Nikon

Z f Reference Guide
(Supplement for Firmware Version 2.00)

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Features Available with "C" Firmware Version 2.00

The *Z f Reference Guide* is for "C" firmware version 1.xx. This chapter details the new features and changes introduced with camera "C" firmware version 2.00. The two documents are to be read together.

"Firmware Version"

To view the camera firmware version or update the camera firmware, select [**Firmware version**] in the setup menu.

Updates can be performed using a computer or smart device.
- **Computer**: Check the Nikon Download Center for new firmware. Information on performing updates is available via the firmware download page.
  https://downloadcenter.nikonimglib.com/
- **Smart device**: If the smart device has been paired with the camera using the SnapBridge app, the app will automatically notify you when updates become available, and you can then download the update to the camera memory card via the smart device. For information on performing updates, see SnapBridge online help. SnapBridge may not display the notification at the same time that updates are made available on the Nikon Download Center.

Changes Made with "C" Firmware Version 2.00

The features added or updated with camera "C" firmware version 2.00 are summarized below. More information is available on the pages listed.

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☑ **Custom Settings Menu Numbers**

Some Custom Settings menu numbers have been altered due to the addition and reordering of menus accompanying the version update. This document uses the numbers as they appear after these changes.

New Bracketing Increments

New options are available to the bracketing increments when [**AE & flash bracketing**], [**AE bracketing**], or [**Flash bracketing**] is selected for [**Auto bracketing**] > [**Auto bracketing set**] in the photo shooting menu.

Auto bracketing	⟲
Auto bracketing on/off	OFF
Auto bracketing set	AE⚡ >
Number of shots	3F
Increment	◀ 1.3 ▶

–₁.ı.ı,ı.ₒ.ı.ı,ı.ı.ı+

◀ ▶

🔄Set 🆗OK

- Increments of 1.3, 1.7, 2.3, and 2.7 EV have been added.
- Bracketing programs with increments of 2.0 EV or more offer a maximum of 5 shots.


Tip: Exposure Bracketing and Interval-Timer Photography
These new options have also been added to the bracketing increments available for [**Interval timer shooting**] > [**Options**] > [**AE bracketing**] in the photo shooting menu.

New AF Subject Detection Option: "Birds"

[**Birds**] has been added to the subject detection options for autofocus and electronic rangefinding available in [**AF/MF subject detection options**] in the photo shooting and video recording menus.
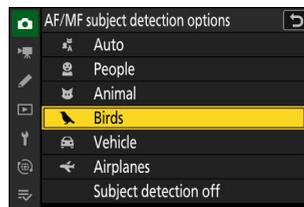
- In the case of the video recording menu, the choice of subject is made via [**AF/MF subject detection options**] > [**Subject detection**]. Separate subject types can be selected for photo and video modes.

- If a bird is detected when [**Birds**] is selected, the focus point will appear over the face of the bird in question. If the camera detects the subject's eyes, the focus point will instead appear over one or the other of their eyes. If the camera can detect neither face nor eyes, it will display a focus point over the detected bird.

✔️ **Cautions: Subject Detection Using "Birds"**

- Subject detection may not perform as expected if:
  - the subject's face is too large or small relative to the frame,
  - the subject's face is too brightly or dimly lit,
  - the subject's face or eyes are obscured by feathers or the like,
  - the subject's face and eyes are of similar colors, or
  - the subject moves excessively during shooting.
- The camera may display a border around subjects that are not birds but which resemble them. If the camera often mistakenly detects the subjects other than birds, changing to an AF-area mode with smaller focus points may improve focus performance.
- Flickering is more likely to occur if photos are taken under fluorescent, mercury-vapor, or similar lighting, compared to other environments.
  - Selecting [**ON**] for [**Photo flicker reduction**] in the photo shooting menu reduces flickering effects.
  - We recommend selecting [**OFF**] for [**Photo flicker reduction**] in the photo shooting menu if there is no flickering.
- The light from the AF-assist illuminator may adversely affect the eyes of birds; select [**OFF**] for Custom Setting a11 [**Built-in AF-assist illuminator**].

New Picture Control Options: Cloud and "Flexible Color" Picture Controls

The camera now supports Cloud and "Flexible Color" Picture Controls.

Cloud Picture Control

Download Cloud Picture Controls from the Nikon Imaging Cloud cloud service and import them to the camera as Picture Controls.
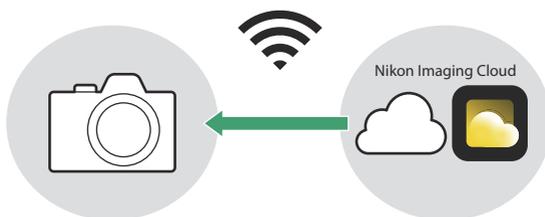
- For information on the Nikon Imaging Cloud cloud service, see "Now Compatible with Nikon Imaging Cloud" (□ 43).

If Picture Controls are transferred to the camera from Nikon Imaging Cloud, they can be downloaded and read to the camera by [**Set Picture Control**] > [**Add Cloud Picture Control files**] in the camera photo shooting or video recording menu. These Picture Controls can be adjusted once selected and added to the camera via [**Manage Picture Control**] in the photo shooting or video recording menu.

- If there are Picture Controls in Nikon Imaging Cloud that have not been imported to the camera, notification marks will appear on the photo shooting and video recording menu tabs and [**Set Picture Control**] item in the camera menu.
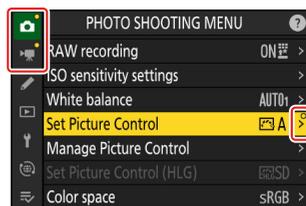
- The camera and Nikon Imaging Cloud must be connected via Wi-Fi to download and import Picture Controls. In the camera network menu, set [**Nikon Imaging Cloud**] > [**Connect to Nikon Imaging Cloud**] to [**ON**], and then turn on the Nikon Imaging Cloud camera sign-in setting.
- See the Nikon Imaging Cloud online help for how to transfer Picture Controls to the camera and how to turn on the camera sign-in setting in Nikon Imaging Cloud.

"Flexible Color"

Adjust "Flexible Color" Picture Controls with the NX Studio computer software. This Picture Control option allows for a wider variety of Picture Control adjustments with Color Blender and Color Grading. You can export adjusted Picture Controls to memory cards and import them to the camera as Custom Picture Controls.

- See the NX Studio online help for details on using NX Studio to adjust [**Flexible Color**] Picture Controls and how to export them to memory cards.
- Import these exported Custom Picture Controls to the camera via [**Manage Picture Control]** in the photo shooting or video recording menu.
- Custom Picture Controls based on [**Flexible Color**] cannot be adjusted or renamed on the camera.

