

***Nikon***

# **Z 9 Reference Guide**

(Supplement for Firmware Version 5.30)

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# Changes with “C” Firmware Version 5.30

## Features Available with “C” Firmware Version 5.30

The Z 9 *Reference Guide* is for “C” firmware version 5.20 (the latest version of the Z 9 *Reference Guide* is available from the Nikon Download Center). This chapter details the new features and changes introduced with camera “C” firmware version 5.30. 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 versions of the camera 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. Note that automatic notifications may not be displayed at exactly the same time as the updates are made available on the Nikon Download Center.

# Changes Made with “C” Firmware Version 5.30

The features added or updated with camera “C” firmware version 5.30 are summarized below. More information is available on the pages listed.

## Still Photography

- More AF-Area Mode Options with Subject Detection ([7](#))
- Extended Focus Area Now Available for Wide-Area AF ([8](#))
- New Picture Control Options ([9](#))
- New Auto Capture Options ([12](#))

## Video Recording

- More AF-Area Mode Options with Subject Detection ([7](#))
- Extended Focus Area Now Available for Wide-Area AF ([8](#))
- New Picture Control Options ([9](#))
- New Auto Capture Options ([12](#))
- Subject Detection Focus Point Now Displayed with Hi-Res Zoom ([14](#))

## Playback

- “**Date**” Added to “**Filtered Playback Criteria**” Item in Playback Menu and Playback **z** Menu ([15](#))
- New Video Playback **z** Menu Item: “**Loop Playback**” ([16](#))
- New Playback Menu Item: “**Auto-Rotate During Playback**” ([18](#))

# Controls

- New Custom Settings: a10/g6 **"Active Subject Detection Options"** ( [📖 19](#) )
- Custom Setting: a14 **"Max. Aperture Lv During MF"** Changed to a15 **"Maximum Aperture Lv"** ( [📖 20](#) )
- New Custom Setting: a17 **"Focus Limiter Setting"** ( [📖 21](#) )
- New Options for Custom Settings f2 **"Custom Controls (Shooting)"** and g2 **"Custom Controls"** ( [📖 24](#) )
- New Options for Custom Setting f3 **"Custom Controls (Playback)"** ( [📖 26](#) )
- New Custom Setting: f11 **"Cycle Image Area Using Built-in TC"** ( [📖 27](#) )

# Networks

- New Options for **"Connect to FTP Server"** in Network Menu ( [📖 28](#) )
- New Options for **"Connect to Other Cameras"** in Network Menu ( [📖 30](#) )
- New Option for **"USB"** in Network Menu: **"USB Streaming (UVC/UAC)"** ( [📖 33](#) )

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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.

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# More AF-Area Mode Options with Subject Detection

Subject detection is now available when selecting [**Single-point AF**], [**Dynamic-area AF (S)**], [**Dynamic-area AF (M)**], or [**Dynamic-area AF (L)**].

# Extended Focus Area Now Available for Wide-Area AF

We have extended the dimensions (measured in focus points) of focus areas available with [**Wide-area AF (C1)**] and [**Wide-area AF (C2)**] AF-area modes.

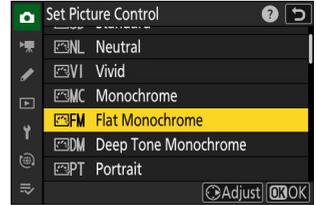
- In earlier versions of the camera firmware, you could select the AF-area size in 20 patterns from [**1×1**] to [**19×11**] in photo mode, but “C” firmware version 5.30 will provide 135 patterns from [**1×1**] to [**29×17**].
- In earlier versions of the camera firmware, you could select the AF-area size in 12 patterns from [**1×1**] to [**13×7**] in video mode, but “C” firmware version 5.30 will provide 120 patterns from [**1×1**] to [**29×15**].

# New Picture Control Options

We have added new items to **[Set Picture Control]** in the photo shooting and video recording menus.

## New Items Added to Picture Control

The following items have been added to **[Set Picture Control]** in the photo shooting and video recording menus.



| Option   |                               | Description   |
|--|-------------------------------|---|
|  | <b>[Flat Monochrome]</b>      | Features gentle gradations from highlights to shadows, producing soft monochrome pictures.  |
|  | <b>[Deep Tone Monochrome]</b> | Choose for slightly darker tones in the range from shadows to mid-tones, with brightness rapidly increasing as tones progress from mid-tones to highlights. |

- **[Flat Monochrome]** and **[Deep Tone Monochrome]** have also been added to the original Picture Control on which the custom Picture Control is based in **[Manage Picture Control]** in the photo shooting and video recording menus.

### Limits When Using “Flat Monochrome” and “Deep Tone Monochrome”

The **[Portrait impression balance]** options in the photo shooting and video recording menus are disabled when using **[Flat Monochrome]** and **[Deep Tone Monochrome]**.

## Picture Control Settings

The options available when **[Flat Monochrome]** or **[Deep Tone Monochrome]** is selected are as follows.

- **[Quick sharp]**
  - **[Sharpening]**
  - **[Mid-range sharpening]**
  - **[Clarity]**
- **[Contrast]**
- **[Brightness]**
- **[Filter effects]**
- **[Toning]**

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### Using “Filter Effects” with “Deep Tone Monochrome”

**[Deep Tone Monochrome]** features a strong built-in red filter effect that applies even when **[OFF]** is selected for **[Filter effects]**. Because **[Filter effects]** cannot be applied more than once, selecting an option other than **[OFF]** will disable the built-in red filter effect. Contrast can be reduced by enabling **[Y]**, **[O]**, and **[R]**.

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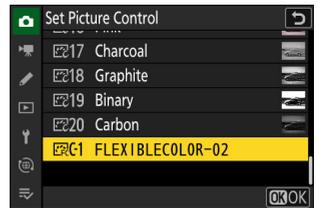
# New Picture Control Option: “Flexible Color”

The camera now supports “Flexible Color” Picture Controls. 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.

## Adding Flexible Color Picture Controls to the Camera

You can export adjusted Flexible Color Picture Controls from NX Studio to memory cards and import them to the camera as Custom Picture Controls.

- Select **[Picture Control]** > **[Flexible Color]** in NX Studio to make adjustments and save them as Custom Picture Controls on memory cards. For details on making adjustments and exporting to memory cards, see the NX Studio online help.
- Picture Controls exported to memory cards will be added to the Picture Control list when imported 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.

