 Camera Control Options ( 299)
  Adjust settings for the playback display.
- 4 Camera, Playback, and LV Tabs Choose the tab to be displayed.

#### Sefresh

Refresh the thumbnail display.

#### 6 Find

Filter pictures by protection status or date of recording.

#### 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 ( $\bigcirc$  292). Tapping a thumbnail displays the selected picture in single-frame view ( $\bigcirc$  294).

#### 10 Number of Pictures

The total number of pictures saved on the memory card in the selected slot displayed in the thumbnail list. A burst is counted as one picture.

## ✓ 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 ( $\square$  301).

## Thumbnails Display

Details of the thumbnail display that appears by tapping (playback tab) in the camera control screen are as follows.

- The app displays only the JPEG or HEIF copies of pictures recorded in RAW + JPEG or RAW + HEIF 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.
- Pictures with voice memos are marked with
- Only the first shot in each series of burst photography (a burst) will appear as a thumbnail. A licon is displayed on the thumbnail. Tap the thumbnail image to display all the pictures in the burst as thumbnails.

### **▼** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)
- Tap the first picture in the burst to exit to the previous screen.
- How the series of shots taken in burst photography are displayed can be changed using the playback display options (□ 299).
- If voice memos are added to pictures other than the first picture in a burst,
   does not appear on thumbnail images.
   appears on pictures with voice memos when all pictures in the burst are viewed as independent thumbnails.
- 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 Larger Thumbnails**

Tapping on the right side of the display shows larger thumbnails than when displayed in the (playback tab) of the camera control display.

• The controls and functions are the same as those for the smaller thumbnails in the camera control display (\square 290).



## Display a Picture in Single-Frame View

Display the selected picture in single-frame view by tapping its thumbnail in the playback display. You can share and save the current picture, send it via FTP, or add a voice memo.



## 1 [AF]

Tap this icon to view the focus point used when the picture was taken. This is not available when a HEIF or RAW picture recorded with HLG selected for tone mode is displayed in single-frame view.

## (2) [Info.]

Tap this icon to view the date and time of recording, shutter speed, and other shooting information. This is not available when a HEIF or RAW picture recorded with HLG selected for tone mode is displayed in single-frame view.

## **3** The View Area

Displays the selected picture in full frame.

## 4 Share

Tap this icon to share the current picture with others via e-mail, messaging, etc ( $\Omega$  301). You can also download it to your iPad camera roll.

#### 5 FTP

Tap this icon to upload the current picture to the FTP server.

### 6 Record/Play Voice Memos

## **☑** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)
- Tap ☐ (record voice memo button) to display a dialog to record a voice memo (☐ 296).
- When a picture with a voice memo is viewed in single-frame view, (play voice memo button) appears and tapping it will play the voice memo.

#### Oelete

Delete the current picture from the remote camera. You can delete voice memos from selected pictures in the confirmation dialog.

#### Add a Voice Memo to a Picture

## **▼** Supported Cameras

This feature is available with:

- Z9 cameras ("C" firmware version 5.00 or later)
- Z8 cameras ("C" firmware version 3.00 or later)
- Z6III cameras ("C" firmware version 2.00 or later)

Selecting a picture in the playback display to display in single-frame view will show (record voice memo button) to record a voice memo. You can record a voice memo with your iPad's microphone and add it to the current picture.

- A voice memo cannot be added to a protected picture.
  - 1. Tap a picture in the thumbnail list.

The selected picture is displayed in single-frame view.



2. Tap (record voice memo button) in single-frame view.

Tap [Start] in the confirmation dialog to start recording.

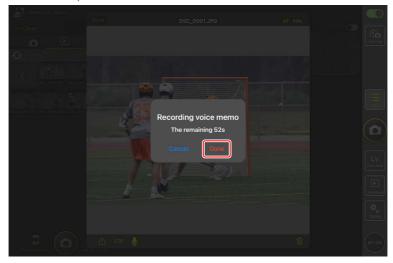
• Up to 60 seconds of a voice memo can be recorded.