New Large Size Option for JPEG + JPEG Recording

[**Large**] has been added to the size options available for copies recorded to the memory card in the secondary slot when [**JPEG primary - JPEG secondary**] is selected for [**Secondary slot function**] in the photo shooting menu. The size can be selected by pressing ⏺ when [**JPEG primary - JPEG secondary**] is highlighted.
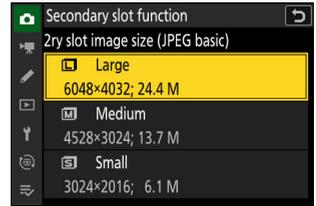
Low ISO Sensitivity Settings for N-Log Video

Low ISO sensitivity options ranging from Lo 0.3 to Lo 2.0 have been added to the choices available for [**ISO sensitivity settings**] > [**ISO sensitivity (mode M)**] in the video recording menu when [**N-Log**] is selected as the video tone mode. Sensitivity can be set to values below ISO 800 by approximately 0.3 to 2.0 EV (equivalent respectively to ISO 640 and 200).

✔ Cautions: Low ISO Sensitivities

The maximum output level for videos recorded at low ISO sensitivities drops due to loss of highlight data. We recommend that you select a low value for Custom Setting g12 [**Zebra pattern**] > [**Highlight threshold**] when using the zebra pattern feature. A highlight threshold around [**230**] is recommended for Lo 0.3 to 1.0 and [**200**] for Lo 2.0.

New Video Recording Feature: Hi-Res Zoom

The camera now offers Hi-Res Zoom during video recording. Selecting [**ON**] for the newly-added [**Hi-Res Zoom**] item in the video recording menu lets you zoom in on your subject with no loss in resolution, even without a zoom lens.

- Hi-Res Zoom is available when all the following conditions are met:
    - [**FX**] is selected for [**Image area**] > [**Choose image area**] in the video recording menu.
    - A frame size and rate of [**1920×1080; 30p**], [**1920×1080; 25p**], or [**1920×1080; 24p**] is selected for [**Frame size/frame rate**] in the video recording menu.

Using Hi-Res Zoom

Select [**ON**] for [**Hi-Res Zoom**] in the video recording menu and press ❰ or ❱ to zoom in or out using Hi-Res Zoom.

- A 🎞 icon appears in the display when Hi-Res Zoom is enabled.
- The zoom position is shown by a bar as you zoom in or out. You can zoom in to a maximum of 2.0×.
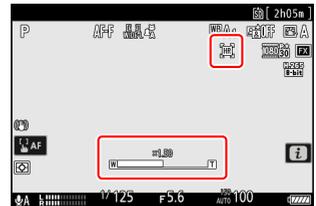
Hi-Res Zoom Speed

The zoom speed of the Hi-Res Zoom can be adjusted using the [**Hi-Res Zoom speed**] item added to the Custom Settings menu at position g7.
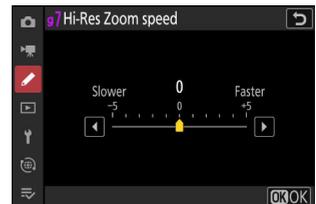
✅ **Cautions: Hi-Res Zoom**
- AF-area mode is fixed at [**Wide-area AF (L)**]. The focus point is not displayed.
- [**Electronic VR**] in the video recording menu is fixed at [**OFF**].

Tip: Hi-Res Zoom Controls with Lens Fn and Control Rings

You can use the lens Fn ring for Hi-Res Zoom control by assigning [**Hi-Res Zoom +**] to [**Lens Fn ring (clockwise)**] and [**Hi-Res Zoom −**] to [**Lens Fn ring (counterclockwise)**] respectively via Custom Setting g2 [**Custom controls**], and the lens control ring by assigning [**Hi-Res Zoom]** to [**Lens control ring**].

- When Hi-Res Zoom is assigned to the [**Lens Fn ring (clockwise)**] or [**Lens Fn ring (counterclockwise)**], you can select the zoom speed using Custom Setting g7 [**Hi-Res Zoom speed**].
- When Hi-Res Zoom is assigned to [**Lens control ring**], the control ring response can be adjusted using Custom Setting f13 [**Control ring response**].
- Instead of using the control ring, users of compatible lenses can employ the focus ring for Hi-Res Zoom by selecting [**ON**] for Custom Setting f14 [**Switch focus/control ring roles**].

Tip: Adding to the *i* Menu

[**Hi-Res Zoom**] can now be assigned to the *i* menu using Custom Setting g1 [**Customize 🄸 menu**]. You can turn Hi-Res Zoom [**ON**] or [**OFF**] and adjust the Hi-Res Zoom speed.

New Options for Custom Setting g15 "Brightness Information Display"

The size, transparency, and position items of the histogram or wave-form monitor displayed in the video mode shooting display can now be changed. Select [**Histogram**] or [**Wave-form monitor**] for brightness information and press ⊛ to select the display options.
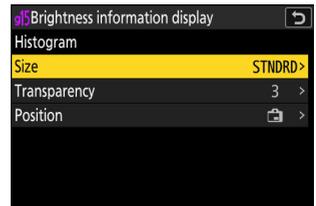
Option	Description
[**Size**]	Select the display size of the histogram or wave-form monitor from [**Large**] or [**Standard**].
[**Transparency**]	Select the transparency of the histogram or wave-form monitor from [**1 (low transparency)**], [**2**], or [**3 (high transparency)**].
[**Position**]	Select the position of the histogram or wave-form monitor from [**Top right**], [**Bottom right**], [**Top left**], or [**Bottom left**].

File Name Set on the Camera Now Can Be Included When Naming Video Saved on External Recorders

When recording video to both the camera's memory card and an Atomos external recorder that has been connected to the camera, the name of the file saved on the external recorder will now include the name of the video file saved on the camera's memory card. Having a common string in both file names makes it easier to link the files when editing the video.

- When starting video recording with a memory card inserted in the camera and [**External rec. cntrl (HDMI)**] set to [**ON**] in the video recording menu, the file name of the video to be saved on the memory card is transmitted to the external recorder.
- The file extension will not be transmitted to the external recorder.
- The following Atomos external recorders support the transmission of file names (as of March 2024).
    - Ninja (2023 models)
    - Ninja Ultra
    - Ninja V
    - Ninja V+
    - Shogun (2023 models)
    - Shogun Ultra
    - Shogun Connect

* Some of these products may no longer be available. Contact Atomos to learn more about products that support file-name transmission.
* Some recorders may require an Atomos operating system upgrade or paid activation of the recorder. Contact Atomos for details.
* Refer to the documentation provided with the external recorder for instructions to set up the external recorder and details on file names saved on it.