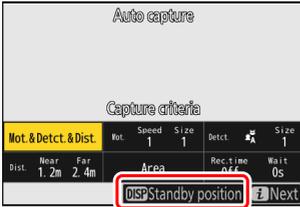


# New Auto Capture Options

We have added new features to **[Auto capture]** in the photo shooting and video recording menus.

## “Reset Focus After Shooting” Added

You can now select **[Reset focus after shooting]** by pressing the **DISP** button on the settings confirmation dialog before starting auto capture. This allows you to select whether to reset the focus position (focus distance) when the camera enters standby for auto capture.



| Option               | Description   |
|----------------------|---|
| <b>[Reset]</b>       | The camera restores the focus position when it enters standby for auto capture. The restored focus position varies with the option selected for <b>[Capture criteria]</b> . <ul style="list-style-type: none"><li>• <b>[Capture criteria]</b> &gt; <b>[Distance]</b> enabled (<input checkbox="" checked="" type="checkbox&gt;): The camera focuses at the distance selected for &lt;b&gt;[Farthest]&lt;/b&gt;.&lt;/li&gt;&lt;li&gt;• &lt;b&gt;[Capture criteria]&lt;/b&gt; &gt; &lt;b&gt;[Distance]&lt;/b&gt; disabled (&lt;input type="/>): The camera focuses at the distance in effect when auto capture began.</li></ul> |
| <b>[Don't reset]</b> | The camera keeps the focus position in effect before entering standby for auto capture.   |

## “Face” Added to Subject Detection Types

We have added [Face] as a subject type for [Advanced: Subject detection]. The camera performs auto capture only when it detects a human face.





# “Date” Added to “Filtered Playback Criteria” Item in Playback Menu and Playback *i* Menu

We have added [**Date**] to the options available for [**Filtered playback criteria**] in the playback menu and playback *i* menu. Selecting (☑) [**Date**] includes the pictures taken on the selected date with [**Select date**] in filtered playback.



- Highlight [**Date**] and press Ⓞ to select (☑) or deselect (☐).
- Highlight [**Select date**] and press Ⓟ to select a date as the filtered playback criteria.
- If the date is not specified using [**Select date**], selecting (☑) [**Date**] will show the pictures with the most recent shooting date in filtered playback.
- To complete the operation, press **MENU**.

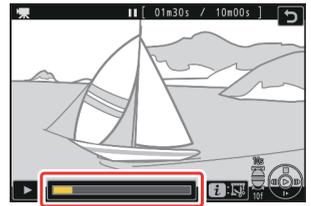
# New Video Playback *i* Menu Item: “Loop Playback”

We have added a [Loop playback] item to the video playback *i* menu displayed while playback is paused. Repeat a specified section of footage by selecting the start and end points in the video.

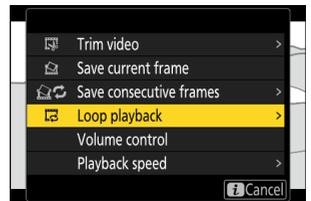
## 1 Display a video full frame.

## 2 Pause the video on the desired opening frame.

- Press **⏪** to start playback. Press **⏸** to pause.
- Your approximate position in the video can be ascertained from the video progress bar.
- Rotate the sub-command dial one stop to skip ahead or back 10 s.
- Rotate the main command dial one stop to skip ahead or back 10 frames.
- Press **⏮** or **⏭** to advance or rewind one frame at a time.

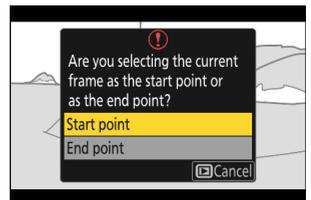


## 3 Press the *i* button, highlight [Loop playback] and press **⏵**.



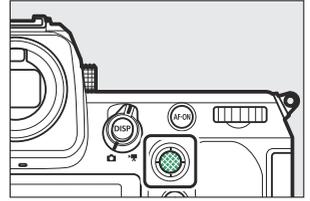
## 4 Choose [Start point].

To set a loop that begins with the current frame, highlight [Start point] and press **⏵**.



## 5 Choose the end point of the loop.

- Press the center of the sub-selector to switch to the end-point selection tool (P).
- Use the command dials to select the desired closing frame of the loop.
  - Rotate the sub-command dial one stop to skip ahead or back 10 s.
  - Rotate the main command dial one stop to skip ahead or back 10 frames.
  - Press ⏩ or ⏪ to advance or rewind one frame at a time.



## 6 Press ⏩ to set the loop.

- The camera will initiate loop playback.
- Press ⏩, highlight [Yes], and press ⏹ to end the loop playback. To create a new loop, reset the start and end points.

# New Playback Menu Item: “Auto-Rotate During Playback”

We have added an **[Auto-rotate during playback]** item to the playback menu.

- Select **[ON]** to automatically match the orientation of the displayed pictures to the rotation of the camera during playback.
- Selecting **[OFF]** prevents pictures from rotating with the camera during playback.

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## “Auto-Rotate Pictures” in the Playback Menu

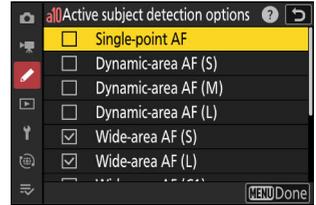
If you select **[OFF]** for **[Auto-rotate pictures]**, images displayed during playback will always be in landscape (wide) orientation, regardless of whether you select **[ON]** or **[OFF]** for **[Auto-rotate during playback]**.

---

# New Custom Settings: a10/g6 “Active Subject Detection Options”

We have added an [Active subject detection options] item to the Custom Settings menu at positions a10 and g6. You can enable or disable subject detection for each AF-area mode.

- Highlight options and press **OK** or **DISP** to select () or deselect () . Subject detection is enabled only when an AF-area mode marked with a check () is selected in autofocus mode.
- To complete the operation, press **MENU**.
- The setting for Custom Setting a10 applies in photography and that for g6 in video recording.



# Custom Setting: a14 “Max. Aperture Lv During MF” Changed to a15 “Maximum Aperture Lv”

We changed the name of Custom Setting a14 [**Max. aperture Lv during MF**] to a15 [**Maximum aperture Lv**]. When set to [**On**], the shooting display in the viewfinder or monitor is always displayed at maximum aperture regardless of whether auto or manual focus is selected. When you press the shutter-release button all the way down, the aperture will adjust to the configured aperture value before shooting.

