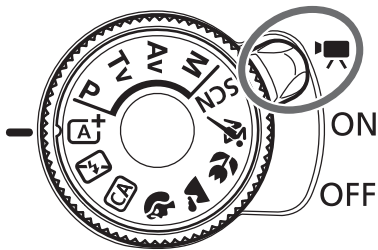


# 6

## Shooting Movies



You can shoot movies by setting the power switch to <img alt="movie recording icon" data-bbox="675 475 695 495"/>. The movie recording format will be MOV.

### Cards that can record movies

**When shooting movies, use a large-capacity SD card rated SD Speed Class 6 “CLASS 6” or higher.**

If you use a slow-writing card when shooting movies, the movie may not be recorded properly. Also, if you play back a movie on a card with a slow reading speed, the movie may not play back properly.

To check the card’s read/write speed, refer to the card manufacturer’s Web site.

### About Full HD 1080

Full HD 1080 indicates compatibility with High-Definition featuring 1080 vertical pixels (scanning lines).

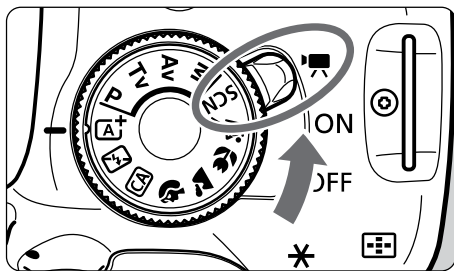


# Shooting Movies

Connecting the camera to a TV set is recommended to play back the movies shot (p.262, 265).

## Autoexposure Shooting

When the shooting mode is not set to <M>, autoexposure control will take effect to suit the scene's current brightness.

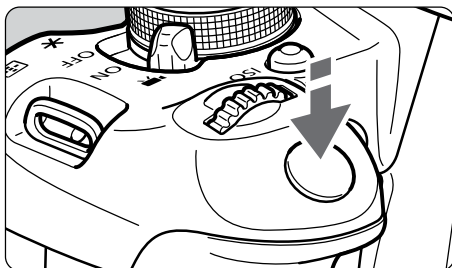


### 1 Set the power switch to <[Power Icon]>.

- ▶ The reflex mirror will make a sound, then the image will appear on the LCD monitor.

### 2 Set the shooting mode.

- Set the Mode Dial to any shooting mode except <M>.



### 3 Focus the subject.

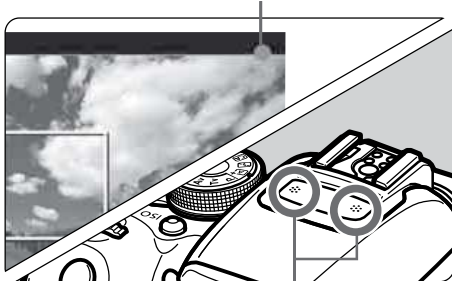
- Before shooting a movie, focus with AF or manual focus (p.159-167, 170).
- By default, [**Movie Servo AF: Enable**] is set so that the camera will always focus. To stop Movie Servo AF, see page 196.



### 4 Shoot the movie.

- Press the <[Movie Record Icon]> button to start shooting a movie. To stop movie shooting, press <[Movie Record Icon]> again.
- ▶ While the movie is being shot, the “●” mark will be displayed on the upper right of the screen.

Recording movie



Microphones



- **Cautions for movie shooting are on pages 200 and 201.**
- **If necessary, also read the Live View shooting cautions on pages 171 and 172.**






















- In Basic Zone modes, the shooting result will be the same as in the  $\langle \text{A}^+ \rangle$  mode. Also, the scene icon for the scene detected by the camera is displayed on the upper left (p.176).
- In the  $\langle \text{Av} \rangle$  and  $\langle \text{Tv} \rangle$  shooting modes, the settings will be the same as in the  $\langle \text{P} \rangle$  mode.
- Settable menu functions will differ between Basic Zone modes and Creative Zone modes (p.322).
- The ISO speed (ISO 100 - ISO 6400), shutter speed, and aperture are set automatically.
- In Creative Zone modes, you can press the  $\langle \text{X} \rangle$  button to lock the exposure (AE lock, p.123,198). After applying AE lock during movie shooting, you can cancel it by pressing the  $\langle \text{Fn} \rangle$  button. (AE lock setting is retained until you press the  $\langle \text{Fn} \rangle$  button.)
- In Creative Zone modes, you can hold down the  $\langle \text{Av} \text{Fn} \rangle$  button and turn the  $\langle \text{EV} \text{Dial} \rangle$  dial to set the exposure compensation.
- Pressing the shutter button halfway displays the shutter speed and ISO speed at the bottom of the screen. This is the exposure setting for taking a still photo (p.179). The exposure setting for movie shooting is not displayed. Note that the exposure setting for movie shooting may differ from that for still photo shooting.
- If you shoot a movie with autoexposure, the shutter speed and aperture will not be recorded in the image information (Exif).


### Using an EX-series Speedlite (Sold Separately) Equipped with an LED Light

This camera is compatible with the function turning on the LED light automatically in low-light conditions during autoexposure shooting. **For details, refer to the Speedlite's instruction manual.**

## Scene Icons

During movie shooting in a Basic Zone mode, an icon representing the scene detected by the camera will be displayed and the shooting will be adapted to that scene. For certain scenes or shooting conditions, the icon displayed may not match the actual scene.