"Customize Retouch Options" Added to "Retouch" Playback *i* Menu

[**Customize retouch options**] has been added to [**Retouch**] in the playback *i* menu. This allows you to configure the retouch options displayed in the [**Retouch**] menu.

- Highlight options and press ⊛ to select (☑) or deselect (☐). Only items marked with a check (☑) will appear in the [**Retouch**] menu.
- Press ⊛ to save the changes.

Customize retouch options	⟲
☑	RAW processing (current picture)
☑	RAW processing (multiple pictures)
☑	Trim
☑	Resize (current picture)
☑	Resize (multiple pictures)
☑	D-Lighting

⊕Select OKOK
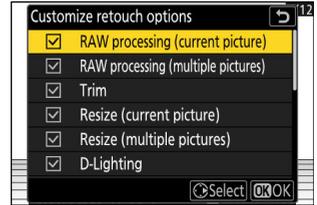
New Item for "Series Playback" in the Playback Menu: "Auto Series Playback Options"

[**Auto series playback options**] has been added to the options available for [**Series playback**] in the playback menu. Choose options for viewing bursts when [**Auto series playback**] is set to [**ON**].

Option	Description
[**Loop playback**]	If [**ON**] is selected, the current series will playback repeatedly.
[**Wait before playback**]	Choose the time until auto series playback begins once the first picture in the series is displayed: [**Normal**], [**Long**], [**Short**], or [**Start immediately**].
[**Auto series playback speed**]	Select the playback speed for auto series playback. • [**5 fps**], [**15 fps**], [**30 fps**]: Playback proceeds at the selected speed. • [**At current release mode speed**]: Playback speed varies depending on the current release mode. - Single frame, self-timer: Approx. 3 fps - Continuous low-speed: Approx. 5 fps - Continuous high-speed, continuous high-speed (extended): Approx. 10 fps - [**C30**]: Approx. 30 fps

New Playback Menu Item: "Record Camera Orientation"

[**Record camera orientation**] has been added to the playback menu.

- When set to [**ON**], the orientation information of the camera at the time of shooting is stored in pictures. When viewed on a camera or computer, the pictures are automatically rotated according to the stored orientation information.

- When set to [**OFF**], the orientation information of the camera at the time of shooting is not stored in pictures. As such, pictures will not be automatically rotated during playback and always displayed in landscape (wide) orientation.

✓ Caution: Record Camera Orientation

If the camera is facing upward or downward or is panned while shooting, the correct orientation information may not be stored.

✓ "Auto-Rotate Pictures" in the Playback Menu

- When [**Auto-rotate pictures**] is set to [**OFF**], images are always displayed in landscape (wide) orientation when played back on the camera, regardless of whether [**Record camera orientation**] is set to [**ON**] or [**OFF**].
- If [**Auto-rotate pictures**] is set to [**ON**] while [**Record camera orientation**] is set to [**OFF**], pictures will not be automatically rotated during playback and always displayed in landscape (wide) orientation.

Separate Auto ISO Sensitivity Controls Are Now Available When the ISO Sensitivity Dial Is Set to C and to a Value of 100 to 64000

You can now set separate auto ISO sensitivity control settings when the ISO sensitivity dial is set to **C** and to a value of 100 to 64000 using [**ISO sensitivity settings**] > [**Auto ISO sensitivity control**] in the photo shooting menu.

- [**Auto ISO sensitivity control**] is available in modes **P**, **S**, **A**, and **M**.
- For example, if [**ON**] is selected for [**Auto ISO sensitivity control**] when the ISO sensitivity dial is set to **C** and [**OFF**] is selected when the dial is set to one of the values from ISO 100 to 64000, rotating the dial to **C** instantly enables auto ISO sensitivity control.

21   Separate Auto ISO Sensitivity Controls Are Now
Available When the ISO Sensitivity Dial Is Set to **C**
and to a Value of 100 to 64000
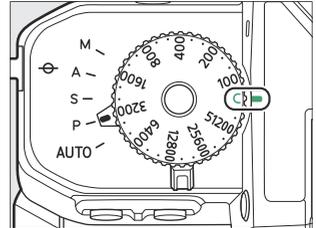
"Focus Point Border Width" Added to Custom Setting a10 "Focus Point Display"

[**Focus point border width**] has been added to Custom Setting a10 [**Focus point display**]. This option allows you to configure the thickness of the focus point border from [**1**] to [**3**].

New Custom Setting: b3 "Easy ISO"

An [**Easy ISO**] item has been added to the Custom Settings menu at position b3. Selecting [**ON**] allows you to adjust the ISO sensitivity using only a command dial when the ISO sensitivity dial is set to **C**.

- This option will not take effect in mode **M**.
- The command dial used varies with the shooting mode.
- This item cannot be combined with Custom Setting b2 [**Easy exposure compensation**]. Enabling one automatically disables the other.

New Custom Setting: d5 "Exposure Delay Mode"

An [**Exposure delay mode**] item has been added to the Custom Settings menu at position d5. It can be used to delay the release of the shutter until about 0.2 to 3 seconds after the shutter-release button has been pressed, helping to reduce blur caused by camera shake.

Tip: Adding to the *i* Menu
[**Exposure delay mode**] can now be assigned to the *i* menu using Custom Setting f1 [**Customize 🅸 menu**].

New Custom Settings: d18/g16 "Half-Press to Cancel Zoom (MF)"

A [**Half-press to cancel zoom (MF)**] item has been added to the Custom Settings menu at positions d18 and g16. If [**ON**] is selected while focus mode is set to manual focus and the view through the lens is zoomed in, zoom can be cancelled by pressing the shutter-release button halfway.

New Options for Custom Settings f2 "Custom Controls (Shooting)" and g2 "Custom Controls"

Additional roles are now available for Custom Settings f2 [**Custom controls (shooting)**] and g2 [**Custom controls**]. Custom controls can now also be reset.

New Reset Option

You can now reset selected controls to their default roles in the control-selection displays for Custom Settings f2 [**Custom controls (shooting)**] and g2 [**Custom controls**].