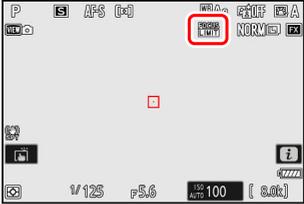
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## ✓ **Cautions: When “Maximum Aperture Lv” Is Set to “On”**

- The lens will always be at maximum aperture regardless of aperture setting. Avoid pointing the camera at the sun or other powerful light sources. Failure to observe this precaution could damage the camera’s internal circuitry.
  - The timing of the shutter release may be slightly delayed. Shutter release timing delays are more likely to occur when [**Silent mode**] is set to [**ON**] in the setup menu.
  - The frame advance rate may drop.
  - Flickering may appear on the shooting display under the following conditions:
    - just before or after the shutter is released, or
    - when pressing a control assigned the role of [**Preview**] in Custom Setting f2 [**Custom controls (shooting)**].
-

# New Custom Setting: a17 “Focus Limiter Setting”

We have added a [**Focus limiter setting**] item to the Custom Settings menu at position a17. You can now limit the camera autofocus to the selected range.

| Option                   | Description  |
|--------------------------|--|
| [ <b>Focus limiter</b> ] | <p>Select [<b>ON</b>] to limit the camera autofocus to the range selected with [<b>Limit range</b>].</p> <ul style="list-style-type: none"><li>• The shooting display shows a focus limit icon when [<b>ON</b>] is selected.</li></ul>  |
| [ <b>Limit range</b> ]   | <p>Specify the camera autofocus range.</p> <ul style="list-style-type: none"><li>• Select [<b>Nearest</b>] for the minimum distance and [<b>Farthest</b>] for the maximum distance.</li><li>• Set the distance values between 0.1 and 999 m.</li></ul>   |

## “Focus Limiter Setting”

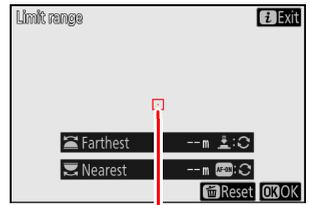
You can use the [**Focus limiter setting**] feature when a Z mount lens is attached.

# Limiting the Focus Range

Select the near and far limits of the camera autofocus range.

## 1 Highlight [Limit range] and press .

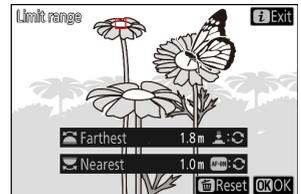
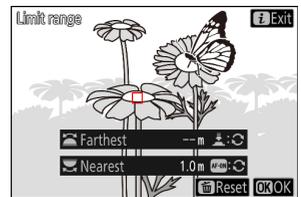
- The range setting display will appear.
- A focus-point target will appear in the range setting display.



Focus-point target

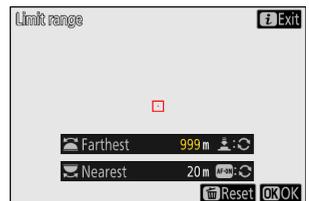
## 2 Select the minimum and maximum focus distances.

- Place the focus point over a subject at the nearest distance and press the **AF-ON** button to set the minimum distance. Rotate the main command dial or keep the **AF-ON** button pressed while rotating the lens focus ring to fine-tune the minimum distance.
- Place the focus point over a subject at the farthest distance and press the shutter-release button halfway to set the maximum distance. Rotate the sub-command dial or keep the shutter-release button pressed halfway while rotating the lens focus ring to fine-tune the maximum distance.



### Tip: Supported Distances for “Nearest” and “Farthest”

We recommend that you configure [**Nearest**] and [**Farthest**] within the range of values indicated by the numbers in white. Setting these options to the values indicated in yellow may reduce the accuracy with which the camera can detect the distance to the subject, resulting in the camera focusing outside of the set range or autofocus becoming unavailable.



### 3 Press .

End range setting and return to the shooting display.

---

#### **Caution: Changing Lenses**

Changing from the lens used to set **[Limit range]** to another lens disables the set focus range.

- Reset the **[Limit range]** setting to use the focus limiter function with the new lens.
- If the **[Limit range]** setting is not reset with the new lens, re-attaching the original lens allows focusing within the set focus range.

#### **Using Lenses with the Focus Limit Switch**

When using a lens with a focus limit switch for the **[Limit range]** setting, set the lens focus limit switch to **FULL**.

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## **Resetting the Focus Range**

Press the  (**RESET**) button to reset the values set for **[Nearest]** and **[Farthest]**.

# 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**]. Some roles have changed.

## New Roles

|  | Option                                     | Description   |
|--|--|---|
|  | [ <b>Focus limiter</b> ]                   | Press the control to toggle between [ <b>ON</b> ] and [ <b>OFF</b> ] for Custom Setting a17 [ <b>Focus limiter setting</b> ] > [ <b>Focus limiter</b> ]. Hold the control to jump to the [ <b>Limit range</b> ] settings display ( <a href="#">📖 21</a> ).  |
|  | [ <b>Cycle subject detection options</b> ] | Press the control to cycle through the subject detection targets during autofocus. <ul style="list-style-type: none"><li>• To select the subject type, highlight [<b>Cycle subject detection options</b>] and press .</li><li>• Highlight options and press  or  to select (<input checked="" type="checkbox"/>) or deselect (<input type="checkbox"/>). Only items marked with a check (<input checked="" type="checkbox"/>) will cycle when you press the control.</li></ul> |

# Separate Settings Now Available for “Recall Shooting Functions” and “Recall Shooting Functions (Hold)”

The [Recall shooting functions] and [Recall shooting functions (hold)] items shared recall settings in earlier versions of the camera firmware, but starting with “C” firmware version 5.30, the camera will store separate settings for each item.

## ✓ Assigning “Recall Shooting Functions” and “Recall Shooting Functions (Hold)” to Different Controls

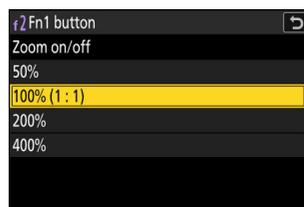
Storing separate settings to different controls using [Recall shooting functions] and [Recall shooting functions (hold)] varies operations depending on the order in which the controls are pressed.

- The setting stored with [Recall shooting functions (hold)] will not be recalled by pressing its assigned control while the control assigned to [Recall shooting functions] is pressed.
- The setting stored with [Recall shooting functions] will be recalled when you press its assigned control while the setting recalled using [Recall shooting functions (hold)] is in effect.

