



Recording Movies

1 Press **REC**.

The camera enters **REC** mode.

You can switch the camera to the movie mode from [Still/Movie] of the **[REC]4** menu.



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2 Focus on the subject.

When [Focus] is set to [AF], press **SHUTTER** halfway.

3 Press **SHUTTER** fully.

Recording starts.

The recording time is displayed while recording.



4 Press **SHUTTER** again.

Recording stops.

Caution

- When [Sound Recording] is set to [On] (default setting) in the **[REC]5** menu, camera operation sounds are also recorded.
- If recording a movie with [Image Control] set in the **[REC]6** menu, the movie file may be saved with some frames omitted.
- If the internal temperature of the camera becomes high during recording, recording may be terminated.
- The following functions cannot be used in **REC** mode.
 - Flash
 - Bluetooth®/Wireless LAN function

**Memo**

- Movies are recorded in **P** mode regardless of the mode dial setting. Exposure compensation is possible.
- AF can be set using the touch panel when [Touch AF] is set to [AF Point+Focus] or [AF Point+Focus+Shoot] in the **C 2** menu.
- You can record a movie continuously up to 4 GB or 25 minutes. Recording stops when the memory card or internal memory becomes full. The maximum recording time per shooting depends on the capacity of the memory card. (p.152) Shooting may stop even before the maximum recording time is reached.
- The amount of time remaining is calculated based on the amount of memory available and may not diminish at an even rate.
- Use a memory card of Speed Class 6 or higher for recording movies.
- The use of the battery with sufficient power or the optional AC adapter (D-AC166) is recommended.



Playing Back Movies

1 Press **■**.

An image is displayed in the single image display of playback mode.

2 Use **◀▶** to select a movie to play back.

The first frame of the movie is displayed as a still image.

3 Play back a movie.



▲/Tap	Plays back/pauses a movie.
▼/Double-tap	Stops playback.
⌚	Adjusts the sound volume (0 to 20).
◀▶	During playback: Fast-reverses and fast-forwards playback.
◀▶ /Slide	While playback is paused: Reverses and forwards a frame.
Fn	While playback is paused: Saves a still image as a JPEG file.
DISP	Switches between [Standard Info. Display] and [No Information Display].



Memo

- The sound volume at the start of movie playback can be set in [Playback Sound Volume] of the **■ 3** menu.
- In [Movie Edit] of the **■ 2** menu, a movie file can be divided into multiple segments or clipped. (p.108)



Setting the Focus

Setting the Focus Mode

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Taking Pictures

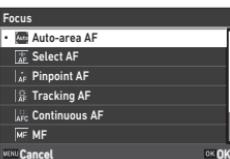
Auto Auto-area AF	Measures the distances from 5 × 5 AF areas and focuses to the nearest AF area. (Default setting)
AF Select AF	Focuses to the selected AF areas. (p.59)
AF Pinpoint AF	Focuses on a smaller area than [Select AF]. (p.59)
AF Tracking AF	Tracks the subject and continually focuses. (p.59) When SHUTTER is pressed halfway, the subject inside the frame in the center of the picture display is set as the target to be tracked, and a green target symbol appears. When a tracking target cannot be found, the frame blinks red.
AFC Continuous AF	Keeps focusing while SHUTTER is pressed halfway. (p.59) [Focus-priority] or [FPS-priority] can be set in [AFC Setting] of the 1 menu.
MF MF	Focuses manually. (p.60)
Snap Snap	Fixes the focus to the set distance. Set a distance in [Snap Focus Distance] of the 1 menu. Turn while pressing to change the set distance.
∞ ∞	Fixes the focus distance at infinity. This is useful for shooting distant scenes.

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1 Select [Focus] in the 1/1 menu, and press **►**.

2 Use **▲▼** to select a setting.

In mode, select from [AF], [MF], [Snap], and [∞].



3 Press **OK**.

4 Press **MENU**.

The focus mode icon appears on the shooting screen.



Memo

- [Focus] can be registered to [AJD Mode Setting] and [Fn Button Setting] of the 2 menu to use the function with the AJD lever and Fn button. (p.121, p.123)
- If [Set MF], [Set Snap], or [Set Tracking AF] is set to [Fn Button Setting], the focus modes can be switched with button operation only.
- When [Auto-area AF], [Select AF], or [Pinpoint AF] is set, faces of people are automatically detected. The setting can be changed to [Use only in Auto-area AF] or [Off] in [Face Detection] of the 1 menu.
- When [Auto-area AF], [Select AF], or [Pinpoint AF] is set, the AF assist light on the front of the camera lights as necessary. The AF assist light can be set to [Off] in [AF Assist Light] of the 1/1 menu.
- When [Focus Peaking] is set to [Highlight Edge] or [Extract Edge] in the 1/1 menu, the outline of the subject in focus is emphasized, and this makes it easier to check the focus.
- By default, the autofocus works with **Fn**. The action of **Fn** can be set in [Focus Settings] of [Fn Button Setting] in the 2 menu. (p.124)