## **3.** Tap [**Done**].

The voice memo is saved to the camera memory card.

• The voice memo is saved in the same folder and has the same file name as the current picture.



## Adjusting Playback Display Settings

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





#### 1 [Thumbnail view on the camera control]

Choose 1 to 6 thumbnails to be displayed in each row in the playback tab of the camera control display.

## [Large thumbnail view]

Choose 1 to 6 larger thumbnails to be displayed in each row by tapping 🖳



## **③ [Image Size to Download]**

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

## 4 [List Series as Single Thumbnails]

Configure how the series of shots taken in burst photography are displayed.

#### 5 [Protect After Selected Images to FTP]

Automatically protects pictures in the camera memory card that are selected for upload via FTP in the thumbnail list.

## **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.

• Choose a single burst image to select all the pictures in the burst.



## 3. Tap (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.



### **▼** Numbers and Sizes of Pictures to Share

Tapping (share button) displays a confirmation dialog when 200 or more pictures are selected or the total size of selected files is 4.1 GB or larger. Sharing these pictures as-is may cause the NX Field app to terminate; to prevent this, we recommend sharing them in smaller batches.

- The approximate file size of bursts or RAW pictures that were recorded in RAW + JPEG mode is calculated as follows. Note that the confirmation dialog may not appear even if the total size exceeds the 4.1 GB limit.
  - The size of bursts is calculated by multiplying the size of the first shot in the series by the number of shots in the burst.
  - The size of RAW pictures recorded in RAW + JPEG mode is uniformly calculated as 60 MB per picture.

## **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.

• Choose a single burst image to select all the pictures in the burst.



## 3. Tap 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.

• If a voice memo is added to the picture with an upload status of the picture will be uploaded without the associated voice memo according to the queue and the same picture with the voice memo will be added to the end of the waiting queue (296).

## Transfer Marking for Pictures After Upload

Marks indicating completed uploads are displayed only for the most recent uploads; up to 5000 pictures can show this mark (10,000 when two memory cards are inserted).

## **FTP Upload Options**

For information on changing FTP settings, see <u>Viewing and Adjusting FTP</u> Settings in the NX Field App ( $\Omega$  310).

## ☑ Identifying Pictures Uploaded to FTP on Cameras and Computers

Tapping (camera control options button) in the playback display and setting [Protect after selected images to FTP] to [Yes] automatically protects pictures in the camera memory card when they are selected in the thumbnail list for FTP upload. Protection status can be viewed on the camera and on computer software such as NX Studio.

## **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.

• Choose a single burst image to select all the pictures in the burst.



## 3. Tap (delete button).

A confirmation dialog will be displayed; tap  $[\mathbf{OK}]$  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 or HEIF copy of pictures recorded with [Overflow] selected in NEF (RAW) + JPEG or NEF (RAW) + HEIF 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 or HEIF copy of NEF (RAW) + JPEG or NEF (RAW) + HEIF pictures also deletes the NEF (RAW) copy.
- If a dual-format option 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.

## [FTP Profile]

View existing FTP profiles (\$\sum 319\$) and your FTP connection history (\$\sum 315\$).

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

#### Seboot

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 ( $\bigcirc$  312) or choose profiles from a list ( $\bigcirc$  319).

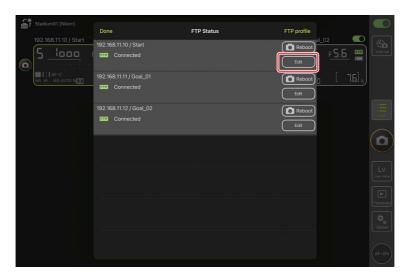
### **▼** FTP Server Down

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.

