



Professional Setting Guide —Movie Edition—

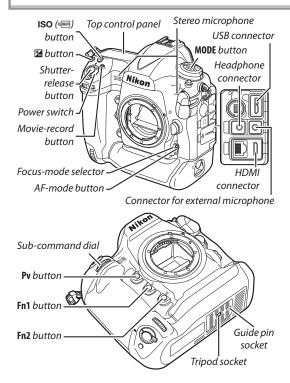


Revision 1.0

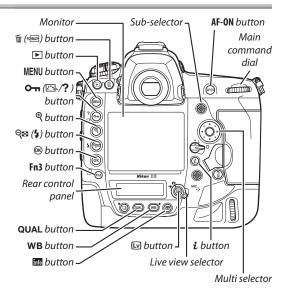
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Movie-Related Camera Controls



Movie-Related Camera Controls

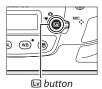


The monitor's touch-screen controls can be used for movie playback (page 39).

Recording Movies

Start movie live view.

Rotate the live view selector to \mathbf{W} and press the \mathbf{W} button.





7 Focus.

Frame the opening shot and press the **AF-ON** button or press the shutter-release button half-way to focus.

AF-ON button



3 Start recording.

Press the movie-record button to start recording (audio is also recorded; be careful not to cover the built-in microphone). A recording indicator and the time available are displayed in the monitor. The camera can be



Movie-record button

refocused by pressing the **AF-ON** button, and exposure can be locked by pressing the center of the sub-selector (page 20) or altered by up to ± 3 EV using exposure compensation.

A End recording.

Press the movie-record button again to end recording and then press in to exit live view.



Before recording, adjust settings in the movie shooting menu.

	MOVIE SHOOTING MENU	J
•	Reset movie shooting menu	
-	File naming	DSC
· A	Destination	(İ)
4	Image area	
Ţ	Frame size/frame rate	1001品
	Movie quality	HIGH
	Movie ISO sensitivity settings	
	White balance	AUTOo

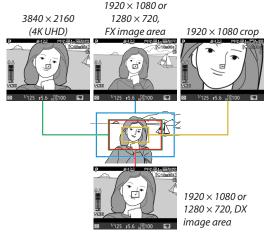
Frame Size/Frame Rate

Choose an option according to how you will use the movie.

	Maximum length
Option	(★ high quality/Normal)
2160 器 3840 × 2160 (4K UHD); 30p	
2160 器 3840×2160 (4K UHD); 25p	
2160 🕅 3840 × 2160 (4K UHD); 24p	
<u>1080 ∰</u> /1080 m 1920 × 1080; 60p	29 min. 59 s (recorded
<u>1080</u> ∰/ <u>1080</u> ∰ 1920×1080; 50p	across up to 8 files of up to
<u>1080 ∰</u> /1080 ∰ 1920 × 1080; 30p	4 GB each; the number and
1080 醬/1080 월 1920 × 1080; 25p	length of the files varies
<u>1080</u> 於/1080 월 1920×1080; 24p	with Frame size/frame
<u>720</u> №/ <u>720</u> № 1280×720; 60p	rate and Movie quality;
720龄/720龄 1280×720; 50p	files can be joined together
‱/∞ 1920 × 1080; 60p crop	using ViewNX-i as described
亞詭/亞∞ 1920 × 1080; 50p crop	on <u>page 40</u>).
‱/ 1920 × 1080; 30p crop	
‱/ 1920 × 1080; 25p crop	
춆/ 🖽 🔤 1920 × 1080; 24p crop	

The Movie Crop

The movie crop varies with frame size and, at frame sizes of 1920 × 1080 and 1280 × 720, the option selected for **Image area** > **Choose image area** in the movie shooting menu.



Footage with a frame size of 3840×2160 (4K UHD) can be filmed with DX lenses.

Movie ISO Sensitivity Settings

ISO sensitivity can be adjusted in movie mode (in live view or during recording).

 ISO sensitivity (mode M): Choose the ISO sensitivity for exposure mode M from values between ISO 100 and Hi 5. Auto



ISO sensitivity control is used in other exposure modes.