Caution

- When [Shutter Button Setting] is set to [AE Lock] in the 2 menu, the autofocus does not work when **SHUTTER** is pressed halfway. (p.125)



Selecting the Desired AF Point

1 Set [Select AF], [Pinpoint AF], [Tracking AF], or [Continuous AF] in [Focus] of the 1 menu.

2 Press **OK** on the shooting screen.
The AF point can be changed.

3 Use **▲▼◀▶** to set an AF point.
Press and hold **OK** to reset the AF point to the center.

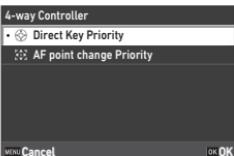


4 Press **OK**.
The AF point is set.



Memo

- When [4-way Controller] is set to [AF point change Priority] in the 2 menu, the AF point can be moved using **▲▼◀▶** without pressing **OK**. In this case, the button functions are as follows.



OK	Resets the AF point to the center.
Press and hold OK	Switches between the AF point setting by ▲▼◀▶ and the direct functions ().

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Focusing Manually (Manual Focus)

If the camera fails to focus automatically, you can focus manually. The manual focus enables shooting at a fixed distance.

1 Set [MF] in [Focus] of the 1/1 menu.

The focus bar appears on the shooting screen.

2 Press .

appears on the focus bar.

3 Taking Pictures

3 Use to set a focus distance.

Memo

- If [MF Auto Magnification] is set to [On] in the 1/1 menu, the image on the shooting screen is automatically magnified when shooting with [MF] setting, this makes it easier to focus.



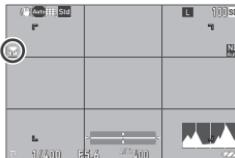


Shooting Close-ups (Macro)

The camera focuses to the range of 6 to 12 cm from the front edge of the lens.

1 Press **▲** () in the shooting mode.

The camera enters the macro mode and the macro icon appears on the shooting screen.



2 Shoot.

To cancel the macro mode, press **▲** again.

Memo

- The macro mode can be set to [On] or [Off] in [Macro Mode] of the  4/ 4 menu.
- When [Focus] is set to [Snap] or [∞], [Select AF] is applied.

Caution

- When [Focus] is set to [MF], pressing **▲** enables focus distance adjustment. (p.60) To enter the macro mode, set [Macro Mode] in the  4/ 4 menu.

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Shooting with a Single Press of the Shutter Release Button (Full Press Snap)

While pressing **SHUTTER** halfway operates autofocus, pressing **SHUTTER** fully quickly performs shooting at the set focal distance. This function is called "Full Press Snap". The camera focuses at the distance set in [Snap Focus Distance] of the **1** menu.

Set [Full Press Snap] of the **1** menu.

When set to [On], the icon and shooting distance are displayed on the shooting screen.



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On	Performs shooting by focusing at the distance set in [Snap Focus Distance] when SHUTTER is fully pressed.
Off	Performs autofocus and then shooting.



Caution

- "Full Press Snap" is not available in the following cases.
 - 1** mode
 - Macro mode
 - When [Focus] is set to [MF], [Snap], or [∞]
 - When [Drive Mode] is set to [Self-timer]



Memo

- Even when [Full Press Snap] is set to [On], the camera focuses at the setting in [Focus] when **SHUTTER** is pressed halfway.

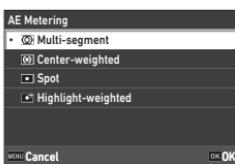




Setting the Exposure

Selecting a Metering Method

Set the metering method in [AE Metering] of the **2** menu.



	Meters exposure in multiple areas of the frame.
	Meters exposure with emphasis on the center.
	Meters exposure at the center of an image. Use this option when metering exposure in a part of an image or when the metering target subject is small.
	Meters exposure in multiple areas of the frame with emphasis on the bright areas.

Memo

- [AE Metering] can be registered to [ADJ Mode Setting] of the **2** menu to use the function with the ADJ. lever. (p.121)
- When [Link AE and AF Point] is set to [On] in the **2** menu, the metering point and the AF point can be linked when in the following combinations of the [AE Metering] and [Focus] settings.

AE Metering	Focus
Multi-segment	[Auto-area AF], [Select AF], [Pinpoint AF], [Tracking AF], or [Continuous AF]
Spot	[Select AF], [Pinpoint AF], or [Continuous AF]



Setting the ISO Sensitivity

1 Press **◀ (ISO)**.

2 Use **○** to change the value.

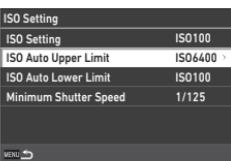
Values from ISO 100 to ISO 102400 can be set.

Press **Fn** to reset to ISO AUTO. Press **Fn** again to reset to the value set last.



