Interchangeable Lens Digital Camera
ILCE-7SM3 Description for DCI 4K / 24.00p add-on

This “Help Guide” is for users of the “DCI 4K / 24.00p Upgrade License” and only describes items related to the additional functions.
The upgrade license can be downloaded from the following website:
https://www.sony.net/cameraupgrade/dci4k/

ILCE-7SM3: Help Guide

For details on other functions or how to use the camera, refer to the “Help Guide” at this link.

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Memory cards that can be used

This camera supports CFexpress Type A memory cards and SD memory cards (UHS-I, UHS-II compatible).
When using microSD memory cards with this camera, be sure to use the appropriate adaptor.

For still-image shooting

The following memory cards can be used.

- CFexpress Type A memory cards
- SD/SDHC/SDXC memory cards

For movie recording

Movie recording formats and compatible memory cards are as follows.

File Format	Maximum recordable bit rate when recording	Supported memory card
XAVC HS 4K	280Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V60 or higher
XAVC S 4K	280Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V60 or higher
XAVC S HD	100Mbps	• CFexpress Type A memory card • SDHC/SDXC card (U3 or higher)
XAVC S-I 4K	600Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V90 or higher
XAVC S-I HD	222Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V90 or higher
XAVC S-I DCI 4K	600Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V90 or higher

For S&Q Motion shooting

File formats and compatible memory cards are as follows.
In slow-motion recording, the recording bit rate is higher than usual. You may need a memory card that can be written at a higher speed.

File Format	Maximum recordable bit rate when recording	Supported memory card
XAVC HS 4K	500Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V60 or higher *1
XAVC S 4K	560Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V60 or higher *1
XAVC S HD	500Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V60 or higher *2
XAVC S-I 4K	1200Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V90 or higher *3
XAVC S-I HD	890Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V90 or higher *4
XAVC S-I DCI 4K	600Mbps	• CFexpress Type A memory card (VPG200 or higher) • SDXC V90 or higher *3

*1 When [S&Q Frame Rate] is set to [120fps]/[100fps], V90 may be required.
*2 When [S&Q Frame Rate] is set to [240fps]/[200fps], V90 may be required.
*3 For slow-motion recording, a CFexpress Type A memory card (VPG200 or higher) is required.
*4 When [S&Q Frame Rate] is set to [240fps]/[200fps], a CFexpress Type A memory card (VPG200 or higher) is required.

Hint

- When the recording bit-rate is 200 Mbps, you can also record using an SDXC card (U3/V30).

Note

- For proxy recording, a faster memory card may be required.
- CFexpress Type B memory cards cannot be used.
- When an SDHC memory card is used to record movies over extended periods of time, the recorded movies are divided into files 4 GB in size.
- When recording a movie on memory cards in both the Slot 1 and the Slot 2, insert two memory cards with the same file system. Movies cannot be recorded simultaneously when using a combination of the exFAT file system and FAT32 file system.

Memory card	File system
CFexpress Type A memory card, SDXC memory card	exFAT
SDHC memory card	FAT32

- Charge the battery pack sufficiently before attempting to recover the database files on the memory card.

Related Topic

- Recordable movie times
- S&Q Settings

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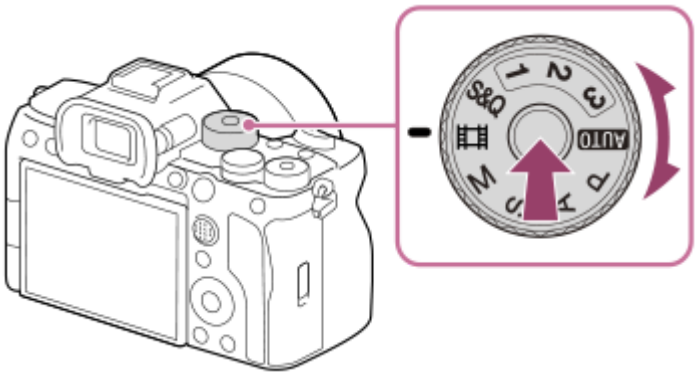
Shooting movies

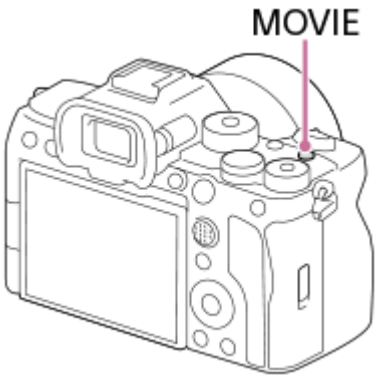
You can set the recording format and exposure and record movies by using the dedicated menu items for movies.

1 Set the mode dial to (Movie).



- Turn the mode dial while pressing the mode dial lock release button in the center of the mode dial.

2 Press the MOVIE (Movie) button to start recording.



3 Press the MOVIE button again to stop recording.

To shoot with the touch function icons

You can also start shooting by touching an icon on the screen instead of pressing the MOVIE (movie) button. Swipe the monitor left or right to display the touch function icons, and then touch the (start recording) icon. You can view the captured image by touching the (switch to playback screen) icon.

To select the recording format (File Format)

The resolution and degree of compatibility vary depending on the recording format (XAVC HS 4K/XAVC S 4K/XAVC S HD/XAVC S-I 4K/XAVC S-I HD/XAVC S-I DCI 4K). Select the format in accordance with the purpose of the movie to be shot.

To select the frame rate or image quality (Movie Settings)

The frame rate determines the smoothness of motion in movies. ([Movie Settings] → [Rec Frame Rate])

The image quality changes with the bit rate. ([Movie Settings] → [Record Setting])
If the bit rate is high, the amount of information will increase and you can shoot high-quality movies. However, this will result in a larger volume of data.
Select the frame rate and bit rate according to your preference and purpose.

To adjust the exposure (Exposure Ctrl Type/Exposure mode)

When [Exposure Ctrl Type] is set to [P/A/S/M Mode], select the exposure mode using the shutter speed and aperture value combination in the same way as when shooting a still image.
When [Exposure Ctrl Type] is set to [Flexible Exp. Mode], you can set the shutter speed, aperture value, and ISO sensitivity automatically or manually.

To select the focusing method (Focus Mode/ Focus Area)

Select AF-C (Continuous AF) or MF (Manual Focus) for [Focus Mode]. You can specify the focus area by setting [Focus Area].

Even during shooting with manual focus, you can temporarily switch to auto focus in the following ways.

- Press the custom key to which [AF On] is assigned, or press the shutter button halfway.
- Press the custom key to which [Eye AF] is assigned.
- Touch the subject on the monitor. (when [Touch Func. in Shooting] under [Shooting Screen] is set to [Touch Focus] or [Touch Tracking])

To record movie audio in 4 channels

Attach a genuine Sony accessory that supports 4-channel and 24-bit audio recording to the Multi Interface Shoe of the camera.

Hint

- You can also assign the start/stop movie recording function to a preferred key.
- You can focus quickly while shooting movies by pressing the shutter button halfway down. (The sound of auto focus operation may be recorded in some cases.)
- You can change the settings for ISO sensitivity, exposure compensation, and focus area while shooting movies.
- The sounds of the camera and lens in operation may be recorded during movie shooting. To prevent sounds from being recorded, set [Audio Recording] to [Off].
- To prevent the operating sound of the zoom ring from being recorded when a power zoom lens is used, we recommend recording movies using the zoom lever of the lens. When moving the zoom lever of the lens, be careful not to flip the lever.
- When [Auto Power OFF Temp.] is set to [High], the camera can continue movie recording even when the temperature of the camera becomes high.