## Changed Settings for “Zoom On/Off”

A magnification option of [400%] has been added to [Zoom on/off] available for Custom Settings f2 [Custom controls (shooting)] and g2 [Custom controls]. We also changed the names of other options to:

- [50%]
- [100% (1 : 1)]
- [200%]



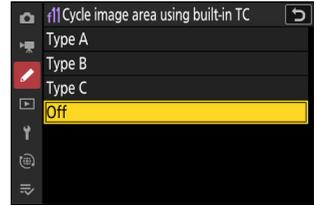
# New Options for Custom Setting f3

## “Custom Controls (Playback)”

We have added a [**Jump to the source image**] item to the roles available for Custom Setting f3 [**Custom controls (playback)**]. Press the control to jump to a source image from its retouched copy.

# New Custom Setting: f11 “Cycle Image Area Using Built-in TC”

We have added a [**Cycle image area using built-in TC**] item to the Custom Settings menu at position f11. When a NIKKOR Z lens with a built-in teleconverter is attached, this feature switches the image area as the teleconverter switch is operated to change the focal length of the lens in photo mode.



| Option            | Description  |
|-------------------|--|
| [ <b>Type A</b> ] | Sliding the lens teleconverter switch to 1.4× selects [ <b>DX (24 × 16)</b> ] image area. Sliding the teleconverter switch to 1× selects [ <b>FX (36 × 24)</b> ] image area. |
| [ <b>Type B</b> ] | Sliding the lens teleconverter switch to 1.4× does not change the image area. Sliding the teleconverter switch to 1× selects [ <b>FX (36 × 24)</b> ] image area.             |
| [ <b>Type C</b> ] | Sliding the lens teleconverter switch to 1.4× selects [ <b>DX (24 × 16)</b> ] image area. Sliding the teleconverter switch to 1× does not change the image area.             |
| [ <b>Off</b> ]    | Sliding the lens teleconverter switch does not change the image area.  |

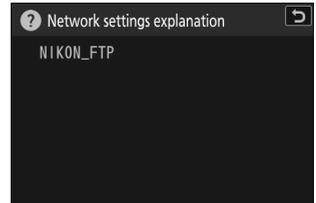
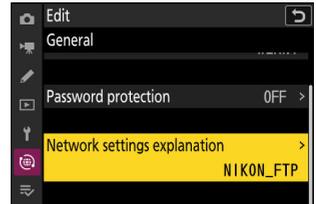
# New Options for “Connect to FTP Server” in Network Menu

We have added new features to the **[Connect to FTP server]** item in the network menu.

## You Can Add Descriptive Text to FTP Server Network Profiles

You can now add descriptive text to network profiles created in **[Connect to FTP server]** in the network menu.

- To add descriptive text, highlight an existing profile and press **⌘**, then select **[General]** > **[Network settings explanation]** and press **⌘** to display the keyboard. Press **⌘** to proceed after entering text.
- Descriptive text can be up to 254 characters long.
- Place the cursor on a network profile in **[Connect to FTP server]** and press **⌘** (?) to display its descriptive text.



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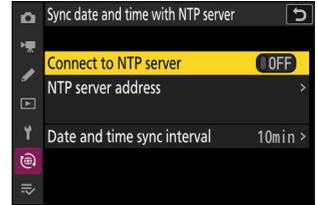
### Tip: Manual Configuration

To add descriptive text when configuring network profiles manually via **[Connect to FTP server]** > **[Create profile]** > **[Configure manually]**, go to **[Wired LAN]** or **[Wireless LAN]**, then select **[General]** > **[Network settings explanation]**.

---

# Date and Time Synchronization Via NTP Servers Is Now Available

We have added [**Sync date and time with NTP server**] to the options available for [**Connect to FTP server**] > [**Options**]. The camera can synchronize its date and time with the FTP server by connecting to the NTP (Network Time Protocol) server to which the FTP server connects.



| Option                                 | Description   |
|--|---|
| [ <b>Connect to NTP server</b> ]       | Selecting [ <b>ON</b> ] connects the camera to the NTP server and synchronizes its date and time.   |
| [ <b>NTP server address</b> ]          | Enter the URL or IP address of the NTP server that the FTP server is connected to.  |
| [ <b>Date and time sync interval</b> ] | Select the interval at which the camera acquires date and time from the NTP server from [ <b>1 min</b> ], [ <b>10 min</b> ], and [ <b>60 min</b> ]. |

## **✓ Cautions: Synchronization with the NTP Server**

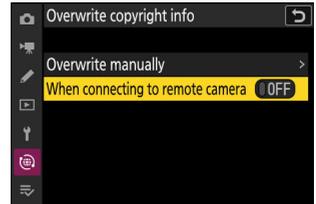
- Synchronization with the NTP server is available only while the camera is connected to the FTP server.
- Date and time synchronization will not occur in the following conditions:
  - if the camera fails to connect to the NTP server,
  - when the standby timer has expired,
  - during interval timer photography,
  - focus shift shooting, or
  - time-lapse video recording.
- Date and time settings using the following options are unavailable during NTP server synchronization:
  - [**Time zone and date**] > [**Date and time**] in the setup menu
  - [**Location data (built-in)**] > [**Set clock from satellite**] in the setup menu

# New Options for “Connect to Other Cameras” in Network Menu

We have added new features to the [Connect to other cameras] item in the network menu.

## Automatic Copyright Information Overwriting for Remote Cameras Is Now Available

Connecting remote cameras to the master camera now automatically overwrites the copyright information on remote cameras with the copyright information stored on the master camera. Enable overwriting by selecting [Connect to other cameras] > [Overwrite copyright info] in the master camera’s network menu.



| Option                             | Description  |
|------------------------------------|--|
| [Overwrite manually]               | Pressing  overwrites the copyright information on any remote cameras currently connected in the same group with the copyright information stored on the master camera. |
| [When connecting to remote camera] | Selecting [ON] overwrites the copyright information on the remote cameras with the copyright information stored on the master camera when connected.                   |

# Search and Addition of Remote Cameras on the Same Network from the Master Camera Is Now Available

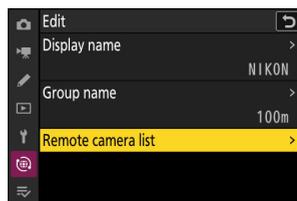
The master camera can now detect and connect to remote cameras on the same network.