Background \ Subject	Portrait <sup>*1</sup>	Non-Portrait		Background Color
		Nature and Outdoor Scene	Close <sup>*2</sup>	
Bright				Gray
Backlit				
Blue sky included				Light blue
Backlit				
Sunset	*3		*3	Orange
Spotlight				Dark blue
Dark				

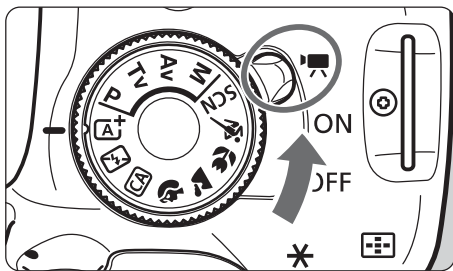
\*1: Displayed only when the AF method is set to [ +Tracking]. If another AF method is set, the “Non-Portrait” icon will be displayed even if a person is detected.

\*2: Displayed when the attached lens has distance information. With an Extension Tube or Closeup Lens, the icon displayed may not match the actual scene.

\*3: The icon suiting the scene detected will be displayed.

## Manual Exposure Shooting

In the <M> mode, you can freely set the shutter speed, aperture, and ISO speed for the movie shooting. Using manual exposure to shoot movies is for advanced users.



### 1 Set the power switch to <ON>.

- ▶ The reflex mirror will make a sound, then the image will appear on the LCD monitor.

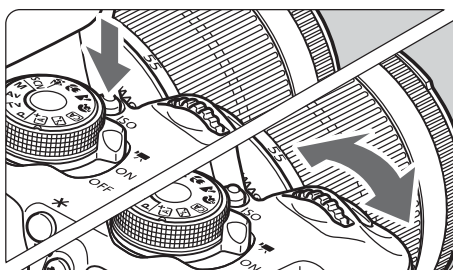


### 2 Set the Mode Dial to <M>.



### 3 Set the shutter speed and aperture.

- To set the shutter speed, turn the <gear> dial. The settable shutter speeds depend on the frame rate <FR>.
  - <FR60> / <FR50> : 1/4000 sec. - 1/60 sec.
  - <FR30> / <FR25> / <FR24> : 1/4000 sec. - 1/30 sec.
- To set the aperture, hold down the <Av> button and turn the <gear> dial.



### 4 Set the ISO speed.

- Press the <ISO> button and press the <left> / <right> key or turn the <gear> dial to select the ISO speed.
- For details on the ISO speed, see the next page.

## 5 Focus and shoot the movie.

- The procedure is the same as steps 3 and 4 for “Autoexposure Shooting” (p.174).

### ISO speed during manual-exposure shooting

- With [**Auto**], the ISO speed will be set automatically within ISO 100 - ISO 6400.
- You can set the ISO speed manually within ISO 100 - ISO 6400 in whole-stop increments. Under [**4: Custom Functions (C.Fn)**], if [**2: ISO expansion**] is set to [**1: On**], the manual setting range will expand so you can also select H (equivalent to ISO 12800).
- Under [**4: Custom Functions (C.Fn)**], if [**3: Highlight tone priority**] is set to [**1: Enable**], the ISO speed will be ISO 200 - ISO 6400.



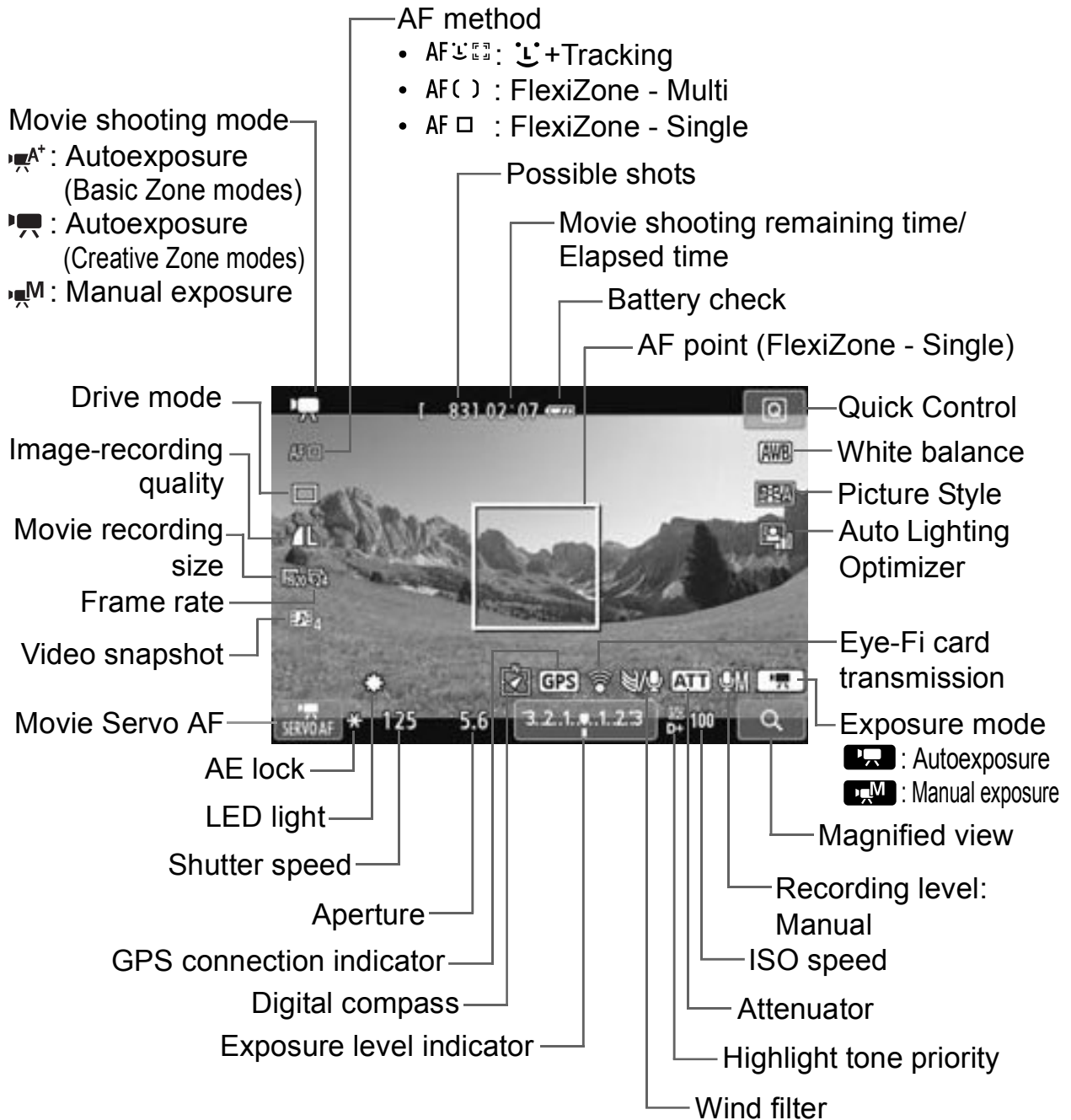
- Since shooting a movie at ISO 12800 may result in much noise, it is designated as an expanded ISO speed (displayed as “H”).
- Under [**4: Custom Functions (C.Fn)**], if [**2: ISO expansion**] is set to [**1: On**] and you switch from still photo shooting to movie shooting, the manual setting range’s maximum will be H (equivalent to ISO 12800). Even if you switch back to still photo shooting, the ISO speed will not revert to the original setting.
- Exposure compensation cannot be set.
- Changing the shutter speed or aperture during movie shooting is not recommended since the changes in the exposure will be recorded.
- If you change the shutter speed while shooting under fluorescent or LED lighting, image flicker may be recorded.