Note

- An icon indicating that data is being written is displayed after shooting. Do not remove the memory card while the icon is displayed.
- You cannot start recording a movie while writing data. Wait until data writing is completed and “STBY” is displayed before recording a movie.
- When playing back an XAVC S-I DCI 4K movie recorded with this camera on another camera of the same model, check the system software (firmware) version and the license of the camera. If the system software version is earlier than Ver.3.00 or the license has not been added to the camera, XAVC S-I DCI 4K movies cannot be played back.
- If the (Overheating warning) icon appears, the temperature of the camera has risen. Turn the power off and cool the camera and wait until the camera is ready to shoot again.
- The temperature of the camera tends to rise when shooting movies continuously, and you may feel that the camera is warm. This is not a malfunction. Also, [Internal temp. high. Allow it to cool.] may appear. In such cases, turn the power off and cool the camera and wait until the camera is ready to shoot again.

- For the continuous shooting time of a movie recording, refer to “Recordable movie times.” When movie recording is finished, you can record another movie by pressing the MOVIE button again. Recording may stop to protect the product, depending on the temperature of the product or the battery.
- Still images cannot be captured during movie recording.

Related Topic

- File Format (movie)
- Movie Settings (movie)
- Recordable movie times

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File Format (movie)

Selects the movie file format.

1 **MENU → (Shooting) → [Image Quality/Rec] → [File Format] → desired setting.**

Menu item details

File Format	Characteristics
XAVC HS 4K	Records 4K movies in the XAVC HS format. The XAVC HS format uses the HEVC codec, which has high compression efficiency. The camera can record movies with higher image quality than XAVC S movies but the same data volume. Long GOP compression is used for movies.
XAVC S 4K	Records movies in 4K resolution (3840×2160). Long GOP compression is used for movies.
XAVC S HD	Records movies in HD resolution (1920×1080). Long GOP compression is used for movies.
XAVC S-I 4K	Records movies in the XAVC S-I format. The XAVC S-I format uses Intra compression for movies. This format is more suitable for editing than Long GOP compression.
XAVC S-I HD	Records movies in the XAVC S-I format. The XAVC S-I format uses Intra compression for movies. This format is more suitable for editing than Long GOP compression.
XAVC S-I DCI 4K	Records movies in the XAVC S-I format with DCI 4K resolution (4096×2160). The XAVC S-I format uses Intra compression for movies. This format is more suitable for editing than Long GOP compression.

- Intra/Long GOP is a movie compression format. Intra compresses the movie by frame, and Long GOP compresses multiple frames. Intra compression has better response and flexibility when editing, but Long GOP compression has better compression efficiency.

Note

- To play back XAVC HS 4K movies on a smartphone or computer, you need a device or software with high processing capability that supports the HEVC codec.
- When recording 4K movies, [APS-C S35 Shooting] becomes disabled and locked to [Off].
- If an APS-C size dedicated lens is attached, the edges of the screen may appear dark. When recording 4K movies with this camera, we recommend using a lens compatible with the 35 mm full-frame format.

Related Topic

- Memory cards that can be used

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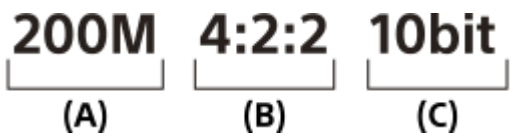
Movie Settings (movie)

Sets the frame rate, bit rate, color information, etc.

1. **MENU → (Shooting) → [Image Quality/Rec] → [Movie Settings] → [Rec Frame Rate] → desired setting.**

2. **MENU → (Shooting) → [Image Quality/Rec] → [Movie Settings] → [Record Setting] → desired setting.**

   Example of setting values

   (A): Bit rate
   (B): Color sampling
   (C): Bit depth

   - The higher the bit rate, the higher the image quality.
   - Color sampling (4:2:2, 4:2:0) is the recording ratio of color information. The more uniform this ratio is, the better the color reproducibility, and it is possible to remove colors neatly even when compositing using a green screen.
   - Bit depth represents the gradation of luminance information. When the bit depth is 8 bits, 256 levels of gradation can be obtained. When the bit depth is 10 bits, 1024 levels of gradation can be obtained. A larger value enables smoother expression from dark to bright areas.
   - [4:2:2 10 bit] is a setting that assumes that the recorded movie will be edited on a computer. The playback environment for [4:2:2 10 bit] is limited.

Menu item details

When [File Format] is set to [XAVC HS 4K]

Rec Frame Rate	Record Setting	Size	Movie compression format
60p/50p	200M 4:2:2 10bit	3840×2160	Long GOP
60p/50p	150M 4:2:0 10bit	3840×2160	Long GOP
60p/50p	100M 4:2:2 10bit	3840×2160	Long GOP
60p/50p	75M 4:2:0 10bit	3840×2160	Long GOP
60p/50p	45M 4:2:0 10bit	3840×2160	Long GOP
24p*	100M 4:2:2 10bit	3840×2160	Long GOP
24p*	100M 4:2:0 10bit	3840×2160	Long GOP

Rec Frame Rate	Record Setting	Size	Movie compression format
24p*	50M 4:2:2 10bit	3840×2160	Long GOP
24p*	50M 4:2:0 10bit	3840×2160	Long GOP
24p*	30M 4:2:0 10bit	3840×2160	Long GOP
120p/100p	280M 4:2:2 10bit	3840×2160	Long GOP
120p/100p	200M 4:2:0 10bit	3840×2160	Long GOP

* Only when [NTSC/PAL Selector] is set to NTSC.

When [File Format] is set to [XAVC S 4K]

Rec Frame Rate	Record Setting	Size	Movie compression format
60p/50p	200M 4:2:2 10bit	3840×2160	Long GOP
60p/50p	150M 4:2:0 8bit	3840×2160	Long GOP
30p/25p	140M 4:2:2 10bit	3840×2160	Long GOP
30p/25p	100M 4:2:0 8bit	3840×2160	Long GOP
30p/25p	60M 4:2:0 8bit	3840×2160	Long GOP
24p*	100M 4:2:2 10bit	3840×2160	Long GOP
24p*	100M 4:2:0 8bit	3840×2160	Long GOP
24p*	60M 4:2:0 8bit	3840×2160	Long GOP
120p/100p	280M 4:2:2 10bit	3840×2160	Long GOP
120p/100p	200M 4:2:0 8bit	3840×2160	Long GOP

* Only when [NTSC/PAL Selector] is set to NTSC.