- Highlight the desired control and press 🗑 to display a confirmation dialog where you can reset the control to its default role by highlighting [**Yes**] and pressing ⊛.
- Pressing and holding the 🗑 button for about three seconds when a control is highlighted displays a confirmation dialog where you can reset all controls to their default roles by highlighting [**Yes**] and pressing ⊛.
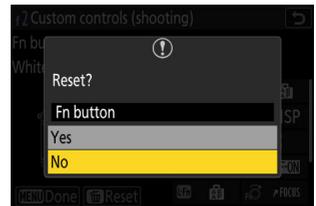
New Roles Available via Custom Setting f2 "Custom Controls (Shooting)"

Option		Description
⅀/ʳPZ	[**Save and load power zoom position**]	Press and hold the control to save the current zoom position. Briefly pressing and releasing the control recalls the saved zoom position.
[⊡]	[**Cycle AF-area mode**]	Press the control to cycle the AF-area mode. • To choose the AF-area modes to be cycled, highlight [**Cycle AF-area mode**] and press ⏵. • Highlight options and press ⊗ or ⏵ to select (☑) or deselect (☐). Only items marked with a check (☑) will be cycled when the control is pressed.
Tv	[**Shutter speed (mode M)**]	Hold the control and rotate a command dial to adjust shutter speed in mode **M**.
Av	[**Aperture (mode M)**]	Hold the control and rotate a command dial to adjust aperture in mode **M**.
DLY	[**Exposure delay mode**]	Hold the control and rotate a command dial to choose the exposure delay.

Exposure Compensation and ISO Sensitivity Are Now Assignable to Command Dials in Mode M

Exposure compensation (✳) and ISO sensitivity (**ISO**) can now be assigned to the command dials in mode **M** using Custom Setting f2 [**Custom controls (shooting)**] > [**Command dials**] > [**Exposure setting**].

- To set main and sub-command dial roles, select mode **M** in the [**Exposure setting**] dialog and press **DISP**.
- Press ⊕ or ⊕ to highlight a command dial and ⊕ or ⊕ to select roles.
- If you assigned roles other than aperture and shutter speed to the command dials, make sure to assign [**Aperture (mode M)**] and [**Shutter speed (mode M)**] to other controls.

New Roles Available via Custom Setting g2 "Custom Controls"

	Option	Description
⅃/ᴘPZ	[**Save and load power zoom position**]	Press and hold the control to save the current zoom position. Briefly pressing and releasing the control recalls the saved zoom position.
[⊞⁂	[**Cycle AF-area mode**]	Press the control to cycle the AF-area mode. • To choose the AF-area modes to be cycled, highlight [**Cycle AF-area mode**] and press ⊛. • Highlight options and press ⊛ or ⊛ to select (☑) or deselect (☐). Only items marked with a check (☑) will be cycled when the control is pressed.
🔲T	[**Hi-Res Zoom +**]	Rotate the lens Fn ring clockwise to zoom in using Hi-Res Zoom. This option is enabled automatically when [**Hi-Res Zoom −**] is selected for [**Lens Fn ring (counterclockwise)**].
🔲W	[**Hi-Res Zoom −**]	Rotate the lens Fn ring counterclockwise to zoom out using Hi-Res Zoom. This option is enabled automatically when [**Hi-Res Zoom +**] is selected for [**Lens Fn ring (clockwise)**].
🔲	[**Hi-Res Zoom**]	Rotate the lens control ring to zoom in or out using Hi-Res Zoom.

▌Command Dial Roles Now Switchable in Mode S

The main and sub-command dial roles in mode **S** can now be switched using Custom Setting g2 [**Custom controls**] > [**Command dials**] > [**Exposure setting**]. To switch the roles of the main and sub-command dials, select mode **S** in the [**Exposure setting**] dialog and press ⊕ or ⊕.

New Options for Custom Settings f2 "**Custom Controls (Shooting)**" and g2 "**Custom Controls**"

"Save and Load Power Zoom Position"

- Pressing and holding the control assigned [**Save and load power zoom position**] while a power zoom lens is attached will display a ⚡PZ icon in the shooting display and save the current zoom position.
- Only one zoom position can be saved at a time. To choose a different zoom position, select that position and press the control again.
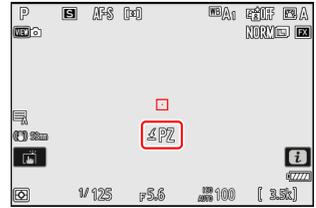
- Recall the saved zoom position by pressing the control assigned [**Save and load power zoom position**].
  - Pressing the control assigned [**Save and load power zoom position**] again while moving to the saved zoom position will stop zooming at the current position.
- Turning off the camera does not reset the saved zoom position. Attaching another lens will reset the saved zoom position.
- Pressing the assigned control has no effect when a lens other than a power zoom lens is attached.
- Set the speed at which power zoom lenses can be zoomed in and out in video mode with Custom Setting g8 [**Assign power zoom**] > [**Power zoom speed (zoom buttons)**].

✅ Compatible Lenses

This feature is available with a NIKKOR Z 28-135mm f/4 PZ lens.

New Roles for Custom Setting f3 "Custom Controls (Playback)"

Additional roles are now available for Custom Setting f3 [**Custom controls (playback)**]. Custom controls can now also be reset.

New Reset Option

You can now reset selected controls to their default roles in the Custom Setting f3 [**Custom controls (playback)**] control-selection display.

- Highlight the desired control and press 🗑 to display a confirmation dialog where you can reset the control to its default role by highlighting [**Yes**] and pressing ⊛.
- Pressing and holding the 🗑 button for about three seconds when a control is highlighted displays a confirmation dialog where you can reset all controls to their default roles by highlighting [**Yes**] and pressing ⊛.

New Roles

Additional roles can now be assigned to buttons or the command dials.

▌ Roles Available for Buttons

Option		Description
🗑	[**Delete**]	Press the control once to display a confirmation dialog. Press the control again to delete the current picture and return to playback.
🖼₊	[**RAW processing (current picture)**]	Press the control to display retouch options for the assigned role.
🖼₊	[**RAW processing (multiple pictures)**]	
✂	[**Trim**]	
🖾	[**Resize (current picture)**]	
🖾	[**Resize (multiple pictures)**]	
🔳	[**D-Lighting**]	
⌐	[**Straighten**]	
⊖	[**Distortion control**]	
◮	[**Perspective control**]	
▢	[**Monochrome**]	
🖾ADD	[**Overlay (add)**]	
🖾LIGHT	[**Lighten**]	
🖾DARK	[**Darken**]	
🖾MOT	[**Motion blend**]	

Roles Available for "Main Command Dial"/"Sub-Command Dial"

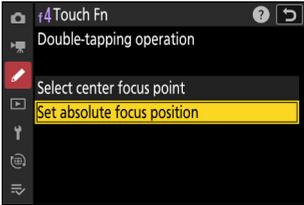| Option	Description
[**Frame advance zoom position**]	Choose how the camera centers the display when either the main or sub-command dial is rotated to scroll through pictures during playback zoom. • [**Keep current zoom position**]: Center the display on the current zoom location. • [**Prefer focus point**]: Center the display on the focus point active when the photograph was taken. • [**Prefer focus point (face priority)**]: Center the display on the focus point active when the photograph was taken. However, if a person's face is detected in the photograph, playback zoom will be performed with the face at the center.
[**Playback zoom face selection**]	If [**ON**] is selected, when multiple faces are detected in the picture during playback zoom, the sub-command dial can be rotated to switch between the detected faces. • This role can only be assigned to the [**Sub-command dial**].