Memo

- Images taken with a higher sensitivity may appear grainy.
- Depending on the ISO sensitivity setting, the setting of [D-Range Correction] in the **6** menu is disabled. (p.85)
- [ISO Setting] can be set to [ADJ Mode Setting] of the **C 2** menu to use the function with the ADJ. lever. (p.121)
- ISO sensitivity can be set in [ISO Setting] of the **1** menu. The detailed settings of ISO AUTO can be set from the menu.



ISO Auto Upper Limit	Select the highest ISO sensitivity for ISO AUTO.
ISO Auto Lower Limit	Select the lowest ISO sensitivity for ISO AUTO.
Minimum Shutter Speed	Select the shutter speed to increase the sensitivity for ISO AUTO.

- When the setting of [ISO Button] has been changed in [Fn Button Setting] (p.123) of the **C 2** menu, set in the **1** menu.





Using a Flash

When an external flash unit (optional) is connected to the camera, you can discharge a flash for shooting.

The following external flash units can be used.

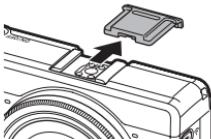
- AF540FGZ, AF540FGZ II
- AF360FGZ, AF360FGZ II
- AF201FG

Connecting a Flash Unit

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- 1 Remove the hot shoe cover from the camera.



- 2 Turn the camera and the external flash unit off and attach the flash unit to the camera hot shoe.

- 3 Turn the camera and the external flash unit on.



Caution

- Turn the external flash unit off before removing it from the camera.
- If the external flash unit is not recognized by the camera, turn the camera and external flash unit off and then remove and reattach the flash.



Using Other External Flash Units

- Use only flash units with one signal terminal, which must be an X-contact with a positive voltage of no more than 20 V.
- When other external flash units are used, you cannot set the flash mode. The flash always operates with [Flash On].
- A flash signal is output to the X-contact of the hot shoe regardless of the flash setting.
- Use an external flash unit with a lighting angle that covers the angle of view of the shooting lens.

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Setting the Flash Mode

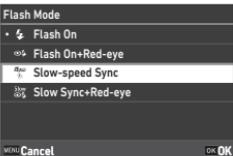
 Flash On	Always fires the flash. (Default setting)
 Flash On+Red-eye	Forces the flash to fire while reducing the red-eye phenomenon.
 Slow-speed Sync	Fires the flash with the shutter speed slowed. Use when taking nightscape pictures that include people. Use of a tripod is recommended to prevent blur.
 Slow Sync+Red-eye	Fires the flash with the shutter speed slowed while reducing the red-eye phenomenon.

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1 Select [Flash Mode] in the 2 menu, and press **►**.

2 Select [Flash Mode], and press **►**.

3 Use **▲▼** to select a flash mode, and press **OK**.



4 To compensate the flash exposure, select [Flash Exposure Comp.], and press **►**.

5 Select a compensation value, and press **OK**.

Settings can be made in the range from -2.0 to +1.0.



6 Press **MENU** twice.

 **Caution**

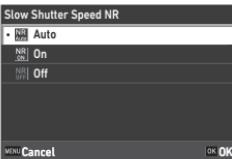
- In **Tv** and **M** modes, [Slow-speed Sync] and [Slow Sync+Red-eye] cannot be selected.



Reducing Noise

Slow Shutter Speed Noise Reduction

Using a long shutter speed results in a noisy image. When [Slow Shutter Speed NR] is set in the **6** menu, noise reduction processing is carried out.



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Auto	Applies the noise reduction according to the shutter speed, sensitivity, and internal temperature of the camera.
On	Applies the noise reduction when the shutter speed is slower than 1 second.
Off	Does not apply the noise reduction at any ISO setting.

The status lamp blinks while the processing of [Slow Shutter Speed NR] is being performed.

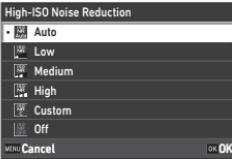
High-ISO Noise Reduction

You can reduce the amount of noise when image are taken with a higher sensitivity.

1 Select [High-ISO Noise Reduction] in [Noise Reduction] of the **6** menu, and press **▶**.

The [High-ISO Noise Reduction] screen appears.

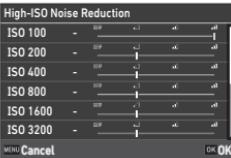
2 Use **▲▼** to select a setting.



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3Press **►**.

The ISO sensitivity setting screen appears.

4Use **▲▼** to select an ISO sensitivity and **◀▶** to select a level.**5**Press **OK**.**6**Press **MENU** twice.**Caution** -----

- When noise reduction is set, it may take longer than normal to save images.



Setting the White Balance

Make adjustments to the white balance so that white subjects will appear white under any kind of light.

If the white balance is not how you thought it would be when shooting an object of a single color or when shooting under multiple light sources, change the setting.