- When ISO Auto is set, you can press the <✳> button to lock the ISO speed.
- After recomposing the picture, you can see the exposure level difference on the exposure level indicator (p.179) compared to when you pressed the <✳> button.
- By pressing the <INFO.> button, you can display the histogram.
- When shooting a movie of a moving subject, a shutter speed of 1/30 sec. to 1/125 sec. is recommended. The faster the shutter speed, the less smooth the subject’s movement will look.

## Information Display

- Each time you press the <INFO.> button, the information display will change.








When movie shooting starts, the movie shooting remaining time will change to the elapsed time.

## Notes on Movie Shooting



- Do not point the camera toward an intense light source, such as the sun on a sunny day or an intense artificial light source. Doing so may damage the image sensor or the camera's internal components.
- If <AWB> is set, you should not change the ISO speed or aperture during movie shooting because it may also change the white balance.
- If you shoot a movie under fluorescent or LED lighting, the movie may flicker.
- Shooting a few test movies is recommended where you will perform zooming during movie shooting. Zooming during movie shooting may result in recording of changes in exposure or mechanical sound of the lens, or images may be out of focus.
- You cannot magnify the image during movie shooting.
- Be careful not to cover the microphones (p.174) with your finger, etc.
- **Cautions for movie shooting are on pages 200 and 201.**
- **If necessary, also read the Live View shooting cautions on pages 171 and 172.**



- Movie-related settings are under the [ 1] and [ 2] tabs (p.196).
- A movie file is recorded each time you shoot a movie. If the file size exceeds 4 GB, a new file will be automatically created.
- The movie image's field of view is approx. 100% (with movie recording size set to []).
- The sound will be recorded in stereo by the camera's built-in microphones (p.174).
- Stereo sound recording is also possible by connecting the Directional Stereo Microphone DM-E1 (sold separately) to the camera's external microphone IN terminal (p.20) as the external microphone is given the priority.
- You can use Remote Controller RC-6 (sold separately, p.307) to start and stop the movie shooting if the drive mode is < >. Set the shooting timing switch to <2> (2-sec. delay), then press the transmit button. If the switch is set to < > (immediate shooting), still photo shooting will take effect.
- With a fully-charged Battery Pack LP-E8, the total movie shooting time will be as follows: approx. 1 hr. 40 min. at room temperature (23°C/73°F), and approx. 1 hr. 20 min. at low temperature (0°C/32°F).
- The focus preset function is possible for movie shooting only when using a (super) telephoto lens equipped with the focus preset mode marketed since the second half of 2011.



## Final Image Simulation

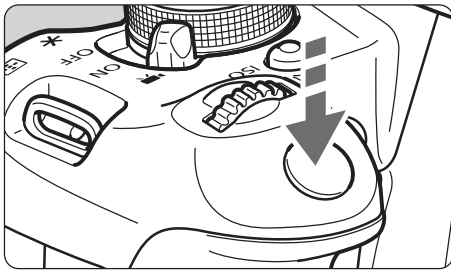
The final image simulation is a function that allows you to see the effects of the Picture Style, white balance, etc., on the image.

During movie shooting, the image displayed will automatically reflect the effects of the settings listed below.

### Final image simulation for movie shooting

- Picture Style
  - \* All settings such as sharpness, contrast, color saturation, and color tone will be reflected.
- White balance
- White balance correction
- Exposure
- Depth of field
- Auto Lighting Optimizer
- Peripheral illumination correction
- Highlight tone priority

## Shooting Still Photos



While shooting a movie, you can also take a still photo by pressing the shutter button completely.