When [File Format] is set to [XAVC S HD]

Rec Frame Rate	Record Setting	Size	Movie compression format
60p/50p	50M 4:2:2 10bit	1920×1080	Long GOP
60p/50p	50M 4:2:0 8bit	1920×1080	Long GOP
60p/50p	25M 4:2:0 8bit	1920×1080	Long GOP
30p/25p	50M 4:2:2 10bit	1920×1080	Long GOP
30p/25p	50M 4:2:0 8bit	1920×1080	Long GOP
30p/25p	16M 4:2:0 8bit	1920×1080	Long GOP
24p*	50M 4:2:2 10bit	1920×1080	Long GOP
24p*	50M 4:2:0 8bit	1920×1080	Long GOP

Rec Frame Rate	Record Setting	Size	Movie compression format
120p/100p	100M 4:2:0 8bit	1920×1080	Long GOP
120p/100p	60M 4:2:0 8bit	1920×1080	Long GOP

* Only when [NTSC/PAL Selector] is set to NTSC.

When [File Format] is set to [XAVC S-I 4K]

Rec Frame Rate	Record Setting	Size	Movie compression format
60p/50p	600M 4:2:2 10bit/500M 4:2:2 10bit	3840×2160	Intra
30p/25p	300M 4:2:2 10bit/250M 4:2:2 10bit	3840×2160	Intra
24p*	240M 4:2:2 10bit	3840×2160	Intra

* Only when [NTSC/PAL Selector] is set to NTSC.

When [File Format] is set to [XAVC S-I DCI 4K]

Rec Frame Rate	Record Setting	Size	Movie compression format
60p/50p	600M 4:2:2 10bit/500M 4:2:2 10bit	4096×2160	Intra
30p/25p	300M 4:2:2 10bit/250M 4:2:2 10bit	4096×2160	Intra
24p*	240M 4:2:2 10bit	4096×2160	Intra
24.00p	240M 4:2:2 10bit	4096×2160	Intra

* Only when [NTSC/PAL Selector] is set to NTSC.

When [File Format] is set to [XAVC S-I HD]

Rec Frame Rate	Record Setting	Size	Movie compression format
60p/50p	222M 4:2:2 10bit/185M 4:2:2 10bit	1920×1080	Intra
30p/25p	111M 4:2:2 10bit/93M 4:2:2 10bit	1920×1080	Intra
24p*	89M 4:2:2 10bit	1920×1080	Intra

* Only when [NTSC/PAL Selector] is set to NTSC.

Note

- Recording frame rates are indicated as the closest integer values. The actual corresponding frame rates are as follows: 24p: 23.98 fps, 30p: 29.97 fps, 60p: 59.94 fps, and 120p: 119.88 fps.
- While [File Format] is set to [XAVC S-I DCI 4K], the following operations will restart the camera.
  - Switching [Rec Frame Rate] between [24.00p] and a setting other than [24.00p]
  - Switching the shooting mode between the still image shooting mode and the movie recording mode when [Rec Frame Rate] is set to [24.00p]

Related Topic

- File Format (movie)

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S&Q Settings

You can record a moment that cannot be captured by the naked eye (slow-motion recording), or record a long-term phenomenon into a compressed movie (quick-motion recording). For example, you can record an intense sports scene, the moment when a bird starts to fly, a blooming flower, and a changing view of clouds or a starry sky. Sound will not be recorded.

1. **Set the mode dial to S&Q (S&Q Motion).**
2. **Select MENU → (Shooting) → [Shooting Mode] → [S&Q Exposure Mode] → and select the desired setting of slow-motion/quick-motion (Program Auto, Aperture Priority, Shutter Priority, or Manual Exposure).**
3. **Select MENU → (Shooting) → [Image Quality/Rec] → [S&Q S&Q Settings] → Select an item to set, and then select the desired setting.**
4. **Press the MOVIE (movie) button to start recording.**
   - Press the MOVIE button again to stop recording.

Menu item details

S&Q Frame Rate Settings:
Selects the frame rate of the movie and the shooting frame rate.

S&Q Record Setting:
Selects the bit rate, color sampling, and bit depth of the movie.

- The [S&Q Rec Frame Rate] that can be set for [S&Q Frame Rate Settings] and the values that can be set for [S&Q Record Setting] are the same as the setting values for [Movie Settings].
- The format of the recorded movie will be the same as the [File Format] setting.

Playback speed when [S&Q Rec Frame Rate] is set to [24.00p]

You can select the frame rates listed below only when [File Format] is set to [XAVC S-I DCI 4K].

S&Q Frame Rate	S&Q Rec Frame Rate: 24.00p
48fps	2 times slower
24fps	Normal playback speed
12fps	2 times quick
6fps	4 times quick

S&Q Frame Rate	S&Q Rec Frame Rate: 24.00p
3fps	8 times quick
2fps	12 times quick
1fps	24 times quick

Playback speed when [S&Q Rec Frame Rate] is set to a rate other than [24.00p]

The playback speed will vary as below depending on the value set for [S&Q Frame Rate Settings].

When [NTSC/PAL Selector] is set to NTSC

S&Q Frame Rate	S&Q Rec Frame Rate: 24p	S&Q Rec Frame Rate: 30p	S&Q Rec Frame Rate: 60p	S&Q Rec Frame Rate: 120p
240fps	10 times slower	8 times slower	4 times slower	2 times slower
120fps	5 times slower	4 times slower	2 times slower	Normal playback speed
60fps	2.5 times slower	2 times slower	Normal playback speed	2 times quick
30fps	1.25 times slower	Normal playback speed	2 times quick	4 times quick
15fps	1.6 times quick	2 times quick	4 times quick	8 times quick
8fps	3 times quick	3.75 times quick	7.5 times quick	15 times quick
4fps	6 times quick	7.5 times quick	15 times quick	30 times quick
2fps	12 times quick	15 times quick	30 times quick	60 times quick
1fps	24 times quick	30 times quick	60 times quick	120 times quick

When [NTSC/PAL Selector] is set to PAL

S&Q Frame Rate	S&Q Rec Frame Rate: 25p	S&Q Rec Frame Rate: 50p	S&Q Rec Frame Rate: 100p
200fps	8 times slower	4 times slower	2 times slower
100fps	4 times slower	2 times slower	Normal playback speed
50fps	2 times slower	Normal playback speed	2 times quick
25fps	Normal playback speed	2 times quick	4 times quick
12fps	2.08 times quick	4.16 times quick	8.33 times quick
6fps	4.16 times quick	8.33 times quick	16.66 times quick
3fps	8.33 times quick	16.66 times quick	33.33 times quick
2fps	12.5 times quick	25 times quick	50 times quick

S&Q Frame Rate	S&Q Rec Frame Rate: 25p	S&Q Rec Frame Rate: 50p	S&Q Rec Frame Rate: 100p
1fps	25 times quick	50 times quick	100 times quick

- [240fps]/[200fps] cannot be selected when [File Format] is set to following items:
  - XAVC HS 4K
  - XAVC S 4K
  - XAVC S-I 4K
  - XAVC S-I DCI 4K
- [120fps]/[100fps] cannot be selected when [File Format] is set to [XAVC S-I DCI 4K].

Hint

- For an estimation of recordable time, refer to “Recordable movie times.”