- Auto ISO control (mode M): Select On for auto ISO sensitivity control in exposure mode M, Off to use the value selected for ISO sensitivity (mode M).
- Maximum sensitivity: Choose the upper limit for auto ISO sensitivity control from values between ISO 200 and Hi 5. Auto ISO sensitivity control is used in exposure modes P, S, and A and when On is selected for Auto ISO control (mode M) in exposure mode M.

Auto ISO Sensitivity Control

At high ISO sensitivities, the camera may have difficulty focusing and noise (randomly-spaced bright pixels, fog, or lines) may increase. This can be prevented by choosing a lower value for **Movie ISO sensitivity settings** > **Maximum sensitivity**.

Set Picture Control Choose a Picture Control for movies.

- Same as photo settings: Use the Picture Control settings currently selected in the photo shooting menu.
- CSD Standard: Standard processing for balanced results. Recommended for most situations.



- ENL Neutral: Minimal processing for natural results. Choose for footage that you intend to process in post-production.
- EVI Vivid: Footage is enhanced for a vivid, photoprint effect with emphasis on primary colors.
- CMC Monochrome: Film monochrome footage.
- CEPT Portrait: Footage of portrait subjects is processed to give skin a natural texture and rounded feel.
- ELS Landscape: Film vibrant landscapes and cityscapes.
- ERL Flat GHECKITOUTY: Details are preserved over a wide tone range, from highlights to shadows, maximizing the potential for tweaking in post-production. Use with highlight-weighted metering to minimize loss of detail in highlights.

White Balance

Adjust white balance according to lighting conditions. Choose **Same as photo settings** to use the white balance settings currently selected in the photo shooting menu.



Measuring Preset Manual White Balance

Instead of using a specially-prepared reference object, you can measure white balance from any white or grey object in the frame.

When **Preset manual** is selected for white balance, you can hold the **WB** button in live view to enter direct measurement mode. **PRE** will flash in the display; tap a white or grey object to position the spot white

balance target (\Box) over the selected object and measure white balance. To zoom in on the target for precise positioning, press the $\$ button. Press the **WB** button again to exit direct measurement mode.

White balance presets d1–d6 can be viewed by selecting **Preset manual** for **White balance** in the movie shooting menu. The white balance target is shown on the preset.





Microphone Sensitivity

Adjust settings for the built-in stereo microphone or optional ME-1 stereo or ME-W1 wireless microphones. Choose **Auto sensitivity** to adjust sensitivity automatically, **Microphone off** to turn sound recording off. To select sensitivity manually, select **Manual sensitivity** and choose a value between 1 and 20 (higher values indicate increased sensitivity).

Frequency Response

If **DWNE Wide range** is selected, the built-in microphone will respond to a wide range of frequencies, from music to the bustling hum of a city street. Choose **DWNE Vocal range** to bring out human voices.

Wind Noise Reduction

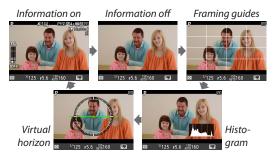
Select **On** to enable the low-cut filter for the built-in microphone (optional stereo microphones are unaffected), reducing noise produced by wind blowing over the microphone (note that other sounds may also be affected). Wind-noise reduction for optional stereo microphones that support this feature can be enabled or disabled using microphone controls.

More on Movies

Read this section for information on functions you may find useful when filming movies.

The Information Display

To hide or display indicators in the monitor, press the monitor.





Indicators

The following indicators appear in the information display in movie mode (in live view and during recording):



- () Headphone volume: Volume of audio output to headphones. Displayed when third-party headphones are connected.
- (2) Microphone sensitivity: Microphone sensitivity.
- ③ Sound level: Sound level for audio recording. Displayed in red if level is too high; adjust microphone sensitivity accordingly.
- (4) Frequency response: The current frequency response.
- (5) Wind noise reduction: Displayed when wind noise reduction is on.
- (6) "No movie" indicator: Indicates that movies can not be recorded.
- 7 Movie frame size: The frame size for movie recording.
- 8 Time remaining: The recording time available for movies.
- (9) Highlight display indicator: Appears when the highlight display is on.
- 10 File name: The file name for the current movie.
- "No power aperture" indicator: Indicates that power aperture is unavailable.
- 12 Electronic VR indicator: Displayed when electronic vibration reduction is on.