New Roles Available Via "Main Command Dial"/"Sub-command Dial" > "Frame Advance"

Option	Description
[**Uploaded to FTP**]	Skip to the next or previous picture that has been uploaded to an FTP server.
[**Uploaded to computer**]	Skip to the next or previous picture that has been uploaded to a computer.

Changes to the "Move Focus Point" Function in Custom Setting f4 "Touch Fn"

You can now select the operation performed by double-tapping the touch Fn area in the monitor when [**Move focus point**] is assigned to touch Fn via Custom Setting f4 [**Touch Fn**] > [**Assign touch Fn**]. Highlight [**Move focus point**] and press ⏺ on the multi selector to select the options.

Option	Description
[**Select center focus point**]	The focus point is positioned to the center of the viewfinder.
[**Set absolute focus position**]	The touch Fn area represents the entire viewfinder, and the focus point is repositioned to the corresponding position in the viewfinder by double-tapping the desired location.

New Custom Setting: f11 "Zoom Ring Control (PZ Lens)"

A [**Zoom ring control (PZ lens)**] item has been added to the Custom Settings menu at position f11. Select the direction of rotation of the zoom ring and choose how far the zoom ring must be rotated to go all the way from maximum angle (WIDE) to maximum zoom (TELE) when a power zoom lens is attached.

Option	Description
[**Reverse zoom ring rotation**]	Select [**ON**] to reverse the direction of rotation for zoom operations.
[**Zoom ring rotation range**]	Choose how far the zoom ring must be rotated to go all the way from maximum angle (WIDE) to maximum zoom (TELE). • [**Default lens rotation range (°)**]: The angle of rotation is not selected with the camera. The zoom ring rotation range required to zoom from maximum angle (WIDE) to maximum zoom (TELE) will vary with the attached lens. • [**45°**] - [**360°**]: Select the angle of rotation. To zoom the lens from maximum angle (WIDE) to maximum zoom (TELE) when, for example, [**90°**] is selected, the ring needs only be rotated 90°. Larger values permit finer adjustments.

☑ Compatible Lenses
This feature is available with a NIKKOR Z 28-135mm f/4 PZ lens.

Name and Feature Changes for Custom Settings f12/g8 "Power Zoom (PZ) Button Options"

The name of f12 and g8 [**Power zoom (PZ) button options**] has been changed to [**Assign power zoom**]. In addition, the power zoom speed can now be set separately for the button controls and for using the zoom lever on the lens.

- [**Power zoom speed**] has been divided into two items: [**Power zoom speed (zoom buttons)**] and [**Power zoom speed (zoom switch)**].
    - [**Power zoom speed (zoom buttons)**]: Set the zoom speed when using the ⊕ and ⊖ (**?**) buttons.
    - [**Power zoom speed (zoom switch)**]: Set the zoom speed when using the zoom lever on the lens. This option is available only when a power zoom lens with a zoom lever is attached.
    - In video mode, you can choose one zoom speed for use during recording and another for pre- and post-recording.


☑ "Power Zoom Speed (Zoom Switch)"
This feature is available with a NIKKOR Z 28-135mm f/4 PZ lens.

Tip: Adding to the *i* Menu
[**Power zoom speed (zoom buttons)**] can now be assigned to the *i* menu using Custom Settings f1 and g1 [**Customize 🄸 menu**].

- In video mode, you can select one zoom speed for recording and another for pre- and post-recording.
    - The zoom speed can be changed without interrupting the video recording.
    - If the zoom speed changes during a zoom operation (such as when recalling the power zoom position), the new zoom speed will be applied starting from the next zoom operation.
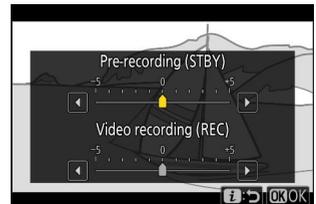
Updates to "Non-CPU Lens Data"

The camera offers additional features to [**Non-CPU lens data**] in the setup menu.

- You can now enter values in the [**Focal length (mm)**] and [**Maximum aperture**] options.

- Names can now be assigned to lenses with a [**Lens number**] of from [**1**] to [**20**]. To enter a name of up to 36 characters, highlight [**Lens name**] and press ⊳.
  - The lens names assigned above are recorded in the Exif data stored in pictures.

- Selecting [**ON**] for [**Choose aperture to record**] now allows the camera to include the aperture values in the Exif data of pictures taken with non-CPU lenses.
  - You can use the lens aperture ring to adjust the actual aperture value used for shooting.
  - Select the aperture value to record in the pictures by rotating a command dial in the shooting display. As the values set using the lens aperture ring and the command dial are not linked, be sure to apply the changes made by the lens to the values to record in the pictures.
  - The recording values set on the camera are indicated by asterisks ("✱").
  - You can set the aperture value to record in the pictures within a range of up to 8 stops from the maximum aperture value set for [**Non-CPU lens data**] > [**Maximum aperture**].
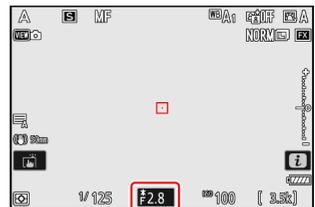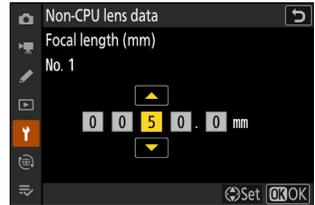
Tip: Adding to the 𝑖 Menu
[**Choose non-CPU lens number**] can now be assigned to the 𝑖 menu via Custom Settings f1 and g1 [**Customize 🖿 Menu**]. This allows you to select a saved lens number using the [**Non-CPU lens data**] item in the setup menu to recall the lens data currently in use.

Updates to "**Non-CPU Lens Data**"

# Increased Character Limit for IPTC "Category" Entries

The character limit for "Category" entries in IPTC presets created or edited using the camera has been increased from 3 to 256.