### Taking still photos during movie shooting

- If you take a still photo during movie shooting, the movie will record a still moment lasting approx. 1 sec.
- The captured still photo will be recorded to the card, and the movie shooting will resume automatically when the Live View image is displayed.
- The movie and still photo will be recorded as separate files on the card.
- Functions particular to still photo shooting are shown below. Other functions will be the same as for movie shooting.

Function	Settings
<b>Image-Recording Quality</b>	As set in [ <b>📷 1: Image quality</b> ]. When the movie recording size is [ <b>1920x1080</b> ] or [ <b>1280x720</b> ], the aspect ratio will be 16:9. When the size is [ <b>640x480</b> ], the aspect ratio will be 4:3.
<b>ISO Speed*</b>	<ul style="list-style-type: none"> <li>• With autoexposure shooting: Automatically set within ISO 100 - ISO 6400.</li> <li>• With manual exposure shooting: See “ISO speed during manual-exposure shooting” on page 178.</li> </ul>
<b>Exposure Setting</b>	<ul style="list-style-type: none"> <li>• Autoexposure shooting: Automatically-set shutter speed and aperture (displayed when pressing the shutter button halfway).</li> <li>• Manual exposure shooting: Manually-set shutter speed and aperture.</li> </ul>
<b>AEB</b>	Canceled
<b>Flash</b>	Flash off

\* If highlight tone priority is set, the ISO speed range will start from ISO 200.



Regardless of the drive mode setting, single shooting will take effect for still photo shooting during movie shooting.



When you press the shutter button halfway to autofocus during movie shooting, the following phenomena may occur.

- Focus may become far off momentarily.
- The brightness of the recorded movie may be different from that of the actual scene.
- The recorded movie may be momentarily still.
- Lens operation noise may be recorded.
- You may not take a still photo when focus is not achieved in cases such as the subject is moving.

# Shooting Function Settings

Function settings particular to movie shooting are explained here.

---

## Quick Control

If you press the  $\langle \text{Q} \rangle$  button while the image is displayed on the LCD monitor, you can set any of the following: **AF method**, **drive mode**, **image-recording quality (still photos)**, **movie-recording size**, **video snapshots**, white balance, Picture Style, and Auto Lighting Optimizer.

In Basic Zone modes, only the functions in bold can be set.



### 1 Press the $\langle \text{Q} \rangle$ button. (⌚10)

- ▶ The settable functions will be displayed.

### 2 Select a function and set it.

- Press the  $\langle \blacktriangle \blacktriangledown \rangle$  key to select a function.
- ▶ The function and Feature guide (p.52) will appear.
- Press the  $\langle \blacktriangleleft \blacktriangleright \rangle$  key or turn the  $\langle \text{gear} \rangle$  dial to change the setting.
- To set the drive mode's  $\langle \text{C} \rangle$  setting or Picture Style parameters, press the  $\langle \text{INFO.} \rangle$  button.

### 3 Exit the setting.

- Press  $\langle \text{SET} \rangle$  to finalize the setting and return to movie shooting.
- You can also select  $\langle \text{return} \rangle$  to return to movie shooting.

## MENU Setting the Movie-recording Size



The menu option [ **2: Movie rec. size** ] enables you to select the movie's image size [\*\*\*\*x\*\*\*\*] and frame rate [\*\*] (frames recorded per second). The \*\* (frame rate) switches automatically depending on the [ **2: Video system** ] setting.

---








### ● Image size

- 1920 [1920x1080]** : Full High-Definition (Full HD) recording quality.  
The aspect ratio will be 16:9.
- 1280 [1280x720]** : High-Definition (HD) recording quality.  
The aspect ratio will be 16:9.
- 640 [640x480]** : Standard-definition recording quality.  
The aspect ratio will be 4:3.

### ● Frame rate (fps: frames per second)

- 30 / 60** : For areas where the TV format is NTSC (North America, Japan, Korea, Mexico, etc.).
- 25 / 50** : For areas where the TV format is PAL (Europe, Russia, China, Australia, etc.).
- 24** : Mainly for motion pictures.

**Total Movie Recording Time and File Size Per Minute**

Movie-Recording Size		Total Recording Time (approx.)			File Size (approx.)
		4 GB Card	8 GB Card	16 GB Card	
[1920x1080]		11 min.	22 min.	44 min.	330 MB/min.
					
					
[1280x720]		11 min.	22 min.	44 min.	330 MB/min.
					
[640x480]		46 min.	1 hr. 32 min.	3 hr. 4 min.	82.5 MB/min.
					


● **About Movie Files Exceeding 4 GB**


Even if you shoot a movie exceeding 4 GB, you can keep shooting without interruption.

During movie shooting, approx. 30 sec. before the movie reaches the 4 GB file size, the elapsed shooting time displayed in the movie shooting screen will start blinking. If you keep shooting the movie and the file size exceeds 4 GB, a new movie file will be created automatically and the elapsed shooting time or time code will stop blinking.

When you play back the movie, you will have to play each movie file individually. Movie files cannot play back consecutively automatically. After the movie playback ends, select the next movie to be played.