## Detecting and Connecting to Remote Cameras

### 1 Connect all the master and remote cameras to the same network using [Connect to other cameras] in the network menu.

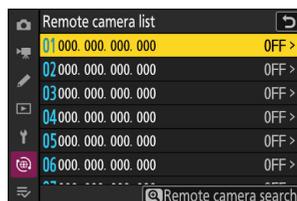
- Connect the cameras via a wireless or Ethernet LAN. See the camera Reference Guide for detailed instructions on connecting the cameras to the network.
- Set the same group name for all the master and remote cameras using [Group name]. A remote camera with a different [Group name] will not be detected.

### 2 Go to [Connect to other cameras] > [Group settings] > (group display name) on the master camera, highlight [Remote camera list], and press .



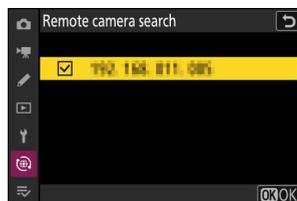
### 3 Press on the remote camera list.

The master camera searches connectable remote cameras and displays their IP addresses.



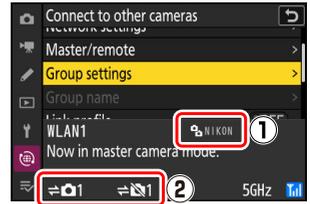
### 4 Select a remote camera.

Highlight the remote camera and press  to select () or deselect () it. The remote cameras with check () marks will connect to the master camera.



## 5 Press .

The master camera will connect to the selected remote cameras. The master camera shows the group display name (①) and the number of remote cameras connected and not yet connected (②).



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### **Caution: Detecting Remote Cameras**

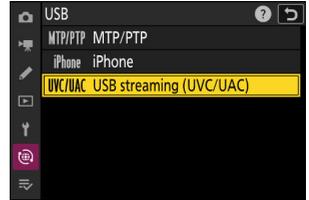
The master camera detects only Z 9 remote cameras with "C" firmware updated to version 5.30. To connect to other remote cameras, enter their IP addresses manually in the **[Remote camera list]**.

---

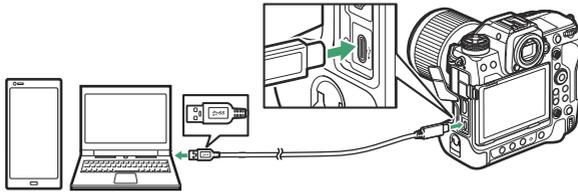
# New Option for “USB” in Network Menu: “USB Streaming (UVC/UAC)”

We have added a [USB streaming (UVC/UAC)] item to [USB] in the network menu. You can use live streaming software and web conferencing applications on the computer or smart device connected to the camera via the supplied USB cable to live stream the video and audio recorded with the camera.

- 1 **Camera:** Select [USB] in the network menu, highlight [USB streaming (UVC/UAC)], and press **OK**.



- 2 **Connect the camera and computer/smart device using the supplied USB cable.**



- The camera will enter streaming standby mode, and a message prompting you to start streaming and an STBY icon will be displayed in the shooting display.
- The video mode shooting display will appear regardless of the photo/video selector setting. The video mode settings including white balance and Picture Control will be applied to the streaming image.



### 3 Computer/smart device: Start streaming via a live streaming application.

- The camera will start streaming and a LIVE icon will be displayed in the shooting display.



- Streaming video is generated as follows.
  - Frame size/frame rate: 1080/60p, 1080/30p, 720/60p, 720/30p (settings available in the application/software vary depending on the model and specifications of the computer or smart device)
  - Video format: MJPEG
  - Audio format: PCM, 16-bit, stereo

---

#### Cautions: Live Streaming

- Install live streaming software or web conferencing applications on your computer/smart device in advance.
  - Streaming will end automatically if:
    - **[USB]** in the network menu changes from **[USB streaming (UVC/UAC)]**,
    - the USB cable is removed to terminate the connection, or
    - the camera is turned off.
  - Some functions and settings cannot be used while streaming, including:
    - video recording,
    - display zoom,
    - HDMI connection,
    - communications with the computer/smart device other than the streaming software (for example, using software such as NX Studio),
    - time-lapse video recording,
    - focus shift, and
    - auto capture.
  - Some menus can be set while streaming, but a gray image will be streamed while operating the menu.
  - Depending on the operating system or model of the computer or smart device, you may need a connection application/software in addition to the application/software used for streaming.
  - We do not guarantee that streaming is available with all computers/smart devices.
-

# Post-Upgrade Specifications for “C” Firmware Version 5.30

Product specifications following upgrade to “C” firmware version 5.30 are listed below.

|                       |  |
|-----------------------|--|
| Type                  |  |
| Type                  | Digital camera with support for interchangeable lenses   |
| Lens mount            | Nikon Z mount  |
| Lens                  |  |
| Compatible lenses     | <ul style="list-style-type: none"><li>• Z mount NIKKOR lenses</li><li>• F mount NIKKOR lenses (mount adapter required; restrictions may apply)</li></ul> |
| Effective pixels      |  |
| Effective pixels      | 45.7 million   |
| Image sensor          |  |
| Type                  | 35.9 × 23.9 mm CMOS sensor (Nikon FX format)   |
| Total pixels          | 52.37 million  |
| Dust-reduction system | Image sensor cleaning, Image Dust Off reference data (requires NX Studio)  |

## Storage

### Image size (pixels)

- **[FX (36 × 24)] selected for image area:**
  - 8256 × 5504 (Large: 45.4 M)
  - 6192 × 4128 (Medium: 25.6 M)
  - 4128 × 2752 (Small: 11.4 M)
- **[DX (24 × 16)] selected for image area:**
  - 5392 × 3592 (Large: 19.4 M)
  - 4032 × 2688 (Medium: 10.8 M)
  - 2688 × 1792 (Small: 4.8 M)
- **[1:1 (24 × 24)] selected for image area:**
  - 5504 × 5504 (Large: 30.3 M)
  - 4128 × 4128 (Medium: 17.0 M)
  - 2752 × 2752 (Small: 7.6 M)
- **[16:9 (36 × 20)] selected for image area:**
  - 8256 × 4640 (Large: 38.3 M)
  - 6192 × 3480 (Medium: 21.5 M)
  - 4128 × 2320 (Small: 9.6 M)