Shooting Display Maximum Zoom Now 400%

While in earlier versions of the camera firmware, the maximum shooting display zoom was 200%, from "C" firmware version 2.00 the maximum magnification is 400%. Use the ⊕ and ⊖ (**?**) buttons to zoom in and out.

Updated Distance Display for Manual Focus

The focus distance indicator for manual focus now shows the distance between the camera and the focus position in units of your choosing.
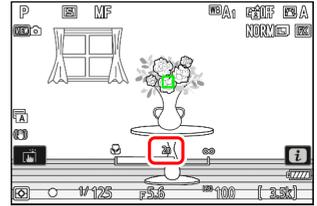
- The choice is made using a [**Distance units**] item newly added to the setup menu, which has options for [**Meters (m)**] and [**Feet (ft)**].
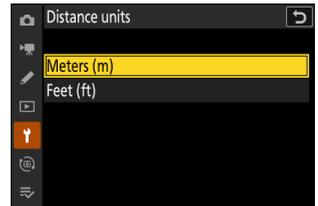
- The distance shown is intended as a guide only. It may vary from the actual distance, depending on the lens used.

Support for "Viewfinder Display Size" Selection in Video Mode

The selected option in [**Finder display size (photo Lv)**] in the setup menu now applies to both photo and video modes. This item has consequently been renamed [**Viewfinder display size**]. Select the viewfinder display magnification during shooting and playback from [**Standard**] and [**Small**].

Now Compatible with Nikon Imaging Cloud

Nikon Imaging Cloud is Nikon's cloud service that can be used in a web browser of the computer or smart device. Nikon Imaging Cloud provides following services.

- Image transfer: Upload images shot with the camera to Nikon Imaging Cloud and send them to external online storage.
- Imaging recipe: Save image shooting data as a recipe. Create your own recipes or select from "public recipes."
- Providing Picture Controls: Download Picture Controls from Nikon Imaging Cloud and import them to the camera.
- Firmware update: Download firmware directly to the camera from Nikon Imaging Cloud.

To access Nikon Imaging Cloud from a computer or smart device, either scan the QR code or enter the following URL into a web browser. We recommend bookmarking the site.

https://imagingcloud.nikon.com

- You can also check the access QR code and URL by [**Nikon Imaging Cloud**] > [**About Nikon Imaging Cloud**] in the camera's network menu.
- Read all license agreements, etc. displayed when you use the service for the first time and only proceed if you are willing to accept them.
- For the latest information on Nikon Imaging Cloud, visit the Nikon website.
- To connect the camera to Nikon Imaging Cloud, see "Creating Network Profiles and Connecting the Camera to Nikon Imaging Cloud" in the "New Network Menu Item: '**Nikon Imaging Cloud'**" section (📖 50).


✅ Cautions: Lending and Disposing of Cameras Connected to Nikon Imaging Cloud

- Before lending the camera to another person, you should turn off automatic connection to the camera in the Nikon Imaging Cloud home screen or initialize the camera using the [**Reset all settings**] item in the camera setup menu.
- If you are discarding the camera or transferring ownership to another person, you should delete the camera's information in the Nikon Imaging Cloud home screen and initialize the camera using the [**Reset all settings**] item in the camera setup menu.

Uploading Pictures

Nikon Imaging Cloud is now a destination option when uploading pictures.

- The [**Select for upload to The Cloud**] and [**Select all for upload to The Cloud**] items were added to the playback *i* menu. Pressing the *i* button during playback when the camera is connected to Nikon Imaging Cloud displays these items.
- Highlight a picture, press the *i* button, and select [**Select for upload to The Cloud**] to mark the picture for upload. A ☁ icon will appear on the picture selected for upload.
- Selecting [**Select all for upload to The Cloud**] during filtered playback marks all pictures meeting the current filter criteria for upload to Nikon Imaging Cloud.
- Videos cannot be selected for upload.
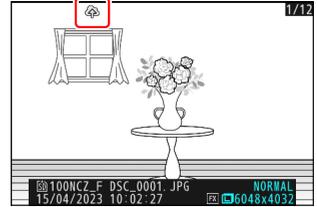
Updating Firmware

Firmware version update notifications from Nikon Imaging Cloud will display [**Update (from Nikon Imaging Cloud)**] in [**Firmware version**] in the setup menu. Highlight [**Update (from Nikon Imaging Cloud)**] > [**On**] and press ⊛ to download the firmware to the camera. The update will start automatically after the download is complete.

- If new camera firmware is available for download from Nikon Imaging Cloud, notification marks will appear on the setup menu tab and the [**Firmware version**] item in the camera menu.
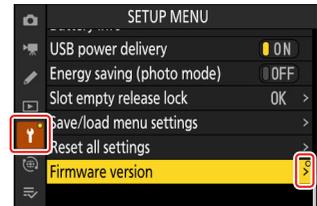
Auto Update

If you select [**On**] for [**Firmware version**] > [**Auto update**] in the setup menu and specify a time, the camera will automatically connect to Nikon Imaging Cloud at the set time each day to download and update firmware when it becomes available. Auto update is enabled only when all the following conditions are met:

- The camera sign-in setting is enabled in Nikon Imaging Cloud.
- The camera power switch is in the "OFF" position.
- The camera is powered using one of the following:
  - An optional EH-8P AC adapter connected using the supplied USB cable (featuring Type-C connectors at both ends)
  - A third-party portable charger (power bank)

New Network Menu Item: "Nikon Imaging Cloud"

Use to connect the camera and Nikon Imaging Cloud, Nikon's cloud service, via a wireless router.

- Highlight [**Nikon Imaging Cloud**] in the network menu and press ⏵ to display [**About Nikon Imaging Cloud**] automatically when no network profiles to connect with the wireless router are available in the camera.

"Nikon Imaging Cloud" Menu Options

You can create profiles and add them to the camera or edit existing profiles.

▍ Connect to Nikon Imaging Cloud

Choose whether to enable a wireless connection with Nikon Imaging Cloud.
- When no network profiles to connect with the wireless router are available in the camera, you can create profiles and add them to the camera (□ 50).
- If a network profile already exists, highlight [**Use existing profile**] and press ⏵ to select a profile to use. This item can also be used to choose from existing network profiles.

Wi-Fi Settings

- When no network profiles to connect with the wireless router are available in the camera, you can create profiles and add them to the camera (📖 50).
- If a network profile already exists, choose the profile and press the ⊛ button to connect.
- To edit an existing profile, highlight it and press ⊛.