● **Movie Shooting Time Limit**

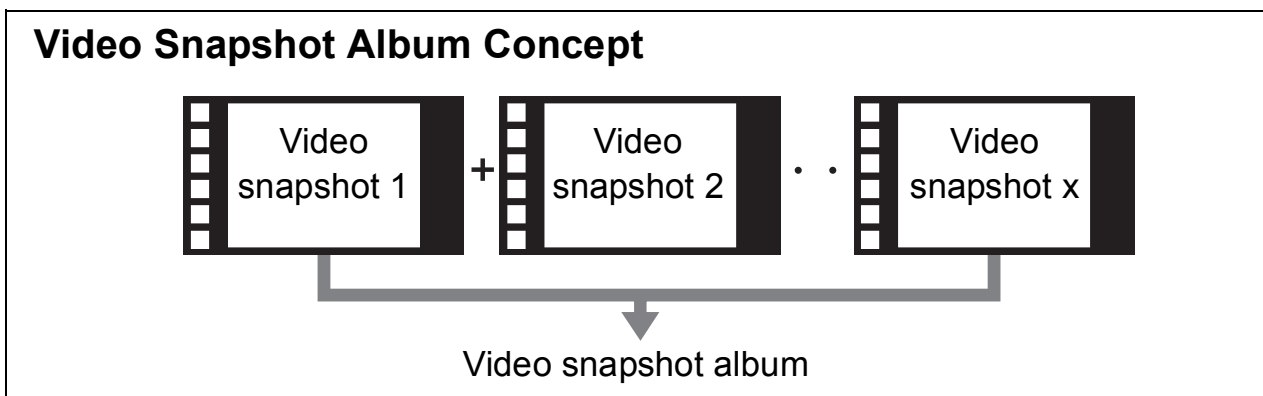
The maximum recording time of one movie clip is 29 min. 59 sec. If the movie shooting time reaches 29 min. 59 sec., the movie shooting will stop automatically. You can resume movie shooting by pressing the  button. (A new movie file is recorded.)

 An increase of the camera's internal temperature may cause movie shooting to stop before the maximum recording time shown in the table above (p.200).

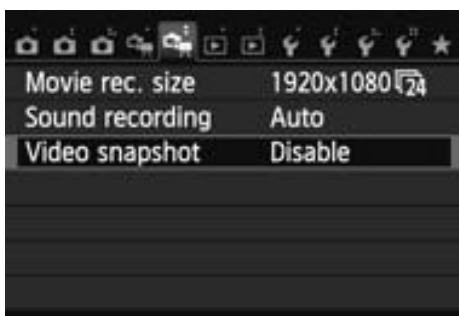
## **MENU** Shooting Video Snapshots

You can easily create a short movie with the video snapshot function. A video snapshot is a short movie clip lasting approx. 2 sec., 4 sec., or 8 sec. A collection of video snapshots is called a video snapshot album and can be saved to the card as a single movie file. By changing the scene or angle in each video snapshot, you can create dynamic short movies.

A video snapshot album can also be played together with background music (p.193, 255).

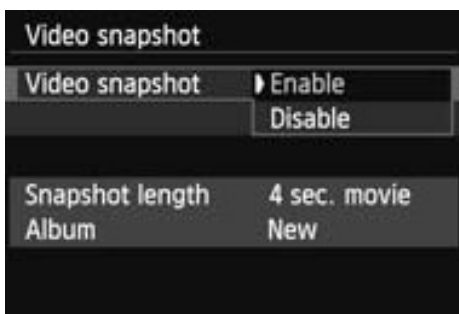


### Setting the Video Snapshot Shooting Duration



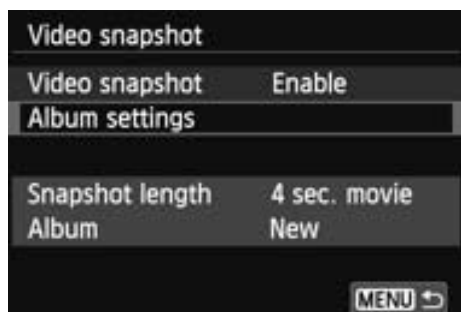
#### 1 Select [Video snapshot].

- Under the [CAM 2] tab, select [Video snapshot], then press < (SET) >.



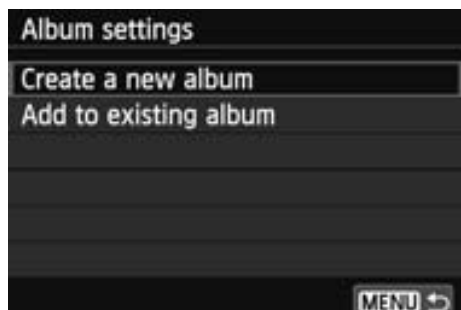
#### 2 Select [Enable].

- Select [Enable], then press < (SET) >.



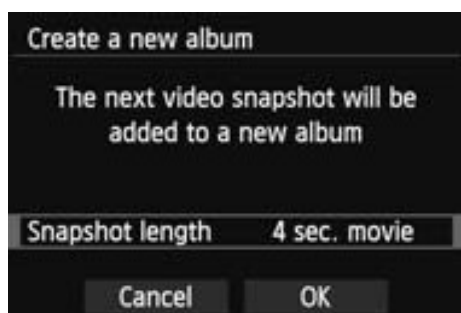
### 3 Select [Album settings].

- Select [Album settings], then press <SET>.
- If you want to continue shooting for an existing album, go to “Adding to an Existing Album” (p.192).



### 4 Select [Create a new album].

- Select [Create a new album], then press <SET>.



### 5 Select the Snapshot length.

- Press <SET> and use <▲▼> to select the snapshot’s length, then press <SET>.



Shooting duration

### 6 Select [OK].


- Select [OK], then press <SET>.
- Press the <MENU> button to exit the menu and return to the movie shooting screen. A blue bar will appear to indicate the snapshot length.
- Go to “Creating a Video Snapshot Album” (p.189).



## Creating a Video Snapshot Album







### 7 Shoot the first video snapshot.

- Press the <  > button and shoot.
- ▶ The blue bar indicating the shooting duration will gradually decrease. After the set shooting duration elapses, the shooting stops automatically.
- ▶ After the LCD monitor turns off and the access lamp stops blinking, the confirmation screen will appear (p.190).