AWB Auto White Balance	Adjusts the white balance automatically.
 Multi Auto White Balance	Automatically optimizes the white balance to match each of the separate areas of light even when multiple light sources are mixed together, such as sunlight and flash. This cannot be selected in REC mode.
 Daylight	Used when shooting in daylight under clear skies.
 Shade	Used when shooting in shade.
 Cloudy	Used when shooting in daylight under cloudy skies.
 Fl. - Daylight Color	Used with daylight fluorescent lighting.
 Fl. - Daylight White	Used with neutral white fluorescent lighting.
 Fl. - Cool White	Used with cool white fluorescent lighting.
 Fl. - Warm White	Used with warm white fluorescent lighting.
 Tungsten	Used with incandescent lighting.
 CTE	Exaggerates the color of the light source to leave the color of the subject. Use this setting when you want to emphasize the color used for most part of the image.



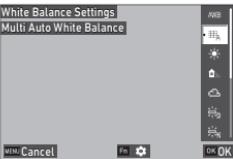
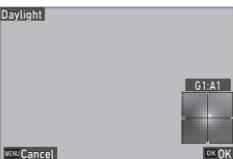
**1 Press **WB** (▼) in the shooting mode.**

The [White Balance] screen appears.

2 Use **▲▼ to select a setting.**

If no compensation is required, proceed to Step 6.

Refer to p.72 for details on [Manual White Balance] and p.73 for [Color Temperature].

**3 Press **Fn**.****4 Use **▲▼◀▶** to fine-tune the color.****5 Press **OK**.**

The screen in Step 2 reappears.



6 Press **OK**.

The white balance icon appears on the shooting screen.



Memo

- The white balance can be set in [White Balance] of the 3/ 3 menu.
- When [Composite Mode] is set to [Average] in [Multi-exposure] of [Drive Mode] (p.78), [Auto White Balance] is applied even if [Multi Auto White Balance] is set.
- To automatically adjust the white balance when the light source is specified, set [WB Fine-tuning] to [On] in the 3/ 3 menu.
- You can set the tungsten light color tone for [Auto White Balance] in [AWB in Tungsten Light] of the 3/ 3 menu.



Caution

- The white balance may not be adjusted correctly for a subject that is mostly dark.
- When using a flash, set the white balance to [Auto White Balance], [Multi Auto White Balance], or [Manual White Balance]. The white balance may not be adjusted correctly for other settings.

Setting the White Balance Manually

- 1 Select [Manual White Balance] in Step 2 on p.70.
- 2 Aim the camera at a white subject, such as a sheet of paper, under the light for shooting.
- 3 Press **DISP**.
An image to be used for white balance adjustment is taken.
- 4 Use **▲▼◀▶** to adjust the point.



- 5 Press **OK**.
The [White Balance] screen reappears.
- 6 Press **MENU**.
The shooting screen reappears.



Setting the Color Temperature

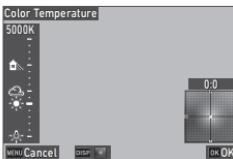
- 1 Select [Color Temperature] in Step 2 on p.70, and press **►**.

The [Color Temperature] screen appears.

- 2 Use **▲▼** to set a value.

The color temperature can be set between 2500 to 10000 K in increments of 10 K.

Press **DISP** to fine-tune the color.



3

- 3 Press **OK**.

The [White Balance] screen reappears.

- 4 Press **MENU**.

The shooting screen reappears.

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Setting the Drive Mode

1 Press (►) in the shooting mode.

The [Drive Mode] screen appears.

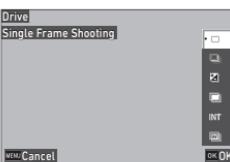
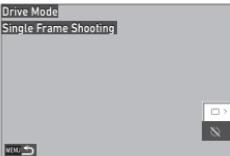
2 Press ►.

The [Drive] screen appears.

For [Self-timer], refer to p.84.

3

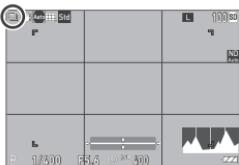
3 Use ▲▼ to select a drive mode.



	Takes a single picture per shooting.	—
	Performs continuous shooting while SHUTTER is pressed.	p.80
	Takes three images with different exposure settings.	p.77
	Takes images while merging them together. Up to five images can be merged.	p.78
	Takes pictures automatically at a fixed interval.	p.80
	Merges a series of continuous images taken at set intervals in such a way that the bright areas remain. Use this function when you want to record the trails of light formed by stars or the moon during nightscape shooting at a fixed position.	p.82

4 Press **OK**.

The drive mode icon appears on the shooting screen.



Memo

- The drive mode can also be set in [Drive Mode] of the **4** menu.

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Shooting Continuously (Continuous Shooting)

1 Select [Continuous Shooting] in Step 3 on p.74.

2 Press and hold **SHUTTER** on the shooting screen.

Pictures continue to be taken as long as you hold down **SHUTTER**.