File Names

During recording, a new file is created when the current file reaches 4 GB. Normally displayed in white, the file name in the information display flashes amber 30 s and turns red 10 s before a new file is created.

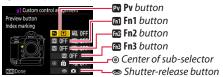


Custom Control Assignments CHECK IT OUT

Use Custom Setting g1 (**Custom control assignment**) to choose the roles played by camera controls during movie recording.

Press

To choose the roles played by the following controls, highlight an option and press the center of the multi selector:



The functions that can be assigned to these controls are:

		PV	Fal	Fn2	Fn3	۲	۲
O	Power aperture (open)	V	—	—	—	—	—
\otimes	Power aperture (close)	—	~	—	—	—	—
₹	Exposure compensation +	~	—	—	—	—	—
	Exposure compensation –	—	V	—	—	—	—
•	Index marking	V	~	~	~	~	—
C 8	View photo shooting info	V	~	~	~	~	—
Å	AE/AF lock					1	
						V	
Ŵ	AE lock only	_	_			~	
	AE lock only AE lock (Hold)		_		_		
				 		~	

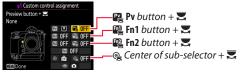
	Pv	11	Fn2	F13	۲	۲
🐙 Record movies				_	_	~
🖷 Live frame grab	—	—	—	—	—	~
None	~	~	~	~	~	—

Power Aperture

Power aperture is available only in exposure modes **A** and **M** and can not be used while photo shooting info is displayed (a **36** icon indicates that power aperture can not be used). The display may flicker while aperture is adjusted.

Press + 🛒

To choose the roles played by the following controls in combination with the command dials, highlight an option and press the center of the multi selector:



Choose from E Choose image area and None. Selecting the former disables the Frame size/frame rate options in the *i*-button (page 23) and movie shooting menus.

Silent Exposure Compensation

At default settings, exposure compensation can be adjusted by pressing the 🛛 button and rotating the main command dial. The sound of the dial may however be audible in the audio recorded with movies.



This can be prevented by using Custom Setting g1 (Custom control assignment) to assign Exposure compensation + to the Pv button and Exposure compensation – to the Fn1 button. Exposure compensation can then be adjusted by pressing and holding one or the other of these buttons instead of rotating the main command dial.

Exposure Lock

To lock exposure when filming in P, S, or A mode or when auto ISO sensitivity control is enabled, assign AE-L lock (Hold) to the center of the sub-selector. Exposure will lock when the center of the sub-selector is pressed and remain locked until it is pressed again. Exposure lock will Center of subselector



not be interrupted if the shutter-release button is pressed all the way down to take photographs during filming.

Starting Recording with the Shutter-Release Button

If **Record movies** is assigned to the shutter-release button and the live view selector is rotated to 课, you can start live view by pressing the shutter-release button halfway and start and end recording by pressing it all the way down. To prevent camera shake, you can mount the camera on a tripod and start and end recording using an optional remote cord (such as the MC-36A or MC-30A) or wireless remote controller (such as the WR-R10/WR-T10).

To prevent unintended operation of the 🖬 button, select **Disable** for Custom Setting f8 (Live view button options).

Choosing a Role for the Fn3 Button

The addition of a customizable **Fn3** button gives you more flexibility in choosing roles for the **Pv**, **Fn1**, and **Fn2** buttons. For example, assigning **Index marking** to the **Fn3** button leaves the **Pv** and **Fn1** buttons free for power zoom or exposure compensation, increasing the control options available.

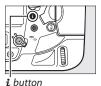
Electronic Vibration Reduction CHECK IT OUT

To enable electronic vibration reduction in movie mode, select **On** for **Electronic VR** in the movie shooting menu. Electronic vibration reduction is best with hand-held cinematography; select **Off** when the camera is on a tripod. Note that if electronic vibration reduction is on, the angle of view will be reduced and the edges of the frame cropped out.

Electronic vibration reduction is not available at frame sizes of 3840×2160 and 1920×1080 crop (page 8). Regardless of the option chosen for Movie ISO sensitivity settings > ISO sensitivity (mode M) in the movie shooting menu (page 10), the upper limit when electronic vibration reduction is on is ISO 102400.