Note

- In slow-motion/quick-motion recording, the actual shooting time differs from the time recorded in the movie. The recordable time displayed toward the top of the monitor shows the remaining recording time for the movie, not the remaining recording time on the memory card.
- In slow-motion recording, the shutter speed becomes faster and you may not be able to obtain the proper exposure. If this happens, decrease the aperture value or set the ISO sensitivity to a higher value.
- During slow-motion/quick-motion recording, the following functions are not available.
  - [Time Code Run] under [TC/UB]
  - [Time Code Output] under [HDMI Output Settings]
- While [File Format] is set to [XAVC S-I DCI 4K], the following operations will restart the camera.
  - Switching [S&Q Rec Frame Rate] between [24.00p] and a setting other than [24.00p]
  - Switching the shooting mode between the still image shooting mode and the slow-motion/quick-motion recording mode when [S&Q Rec Frame Rate] is set to [24.00p]

Related Topic

- Recordable movie times
- Memory cards that can be used

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Marker Display (movie)

While shooting movies, you can set whether or not to display markers on the monitor or the viewfinder, and select the types of marker.

1. **MENU → (Shooting) → [Marker Display] → Select a menu item and set the desired parameter.**

Menu item details

Marker Display:
Sets whether or not to display markers. ([On] / [Off])

Center Marker:
Sets whether or not to display the center marker in the middle of the shooting screen. ([Off] / [On])

Aspect Marker:
Sets the aspect marker display. ([Off] / [4:3] / [13:9] / [14:9] / [15:9] / [16:9] / [1.66:1] / [1.85:1] / [2.35:1])

Safety Zone:
Sets the safety zone display. This becomes the standard range that can be received by a general household TV. ([Off] / [80%] / [90%])

Guideframe:
Sets whether or not to display the guide frame. You can verify whether the subject is level or perpendicular to the ground. ([Off] / [On])

Hint

- You can display several markers at the same time.
- Position the subject at the cross point of [Guideframe] to ensure a balanced composition.

Note

- The markers are displayed when the mode dial is set to (Movie) or S&Q (S&Q Motion), or when shooting movies.
- You cannot display markers when using [Focus Magnifier].
- The markers are displayed on the monitor or viewfinder. (You cannot output the markers.)

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TC/UB

The time code (TC) and the user bit (UB) information can be recorded as data attached to movies.

1 MENU → (Shooting) → [TC/UB] → Select a menu item and set the desired parameter.

Menu item details

Time Code Preset:
Sets the time code.

User Bit Preset:
Sets the user bit.

Time Code Format:
Sets the recording method for the time code. (Only when [NTSC/PAL Selector] is set to NTSC.)

Time Code Run:
Sets the count up format for the time code.

Time Code Make:
Sets the recording format for the time code on the recording medium.

User Bit Time Rec:
Sets whether or not to record the time as a user bit.

How to set the time code (Time Code Preset)

1. MENU → (Shooting) → [TC/UB] → [Time Code Preset].
2. Turn the control wheel and select the first two digits.
   - The time code can be set between the following range.
     When [60p] is selected: 00:00:00.00 to 23:59:59.29
     * When [24p]/[24.00p] is selected, you can select the last two digits of the time code in multiples of four from 00 to 23 frames.
       When [50p] is selected: 00:00:00.00 to 23:59:59.24
3. Set the other digits following the same procedure as in step 2, then press in the center of the control wheel.

How to reset the time code

1. MENU → (Shooting) → [TC/UB] → [Time Code Preset].
2. Press the (Delete) button to reset the time code (00:00:00.00).

How to set the user bit (User Bit Preset)

1. MENU → (Shooting) → [TC/UB] → [User Bit Preset].
2. Turn the control wheel and select the first two digits.
3. Set the other digits following the same procedure as in step 2, then press in the center of the control wheel.

How to reset the user bit

1. MENU → (Shooting) → [TC/UB] → [User Bit Preset].
2. Press the (Delete) button to reset the user bit (00 00 00 00).

How to select the recording method for the time code (Time Code Format [*1])

1. MENU → (Shooting) → [TC/UB] → [Time Code Format].

DF:

Records the time code in Drop Frame[*2] format.

NDF:

Records the time code in Non-Drop Frame format.

*1 Only when [NTSC/PAL Selector] is set to NTSC.

*2 The time code is based on 30 frames per second. However, a gap between the actual time and the time code will occur during extended periods of recording as the frame frequency of the NTSC image signal is approximately 29.97 frames per second. Drop frame corrects this gap to make the time code and actual time equal. In drop frame, the first 2 frame numbers are removed every minute except for every tenth minute. The time code without this correction is called non-drop frame.

- The setting is fixed to [-] when recording in 24p/24.00p.

How to select the count up format for the time code (Time Code Run)

1. MENU → (Shooting) → [TC/UB] → [Time Code Run].

Rec Run:

Sets the stepping mode for the time code to advance only while recording. The time code is recorded sequentially from the last time code of the previous recording.

Free Run:

Sets the stepping mode for the time code to advance anytime, regardless of the camera operation.

- The time code may not be recorded sequentially in the following situations even when the time code advances in [Rec Run] mode.
  - When the recording format is changed.
  - When the recording medium is removed.

How to select how the time code is recorded (Time Code Make)

1. MENU → (Shooting) → [TC/UB] → [Time Code Make].

Preset:

Records the newly set time code on the recording medium.

Regenerate:

Reads the last time code for the previous recording from the recording medium and records the new time code consecutively from the last time code. The time code advances in the [Rec Run] mode regardless of the [Time Code Run] setting.

The time code is read from the memory card in the slot designated by [Recording Media] under [Rec. Media Settings]. When [Recording Media] is set to [Simult. Recording], the time code is read from the memory card in Slot 1.

How to match the time code with other devices

Connect to another device such as a camcorder using an adapter cable (sold separately), and then set [Time Code Make] to [Preset] and [Time Code Run] to [Free Run].

Note

- Updating the camera's system software will reset the time code. Set the time code again.

HDMI Output Settings (movie)

Sets the video and audio to be output to an external recorder/player connected via HDMI when shooting a movie.
Use a Premium High Speed HDMI Cable (sold separately) to output 4K movies or RAW movies.

1 **MENU → (Setup) → [External Output] → [HDMI Output Settings] → desired setting item.**

Menu item details

Rec. Media dur HDMI Output:

Sets whether or not to record movies on the memory card of the camera during HDMI output.

[On]: Records movies on the memory card of the camera, and outputs the movies to the HDMI-connected device at the same time. The color depth for the output movie is based on [Record Setting] under [Movie Settings].

[Off(HDMI Only)]: Does not record movies on the memory card of the camera, and outputs movies only to devices connected via HDMI.

Output Resolution:

Sets the resolution of the image that will be output to another device connected via HDMI when [Rec. Media dur HDMI Output] is set to [On] and [RAW Output] is set to [Off]. ([Auto] / [2160p] / [1080p] / [1080i])

4K Output Set.(HDMI Only):

Sets the frame rate and color depth of 4K movie output to another device connected via HDMI when [Rec. Media dur HDMI Output] is set to [Off(HDMI Only)] and [RAW Output] is set to [Off]. ([60p 10bit] / [50p 10bit] / [30p 10bit] / [25p 10bit] / [24p 10bit] / [24.00p 10bit])

RAW Output:

Sets whether or not to output RAW movies to another RAW-compatible device connected via HDMI. ([On] / [Off])

RAW Output Setting:

Sets the frame rate when outputting RAW movies to another RAW-compatible device connected via HDMI. ([60p] / [50p] / [30p] / [25p] / [24p] / [24.00p])

Color Gamut for RAW Output:

Sets the color gamut when outputting RAW movies to another RAW-compatible device connected via HDMI. ([S-Gamut3.Cine/S-Log3] / [S-Gamut3/S-Log3])

Time Code Output:

Sets whether or not to output the time code and user bit to another device connected via HDMI. ([On] / [Off])

Time code information is transmitted as digital data, not as an image displayed on the screen. The connected device can then refer to the digital data in order to recognize the time data.