Caution

- The flash cannot be used with this function.



Memo

- The maximum number of pictures that can be taken continuously with one release of the shutter is 999.



Shooting with Varied Exposure Values (Bracketing)

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Taking Pictures

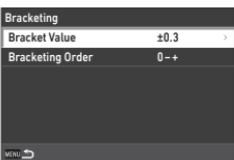
1 Select [Bracketing] in Step 3 on p.74, and press **Fn**.

The detailed setting screen appears.



2 Set [Bracket Value].

Select the bracket value in the range from ±0.3 to ±5.0.



3 Set [Bracketing Order].

Select the order of 3 images to be taken from [0 - +], [- 0 +], [+ 0 -], and [0 + -].

4 Press **MENU**.

The [Drive] screen reappears.

5 Press **OK**.

The shooting screen reappears.

6 Press **SHUTTER**.

Three images are saved in the set order with one release of the shutter.



Memo

- When using the flash, pictures are taken while automatically changing flash exposure.



Shooting While Merging Images Together (Multi-exposure)

1 Select [Multi-exposure] in Step 3 on p.74, and press **Fn**.

The detailed setting screen appears.



2 Use **▲▼◀▶** to change the setting.



Composite Mode	[Average]: Creates a composite image with the average exposure. [Additive]: Creates a composite image with the cumulatively added exposure. [Bright]: Creates a composite image replacing only the portions that are brighter compared with the first image.
Save Interim Images	Specifies whether to save unprocessed images and images in the middle of processing.

3 Press **MENU**.

The [Drive] screen reappears.

4 Press **OK**.

The shooting screen reappears.

5 Take the first image.



6 To take the next image, select [Next shot], and then press **OK**.

To retake the image, select [Retake shot].



7 Take the next image.

Repeat Steps 6 and 7.

To return to the previous merged image, select [Retake shot].

8 Select [Complete] to end shooting.

The merged image is saved.



Caution

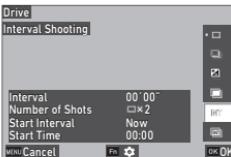
- [File Format] of the **5** menu is fixed to [JPEG].
- The settings for the following functions cannot be changed during the multiple exposure shooting.
 - [File Format], [Aspect Ratio], [Crop], and [JPEG Recorded Pixels] of the **5** menu
 - [Image Control] of the **6** menu

Shooting Automatically at Set Intervals (Interval Shooting)

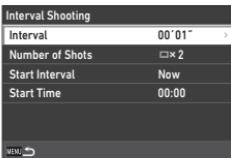
The camera takes pictures automatically at fixed intervals.

1 Select [Interval Shooting] in Step 3 on p.74, and press **Fn**.

The detailed setting screen appears.



2 Use **▲▼◀▶** to change the setting.



Interval	Specifies the shooting interval to the minimum time or in the range up to 60 minutes.
Number of Shots	Specifies the number of shots to [∞] or from [2] to [99].
Start Interval	Specifies whether to take the first image immediately or at the set time.
Start Time	Specifies the time when [Start Interval] is set to [Set Time].

3 Press **Fn**.

The [Drive] screen reappears.

4 Press **Fn**.

The shooting screen reappears.

5 Press **SHUTTER**.

When [Start Interval] is set to [Now], the first image is taken. When [Set Time] is set, shooting starts at the set time.

To cancel shooting, press **Fn**.

**Caution**

- Depending on the shooting settings, the time until the next picture is taken may be longer than the time set for interval shooting.
- When the shooting interval is short, the exposure for the first image may be used for the second and later images.
- The interval shooting is canceled if the shooting mode is changed or the power is turned off.

**Memo**

- For each interval shooting, a new folder is created and the captured images are saved there.
- If shooting is performed with “Full Press Snap” when [Focus] (p.57) is set to [MF], [Snap], or [∞] in the 1 menu, the focus is fixed at the position of the first shot.
- The use of the battery with sufficient power or the optional AC adapter (D-AC166) is recommended.

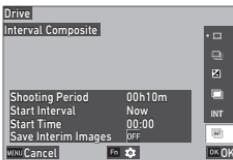
Recording Star Trails (Interval Composite)

- 1 Mount the camera on a tripod.
- 2 Set the mode dial to the settings other than **P** and then take a test shot.

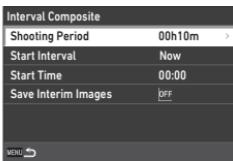
Set the exposure, focus mode, and white balance, and then check the composition. Images are merged with this exposure setting.

- 3 Select [Interval Composite] in Step 3 on p.74, and press **Fn**.

The detailed setting screen appears.



- 4 Use **▲▼◀▶** to change the setting.