Option	Description
[**Connect automatically**]	Choose whether to connect automatically when the camera detects a configured Wi-Fi network.
[**TCP/IP**]	Adjust the TCP/IP settings. An IP address is required. • If [**ON**] is selected for [**Obtain automatically**], the IP address and sub-net mask will be acquired via a DHCP server or automatic IP addressing. • Select [**OFF**] to enter the IP address ([**Address**]) and sub-net mask ([**Mask**]) manually.

Connection Options

Adjust connection and upload settings.

- [**Only when powered via USB**]: Select [**ON**] to limit automatic Wi-Fi connections to Nikon Imaging Cloud to when powered via USB.
- [**Connect to Cloud while off**]: Select [**ON**] to maintain Wi-Fi connections even when the camera is turned off.
- [**Inactive connection timeout**]: Select [**ON**] to end Wi-Fi connections when Wi-Fi communications are unavailable for a certain period of time.

Photo Upload

Select [**ON**] to automatically send photos from the camera to Nikon Imaging Cloud when shooting images that are configured by [**Photo upload options**].

Photo Upload Options

Configure image sending settings from the camera to Nikon Imaging Cloud.

- [**Auto select for upload**]: Select [**ON**] to mark new photos for upload as they are taken.
  - Videos cannot be uploaded to Nikon Imaging Cloud.
  - Upload begins only after the photo has been recorded to the memory card. Be sure a memory card is inserted in the camera.
- [**Upload RAW + JPEG as**]: When uploading RAW + JPEG pictures, choose whether to upload both the NEF (RAW) and JPEG files or only the NEF (RAW) or JPEG copy. Separate options can be selected for [**Overflow/backup**] and [**RAW primary - JPEG secondary**].
  - The option selected for [**Overflow/backup**] takes effect during both auto and manual upload.
  - The option selected for [**RAW primary - JPEG secondary**] applies only during auto upload.
- [**Upload RAW + HEIF as**]: When uploading RAW + HEIF pictures, choose whether to upload both the NEF (RAW) and HEIF files or only the NEF (RAW) or HEIF copy. Separate options can be selected for [**Overflow/backup**] and [**RAW primary - HEIF secondary**].
  - The option selected for [**Overflow/backup**] takes effect during both auto and manual upload.
  - The option selected for [**RAW primary - HEIF secondary**] applies only during auto upload.
- [**JPEG+JPEG slot selection**]: Choose a source slot for auto upload when taking pictures with [**JPEG primary - JPEG secondary**] selected for [**Secondary slot function**] in the photo shooting menu.
- [**HEIF+HEIF slot selection**]: Choose a source slot for auto upload when taking pictures with [**HEIF primary - HEIF secondary**] selected for [**Secondary slot function**] in the photo shooting menu.
- [**Upload folder**]: Mark all photos in a selected folder for upload. Marking will be applied to all photos, regardless of whether they have been uploaded previously.
  - Videos cannot be uploaded to Nikon Imaging Cloud.
- [**Deselect all?**]: Remove upload marking from all pictures. Upload of pictures with an "uploading" icon will immediately be terminated.

View Errors

Error details and codes will be displayed if an error occurs during a connection or attempted connection to Nikon Imaging Cloud. Use the QR code displayed or the following URL to view the website when troubleshooting.

https://onlinemanual.nikonimglib.com/troubleshooting/en/

About Nikon Imaging Cloud

A QR code and URL will be displayed to browse Nikon Imaging Cloud from the web browser of a computer or smart device.

Unlink Nikon Imaging Cloud

Delete the connection information to Nikon Imaging Cloud.

- Delete connection information before discarding this product or transferring ownership to another person.

- If the connection information is deleted, images marked for upload to Nikon Imaging Cloud will no longer be sent.
- To re-connect the camera and Nikon Imaging Cloud after deleting connection information, set [**Connect to Nikon Imaging Cloud**] to [**ON**] and create a new network profile (📖 50).

Tip: Notifications from Nikon Imaging Cloud

In the following cases, notification marks as shown will appear on the menu tabs and menu items in the camera menu. When a menu with a notification mark is selected for display, the mark will disappear.

- When there is a difference between the Picture Controls added to the camera and the Picture Controls in Nikon Imaging Cloud.
- When new camera firmware can be downloaded from Nikon Imaging Cloud.
- When an auto firmware update was performed.
- When there is an error notification related to connection or coordination between the camera and Nikon Imaging Cloud.

PHOTO SHOOTING MENU	
RAW recording	ON 🈺 >
ISO sensitivity settings	>
White balance	AUTO₁ >
Set Picture Control	🖼 A >
Manage Picture Control	>
Set Picture Control (HLG)	SD
Color space	sRGB >

Creating Network Profiles and Connecting the Camera to Nikon Imaging Cloud
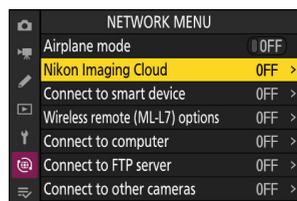
Use the camera and computer/smart device to establish a Wi-Fi connection between the camera and Nikon Imaging Cloud to access services.

✅ **Before Connecting Nikon Imaging Cloud**
- You must create a Nikon ID and register with Nikon Imaging Cloud to use the service. Complete registration and sign in on the computer or smart device before connecting to the camera. See the Nikon Imaging Cloud online help for detailed instructions.
- A web browser is required to use Nikon Imaging Cloud.
- A Wi-Fi environment is required to connect the camera and Nikon Imaging Cloud. Connect the camera to an existing network (including home networks) via a wireless router.

*1* **Camera: Highlight [Nikon Imaging Cloud] in the network menu and press ⊛.**

A QR code and URL to access Nikon Imaging Cloud on a computer or smart device will appear.

NETWORK MENU	
Airplane mode	OFF
Nikon Imaging Cloud	OFF >
Connect to smart device	OFF >
Wireless remote (ML-L7) options	OFF >
Connect to computer	OFF >
Connect to FTP server	OFF >
Connect to other cameras	OFF >

2 **Camera: When a dialog is displayed as shown, press ⊛ to proceed.**

About Nikon Imaging Cloud

If you have not signed up, access the link below. If you have already signed up, press **OK**.

https://

OK OK

3 **Camera: Select [ON] for [Connect to Nikon Imaging Cloud].**

Nikon Imaging Cloud	
Connect to Nikon Imaging Cloud	OFF
Wi-Fi settings	>
Connection options	>
Photo upload	ON

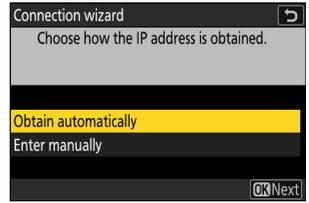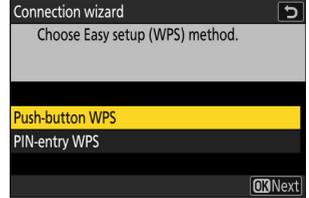Not registered for Nikon Imaging Cloud.
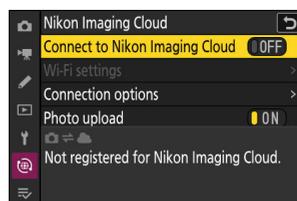
4 **Camera: Highlight [Search for Wi-Fi network] and press ⊛.**

The camera will search for networks currently active in the vicinity and list them by name (SSID).