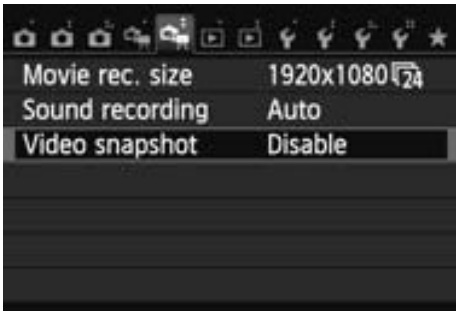
### 8 Save as a video snapshot album.

- Press the <   > key to select [ **Save as album**], then press <  >.
- ▶ The movie clip will be saved as the video snapshot album's first video snapshot.



### 9 Continue to shoot more video snapshots.

- Repeat step 7 to shoot the next video snapshot.
- Press the <   > key to select [ **Add to album**], then press <  >.
- To create another video snapshot album, select [ **Save as a new album**], then select [**OK**].






















## 10 Quit the video snapshot shooting.

- Set [Video snapshot] to [Disable].  
To return to normal movie shooting, be sure to set [Disable].
- Press the <MENU> button to exit the menu and return to the normal movie shooting screen.

### On-screen Options in Steps 8 and 9

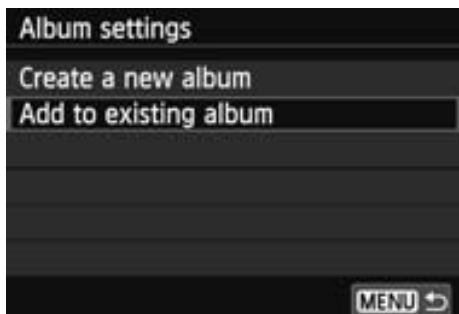
Function	Description
<b>Save as album</b> (Step 8)	The movie clip will be saved as the video snapshot album's first video snapshot.
<b>Add to album</b> (Step 9)	The video snapshot just recorded will be added to the album recorded immediately before.
<b>Save as a new album</b> (Step 9)	A new video snapshot album is created and the movie clip is saved as the first video snapshot. The new album will be a different file from the previously recorded album.
<b>Playback video snapshot</b> (Steps 8 and 9)	The video snapshot just recorded will be played. For playback operations, see the table on the next page.
<b>Do not save to album</b> (Step 8) <b>Delete without saving to album</b> (Step 9)	If you want to delete the video snapshot you just recorded and not save it to the album, select [OK].

**[Playback video snapshot] Operations**

Function	Playback Description
 <b>Play</b>	By pressing <  >, you can play or pause the just-recorded video snapshot.
 <b>First frame</b>	Displays the first scene of the album's first video snapshot.
 <b>Skip backward*</b>	Each time you press <  >, the video snapshot skips back by a few seconds.
 <b>Previous frame</b>	Each time you press <  >, the previous frame is displayed. If you hold down <  >, it will rewind the movie.
 <b>Next frame</b>	Each time you press <  >, the movie will play frame-by-frame. If you hold down <  >, it will fast forward the movie.
 <b>Skip forward*</b>	Each time you press <  >, the video snapshot skips forward by a few seconds.
 <b>Last frame</b>	Displays the last scene of the album's last video snapshot.
	Playback position
mm' ss"	Playback time (minutes:seconds)
 <b>Volume</b>	You can adjust the built-in speaker's (p.254) volume by turning the <  > dial.
 	Pressing the < MENU > button returns to the previous screen.

\* With [**Skip backward/Skip forward**], the skipping duration will correspond to the number of seconds set under [**Video snapshot**] (approx. 2 sec., 4 sec., or 8 sec.).


## Adding to Existing Album



- 1 Select [Add to existing album].**
  - Follow step 4 on page 188 to select **[Add to existing album]**, then press **< (SET) >**.



- 2 Select an existing album.**
  - Press the **< ◀▶ >** key to select an album, then press **< (SET) >**.
  - Check the text, select **[OK]**, then press **< (SET) >**.
  - ▶ Certain video snapshot settings will change to match the existing album's settings.
  - Press the **< MENU >** button to exit the menu and return to the movie shooting screen.
- 3 Shoot the video snapshot.**
  - Go to “Creating a Video Snapshot Album” (p.189).

 You cannot select an album shot with another camera.

## ⚠ Cautions for Shooting Video Snapshots

- You can add to an album only video snapshots with the same duration (approx. 2 sec., 4 sec., or 8 sec. each).
- Note that if you do any of the following while shooting video snapshots, a new album will be created for subsequent video snapshots.
  - Changing the [Movie rec. size] (p.185).
  - Changing the [Sound rec.] setting from [Auto/Manual] to [Disable] or from [Disable] to [Auto/Manual] (p.198).
  - Updating the firmware.
- You cannot take still photos while shooting a video snapshot.
- The shooting duration of a video snapshot is only approximate. Depending on the frame rate, the shooting duration displayed during playback may not be exact.

## Playing an Album

You can play back a completed album in the same way as a normal movie (p.254).



### 1 Play back the movie.

- Press the <▶> button to display images.



### 2 Select the album.

- Press the <◀▶> key to select an album.
- On the single-image display, the [SET] icon displayed on the upper left indicates that the image is a video snapshot.

### 3 Play back the album.

- Press <SET>.
- On the movie playback panel displayed, select [▶] (Play), then press <SET>.