Shooting Period	Specifies the shooting period to [∞] or in the range from 10 minutes to 24 hours.
Start Interval	Specifies whether to take the first image immediately or at the set time.
Start Time	Specifies the time when [Start Interval] is set to [Set Time].
Save Interim Images	Specifies whether to save unprocessed images and images in the middle of processing.

- 5 Press **MENU**.

The [Drive] screen reappears.



6 Press **OK**.

The shooting screen reappears.

7 Take the first image.

Images are taken continuously at the shortest interval.

To check the images being merged, press **SHUTTER** halfway.

If **SHUTTER** is pressed fully, the images merged up to that point are saved as they are, and the interval composite shooting starts with a new image.

8 Press **OK** to end shooting.

The merged image is saved.



Caution

- The image at the time of pressing **OK** during shooting is not merged.
- The interval shooting is canceled if the exposure mode is changed or the power is turned off.
- The flash cannot be used with this function.
- The ISO sensitivity cannot be set to higher than ISO 1600.
- The shutter speed cannot be set to longer than 60 seconds.
- [Slow Shutter Speed NR] of [Noise Reduction] in the **6** menu and [Shake Reduction] of the **7** menu are fixed to [Off].



Memo

- For each interval composite, a new folder is created and the images are saved there.
- The values of the following settings are fixed when the first image is taken.
 - ISO sensitivity, shutter speed, and aperture value when [ISO AUTO] is set
 - White balance value when the white balance is set to [Auto White Balance]
- Autofocus operation is only performed for the first image.
- During shooting in a dark location, using the optional external viewfinder (GV-1/GV-2) is convenient.



Using the Self-timer

In the drive modes other than [Continuous Shooting], [Self-timer] can be used.

The self-timer can be set to [10sec.] or [2sec.].

The AF assist light blinks during the countdown for self-timer shooting.



3



Memo

- The self-timer can only be used for the first image in [Interval Shooting] and [Interval Composite].
When [Start Interval] is set to [Set Time], the self-timer cannot be used.
- You can set the AF assist light not to blink during the countdown. (p.129)

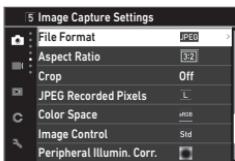




Configuring the Capture Settings

Image Capture Settings

Set the file format for still pictures in [Image Capture Settings] of the 5 menu.



File Format	[JPEG] [RAW]: Records an L sized RAW image (DNG format). [RAW+JPEG]: Records a RAW image simultaneously with an L sized JPEG image.
Aspect Ratio	[3:2], [1:1]
Crop	[35mm], [50mm], [Off]
JPEG Recorded Pixels	[L], [M], [S], [XS]
Color Space	[sRGB], [AdobeRGB]



Memo

- When [Aspect Ratio] is set to [1:1], black band(s) appears at the right and left sides of the picture display.
- [Image Capture Settings] can be registered to [ADJ Mode Setting] or [Fn Button Setting] in the 2 menu to use the function with the ADJ. lever and Fn button. (p.121, p.123)
If [JPEG → RAW] or [JPEG → RAW+] is set to [Fn Button Setting], the image format can be switched with button operation only.



Shooting RAW Images

- A RAW image can be converted to JPEG format in [RAW Development] of the 2 menu. (p.101)
- The following functions are not reflected in RAW images. These functions can be reflected when a RAW image is converted to JPEG format in [RAW Development] of the 2 menu.
 - Image Control
 - D-Range Correction

When [RAW+JPEG] is set, the functions mentioned above are reflected in JPEG images only.





Crop

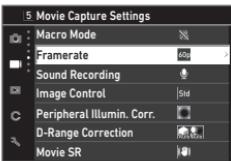
- When [Crop] is set to [35mm] or [50mm], the 35 mm equivalent angle of view is changed from default 28 mm to 35 mm or 50 mm, and the image display is also changed.
- When [Crop] is set, available [JPEG Recorded Pixels] settings are limited.

Crop	JPEG Recorded Pixels
35mm	[L] is not available.
50mm	[L] and [M] are not available.

3

Movie Capture Settings

Set the file format for movies in [Movie Capture Settings] of the menu.



Framerate	[60p], [30p], [24p]
Sound Recording	[On], [Off]



Setting the Image Finishing Tone and Correction

Using the ND Filter

With [ND Filter] in the 2/ 2 menu, you can set whether or not to always use the camera's internal ND filter.



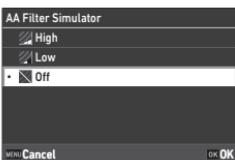
Auto	The camera determines whether to turn the function on or off according to conditions. The ND filter is used if the icon is displayed on the shooting screen when is pressed halfway. [Auto] cannot be selected in mode.
On	The ND filter is always used. The icon is displayed on the shooting screen.
Off	The ND filter is not used.

Memo

- If [ND Filter] is set to [Fn Button Setting] in the 2 menu, the settings can be switched with button operation only. (p.123)

Reducing Moiré (AA Filter Simulator)

A moiré reduction effect simulating that of a low-pass filter can be achieved with [AA Filter Simulator] of the 4 menu. [High], [Low], or [Off] can be selected.