The Movie *i*-Button Menu Pressing the *i* button in movie mode displays the following options:

- **Choose image area**: Choose an image area for movie recording (page 9).
- Frame size/frame rate: Select a frame size and rate (page 8).



- Movie quality: Choose movie quality.
- Frequency response: Control the frequency response of the built-in microphone (page 13).
- Wind noise reduction: Enable or disable wind noise reduction using the built-in microphone's low-cut filter (page 13).
- **Destination**: When two memory cards are inserted, you can choose the card to which movies are recorded.
- Monitor brightness: Press ④ or ⊕ to adjust monitor brightness (note that this affects live view only and has no effect on photographs or movies or on the brightness of the monitor for menus or playback).
- **Highlight display**: Choose whether the brightest areas of the frame (highlights) are shown by slanting lines in the display.
- Headphone volume: Press O or O to adjust headphone volume.
- Electronic VR: Enable or disable electronic vibration reduction in movie mode (page 22).

White Balance

In movie mode, white balance can be set by pressing the **WB** button and rotating a command dial.

The Main Command Dial

Choose a white balance option. The effect can be previewed in the monitor.



The Sub-command Dial

Fine-tune white balance on the amber (A)-blue (B) axis in increments of 0.5.



If **I** (Choose color temp.) is selected for white balance, you can choose a color temperature by pressing the **WB** button and rotating the subcommand dial (adjustments are made in mireds), or enter a color



temperature by pressing and holding the **WB** button and using O and O to highlight digits and O and O to edit.

If **Preset manual** is selected for white balance, you can use the **WB** button and sub-command dial to choose a preset.

Choosing a Picture Control in Live View

To choose a Picture Control in live view, press the **On** (**C**/**?**) button. The effect of the selected control can be previewed in the monitor.

To modify the selected control, press ③.





Photos and Frame Grabs CHECK IT OUT V

You can interrupt filming and take photos without leaving movie mode or take photos at the current frame size while filming (live frame grab).

Taking Photos

In movie mode, photos can be taken by keeping the shutter-release button pressed all the way down (note that photos will not be taken if the camera is unable to focus). If filming is in progress, recording will end and any footage shot to that point will be saved. The photos will have an aspect ratio of 16:9; size varies with the option selected for movie frame size and, in the case of photos taken at frame sizes of 1920 × 1080 and 1280 × 720, with the image area and the option selected for **Image size** > **JPEG/TIFF** in the photo shooting menu.

Frame size	Image area	Image size	Photo size (pixels)
3840 × 2160	_		3840 × 2160
		Large	5568 × 3128
	FX	Medium	4176 × 2344
1920×1080		Small	2784 × 1560
1280×720	1280 × 720	Large	3648 × 2048
	DX	Medium	2736 × 1536
		Small	1824 × 1024
1920 × 1080 crop	-	_	1920 × 1080

Live Frame Grab

If Live frame grab is selected for Custom Setting g1 (Custom control assignment) > Shutter-release button, pressing the shutter-release button all the way down during filming will soundlessly take a photo without ending recording.



Live Frame Grab

Photos are recorded at the current movie frame size (<u>page 8</u>) and are saved at an image quality of JPEG fine★. Only one photo is taken each time the shutter-release button is pressed, regardless of release mode. Up to 50 shots can be taken with each movie; if two memory cards are inserted, photos and movies will be saved to the same card.

Creating Stills from 4K UHD Movies

During movie playback, you can use **Save selected frame** to save selected frames of 4K UHD movies as JPEG images.

Pause playback on the desired frame.

Press 🕞 to pause playback.

Choose Save selected frame. Press *i* or *®*, then highlight Save selected frame and press *®*.

3 Create a still copy. Press [⊕] to create a fine★quality JPEG copy of the current frame. A confirmation dialog will be displayed; highlight Yes and press [⊕].

-Save Selected Frame

Movie stills lack some photo information and can not be retouched.





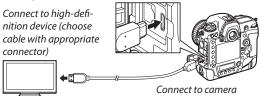


HDMI Output

The camera can be connected to HDMI devices for highdefinition movie playback and recording.

Connecting to an HDMI Device

The camera can be connected to high-definition video devices using an optional High-Definition Multimedia Interface (HDMI) cable or a third-party type C HDMI cable. Always turn the camera off before connecting or disconnecting the cable.