### Background Music

- Music recorded on the memory card must be used only for private enjoyment. Do not violate the rights of the copyright holder.
- You can play background music when you play back albums, normal movies, and slide shows on the camera (p.255, 258). To play background music, you must first copy the background music to the card using EOS Utility (provided software). For information on how to copy the background music, refer to the EOS Utility Instruction Manual (p.367).

## Editing an Album

After shooting, you can rearrange, delete, or play back the video snapshots in the album.



**1 On the playback panel, select [X] (Edit).**

- ▶ The editing screen will be displayed.




**2 Select an editing operation.**

- Use the <◀▶> keys to select an editing operation, then press <SET>.

Function	Description
<b>Move snapshot</b>	Press the <◀▶> key to select the video snapshot you want to move, then press <SET>. Press the <◀▶> key to move the snapshot, then press <SET>.
<b>Delete snapshot</b>	Press the <◀▶> key to select the video snapshot you want to delete, then press <SET>. The [🗑️] icon will be displayed on the selected video snapshot. Pressing <SET> again will cancel the selection and [🗑️] will disappear.
<b>Play snapshot</b>	Press the <◀▶> key to select the video snapshot you want to play, then press <SET>.



### 3 Save the edited album.

- Press the <MENU> button to return to the Editing panel at the screen's bottom.
- Press the <◀▶> key to select [> (Save), then press <ⓈET>.
- ▶ The save screen will appear.
- To save it as a new movie, select [**New file**]. To save it and overwrite the original movie file, select [**Overwrite**], then press <ⓈET>.



- If the card does not have enough free space, [**New file**] will not be available.
- When the battery level is low, editing albums is not possible. Use a fully-charged battery.



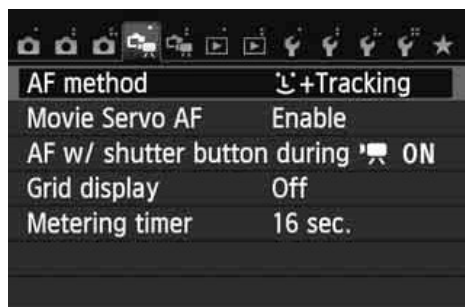
#### Provided Software Usable with Albums

- **EOS Video Snapshot Task:** Editing albums is possible. This is an add-on function for ImageBrowser EX.

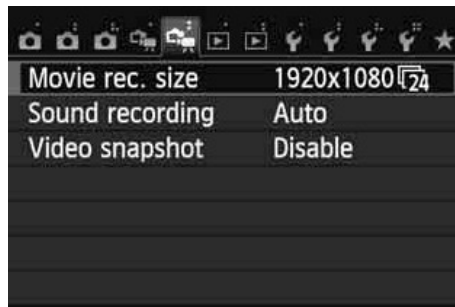
## **MENU** Movie Menu Function Settings

When you set the power switch to <M>, the [M1/M2] tab will show functions dedicated to movie shooting. The menu options are as follows.

### [M1] menu



### [M2] menu



- **AF method**

The AF methods are the same as described on pages 159-165. You can select [+Tracking], [FlexiZone - Multi], or [FlexiZone - Single].


- **Movie Servo AF**

The default setting is [Enable]. You can focus by pressing the shutter button halfway regardless of the setting.

- **When [Enable] is set:**

- You can shoot a movie while focusing a moving subject continuously. With certain lenses, the lens mechanical sound during focusing may be recorded. If this happens, use the Directional Stereo Microphone DM-E1 (sold separately) to reduce the lens mechanical sound in the movie. Using EF-S18-55mm f/3.5-5.6 IS STM or EF-S18-135mm f/3.5-5.6 IS STM lens can minimize the focusing noise recorded during movie shooting.
- During Movie Servo AF, turn off the power before you set the lens's focus mode switch to <MF>.



- If you want to hold the focus at a certain point or avoid recording the lens operation noise before or during movie shooting, you can temporarily stop Movie Servo AF by performing one of the operations below. When you stop Movie Servo AF, the AF point will turn gray. When you perform the same operation below again, Movie Servo AF will resume.
  - Tap the [SERVO AF] icon on the lower left of the screen.
  - Press the <⚡> button.
  - If [6: Shutter/AE lock button] is set to [2: AF/AF lock, no AE lock] in the [4: Custom Functions (C.Fn)], Movie Servo AF will stop while you hold down the <✳> button. When you let go of the <✳> button, Movie Servo AF will resume.
  - While Movie Servo AF is stopped, if you press the <MENU> button, <▶> button etc. and then return to movie shooting, Movie Servo AF will resume.
  - For cautions when [Movie servo AF] is set to [Enable], see page 202.
- **When [Disable] is set:**
  - You can focus only when the shutter button is pressed halfway.
- **AF with shutter button during  (movie recording)**

When you press the shutter button while shooting a movie, you can shoot a still photo. The default setting is [ONE SHOT].

  - **When [ONE SHOT] is set:**
    - You can refocus and shoot a still photo by pressing the shutter button halfway while shooting a movie.
    - When shooting a static subject (not moving), you can perform shooting in precise focus.
  - **When [Disable] is set:**
    - You can immediately start shooting a still photo by pressing the shutter button, even though focus is not achieved. It is effective when you want give priority to the shutter chance rather than to focus.

- **Grid display**

With [**Grid 1** ≡≡] or [**Grid 2** ≡≡≡], you can display grid lines to help you level the camera vertically or horizontally.