Caution

- When shooting with a fast shutter speed, the full effect of this function may not be achieved.

Setting the Image Atmosphere (Image Control)

Images with varied saturation and contrast can be taken.
The settings such as the hue can be changed to take distinctive images.

 Std Standard	Takes images with normal image quality.
 Vi Vivid	Takes images with high [Contrast], [Sharpness], and [Saturation] settings that give hard impression.
 BW Monotone	Takes a black and white image.
 Soft BW Soft Monotone	Takes a black and white image that gives soft impression.
 Hard BW Hard Monotone	Takes a black and white image that gives hard impression.
 Hi-Contrast B&W Hi-Contrast B&W	Takes a black and white image with stronger contrast. Makes it possible to take images with a grainy feel, such as that created with ultra-high-sensitivity film in a film camera or with push processing film at the development stage.
 Posi Positive Film	Takes highly saturated images like those taken with positive film.
 BB Bleach Bypass	Takes images with low saturation and high contrast.
 Retro Retro	Takes images that look like old photos.
 HDR HDR Tone	Takes images finished like a painting with enhanced fine contrast.
 Custom1 Custom2	Two settings can be registered.



1 Select [Image Control] in the 6/6 menu, and press ►.

The [Image Control] screen appears.

2 Use \blacktriangle \blacktriangledown to select an image.

Proceed to Step 6 if you do not need to change the parameters.



3 Press **Fn**.

The detailed setting screen appears.

4 Use \blacktriangleleft \blacktriangleright to change the setting.

Available parameters vary depending on the selected image.



5 Press **OK**.

The screen in Step 2 reappears.

6 Press **OK**.

7 Press **MENU**.

The icon appears on the shooting screen.



Caution -

- [Soft Monotone] and [HDR Tone] cannot be selected in  mode.
- The [Image Control] setting is not applied to RAW images. It can be set when [RAW Development] of the  2 menu is performed. (p.101)



Memo

- [Image Control] can be registered to [ADJ Mode Setting] or [Fn Button Setting] in the **C** 2 menu to use the function with the ADJ. lever and Fn button. (p.121, p.123)

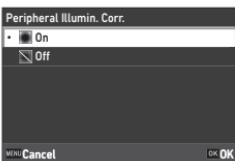
3 Making Pictures

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Correcting the Peripheral Illumination

With [Peripheral Illumin. Corr.] of the 6/ 6 menu, you can reduce peripheral light fall-off occurring due to lens properties.

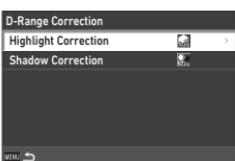


3

Taking Pictures

Correcting a Range of Tones (D-Range Correction)

With [D-Range Correction] of the 6/ 6 menu, you can expand an image gradation to make the bright and dark portions of an image clearly visible.



	[Auto], [On], or [Off] can be selected. [On] cannot be selected in mode.
	[Auto], [Low], [Medium], [High], or [Off] can be selected.



Caution

- When [Shadow Correction] is set to [High], noise tends to occur more easily in images.
- When the shooting location is too bright or too dark, the [D-Range Correction] setting may not be effective.





Reducing Blurring of Images

To automatically reduce blurring of images, set the following functions. By default, both settings are set to [On].

Still image mode	[Shake Reduction] of the 7 menu
Movie mode	[Movie SR] of the 7 menu



Memo

- If [Shake Reduction] is set to [Fn Button Setting] in the 2 menu, the Shake Reduction function can be turned on and off with button operation only. (p.123)
- When [Self-timer] is set in [Drive Mode], [Shake Reduction] is automatically set to [Off]. To fix the setting to [On], set [Auto SR Off] to [Disable Auto SR Off] in the 7 menu.

3

Taking Pictures

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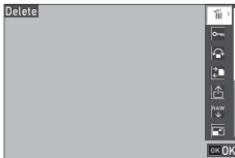


Playback Functions

Using the Playback Functions

You can set the playback functions from the **■** menu or on the playback functions setting screen.

Press **■** in the playback mode to display the playback functions setting screen. The **■ 1/2** menu settings can be set on the playback functions setting screen.



4

Caution

- The playback functions that are not supported by the displayed image cannot be used.



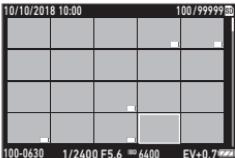
Changing the Playback Method

Displaying Multiple Images

You can display multiple images in the thumbnail view.

1 Turn to the left once in the single image display of playback mode.

Multiple images are displayed.



4

Playback Functions

The following operations are available.

	Moves the selection frame.
	Switches between 20-image view and 48-image view.
	Deletes the selected image.
	Displays the menus.
	Displays the playback functions setting screen.