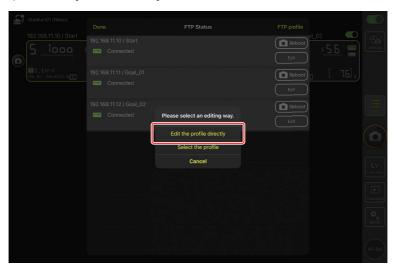
## **Editing Remote Camera FTP Profiles Directly**

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.

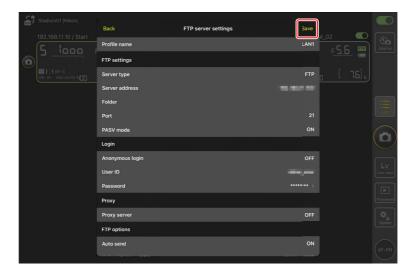
- **1.** Tap (edit button) for the desired remote camera in the FTP status display.
  - This option is available only with cameras listed as [Connected].



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.



## Selecting the Type of Pictures to Be Uploaded to FTP (Z9, Z8 ("C" Firmware Version 2.10 or Later), and Z6III Cameras Only)

After selecting **[ON]** for **[FTP options]** > **[Auto send]**, you can select the type of pictures for FTP upload for the following upload settings:

- [Upload RAW + JPEG as] (Z9)
- [Upload RAW + JPEG as (Overflow/backup)] (Z8, Z6III)
- [Upload RAW + JPEG as (RAW primary JPEG secondary)] (Z8, Z6III)
- [Upload RAW + HEIF as (Overflow/backup)] (Z8, Z6III)
- [Upload RAW + HEIF as (RAW primary HEIF secondary)] (Z8, Z6III)

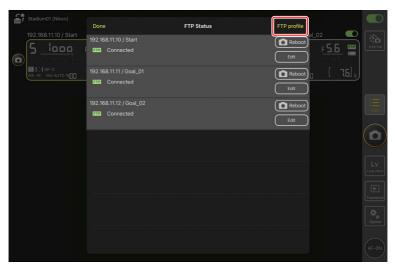
## **Adding FTP Profiles**

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

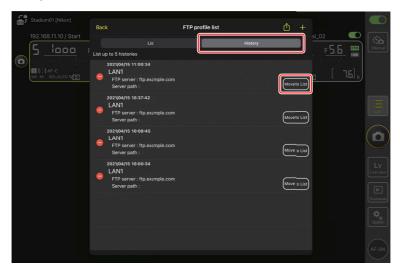
Select profiles in the connection history and add them to the list.

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



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

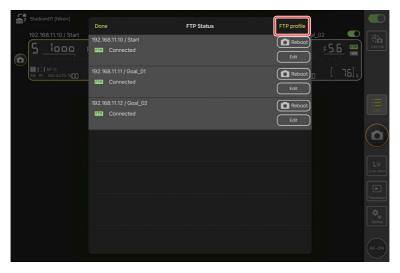
The selected FTP profile will be added to the list and can be used for subsequent connections.



## 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.

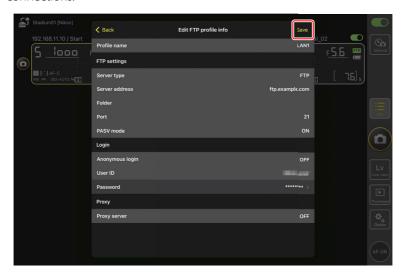


## 2. Tap +.



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

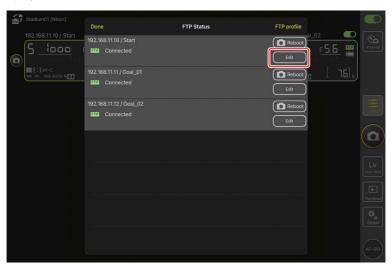
The new FTP profile will be added to the list and can be used for subsequent connections.