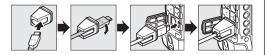


Tune the device to the HDMI input channel, then turn the camera on and press the 🗈 button. During playback, images will be displayed on the television screen. Volume can be adjusted using television controls; the camera controls can not be used.

If the camera is connected to a third-party HDMI video recorder, you can film movies and save them directly to the device even if no memory card is inserted in the camera.

The HDMI Cable Clip -

When using the optional Nikon HDMI cable, attach the supplied clip as shown to prevent accidental disconnection. Do not use cable clips with non-Nikon cables.



HDMI Options

The **HDMI** option in the setup menu controls output resolution and offers a variety of advanced HDMI options.

Output Resolution

Choose the format for images output to the HDMI device. If **Auto** is selected, the camera will automatically select the appropriate format.



Advanced

Selecting Advanced displays the following options:

- Output range: Auto is recommended in most situations. If the camera is unable to determine the correct setting, you can choose an option based on the device's video signal input color range. If the input range is 16 to 235 or contrast is so high that highlights are "washed out" (too bright) and shadows too dark, choose Limited range. Choose Full range if the input range is 0 to 255 or if contrast is so low that shadows are "washed out".
- Output display size: Horizontal and vertical frame coverage for HDMI output can be set to 95% or 100%. Choose 100% when recording video to an external device.
- Live view on-screen display: If Off is selected, the external device will
 not display shooting information during live view photography.
- Dual monitor: Choose On to mirror the HDMI display on the camera monitor, Off to turn the camera monitor off to save power.
 Dual monitor turns on automatically when Live view onscreen display is Off.

Time-Lapse Movies

Time-lapse movies can be created from photos shot using time-lapse photography, the interval timer, or unlimited continuous release. In the first case, the camera generates the movie automatically, while the last two methods require third-party movie-editing software, a powerful computer, and advanced image-processing skills.

Time-Lapse Movie Techniques

The three methods of creating time-lapse movies are compared below.

Interval-Timer Photography

In interval-timer photography, the camera takes photos at preset intervals. Image quality, size, and other settings can be adjusted for exactly the results you want, while shots containing unwanted objects can be edited or deleted. You can create frames for high-quality movies and even (in NEF/RAW format) choose the color temperature.

Time-Lapse Photography

This is the least complicated method: the camera creates movies from photos taken at preset intervals, sparing you the task of splicing the shots together. You are however limited to the frame sizes, bit rates, and quality options available in the **Frame size/frame rate** and **Movie quality** menus and can record movies in MOV format only. In addition, the individual frames that make up the movie are not stored in separate files.

Unlimited Continuous Release

Selecting a shutter speed of 4 s or slower in exposure mode **S** or **M** lets you take an unlimited number of photographs in continuous release mode (G_L , G_H , or Q_C): shooting can continue as long as the battery lasts and there is space on the memory card, regardless of the option selected for Custom Setting d2 (**Max. continuous release**). Although the lack of shutter speeds faster than 4 s limits your choice of subjects, the interval between shots is as short as in normal photography, producing smoother footage of subjects that require exposure times of 4 s or more, such as stars or auroras.

				•
		Interval timer	Time lapse	Continuous
Format	Stills	NEF, JPEG, TIFF	_	NEF, JPEG, TIFF
runnat	Movies		MOV	
Max. fra	nme size	5568 × 3712	3840×2160	5568 × 3712
Time between shots		0.5 s or more	1 s or more	Time selected in G
		0.5 s of more it s of more	or CH mode	
Exposu	re time	1⁄8000-30 s		4–30 s
		Material for	Hassle-free	Material for
Creates		advanced time-	time-lapse	time-lapse movies
Clea	ates	lapse movies and	movies	featuring star trails
		film logs	THOMES	or auroras

Table: Time-Lapse Movie Techniques Compared

Filming 4K UHD Time-Lapse Movies

Filming 4K UHD time-lapse movies is simple: just select a frame size of 3840×2160 for **Frame size/frame rate** in the movie shooting menu and then follow the steps below. The crop (page 9) is the same as for 4K UHD movies.

- Adjust time-lapse movie settings. Select Time-lapse movie in the movie shooting menu and adjust the following settings:
 - Interval: The interval (in minutes and seconds) should be longer than the slowest anticipated shutter speed.