REC Control:

Sets whether to start or stop recording on the external recorder/player remotely by operating the camera when the camera is connected to an external recorder/player. ([On] / [Off])

4ch Audio Output:

When recording audio in 4 channels, set the combination of audio channels that will be output to other devices connected via HDMI.

[CH1/CH2]: Outputs audio from channel 1 to the L (left) side and from channel 2 to the R (right) side.

[CH3/CH4]: Outputs audio from channel 3 to the L (left) side and from channel 4 to the R (right) side.

Hint

- With [REC Control] set to [On], STBY (STBY) is displayed when a recording command is ready to be sent to the external recorder/player, and REC (REC) is displayed when a recording command is being sent to the external recorder/player.
- Even when playing back a movie with 4 channels on a device connected to the HDMI terminal of the camera, the audio is output with the [4ch Audio Output] setting.

Note

- RAW movies cannot be recorded on the memory card of the camera.
- During slow-motion/quick-motion shooting, [Rec. Media dur HDMI Output] is locked to [On] and [RAW Output] is locked to [Off]. It is not possible to only output 4K movies to a device connected via HDMI without recording the movies on a memory card. It is also not possible to output RAW movies.
- When [Rec. Media dur HDMI Output] is set to [Off(HDMI Only)] or the camera outputs RAW movies, [HDMI Info. Display] becomes temporarily set to [Off].
- When [Rec. Media dur HDMI Output] is set to [Off(HDMI Only)], the counter does not move forward (the actual recording time is not counted) while the movie is being recorded on an external recorder/player.
- [REC Control] can be used with external recorders/players that support the [REC Control] function.
- When [Time Code Output] is set to [Off], you cannot set [REC Control].
- Even when REC (REC) is displayed, the external recorder/player may not work properly depending on the settings or status of the recorder/player. Check if the external recorder/player works properly before use.
- When [Time Code Output] is set to [On], images may not be output properly to the TV or recording device. In this case, set [Time Code Output] to [Off].
- It is not possible to output audio in 4 channels to other devices connected via HDMI.
- The gamma is locked to S-Log3 during RAW output. You can reproduce contrast equivalent to that of the normal gamma by setting [Gamma Display Assist] to [On] and [Gamma Disp. Assist Typ.] to [Auto] or [S-Log3→709(800%)].
- While outputting RAW movies, you cannot use [Active] for [SteadyShot].

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Recordable movie times

The table below shows the approximate total recording times using a memory card formatted with this camera. The values may vary depending on the shooting conditions and the type of memory card used.

(h (hour), min (minute))

File Format	Rec Frame Rate	Record Setting	SD memory card		CFexpress Type A memory card	
			64 GB	128 GB	80 GB	160 GB
XAVC HS 4K	60p/50p	200M	35 min	1 h 10 min	40 min	1 h 20 min
		150M	45 min	1 h 35 min	50 min	1 h 40 min
		100M	1 h 5 min	2 h 10 min	1 h 15 min	2 h 30 min
		75M	1 h 25 min	2 h 50 min	1 h 35 min	3 h 10 min
		45M	2 h 10 min	4 h 30 min	2 h 20 min	4 h 50 min
XAVC S 4K	60p/50p	200M	35 min	1 h 10 min	40 min	1 h 20 min
		150M	45 min	1 h 35 min	50 min	1 h 40 min
XAVC S HD	60p/50p	50M	2 h	4 h 10 min	2 h 10 min	4 h 30 min
		25M	3 h 20 min	7 h	3 h 30 min	7 h 10 min
XAVC S-I 4K	60p	600M	10 min	25 min	10 min	25 min
	50p	500M	10 min	25 min	10 min	25 min
XAVC S-I HD	60p	222M	30 min	1 h 5 min	35 min	1 h 15 min
	50p	185M	30 min	1 h 5 min	35 min	1 h 15 min
XAVC S-I DCI 4K	60p	600M	10 min	25 min	10 min	25 min
	50p	500M	10 min	25 min	10 min	25 min

The recording times when [Px Proxy Recording] is set to [Off].

- The times shown are recordable times using a Sony memory card.
- The duration of time available for movie recording varies depending on the file format/recording settings for movies, memory card, ambient temperature, Wi-Fi network environment, condition of the camera before you start recording, and condition of the charging of the battery.
  The maximum continuous recording time for a single movie shooting session is approximately 13 hours (a product specification limit).

Note

- The recordable time of movies varies because the camera is equipped with VBR (Variable Bit-Rate), which automatically adjusts image quality depending on the shooting scene. When you record a fast-moving subject, the image is clearer but the recordable

time is shorter because more memory is required for recording. The recordable time also varies depending on the shooting conditions, the subject or the image quality/size settings.

Notes on continuous movie recording

- High-quality movie recording and high-speed continuous shooting require large amounts of power. Therefore, if you continue to shoot, the temperature inside the camera will rise, especially that of the image sensor. In such cases, the camera will turn off automatically because the surface of the camera is heated to a high temperature or the high temperature affects the quality of the images or the internal mechanism of the camera.
- The duration of time available for continuous movie recording when the camera records with the default settings after the power has been turned off for a while is as follows. The values indicate the continuous time from when the camera starts recording until the camera stops recording.

When [Auto Power OFF Temp.] is set to [Standard]

File Format	XAVC S HD	XAVC S 4K
Ambient temperature: 25°C (77°F)	Approx. 30 minutes	Approx. 30 minutes
Ambient temperature: 40°C (104°F)	Approx. 30 minutes	Approx. 30 minutes

When [Auto Power OFF Temp.] is set to [High]

File Format	XAVC S HD	XAVC S 4K
Ambient temperature: 25°C (77°F)	Approx. 120 minutes	Approx. 90 minutes
Ambient temperature: 40°C (104°F)	Approx. 90 minutes	Approx. 60 minutes

HD: XAVC S HD (60p 50M 4:2:0 8bit; when the camera is not connected via Wi-Fi; when using a CFexpress Type A memory card; when the monitor is open)
4K: XAVC S 4K (60p 150M 4:2:0 8bit; when the camera is not connected via Wi-Fi; when using a CFexpress Type A memory card; when the monitor is open)

- The duration of time available for movie recording varies with the temperature, file format/record setting for movies, Wi-Fi network environment, or condition of the camera before you start recording. If you frequently recompose or shoot images after the power is turned on, the temperature inside the camera will rise and the recording time available will be shorter.
- If the [!] (Overheating warning) icon appears, the temperature of the camera has risen.
- If the camera stops movie recording due to a high temperature, leave it for some time with the power turned off. Start recording after the temperature inside the camera drops fully.
- If you observe the following points, you will be able to record movies for longer periods of time.
  - Keep the camera out of direct sunlight.
  - Turn the camera off when it is not being used.