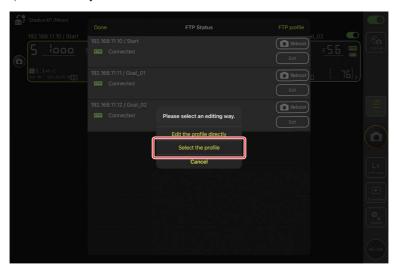
## Selecting Destinations from the FTP Profile List

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

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



2. Tap [Select the profile].



3. Tap (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.

## <u>Copying Remote Camera FTP Profiles to Other iPhones</u> 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 (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 ( an be copied to the NX Field apps on other iPhones or iPads.

Go to (options) > [Camera Connection], tap (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.

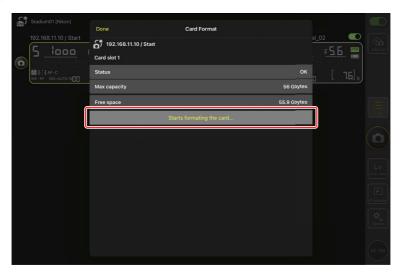


# Formatting Remote Camera Memory Cards with the NX Field App

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.



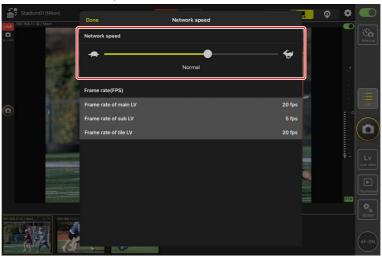
## **Upload Speed and Frame Rate**

Lowering the upload speed and live view 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 [3] (options), selecting [Option] > [Network speed], and using the slider.

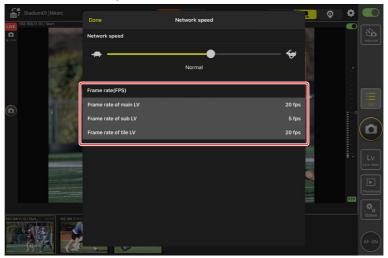
• Tap [Done] to save changes.



#### **Choosing a Frame Rate for Live View**

To choose a frame rate for the live view display, go to [30] (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 ( $\bigcirc$  237).

# 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.

#### Camera Connection

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

#### **Entering MAC Addresses for Remote Cameras**

Entering the remote camera's MAC address enables WOL.

1. Select [Camera Connection] under 🚨 (options).

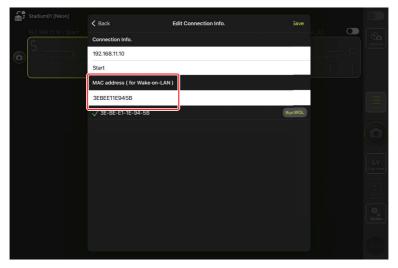


**2.** Tap the connection information for a remote D6 camera to be configured for use with WOL.



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 hyphens.



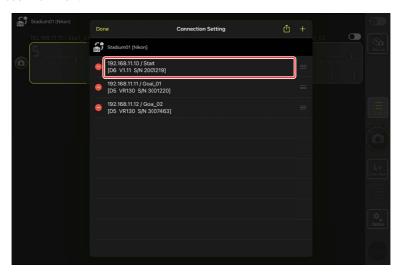
#### <u>Using WOL to Activate the Standby Timers on Remote</u> Cameras

Run WOL to activate the standby timers on remote cameras.

1. Select [Camera Connection] under [22] (options).

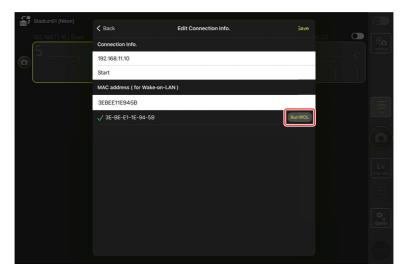


**2.** Tap the connection information for a remote D6 camera to be configured for use with WOL.



3. Tap Run WOL (run WOL button).

A confirmation dialog will be displayed; tap  $[\mathbf{OK}]$  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.