### File format (image quality)

- **NEF (RAW):** 14 bit; choose from lossless compression, high efficiency★, and high efficiency options
- **JPEG:** JPEG-Baseline compliant with fine (approx. 1: 4), normal (approx. 1: 8), or basic (approx. 1: 16) compression; size-priority and optimal-quality compression available
- **NEF (RAW) + JPEG:** Single photograph recorded in both NEF (RAW) and JPEG formats

|                               |   |
|-------------------------------|---|
| <b>Storage</b>                |   |
| <b>Picture Control System</b> | <p>Auto, Standard, Neutral, Vivid, Monochrome, Flat Monochrome, Deep Tone Monochrome, Portrait, Rich Tone Portrait, Landscape, Flat, Creative Picture Controls (Dream, Morning, Pop, Sunday, Somber, Dramatic, Silence, Bleached, Melancholic, Pure, Denim, Toy, Sepia, Blue, Red, Pink, Charcoal, Graphite, Binary, Carbon); selected Picture Control can be modified; storage for Custom Picture Controls</p> <ul style="list-style-type: none"> <li>Flexible Color settings created with NX Studio can be imported to the camera.</li> </ul> |
| <b>Media</b>                  | CFexpress (Type B) and XQD memory cards   |
| <b>Dual card slots</b>        | The card in Slot 2 can be used for overflow or backup storage, for separate storage of NEF (RAW) and JPEG pictures, or for storage of duplicate JPEG pictures at different sizes and image qualities; pictures can be copied between cards.   |
| <b>File system</b>            | DCF 2.0, Exif 2.32  |
| <b>Viewfinder</b>             |   |
| <b>Viewfinder</b>             | 1.27-cm/0.5-in. approx. 3690k-dot (Quad VGA) OLED electronic viewfinder with color balance and auto and 18-level manual brightness controls; high frame-rate display available  |
| <b>Frame coverage</b>         | Approx. 100% horizontal and 100% vertical   |
| <b>Magnification</b>          | Approx. 0.8× (50 mm lens at infinity, $-1.0 \text{ m}^{-1}$ )   |
| <b>Eyepoint</b>               | 23 mm ( $-1.0 \text{ m}^{-1}$ ; from rearmost surface of viewfinder eyepiece lens)  |
| <b>Diopter adjustment</b>     | $-4 - +3 \text{ m}^{-1}$  |
| <b>Eye sensor</b>             | Automatically switches between monitor and viewfinder displays  |

|   |   |
|---|---|
| <b>Monitor</b>                          |   |
| <b>Monitor</b>                          | 8-cm/3.2-in., approx. 2100k-dot vertically and horizontally tilting TFT touch-sensitive LCD with 170° viewing angle, approximately 100% frame coverage, and color balance and 15-level manual brightness controls   |
| <b>Shutter</b>                          |   |
| <b>Type</b>                             | Electronic shutter with shutter sound and sensor shield   |
| <b>Speed</b>                            | $\frac{1}{32000}$ – 30 s (choose from step sizes of $\frac{1}{3}$ , $\frac{1}{2}$ , and 1 EV, extendable to 900 s in mode <b>M</b> ), bulb, time  |
| <b>Flash sync speed</b>                 | Flash synchronizes with shutter at speeds of $\frac{1}{250}$ or $\frac{1}{200}$ s or slower (but note that the guide number drops at speeds of $\frac{1}{200}$ to $\frac{1}{250}$ s); sync speeds as fast as $\frac{1}{8000}$ s are supported with auto FP high-speed sync  |
| <b>Release</b>                          |   |
| <b>Release mode</b>                     | Single frame, continuous low-speed, continuous high-speed, high-speed frame capture + with Pre-Release Capture, self-timer  |
| <b>Approximate frame advance rate *</b> | <ul style="list-style-type: none"> <li>• <b>Continuous low-speed:</b> Approx. 1 – 10 fps</li> <li>• <b>Continuous high-speed:</b> Approx. 10 – 20 fps</li> <li>• <b>High-speed frame capture + (C15):</b> Approx. 15 fps</li> <li>• <b>High-speed frame capture + (C30):</b> Approx. 30 fps</li> <li>• <b>High-speed frame capture + (C60):</b> Approx. 60 fps</li> <li>• <b>High-speed frame capture + (C120):</b> Approx. 120 fps</li> </ul> <p>* Maximum frame advance rate as measured by in-house tests.</p> |
| <b>Self-timer</b>                       | 2 s, 5 s, 10 s, 20 s; 1–9 exposures at intervals of 0.5, 1, 2, or 3 s   |

|  |   |
|--|---|
| Exposure                                     |   |
| Metering system                              | TTL metering using camera image sensor  |
| Metering mode                                | <ul style="list-style-type: none"> <li>• <b>Matrix metering</b></li> <li>• <b>Center-weighted metering:</b> Weight of 75% given to 12 or 8 mm circle in center of frame or weighting can be based on average of entire frame</li> <li>• <b>Spot metering:</b> Meters circle with a diameter of approximately 4 mm centered on selected focus point</li> <li>• <b>Highlight-weighted metering</b></li> </ul> |
| Range *                                      | <p>–3 – +17 EV</p> <p>* Figures are for ISO 100 and f/2.0 lens at 20 °C/68 °F</p>   |
| Mode   | <b>P:</b> programmed auto with flexible program, <b>S:</b> shutter-priority auto, <b>A:</b> aperture-priority auto, <b>M:</b> manual  |
| Exposure compensation                        | –5 – +5 EV (choose from step sizes of 1/3 and 1/2 EV)   |
| Exposure lock                                | Luminosity locked at detected value   |
| ISO sensitivity (Recommended Exposure Index) | ISO 64–25600 (choose from step sizes of 1/3 and 1 EV); can also be set to approx. 0.3, 0.7, or 1 EV (ISO 32 equivalent) below ISO 64 or to approx. 0.3, 0.7, 1, or 2 EV (ISO 102400 equivalent) above ISO 25600; auto ISO sensitivity control available   |
| Active D-Lighting                            | Auto, Extra high 2, Extra high 1, High, Normal, Low, and Off  |
| Multiple exposure                            | Add, average, lighten, darken   |
| Other options                                | HDR overlay, photo flicker reduction, high-frequency flicker reduction  |