Related Topic

- Memory cards that can be used

TP1001547685

Interchangeable Lens Digital Camera
ILCE-7SM3 Description for DCI 4K / 24.00p add-on

List of icons on the screen for shooting movies

The displayed contents and their positions in the illustrations are just guidelines, and may differ from the actual displays. Descriptions are given below the indications of the icons.

In addition to the icons described on this page, there are more icons for touch operations (touch function icons) that are displayed on the left or right side of the screen when you swipe the monitor.

1. **Basic camera settings**


Audio level


Audio recording off


Focus Mode


Clear Image Zoom/Digital Zoom

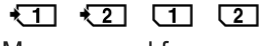

Gamma Disp. Assist Typ.

STBY REC
Movie recording standby/Movie recording in progress

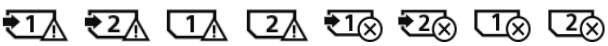
1:00:12
Actual movie recording time (hours: minutes: seconds)

4K HD D-4K
File format of movies

120p 100p 60p 50p 30p 25p 24p 24.00p
Frame rate of movies


Memory card for recording / Not memory card for recording

NO CARD
No memory card inserted


Nearing the rewriting upper limit of the memory card / Rewriting upper limit of the memory card reached


Recording to both memory cards simultaneously

1h 30m
Recordable time of movies

Writing data / Number of images left to write

100%

Remaining battery

Remaining battery warning

USB power supply

2. **Exposure and other settings**

1/250 **1/250**

Shutter speed

F3.5 **F3.5**

Aperture value

Exposure compensation/Metered Manual

ISO400 **ISO 400**

ISO sensitivity

7500K A5 G5

White Balance (Auto, Preset, Underwater Auto, Custom, Color temperature, Color filter)

AE lock/AWB lock

APS-C S35 Shooting

3. **Other settings (displayed during recording standby)**

Shooting mode

Shooting mode (MR Recall Camera Setting)

Tripod recognition

REC Control

EXT 4K EXT RAW EXT DCI 4K

4K/RAW/DCI 4K external output

EXT-LK

External lock state of the time code

00:00:00.00

Time code (hours: minutes: seconds. frames)

00 00 00 00

User Bit

Spot Focus

Performing [Spot Focus]

x4 Slow x4 Quick

Slowness/quickness scale during slow-motion/quick-motion shooting

Tracking Cancel

Guide display for tracking

Focus Cancel

Guide display for canceling focusing

48khz/16bit 2ch 48khz/24bit 2ch 48khz/24bit 4ch

Audio format

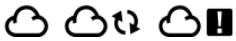
Guide display for dials

Touch function in shooting mode (Touch Focus/Touch Tracking/Off)

Focus Cancel

Tracking Cancel

Remote Shooting (connected) / Remote Shooting (connection error)



Connected to the cloud/Communicating with the cloud/Cloud connection error

FTP function / FTP transfer status

Airplane Mode

Connected to Wi-Fi (via a Wi-Fi access point)

Disconnected from Wi-Fi (via a Wi-Fi access point)

Connected to Wi-Fi/Disconnected from Wi-Fi (Wi-Fi Direct)

Connected to LAN/Disconnected from LAN (When using a USB-LAN conversion adaptor)

NFC active

Bluetooth connection available / Bluetooth connection unavailable

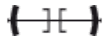
Remote control

Obtaining location information / Location information cannot be obtained

Metering Mode

D-Range Optimizer

Histogram



Digital level gauge

Overheating warning

Database file full / Database file error

Hint

- Area 3 icons may not be displayed while the touch function icons are displayed. To see hidden icons, swipe the touch function icons left or right to hide the touch function icons.

Related Topic

- List of icons on the playback screen

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Interchangeable Lens Digital Camera
ILCE-7SM3 Description for DCI 4K / 24.00p add-on

List of icons on the playback screen

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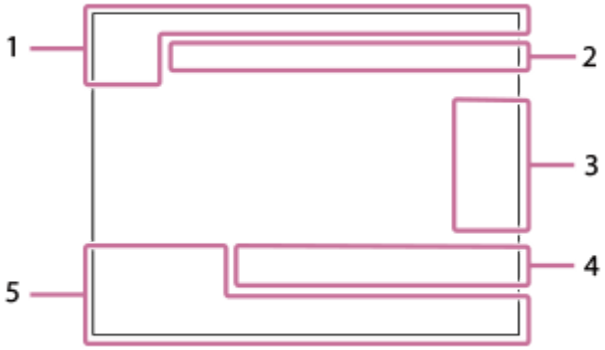
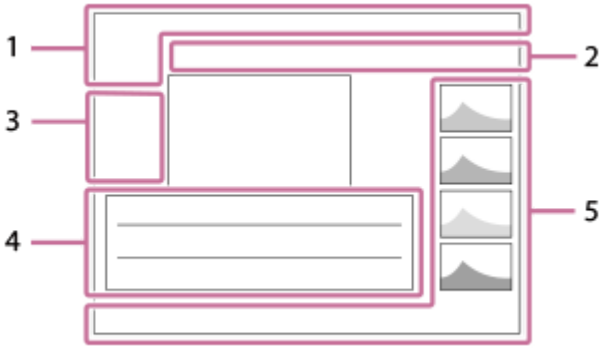
Single-image playback



Histogram display



1. **Basic information**

Playback media

IPTC Information

Rating

Protect

3/7

File number/Number of images in the view mode

NFC active

Remaining battery

Display as Group

Proxy movie included

Shot Mark included

FTP FTP FTP FTP

FTP transfer status

Smartphone transfer status (when using [Select on Cam & Send])

2. **Camera settings**

Connected to the cloud/Communicating with the cloud/Cloud connection error

FTP FTP

FTP function / FTP transfer status

Connected to Wi-Fi (via a Wi-Fi access point)

Disconnected from Wi-Fi (via a Wi-Fi access point)

Wi-Fi Wi-Fi

Connected to Wi-Fi/Disconnected from Wi-Fi (Wi-Fi Direct)

LAN LAN

Connected to LAN/Disconnected from LAN (When using a USB-LAN conversion adaptor)

Bluetooth connection available / Bluetooth connection unavailable

Airplane Mode

Overheating warning

FULL ERROR

Database file full / Database file error

3. **Touch operation icons**

Shooting mode switching

S1

Add/Delete Shot Mark1

S S

Jump to the positions of Shot Marks

4. **Shooting settings**

3:2 4:3 16:9 1:1

Aspect ratio

12M / 11M / 10M / 8.0M / 5.1M / 4.6M / 4.3M / 3.4M / 3.0M / 2.7M / 2.6M / 2.0M / 1.3M / 1.1M / 0.8M

Image size of still images

RAW RAW

RAW recording

J-X.FINE J-FINE J-STD H-X.FINE H-FINE H-STD

JPEG Quality/HEIF Quality

4:2:2

Color sampling for HEIF

XAVC HS 4K XAVC S 4K XAVC S HD XAVC S-I 4K XAVC S-I HD XAVC S-I DCI 4K

File format of movies

120p 100p 60p 50p 30p 25p 24p 24.00p

Frame rate of movies

600 500 300 280 250 240 222 200 185 150 140 111 100 93
89 75 60 50 45 30 25 16

Record setting of movies

1/250

Shutter speed

F3.5
Aperture value
ISO400
ISO sensitivity
P A S M
Exposure mode
Exposure compensation
Metering Mode
35mm
Lens focal length
Creative Look
AWB **7500K A5 G5**
White Balance (Auto, Preset, Underwater Auto, Color temperature, Color filter)
OFF **AUTO**
D-Range Optimizer
HLG
HDR recording (Hybrid Log-Gamma)
Copyright information exists for image

5. **Image information**

Latitude/longitude information
2024-1-1 10:37:00PM
Date of recording
100-0003
Folder number - file number
C0003
Movie file number
Histogram (Luminance/R/G/B)

Related Topic

- List of icons on the screen for shooting movies

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List of default setting values (Shooting)

The default setting values at the time of purchase are shown in the following table.
The content of the menu displayed on the screen differs depending on the position of the mode dial.