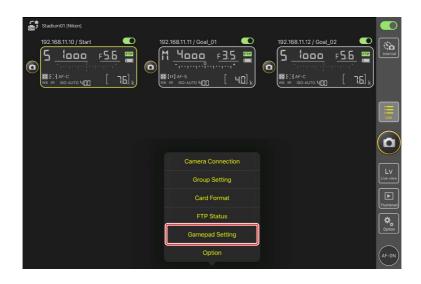
#### Using WOL to Start the Standby Timer

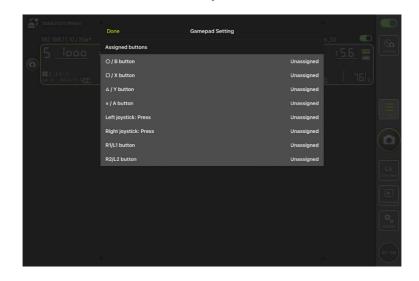
WOL can only be used to start the standby timer if both the remote camera and the iPhone or iPad are on the same network. WOL may not function if the devices are on different networks connected via a router.

# Operate Remote Cameras Connected to an iPad via a Gamepad

To use a gamepad to release shutters on remote cameras connected to an iPad, go to (options) and select [Gamepad Setting].

- The following functions can be assigned to buttons on the gamepad:
  - [**Shooting all cameras**]: Release the shutters on all connected remote cameras.
  - [Shooting selected camera]: Release the shutter on a connected remote camera selected from the list.
  - [**Shooting Button (multi-camera)**]: Release the shutter on all remote cameras in the same shooting group (□ 246).
- For instructions on how to connect the gamepad to the iPad, refer to the documentation provided with the gamepad.





### **Other Options**

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



#### Setting on connect

ltem	Description
Sets date & time by local time	Choose whether to synchronize the clocks on the remote cameras with the iPad. Selecting this item enables [ <b>Set</b>
	time zone].
Set time zone	Synchronizes daylight saving time and UTC time from your iPad settings to the remote camera.
Setting copyright info ( 288)	Choose whether to overwrite the names of the photographer and copyright holder on the connected remote camera with new names.

#### Misc settings

Item	Description
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.
Enable the shooting menu bank (□ 285)	Choose whether to enable shooting menu bank selection.
Camera name display	Set the IP address and name displayed in the remote camera info. You can select the display order and hide or display the IP address or name.

#### Warning notification

Item	Description
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

Item	Description
Network speed	Choose an upload speed.

#### Wake-on-LAN (D6 only)

Item	Description
Run Wake-on-LAN to	Choose whether to run WOL.
cameras (🕮 326)	

#### Save camera settings

Item	Description
Save camera settings	Save current settings to the camera.

#### Reboot camera

ltem	Description
Reboot all cameras	Reboot all connected remote cameras.
(🕮 289)	

#### Shooting Button (multi-camera) setting

ltem	Description
Shooting Button	Select an action taken when tapping (shutter-release button).

#### AF-On button setting

Item	Description
Button behavior	Choose how (AF-ON button) behaves.
	• [ <b>Push type</b> ]: The camera focuses while  (AF-ON
	button) is held.
	• [ <b>Toggle type</b> ]: Focus starts when you tap 🖭 (AF-ON
	button) and continues until you tap the button a
	second time.

#### Video setting

ltem	Description
Confirmation to stop	Choose whether a confirmation dialog will be displayed
recording	when recording is ended.

#### Force disconnect camera

ltem	Description
Force disconnect	Terminate all remote camera connections to other
occupied cameras	iPhones or iPads.