| Autofocus                |   |
|--------------------------|---|
| Type                     | Hybrid phase-detection/contrast AF with AF assist   |
| Detection range *        | -7 – +19 EV (-9 – +19 EV with starlight view)<br>* Measured in photo mode at ISO 100 and a temperature of 20 °C/68 °F using single-servo AF ( <b>AF-S</b> ) and a lens with a maximum aperture of f/1.2   |
| Lens servo               | <ul style="list-style-type: none"> <li>• <b>Autofocus (AF)</b>: Single-servo AF (<b>AF-S</b>); continuous-servo AF (<b>AF-C</b>); full-time AF (<b>AF-F</b>; available only in video mode); predictive focus tracking</li> <li>• <b>Manual focus (M)</b>: Electronic rangefinder can be used</li> </ul> |
| Focus points *           | 493 focus points<br>* Number of focus points available in photo mode with single-point AF selected for AF-area mode and FX selected for image area  |
| AF-area mode             | Pinpoint (available in photo mode only), single-point, dynamic-area (S, M, and L; available in photo mode only), wide-area (S, L, C1, and C2), and auto-area AF; 3D-tracking (available in photo mode only); subject-tracking AF (available in video mode only)   |
| Focus lock               | Focus can be locked by pressing shutter-release button halfway (single-servo AF/ <b>AF-S</b> ) or by pressing the center of the sub-selector  |
| Vibration reduction (VR) |   |
| Camera on-board VR       | 5-axis image sensor shift   |
| Lens on-board VR         | Lens shift (available with VR lenses)   |

|   |  |
|---|--|
| <b>Flash</b>                                |  |
| <b>Flash control</b>                        | <b>TTL:</b> i-TTL flash control; i-TTL balanced fill-flash is used with matrix, center-weighted, and highlight-weighted metering, standard i-TTL fill-flash with spot metering   |
| <b>Flash mode</b>                           | Front-curtain sync, slow sync, rear-curtain sync, red-eye reduction, red-eye reduction with slow sync, off   |
| <b>Flash compensation</b>                   | -3 – +1 EV (choose from step sizes of $\frac{1}{3}$ and $\frac{1}{2}$ EV)  |
| <b>Flash-ready indicator</b>                | Lights when optional flash unit is fully charged; flashes as underexposure warning after flash is fired at full output   |
| <b>Accessory shoe</b>                       | ISO 518 hot-shoe with sync and data contacts and safety lock   |
| <b>Nikon Creative Lighting System (CLS)</b> | i-TTL flash control, radio-controlled Advanced Wireless Lighting, optical Advanced Wireless Lighting, modeling illumination, FV lock, Color Information Communication, auto FP high-speed sync, unified flash control        |
| <b>Sync terminal</b>                        | ISO 519 sync terminal with locking thread  |
| <b>White balance</b>                        |  |
| <b>White balance</b>                        | Auto (3 types), natural light auto, direct sunlight, cloudy, shade, incandescent, fluorescent (3 types), flash, choose color temperature (2500–10,000 K), preset manual (up to 6 values can be stored), all with fine-tuning |
| <b>Bracketing</b>                           |  |
| <b>Bracketing</b>                           | Exposure and/or flash, white balance, and ADL  |

| Other options for still photography            |  |
|--|--|
| Other options for still photography            | Vignette control, diffraction compensation, auto distortion control, skin softening, portrait impression balance, interval-timer photography, focus-shift photography, and auto capture  |
| Video  |  |
| Metering system                                | TTL metering using camera image sensor   |
| Metering mode                                  | Matrix, center-weighted, or highlight-weighted   |
| Frame size (pixels) and frame rate             | <ul style="list-style-type: none"> <li>• 7680 × 4320 (8K UHD): 30p (progressive)/25p/24p</li> <li>• 3840 × 2160 (4K UHD): 120p/100p/60p/50p/30p/25p/24p</li> <li>• 1920 × 1080: 120p/100p/60p/50p/30p/25p/24p</li> <li>• 1920 × 1080 (slow-motion): 30p (4×)/25p (4×)/24p (5×)</li> </ul> <p>* Actual frame rates for 120p, 100p, 60p, 50p, 30p, 25p, and 24p are 119.88, 100, 59.94, 50, 29.97, 25, and 23.976 fps respectively</p> |
| Frame size (pixels) and frame rate (RAW video) | <ul style="list-style-type: none"> <li>• 8256 × 4644: 60p/50p/30p/25p/24p</li> <li>• 5392 × 3032: 60p/50p/30p/25p/24p</li> <li>• 4128 × 2322: 120p/100p/60p/50p/30p/25p/24p</li> <li>• 3840 × 2160: 120p/100p/60p/50p</li> </ul> <p>* Actual frame rates for 120p, 100p, 60p, 50p, 30p, 25p, and 24p are 119.88, 100, 59.94, 50, 29.97, 25, and 23.976 fps respectively</p>  |
| File format                                    | NEV, MOV, MP4  |
| Video compression                              | N-RAW (12 bit), Apple ProRes RAW HQ (12 bit), Apple ProRes 422 HQ (10 bit), H.265/HEVC (8 bit/10 bit), H.264/AVC (8 bit)   |
| Audio recording format                         | Linear PCM (48 KHz, 24 bit, for videos recorded in NEV or MOV format) or AAC (48 KHz, 16 bit, for videos recorded in MP4 format)   |

| Video  |   |
|--|---|
| Audio recording device                       | Built-in stereo or external microphone with attenuator option; sensitivity adjustable   |
| Exposure compensation                        | -3 – +3 EV (choose from step sizes of $\frac{1}{3}$ and $\frac{1}{2}$ EV)   |
| ISO sensitivity (Recommended Exposure Index) | <ul style="list-style-type: none"> <li>• <b>Mode M:</b> Manual selection (ISO 64–25600; choose from step sizes of <math>\frac{1}{6}</math>, <math>\frac{1}{3}</math> and 1 EV); with additional options available equivalent to approximately 0.3, 0.7, 1, or 2 EV (ISO 102400 equivalent) above ISO 25600; auto ISO sensitivity control (ISO 64–Hi 2.0) available with selectable upper limit</li> <li>• <b>Modes P, S, A:</b> Auto ISO sensitivity control (ISO 64–Hi 2.0) with selectable upper limit</li> </ul> |
| Active D-Lighting                            | Extra high, High, Normal, Low, and Off  |
| Other options for video recording            | Time-lapse video recording, electronic vibration reduction, time codes, N-Log and HDR (HLG) video, wave-form display, red REC frame indicator, video recording display zoom (50%, 100%, 200%, and 400%), shutter angle, extended shutter speeds (mode <b>M</b> ), dual-format (proxy-video) recording for RAW video, extended oversampling available, option to view video recording info available via <b>i</b> menu, Hi-Res Zoom, Power zoom/Hi-Res Zoom collaboration, and auto capture                          |