To reset settings to the default values

Select MENU → (Setup) → [Reset/Save Settings] → [Setting Reset] → [Camera Settings Reset] or [Initialize] → [Enter].
Initialize: All the settings of the camera will be reset to the default values.
Camera Settings Reset: Items that can be reset are limited. See the following table.

/ (Shooting) tab

MENU item	Default setting value	Resettable using [Camera Settings Reset]
JPEG/HEIF Switch	JPEG	✓
Image Quality Settings (File Format)	JPEG/HEIF	✓
Image Quality Settings (RAW File Type)	Compressed	✓
Image Quality Settings (JPEG Quality/HEIF Quality)	Fine	✓
Image Quality Settings (JPEG Image Size/HEIF Image Size) (when [Aspect Ratio] is set to [3:2])	L: 12M	✓
Image Quality Settings (JPEG Image Size/HEIF Image Size) (when [Aspect Ratio] is set to [4:3])	L: 11M	✓
Image Quality Settings (JPEG Image Size/HEIF Image Size) (when [Aspect Ratio] is set to [16:9])	L: 10M	✓
Image Quality Settings (JPEG Image Size/HEIF Image Size) (when [Aspect Ratio] is set to [1:1])	L: 8.0M	✓
Aspect Ratio	3:2	✓
File Format	XAVC S HD	✓
Movie Settings (Rec Frame Rate) (when [File Format] is set to [XAVC HS 4K])	60p/50p	✓
Movie Settings (Rec Frame Rate) (when [File Format] is set to [XAVC S 4K])	60p/50p	✓
Movie Settings (Rec Frame Rate) (when [File Format] is set to [XAVC S HD])	60p/50p	✓
Movie Settings (Rec Frame Rate) (when [File Format] is set to [XAVC S-I 4K])	60p/50p	✓

MENU item	Default setting value	Resettable using [Camera Settings Reset]
Movie Settings (Rec Frame Rate) (when [File Format] is set to [XAVC S-I HD])	60p/50p	✓
Movie Settings (Rec Frame Rate) (when [File Format] is set to [XAVC S-I DCI 4K])	24.00p	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC HS 4K] and [Rec Frame Rate] is set to [60p]/[50p])	45M 4:2:0 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC HS 4K] and [Rec Frame Rate] is set to [24p])	50M 4:2:0 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC HS 4K] and [Rec Frame Rate] is set to [120p]/[100p])	200M 4:2:0 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S 4K] and [Rec Frame Rate] is set to [60p]/[50p])	150M 4:2:0 8bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S 4K] and [Rec Frame Rate] is set to [30p]/[25p])	60M 4:2:0 8bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S 4K] and [Rec Frame Rate] is set to [24p])	60M 4:2:0 8bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S 4K] and [Rec Frame Rate] is set to [120p]/[100p])	200M 4:2:0 8bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S HD] and [Rec Frame Rate] is set to [60p]/[50p])	50M 4:2:0 8bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S HD] and [Rec Frame Rate] is set to [30p]/[25p])	50M 4:2:0 8bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S HD] and [Rec Frame Rate] is set to [24p])	50M 4:2:0 8bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S HD] and [Rec Frame Rate] is set to [120p]/[100p])	60M 4:2:0 8bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I 4K] and [Rec Frame Rate] is set to [60p]/[50p])	600M 4:2:2 10bit/500M 4:2:2 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I 4K] and [Rec Frame Rate] is set to [30p]/[25p])	300M 4:2:2 10bit/250M 4:2:2 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I 4K] and [Rec Frame Rate] is set to [24p])	240M 4:2:2 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I HD] and [Rec Frame Rate] is set to [60p]/[50p])	222M 4:2:2 10bit/185M 4:2:2 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I HD] and [Rec Frame Rate] is set to [30p]/[25p])	111M 4:2:2 10bit/93M 4:2:2 10bit	✓

MENU item	Default setting value	Resettable using [Camera Settings Reset]
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I HD] and [Rec Frame Rate] is set to [24p])	89M 4:2:2 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I DCI 4K] and [Rec Frame Rate] is set to [60p]/[50p])	600M 4:2:2 10bit/500M 4:2:2 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I DCI 4K] and [Rec Frame Rate] is set to [30p]/[25p])	300M 4:2:2 10bit/250M 4:2:2 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I DCI 4K] and [Rec Frame Rate] is set to [24p])	240M 4:2:2 10bit	✓
Movie Settings (Record Setting) (when [File Format] is set to [XAVC S-I DCI 4K] and [Rec Frame Rate] is set to [24.00p])	240M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Frame Rate Settings) (when [File Format] is set to [XAVC HS 4K])	60p 120fps / 50p 100fps	✓
S&Q S&Q Settings (S&Q Frame Rate Settings) (when [File Format] is set to [XAVC S 4K])	60p 120fps / 50p 100fps	✓
S&Q S&Q Settings (S&Q Frame Rate Settings) (when [File Format] is set to [XAVC S HD])	60p 120fps / 50p 100fps	✓
S&Q S&Q Settings (S&Q Frame Rate Settings) (when [File Format] is set to [XAVC S-I 4K])	60p 120fps / 50p 100fps	✓
S&Q S&Q Settings (S&Q Frame Rate Settings) (when [File Format] is set to [XAVC S-I HD])	60p 120fps / 50p 100fps	✓
S&Q S&Q Settings (S&Q Frame Rate Settings) (when [File Format] is set to [XAVC S-I DCI 4K])	24.00p 24fps	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC HS 4K] and [S&Q Rec Frame Rate] is set to [60p]/[50p])	45M 4:2:0 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC HS 4K] and [S&Q Rec Frame Rate] is set to [24p])	50M 4:2:0 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC HS 4K] and [S&Q Rec Frame Rate] is set to [120p]/[100p])	200M 4:2:0 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S 4K] and [S&Q Rec Frame Rate] is set to [60p]/[50p])	150M 4:2:0 8bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S 4K] and [S&Q Rec Frame Rate] is set to [30p]/[25p])	60M 4:2:0 8bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S 4K] and [S&Q Rec Frame Rate] is set to [24p])	60M 4:2:0 8bit	✓