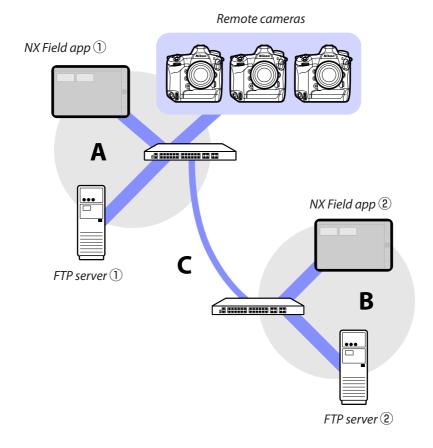
#### Information

Item	Description
Version	View version information.
License information	View license information.
Privacy policy	View the privacy policy.
Support	View the customer support website URL.

## **Technical Notes**

### Recommended Auto Upload Settings for Different Network Bandwidths

As is shown in the figure below, the suggested environments for auto upload vary with bandwidth and the connection between the iOS/iPadOS 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	<b>✓</b> 1, 2	✓
1 Gbps	<b>✓</b>	<b>✓</b>

# 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	<b>✓</b> 1,2
		100 Mbps	<b>✓</b> 1, 2	<b>✓</b> 1, 2
1 Gbps		<b>✓</b>	<b>✓</b>	

- 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).

#### ☑ Caution: Uploading Pictures to an FTP Server

If multiple pictures with the same name are uploaded to a single folder from the master and remote cameras, the pictures may, depending on the performance of the FTP server, be damaged or lost. This can be prevented by using a high-performance FTP server or by adjusting settings as follows:

- Assign each camera a unique three-character file-naming prefix using the [File naming] item in the camera photo shooting menu.
- Create a separate destination folder for each camera ( $\square$  21).

## Index

Α	Connection wizard, <u>17</u>	
AF activation, <u>80</u>	Copyright info, 139, 288	
AF-On button setting, <u>199</u> , <u>210</u> , <u>227</u> , <u>335</u>	Custom controls, <u>75</u>	
AF/WB tab, <u>131</u> , <u>278</u>		
Anonymous login, <u>20</u>	D	
Auto capture, <u>91</u> , <u>107</u> , <u>194</u> , <u>252</u>	Delete after send, <u>38</u>	
Auto send, 38	Direct measurement mode, <u>134</u> , <u>281</u>	
	Display name, <u>25</u> , <u>44</u> , <u>58</u> , <u>83</u> , <u>181</u>	
В	Drawing, <u>236</u>	
Built-in Wi-Fi, <u>16</u>		
Busy, <u>35</u>	<u>E</u>	
	Edit location, <u>234</u>	
<u>C</u>	Enter folder name, <u>21</u>	
Camera Control, <u>87</u> , <u>189</u>	Error, <u>35</u>	
Camera Control Options, <u>88</u> , <u>191</u>	Ethernet, <u>8</u> , <u>15</u> , <u>41</u> , <u>53</u>	
Camera name, <u>178</u> , <u>334</u>	Ethernet adapter, <u>13</u> , <u>40</u> , <u>52</u>	
Camera tab, <u>87</u> , <u>189</u>	Exposure info. (Exposure settings), <u>128</u> ,	
Card Format, <u>168</u> , <u>323</u>	<u>274</u>	
Change image, <u>233</u>	F	
Change Params, <u>126</u> , <u>272</u>	Firewall, <u>22</u>	
Choose hardware, <u>16</u>	Firmware, <u>7</u> , <u>14</u>	
Connected, 35		
Connection history, 160, 315	Focus point, <u>98</u> , <u>207</u> , <u>230</u> , <u>231</u>	
Connection options, 44, 83, 86	Frame rate (FPS), <u>170</u> , <u>237</u> , <u>325</u>	
Connection settings, <u>64</u> , <u>86</u>	FTP profile, <u>160</u> , <u>315</u>	
Connection switch, 44, 58, 83, 181	FTPS, 19, 22, 165, 320	
Connection timeout, <u>178</u> , <u>334</u>	FTP server, <u>8</u> , <u>17</u> , <u>22</u>	