|                         |  |
|-------------------------|--|
| Playback                |  |
| Playback                | Full-frame and thumbnail (up to 4, 9, or 72 pictures) playback with playback zoom, playback zoom cropping, video playback, loop playback, video playback speed adjustment, slide shows, histogram display, highlights, photo information, location data display, auto picture rotation, picture rating, filtered playback, voice memo recording and playback, IPTC information embedding and display, skip to first shot in series, series playback, save consecutive frames, and motion blend |
| Interface               |  |
| USB                     | Type-C SuperSpeed USB connector; connection to built-in USB ports is recommended   |
| HDMI output             | Type A HDMI connector  |
| Audio input             | Stereo mini-pin jack (3.5 mm diameter; plug-in power supported)  |
| Audio output            | Stereo mini-pin jack (3.5 mm diameter)   |
| Ten-pin remote terminal | Built-in (can be used with MC-30A/MC-36A remote cords and other optional accessories)  |
| Ethernet                | <p>RJ-45 connector</p> <ul style="list-style-type: none"> <li>• <b>Standards:</b> IEEE 802.3ab (1000BASE-T), IEEE 802.3u (100BASE-TX), IEEE 802.3 (10BASE-T)</li> <li>• <b>Data rates</b> *: 1000/100/10 Mbps with auto detect</li> <li>• <b>Port:</b> 1000BASE-T/100BASE-TX/10BASE-T (AUTO-MDIX)</li> </ul> <p>* Maximum logical data rates according to IEEE standard; actual rates may differ.</p>  |

## Wi-Fi/Bluetooth

|                       |  |
|-----------------------|--|
| Wi-Fi                 | <ul style="list-style-type: none"><li>• <b>Standards:</b><ul style="list-style-type: none"><li>- IEEE 802.11b/g/n (Africa, Asia, and Oceania)</li><li>- IEEE 802.11b/g/n/a/ac (Europe, U.S.A., Canada, Mexico)</li><li>- IEEE 802.11b/g/n/a (other countries in the Americas)</li></ul></li><li>• <b>Operating frequency:</b><ul style="list-style-type: none"><li>- 2412–2462 MHz (channel 11; Africa, Asia, and Oceania)</li><li>- 2412–2462 MHz (channel 11) and 5180–5825 MHz (U.S.A., Canada, Mexico)</li><li>- 2412–2462 MHz (channel 11) and 5180–5805 MHz (other countries in the Americas)</li><li>- 2412–2462 MHz (channel 11) and 5745–5805 MHz (Georgia)</li><li>- 2412–2462 MHz (channel 11) and 5180–5320 MHz (other European countries)</li></ul></li><li>• <b>Maximum output power (EIRP):</b><ul style="list-style-type: none"><li>- 2.4 GHz band: 8.4 dBm</li><li>- 5 GHz band: 6.0 dBm (Georgia)</li><li>- 5 GHz band: 9.0 dBm (other countries)</li></ul></li><li>• <b>Authentication:</b> Open system, WPA2-PSK, WPA3-SAE</li></ul> |
| Bluetooth             | <ul style="list-style-type: none"><li>• <b>Communication protocols:</b> Bluetooth Specification version 5.0</li><li>• <b>Operating frequency:</b><ul style="list-style-type: none"><li>- Bluetooth: 2402–2480 MHz</li><li>- Bluetooth Low Energy: 2402–2480 MHz</li></ul></li><li>• <b>Maximum output power (EIRP):</b><ul style="list-style-type: none"><li>- Bluetooth: 2.9 dBm</li><li>- Bluetooth Low Energy: 1.4 dBm</li></ul></li></ul>  |
| Range (line of sight) | Approximately 10 m (32 ft) *<br>* Without interference. Range may vary with signal strength and presence or absence of obstacles.  |

| Location Data              |  |
|----------------------------|--|
| Supported GNS systems      | GPS (USA), GLONASS (Russia), QZSS (Japan)  |
| Data acquired              | Latitude, longitude, altitude, UTC (Universal Coordinated Time)  |
| Clock synchronization      | Camera clock can be set to time acquired via GNSS  |
| Track logs                 | NMEA-compliant   |
| Log interval               | 15 s, 30 s, 1 min., 2 min., 5 min.   |
| Maximum log recording time | 6, 12, or 24 hours   |
| Log deletion               | Supported  |
| Power source               |  |
| Battery                    | <p>One EN-EL18d rechargeable Li-ion battery *</p> <p>* EN-EL18c, EN-EL18b, EN-EL18a, and EN-EL18 batteries can also be used. Note, however, that fewer pictures can be taken on a single charge than with the EN-EL18d. The EH-7P charging AC adapter can be used to charge EN-EL18d, EN-EL18c, and EN-EL18b batteries only.</p> |
| Charging AC adapter        | EH-7P charging AC adapter  |
| AC adapter                 | <ul style="list-style-type: none"> <li>EH-8P AC adapters (available separately); require USB cables featuring Type C connectors at both ends</li> <li>EH-6d; requires EP-6a power connector (available separately)</li> </ul>  |

|                               |   |
|-------------------------------|---|
| <b>Tripod socket</b>          |   |
| <b>Tripod socket</b>          | 0.635 cm (1/4 in., ISO 1222)  |
| <b>Dimensions/weight</b>      |   |
| <b>Dimensions (W × H × D)</b> | Approx. 149 × 149.5 × 90.5 mm/5.9 × 5.9 × 3.6 in.   |
| <b>Weight</b>                 | Approx. 1340 g (2 lb. 15.3 oz.) with battery and memory card but without body cap and accessory shoe cover; approx. 1160 g/2 lb. 9 oz. (camera body only) |
| <b>Operating environment</b>  |   |
| <b>Temperature</b>            | –10 °C– 40 °C (+14 °F – 104 °F)   |
| <b>Humidity</b>               | 85% or less (no condensation)   |

- Unless otherwise stated, all measurements are performed in conformity with Camera and Imaging Products Association (CIPA) standards or guidelines.
- All figures are for a camera with a fully-charged battery.
- The sample images displayed on the camera and the images and illustrations in this document are for expository purposes only.
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