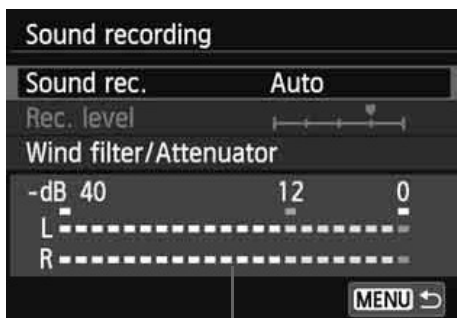
- **Metering timer** ☆

You can change how long the exposure setting is displayed (AE lock time).

- **Movie recording size**

You can set the movie recording size (image size and frame rate). For details, see pages 185-186.

- **Sound recording** ☆



Level meter

Normally, the built-in microphones will record stereo sound. Stereo sound recording is also possible by connecting the Directional Stereo Microphone DM-E1 (sold separately) to the camera's external microphone IN terminal (p.20) as the external microphone is given the priority.

**[Sound rec./Rec. level] options**

**[Auto]** : The sound-recording level is adjusted automatically. Auto level control will operate automatically in response to the sound level.

**[Manual]** : For advanced users. You can adjust the sound recording level to one of 64 levels. Select [**Rec. level**] and look at the level meter while pressing the < ◀▶ > key to adjust the sound recording level.

While looking at the peak hold indicator (approx. 3 sec.), adjust so that the level meter sometimes lights up the "12" (-12 dB) mark on the right for the loudest sounds. If it exceeds "0", the sound will be distorted.

**[Disable]** : Sound will not be recorded.

**[Wind filter]**

When set to **[Enable]**, it reduces wind noise when there is wind outdoors. This feature takes effect only with the built-in microphones.

Note that **[Enable]** will also reduce low bass sounds, so set this function to **[Disable]** when there is no wind. It will record a more natural sound than with **[Enable]**.

**[Attenuator]**

Even if you set **[Sound recording]** to **[Auto]** or **[Manual]** and shoot, sound distortion may still result if there is a very loud sound. In such a case, setting it to **[Enable]** is recommended.



- In Basic Zone modes, the settings available for **[Sound recording]** will be **[On/Off]**. If **[On]** is set, the sound-recording level will be adjusted automatically (same as with **[Auto]**). However, the wind filter function will not take effect.
- The sound volume balance between L (left) and R (right) cannot be adjusted.
- Both L and R record audio at a 48 kHz/16-bit sampling rate.

**● Video snapshot**

You can shoot video snapshots. For details, see page 187.



## Movie Shooting Cautions

### White <🔥> and Red <🔥🔥> Internal Temperature Warning Icons

- If the camera's internal temperature increases due to prolonged movie shooting or under a high ambient temperature, a white icon <🔥> will appear. Even if you shoot a movie while this icon is displayed, the movie's image quality will hardly be affected. However, if you shoot still photos, the image quality of the still photos may deteriorate. It is recommended to stop still photo shooting for a while and allow the camera to cool down.
- If the camera's internal temperature further increases while the white icon <🔥> is displayed, a red icon <🔥🔥> will start blinking. This blinking icon indicates that movie shooting will soon stop automatically. If this happens, you will not be able to shoot again until the camera's internal temperature decreases. Turn off the power and let the camera rest for a while.
- Shooting a movie at a high temperature for a prolonged period will cause the <🔥> and <🔥🔥> icons to appear earlier. When you are not shooting, turn off the camera.

### Recording

- If the attached lens has an Image Stabilizer and you set the Image Stabilizer (IS) switch to <ON>, the Image Stabilizer will operate at all times even if you do not press the shutter button halfway. The Image Stabilizer consumes battery power and may shorten the total movie shooting time or decrease the number of possible shots. If you use a tripod or if the Image Stabilizer is not necessary, it is recommended to set the IS switch to <OFF>.
- The camera's built-in microphones will also pick up the operation sound and mechanical sound of the camera during shooting. Use the Directional Stereo Microphone DM-E1 (sold separately) to reduce these sounds in the movie.
- Do not connect anything other than an external microphone to the camera's external microphone IN terminal.
- If the brightness changes during autoexposure movie shooting, that part may look momentarily still when you play back the movie. In such cases, shoot movies with manual exposure.

## **Movie Shooting Cautions**

### **Recording**

- If you use a card with a slow writing speed, a five-level indicator may appear on the right of the screen during movie shooting. It indicates how much data has not yet been written to the card (remaining capacity of the internal buffer memory). The slower the card, the faster the indicator will climb upward. If the indicator becomes full, movie shooting will stop automatically.



Indicator

If the card has a fast writing speed, the indicator will either not appear or the level (if displayed) will hardly go upward. First, shoot a few test movies to see if the card can write fast enough.

- If there is a very bright light source in the picture, the bright area may appear black on the LCD monitor. In movies, the bright areas will be recorded in almost the same way you see it on the LCD monitor.

### **Still Photo Shooting During Movie Shooting**

- Regarding the image quality of still photos, see “Image Quality” on page 171.

### **TV Connection**

- If you connect the camera to a TV set (p.262, 265) and shoot a movie, the TV will not output any sound during the shooting. However, the sound will be properly recorded.



## Cautions when [Movie servo AF] is set to [Enable]

### Shooting Conditions that Make Focusing Difficult

- A fast-moving subject approaching or moving away from the camera.
- A subject moving at a close distance in front of the camera.
- Also refer to “Shooting conditions that make focusing difficult” on page 165.
- Since using Movie Servo AF will consume battery power, the number of possible shots and the possible movie shooting time will be reduced.
- During zooming or image magnification, Movie Servo AF operation will be stopped momentarily.
- **During movie shooting, if a subject approaches / moves away, or if the camera is moved vertically or horizontally (panning), the recorded movie image may momentarily expand or contract (change in image magnification).**