FTP status, <u>156</u> , <u>310</u> FTP upload, <u>17</u> Full-screen release mode, <u>95</u>	Master camera, 7, 23, 73  MF driving amount, 103, 215  Monitor off delay, 37  Multi-camera, 58, 182, 201
G	
Gamepad, <u>176</u> , <u>331</u>	N
Group name, <u>23</u> , <u>46</u> , <u>60</u>	NAT traversal, <u>12</u> , <u>22</u>
Group Release, <u>247</u>	Network connection, <u>157</u> , <u>311</u>
Group settings, <u>24</u>	Network settings, <u>17</u>
	Network speed, <u>178</u> , <u>334</u>
H	NX Field App, <u>11</u>
High-frequency flicker reduction, <u>130</u> , <u>276</u>	
History, <u>160</u> , <u>315</u>	0
Home folder, 21	Option, <u>45</u> , <u>59</u> , <u>84</u> , <u>183</u>
	Р
	Photo/video selectors, <u>36</u> , <u>37</u> , <u>74</u> , <u>79</u> , <u>210</u>
Image review, <u>39</u>	Playback tab, <u>141</u> , <u>290</u>
Image tab, <u>135</u> , <u>283</u>	Port forwarding, 12, 22
Info tab, <u>135</u> , <u>283</u>	Port number, 22, 159, 313
Interval-timer photography, <u>240</u>	Power saving, <u>31</u>
IP address, <u>17</u> , <u>42</u> , <u>56</u>	Power zoom lens, <u>105</u> , <u>222</u>
IPTC, <u>226</u>	Pre-release capture, <u>103</u> , <u>215</u>
	Preset manual, <u>132</u> , <u>279</u>
	Preview, <u>98</u> , <u>206</u>
List, <u>86</u> , <u>188</u>	Prioritize network speed, <u>31</u>
Live view, <u>37</u> , <u>59</u> , <u>100</u> , <u>183</u> , <u>196</u>	Thomaze network speed, <u>51</u>
Live view selector, <u>37</u>	R
LV tab, <u>87</u> , <u>189</u>	Reboot, <u>157</u> , <u>311</u>
84	Reboot camera, <u>140</u> , <u>289</u>
MAC address 171 226	Remote camera, <u>7</u> , <u>23</u>
MAC address, <u>171</u> , <u>326</u> Main/secondary view, <u>197</u> , <u>220</u> , <u>231</u>	Remote camera info, <u>85</u> , <u>184</u>

Remote camera list, <u>32</u>, <u>35</u>, <u>77</u> Video setting, 336 Remote camera name, 157, 310 Video tab, 284 Router, <u>12</u>, <u>22</u> Voice memo, 146, 296 VPN, 22 SFTP, 19, 20 SFTP server, 20 W Wake-on-LAN, 171, 326 Shooting group, 246 Shooting menu bank, <u>136</u>, <u>178</u>, <u>285</u>, <u>334</u> WAN, 9, 11 Warning notification, 178, 334 Shows Skin view, 186, 198 Shutter angle, 227 White balance, 132, 279 Shutter-release button, 23, 44, 45, 58, 59 Wired LAN, 8, 16 "Skin" view, 198, 233 Wired LAN/WT, 7 Slot, <u>142</u>, <u>291</u> Wired LAN/WT functions, 15 Wireless transmitter, 8 Split View, 180 Spot white balance, 132, 279 WOL, 171, 326 Standby timer, 29, 171, 326 WT-6, 8 Subject-tracking AF, 221, 232 Subnet mask, 19, 42, 56 Synchronized release, 73 Sync. release mode options, 75 Sync. release selection, 75 TCP port, 22 Thumbnail, 143, 292 Tile view, 196, 218 Time, 14, 177, 333 Time code, 230, 232 Timer, 30 Time zone, <u>177</u>, <u>333</u>