2 Press .

The selected image is displayed in the single image display.

Memo

- Images are played back in the order of file numbers automatically assigned to images. The playback order can be changed to [Shooting Date/Time] in [Playback Order Options] of the 3 menu.

Selecting and Deleting Multiple Images

- 1 Press  on the screen in Step 1 of "Displaying Multiple Images" (p.93).
- 2 Select images in multi-image display.



4

	Moves the selection frame.
	Selects/Deselects an image.
	Selects the starting or ending point for image selection range.

- 3 Press .
- The deletion confirmation screen appears.
- 4 Select [Execute], and press .
- The selected images are deleted.



Memo

- You can select up to 500 images at a time.
- Protected images cannot be selected.
- The method to select multiple images is the same also for the following functions.
 - Protect (p.98)
 - File Transfer (p.100)

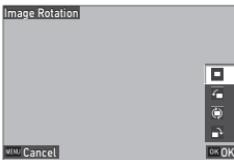
Display the  menus or playback functions setting screen in Step 1 of "Displaying Multiple Images" (p.93), and select the function.



Rotating Images

You can change image rotation information.

- 1 Select [Image Rotation] in the **1** menu or on the playback functions setting screen, and press **►**.
- 2 Select the rotation direction, and press **OK**.



4



Memo

- When [Auto Image Rotation] is set to [On] in the **3** menu, the displayed image is rotated according to the camera's orientation. When set to [Off], the image display orientation is fixed regardless of the [Image Rotation] setting.



Caution

- Rotation direction cannot be changed when the write-protect switch on the memory card is locked or for the following images.
 - Movies
 - Protected images





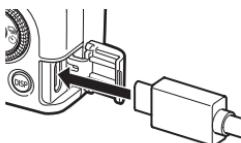
Connecting the Camera to an AV Device

Connect to an AV device, such as TVs equipped with a DisplayPort, to display Live View images while shooting or to play back images.

The USB terminal (USB Type-C) on this camera supports DisplayPort. Prepare a commercially available DisplayPort cable that is suitable for the device connected to the camera.

1 Turn the AV device and camera off.

2 Open the terminal cover of the camera, and connect the DisplayPort cable to the USB terminal.



3 Connect the other end of the DisplayPort cable to the input terminal on the AV device.

For details, refer to the operating manual for the AV device.

4 Turn the AV device and camera on.

Caution

- While the camera is connected to an AV device, nothing is displayed on the camera monitor.
- The audio of the video is output from the AV device. Adjust the volume on the AV device.
- To output images to a device with an HDMI® terminal, used a DisplayPort-to-HDMI® adapter. Some DisplayPort-to-HDMI® adapters cannot be used with this camera.

Memo

- If the camera is connected to an AV device in the playback mode, an image is displayed in the single image display.



Organizing Files

Deleting Files

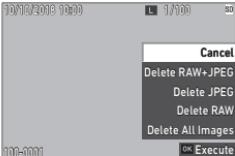
1 Select [Delete] in the **■ 1** menu or on the playback functions setting screen.

2 Select [Delete 1 image] or [Delete All Images].

When [Delete 1 image] is selected, use **◀▶** to select an image.

For images taken with [File Format] set to [RAW+JPEG], you can select file formats to delete.

When [Delete All Images] is selected, you cannot select file formats to delete.



4

Playback Functions

3 Press **OK**.

The image is deleted.

Repeat Steps 2 and 3 to delete another image.

To end the process, select [Cancel].



Caution -----

- The touch panel is not available for image deletion.



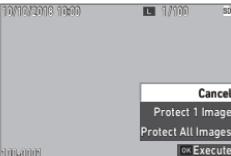
Protecting Images from Deletion

You can protect images to prevent them from being deleted accidentally.

1 Select [Protect] in the  1 menu or on the playback functions setting screen.

2 Select [Protect 1 Image] or [Protect All Images].

When [Protect 1 Image] is selected, use   to select an image.



4

3 Press .

When [Protect 1 Image] is selected, the selected image is protected.

To protect another image, repeat Steps 2 and 3.

When [Protect All Images] is selected, select [Protect] or [Unprotect]. All images are protected or unprotected.



 **Memo** -----

- To unprotect the image, set [Protect] again.

 **Caution** -----

- If [Format] of the  1 menu is performed, protected images are also deleted.



Copying Images and Movies in the Internal Memory to a Memory Card

You can copy the still images and movies stored in the internal memory to a memory card.

1 Insert a memory card.

2 Select [**Image Copy**] in the **■ 1** menu or on the playback functions setting screen, and press **▶**.

3 Select [**Execute**], and press **OK**.

A message appears to indicate processing is being performed, and the still images and movies stored in the internal memory are copied in a new folder.



Caution

- If there is not enough space available on the copy destination memory card, a message indicating that there is insufficient space appears.
- Copying from a memory card to the internal memory is not possible.

4