 Time-lapse movie

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Highlight Interval and press ().

press ®.

• Shooting time: The total shooting time (in hours and minutes) can be up to 7 hours and 59 minutes.



 Exposure smoothing: Select On to smooth abrupt changes in exposure in modes other than M (note that exposure smoothing only takes effect in mode M if auto ISO sensitivity control is enabled in the photo shooting menu).



Highlight Exposure **smoothing** and press **()**.



Highlight an option and press ®.



Start shooting.

Highlight Start and press . After about 3 s, shooting will start and the camera will take photographs at the selected interval for the selected shooting time. To end shooting early and cre-



ate a time-lapse movie from the frames shot to that point, highlight Off in the time-lapse movie menu and press ®, or press ® between frames or immediately after a frame is recorded.

Some things to note when filming:

Restrictions on Available Settings

The exposure settings available in movie mode (in live view or during recording) vary with the exposure mode selected.

	Aperture	Shutter speed	ISO sensitivity
P, S			1,2
A	V		1,2
М	v	v	✓ 2, 3

 The upper limit for ISO sensitivity can be selected using the Movie ISO sensitivity settings > Maximum sensitivity option in the movie shooting menu (page 10).

- The upper limit when **On** is selected for **Electronic VR** in the movie shooting menu is ISO 102400.
- If On is selected for Movie ISO sensitivity settings > Auto ISO control (mode M) in the movie shooting menu, the upper limit for ISO sensitivity can be selected using the Maximum sensitivity option.

Keeping the Camera Cool

If live view is used continuously for extended periods, the camera's internal temperature will rise, causing noise (bright spots, randomly-spaced bright pixels, or fog) to appear in images. Use live view only when taking pictures. Note that live view does not end when menus are displayed; unless you intend to resume shooting immediately, exit live view before using the menus.

Image Artifacts

Flicker, banding, or distortion may be visible in the monitor and in the final movie under fluorescent, mercury vapor, or sodium lamps, when power aperture is in use, or if the camera is panned horizontally or an object moves at high speed through frame. Jagged edges, color fringing, moiré, and bright spots may also appear. Bright areas or bands may appear with flashing signs and other intermittent light sources or if the subject is briefly illuminated by a strobe or other bright, momentary light source. Noise (randomly-spaced bright pixels, fog, or lines) and unexpected colors may be more noticeable if you zoom in on the view through the lens during live view.

The **Flicker reduction** option in the movie shooting menu can be used to reduce flicker under fluorescent, mercury vapor, or sodium lamps. The desired results may not be obtained if the subject is very bright, in which case you should try a smaller aperture (higher f-number).

Ending Recording

If the maximum length is reached, the memory card fills, the battery runs low, the live view selector is rotated to **C**, the lens is removed, or the camera overheats, filming will end automatically and all footage shot to that point will be saved. No movie will be recorded if the battery is removed during filming.

Some tips for viewing movies:

Ten-Second Advance/Rewind Rotate the main command dial one click to advance or rewind 10 seconds.



Skipping to an Index or the Last/First Frame

If you added index markers during recording, you can skip to the next or previous index frame by rotating the sub-command dial during playback. If there are no intervening index markers, the sub-command dial will take you to the last or first frame.



-Index Marking -

If **Index marking** is assigned to a control using Custom Setting g1 (**Custom controlassignment**, page 18), you can press the selected control during recording to add indices that can be used to locate frames during editing



and playback. Up to 20 indices can be added to each movie.

Using the Touch Screen

The touch screen offers the following movie playback controls:

Play/Pause/Resume

Tap the D icon to start playback and tap the monitor to pause or resume.

Skip

Tap the progress bar to skip to the selected position and pause playback. You may find this useful when attempting to find a specific scene in a long movie.

Volume Control

Tap the 🕬 or ♥ icon during playback to adjust the volume.







Joining Movie Files Together CHECKITOUT

Each movie recorded with the D5 may consist of up to 8 files of up to 4 GB in size. These files can be joined together in ViewNX-i.



Select the files in the movie. Right-click any of the files in the movie and choose Select Set of Continuous Movies to select all the movie's component files.