MENU item	Default setting value	Resettable using [Camera Settings Reset]
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S 4K] and [S&Q Rec Frame Rate] is set to [120p]/[100p])	200M 4:2:0 8bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S HD] and [S&Q Rec Frame Rate] is set to [60p]/[50p])	50M 4:2:0 8bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S HD] and [S&Q Rec Frame Rate] is set to [30p]/[25p])	50M 4:2:0 8bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S HD] and [S&Q Rec Frame Rate] is set to [24p])	50M 4:2:0 8bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S HD] and [S&Q Rec Frame Rate] is set to [120p]/[100p])	60M 4:2:0 8bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I 4K] and [S&Q Rec Frame Rate] is set to [60p])	600M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I 4K] and [S&Q Rec Frame Rate] is set to [50p])	500M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I 4K] and [S&Q Rec Frame Rate] is set to [30p])	300M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I 4K] and [S&Q Rec Frame Rate] is set to [25p])	250M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I 4K] and [S&Q Rec Frame Rate] is set to [24p])	240M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I HD] and [S&Q Rec Frame Rate] is set to [60p])	222M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I HD] and [S&Q Rec Frame Rate] is set to [50p])	185M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I HD] and [S&Q Rec Frame Rate] is set to [30p])	111M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I HD] and [S&Q Rec Frame Rate] is set to [25p])	93M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I HD] and [S&Q Rec Frame Rate] is set to [24p])	89M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I DCI 4K] and [S&Q Rec Frame Rate] is set to [60p]/[50p])	600M 4:2:2 10bit/500M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I DCI 4K] and [S&Q Rec Frame Rate] is set to [30p]/[25p])	300M 4:2:2 10bit/250M 4:2:2 10bit	✓

MENU item	Default setting value	Resettable using [Camera Settings Reset]
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I DCI 4K] and [S&Q Rec Frame Rate] is set to [24p])	240M 4:2:2 10bit	✓
S&Q S&Q Settings (S&Q Record Setting) (when [File Format] is set to [XAVC S-I DCI 4K] and [S&Q Rec Frame Rate] is set to [24.00p])	240M 4:2:2 10bit	✓
Px Proxy Settings (Px Proxy Recording)	Off	✓
Px Proxy Settings (Px Proxy File Format)	XAVC S HD	✓
Px Proxy Settings (Px Proxy Rec. Settings) (when [Px Proxy File Format] is set to [XAVC HS HD])	9M 4:2:0 10bit	✓
Px Proxy Settings (Px Proxy Rec. Settings) (when [Px Proxy File Format] is set to [XAVC S HD])	6M 4:2:0 8bit	✓
APS-C S35 Shooting	Auto	—
Long Exposure NR	On	✓
High ISO NR	Normal	✓
HLG Still Image	Off	✓
Color Space	sRGB	✓
Lens Compensation (Shading Comp.)	Auto	—
Lens Compensation (Chromatic Aberration Comp.)	Auto	—
Lens Compensation (Distortion Comp.)	Off	—
Lens Compensation (Breathing Comp.)	Off	✓
Format	—	—
Rec. Media Settings (Recording Media)	Slot 1	✓
Rec. Media Settings (Recording Media)	Slot 1	✓
Rec. Media Settings (Auto Switch Media)	Off	✓
Recover Image DB* * This item is not reset even if you select [Camera Settings Reset] or [Initialize].	—	—
Display Media Info.	—	—
File/Folder Settings (File Number)	Series	—
File/Folder Settings (Forced File Number Reset)	—	—
File/Folder Settings (Set File Name)	DSC	—
File/Folder Settings (Folder Name)	Standard Form	—

MENU item	Default setting value	Resettable using [Camera Settings Reset]
Select REC Folder	—	—
Create New Folder	—	—
IPTC Information (Write IPTC Info)	Off	—
IPTC Information (Import/Delete)	—	—
IPTC Information (Delete All)	—	—
Copyright Info (Write Copyright Info)	Off	—
Copyright Info (Set Photographer)	—	—
Copyright Info (Set Copyright)	—	—
Copyright Info (Disp. Copyright Info)	—	—
Write Serial Number	Off	—
File Settings (File Number)	Series	—
File Settings (Series Counter Reset)	—	—
File Settings (File Name Format)	Standard	—
File Settings (Title Name Settings)	C	—
Exposure Mode	Manual Exposure	✓
S&Q Exposure Mode	Manual Exposure	✓
Exposure Ctrl Type	P/A/S/M Mode	—
MR Recall Camera Setting	—	✓
MR Camera Set. Memory	—	—
MR Memory/Recall Media	Slot 1	✓
Reg. Custom Shoot Set	—	—
Drive Mode	Single Shooting	✓
Bracket Settings (Selftimer during Bracket)	Off	✓
Bracket Settings (Bracket order)	0→-→+	✓
Interval Shoot Func. (Interval Shooting)	Off	✓
Interval Shoot Func. (Shooting Start Time)	1 Sec	✓
Interval Shoot Func. (Shooting Interval)	3 Sec	✓
Interval Shoot Func. (Number of Shots)	30	✓
Interval Shoot Func. (AE Tracking Sensitivity)	Mid	✓
Interval Shoot Func. (Shutter Type in Interval)	Electronic Shutter	✓

MENU item	Default setting value	Resettable using [Camera Settings Reset]
Interval Shoot Func. (Shoot Interval Priority)	Off	✓
Silent Mode Settings (Silent Mode)	Off	✓
Silent Mode Settings ([Aperture Drive in AF] under [Target Function Settings])	Standard	✓
Silent Mode Settings ([Shutter When Pwr OFF] under [Target Function Settings])	Off	✓
Silent Mode Settings ([Auto Pixel Mapping] under [Target Function Settings])	Off	✓
Shutter Type	Mechanical Shutter	✓
e-Front Curtain Shut.	On	—
Release w/o Lens	Enable	—
Release w/o Card	Enable	—
Anti-flicker Shoot.	Off	✓
Audio Recording	On	✓
Audio Rec Level	26	✓
Audio Out Timing	Live	✓
Wind Noise Reduct.	Off	✓
Shoe Audio Set.	48khz/16bit 2ch	✓
Time Code Preset	00:00:00.00	—
User Bit Preset	00 00 00 00	—
Time Code Format	DF	—
Time Code Run	Rec Run	—
Time Code Make	Preset	—
User Bit Time Rec	Off	—
SteadyShot	On	✓
SteadyShot	Standard	✓
SteadyShot Adjust.	Auto	✓
Focal Length (when [SteadyShot Adjust.] is set to [Manual])	8mm	✓
Zoom	—	—
Zoom Range	Optical zoom only	—
Custom Key Z. Speed (Fixed Speed STBY)	3	✓

MENU item	Default setting value	Resettable using [Camera Settings Reset]
Custom Key Z. Speed (Fixed Speed REC)	3	✓
Remote Zoom Speed (Speed Type)	Variable	✓
Remote Zoom Speed (Fixed Speed STBY)	3	✓
Remote Zoom Speed (Fixed Speed REC)	3	✓
Grid Line Display	Off	—
Grid Line Type	Rule of 3rds Grid	—
Live View Display Set. (Live View Display)	Setting Effect ON	—
Live View Display Set. (Exposure Effect)	Exposure Set. & flash	—
Live View Display Set. (Frame Rate Low Limit)	Off	✓
Emphasized REC Display	Off	✓
Aspect Marker	Off	✓
Aspect Marker Type	1:1	✓
Aspect Marker Level	12	✓
Marker Display	Off	—
Center Marker	Off	—
Aspect Marker	Off	—
Safety Zone	Off	—
Guideframe	Off	—

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