☑ **"Easy Connect"**

To connect without entering an SSID or encryption key, press ⊕ in Step 4. Next, highlight one of the following options and press ⊛. After connecting, proceed to Step 7.

| Option	Description
[**Push-button WPS**]	For routers that support push-button WPS. Press the WPS button on the router and then press the camera ⊛ button to connect.
[**PIN-entry WPS**]	The camera will display a PIN. Using a computer, enter the PIN on the router. For more information, see the documentation provided with the router.

5 **Camera: Choose a network.**

- Highlight a network SSID and press ⊛.
- The SSIDs containing characters that cannot be entered on the camera will not be displayed.
- The band on which each SSID operates is indicated by an icon.
- Encrypted networks are indicated by a 🔒 icon. If the selected network is encrypted (🔒), you will be prompted to enter the encryption key. If the network is not encrypted, proceed to Step 8.
- If the desired network is not displayed, press ⊕ to search again.
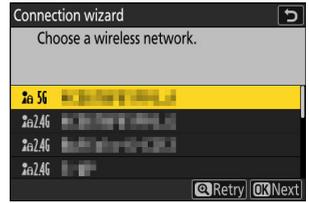
☑ **Hidden SSIDs**

Networks with hidden SSIDs are indicated by blank entries in the network list.

- To connect to a network with a hidden SSID, highlight a blank entry and press ⊛. Next, press ⊛; the camera will prompt you to provide an SSID.
- Enter the network name and press ⊕. Press ⊕ again; the camera will now prompt you to enter the encryption key.
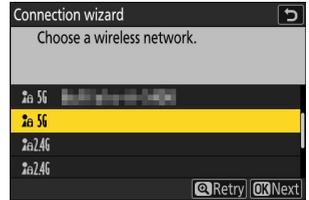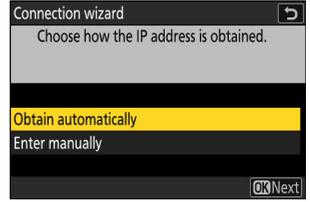
6 **Camera: Enter the encryption key.**

- Press ⓦ and enter the encryption key for the wireless router.

- For more information, see the documentation for the wireless router.
- Press ⊕ when entry is complete.

- Press ⊕ again to initiate the connection. A message will be displayed for a few seconds when the connection is established.

7 **Camera: Obtain or select an IP address.**

Highlight one of the following options and press ⊛.

Option	Description
[**Obtain automatically**]	Select this option if the network is configured to supply the IP address automatically. A "configuration complete" message will be displayed once an IP address has been assigned.
[**Enter manually**]	Enter the IP address, sub-net mask, gateway address, and Domain Name Server (DNS) address in that order manually. The items can be entered as follows. • **IP address/gateway address/Domain Name Server (DNS)**: - Press ⊛; you will be prompted to enter the address. - Rotate the main command dial to highlight segments. - Press ◀ or ▶ to change the highlighted segment and press ⊛ to enter changes. - When all digits have been entered, press ⊕ to save changes. - Press ⊕ again to proceed. • **Sub-net mask**: To change the highlighted digit, press ⊕ or ⊖. Press ⊛ to save changes and proceed.

New Network Menu Item: "**Nikon Imaging Cloud**"

8 **Camera: Press ⊛ to proceed when the "configuration complete" message is displayed.**
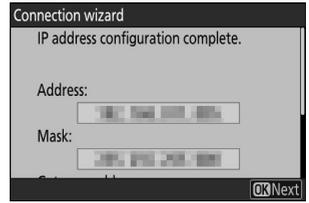
The camera accesses Nikon Imaging Cloud and prepares for connection. If preparation is complete, a QR code and URL to access Nikon Imaging Cloud on a computer or smart device will appear.

9 **Computer/smart device: Click or tap the connect camera button in the Nikon Imaging Cloud home screen.**

An access code to connect Nikon Imaging Cloud and the camera appears.

10 **Camera: Enter the access code displayed on the computer/smart device in Step 9.**

- Press ⊛ to enter the access code.
- Press 🔍 when entry is complete.

- Pressing 🔍 again connects the camera and Nikon Imaging Cloud and displays a QR code and URL to access to the Nikon Imaging Cloud from a computer or smart device.


11 **Computer/smart device: Scan the QR code displayed on the camera screen or enter the URL also displayed on the camera into a web browser.**

- A connection confirmation screen appears.
- If a user-code entry screen appears on the computer/smart device, enter the user code displayed on the camera screen.

New Network Menu Item: "**Nikon Imaging Cloud**"

12   **Computer/smart device: Click or tap the [Connect] button.**

The network profile is added to the camera and Nikon Imaging Cloud and the camera are now connected via Wi-Fi. If connection completion screens appear on both the computer/ smart device and the camera, you can use the camera with Nikon Imaging Cloud.

For information on using Nikon Imaging Cloud, see online help.

Connection wizard
Setup complete.
OK Next
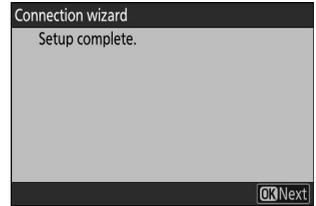
A New Option for Network Menu "Connect to FTP Server"

[**Keep connection**] has been added to the options available for [**Connect to FTP server**] > [**Options**] in the network menu. If the connection is lost due to a wireless, TCP/IP, or FTP error when [**ON**] is selected, the camera will automatically attempt to reconnect after about 15 seconds. The camera will attempt to reconnect repeatedly until the connection is re-established.

- The standby timer will not expire when [**ON**] is selected, regardless of the option selected for Custom Setting c3 [**Power off delay**] > [**Standby timer**]. Note that this increases the drain on the battery.

Using AirGlu Accessories While MC-N10 Remote Grips Connected

In earlier versions of the camera firmware, all Bluetooth functions were disabled while an MC-N10 was connected to the camera, but from "C" firmware version 2.00, Atomos UltraSync BLUE AirGlu accessories can be used via Bluetooth.

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