Launch ViewNX-Movie Editor.

Click the 👰 (movie) button to launch ViewNX-Movie Editor.



Click Combine movies. The options at right will be displayed. Click Combine Movies.



A Save the movie.

Choose a destination and file name and click Output.

Output I	Movie
Sett	ings
	Quick ~
	Combine movies faster.
	Format: Recorded Value
	Size: Recorded Value
	Frame rate: Recorded Value
Save	e to:
	C/Users/user/Wideos Browse_
File	name
	MOVIE_0219
	Output Quit

D5 Movie Specifications

Image sensor			
Image sensor	35.9×23.9 mm (MOS sensor		
Total pixels	71.33 million		
· ·			
Dust-reduction	Image sensor cleaning, Image Dust Off reference data (Capture		
system	NX-D software required)		
Storage			
Media	 Models for use with XQD cards: XQD cards 		
	 Models for use with CompactFlash cards: Type I Com- 		
	pactFlash memory cards (UDMA7 compliant)		
Movies			
Metering	TTL exposure metering using main image sensor		
Metering method	Matrix, center-weighted, or highlight-weighted		
Frame size (pixels)	• 3840 × 2160 (4K UHD); 30p (progressive), 25p, 24p		
and frame rate	 1920 × 1080; 60p, 50p, 30p, 25p, 24p 		
	 1920 × 1080 crop; 60p, 50p, 30p, 25p, 24p 		
	 1280 × 720; 60p, 50p 		
	Actual frame rates for 60p, 50p, 30p, 25p, and 24p are		
	59.94, 50, 29.97, 25, and 23.976 fps respectively; ★ high		
	quality available at all frame sizes, normal quality available		
	at all sizes except 3840×2160		
Bit rate	• 3840 × 2160 (4K UHD): 144 Mbps		
	• 1920 × 1080 60p/50p ★ high: 48 Mbps		
	• 1920 × 1080 60p/50p normal: 24 Mbps		
	• 1920 × 1080 30p/25p/24p ★ high: 24 Mbps		
	• 1920 × 1080 30p/25p/24p normal: 12 Mbps		
	• 1920 × 1080 crop ★ high: 24 Mbps		
	• 1920 × 1080 crop normal: 12 Mbps		

Movies	
Sampling rate	Internal storage: 4:2:0, 8 bit
	• HDMI output: 4: 2: 2, 8 bit
File format	MOV
Video compression	H.264/MPEG-4 Advanced Video Coding
Audio recording format	48 kHz, 16-bit linear PCM
Audio recording device	Built-in stereo microphone; external microphone (imped- ance 2.2K Ω); sensitivity adjustable
ISO sensitivity	 Exposure mode M: Auto ISO sensitivity control (ISO 100 to Hi 5) available with selectable upper limit; manual selection (ISO 100 to 102400 in steps of ¼, ½, or 1 EV) with additional options available equivalent to approximately 0.3, 0.5, 0.7, 1, 2, 3, 4, or 5 EV (ISO 3280000 equivalent) above ISO 102400 Exposure modes P, S, and A: Auto ISO sensitivity control (ISO 100 to Hi 5) with selectable upper limit
Other options	Index marking, time-lapse movies, electronic vibration reduction
White balance	Same as photo settings, auto (3 types), incandescent, fluorescent (7 types), direct sunlight, cloudy, shade, preset manual (up to 6 values can be stored, spot white balance measurement available during live view), choose color temperature (2500 K–10000 K), all with fine-tuning.
Picture Control	
Picture Control System	Same as photo settings, Standard, Neutral, Vivid, Mono- chrome, Portrait, Landscape, Flat; selected Picture Control can be modified; storage for custom Picture Controls

Monitor	8-cm/3.2-in., approx. 2359k-dot (XGA) TFT touch-sensitive LCD with 170 ° viewing angle, approximately 100% frame coverage, and manual monitor brightness control
Interface	
USB	SuperSpeed USB (USB 3.0 Micro-B connector); connection to built-in USB port is recommended
HDMI output	Type C 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)
Power source	
Battery	One rechargeable Li-ion EN-EL18a battery
AC adapter	EH-6b AC adapter; requires EP-6 power connector (available separately)
Tripod socket	¼ in. (ISO 1222)