

SIGMA  
BF

INSTRUCTION MANUAL

Digital Camera  
FW Ver.1.00

C46EN2542  
E English

## Thank you for purchasing the Sigma BF.

- Please read this manual carefully so that you will learn how to use the product correctly. Be sure to read the “**SAFETY PRECAUTIONS**” on page 11 and “**PRECAUTIONS FOR HANDLING**” on page 16 before using your camera.
- Please keep the instruction manual available whenever necessary and refer to it if you have any questions.
- For details on the warranty and after-sales service for this product, please check the Sigma website.

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## COPYRIGHT, TRADEMARKS, AND LICENSES

Under copyright law, images recorded with this camera may not be used without the permission of the copyright owner, except for the purpose of personal enjoyment. Please note that some demonstrations, shows, exhibitions, etc. may restrict recording even for reasons of personal enjoyment.

- DNG is a trademark or registered trademark of Adobe Systems Incorporated in the United States and/or other countries.
- Other company and product names in this booklet are trademarks or registered trademarks of the respective companies.
- This product is licensed under the AVC Patent Portfolio License, but not licensed for any use other than the personal or non-commercial use of the customer in connection with the activities described below.
- The image information shall be recorded in compliance with the AVC standard (hereinafter referred to as “AVC video”).
- The AVC video recorded by a consumer engaged in a personal activity, or the AVC video obtained from a licensed provider shall be played.
- For details, please refer to the MPEG LA, L.L.C. website (<http://www.mpegla.com>).



For details on the open source software, please visit the Sigma website.



[sigma-global.com/en/support/open-source-software.html](http://sigma-global.com/en/support/open-source-software.html)



### Disposal of Electric and Electronic Equipment in Private Households

Disposal of used Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol indicates that this product shall not be treated as household waste.

Instead it shall be collected separately for the recycling of electrical and electronic equipment. If the new products are purchased, this product might be handed over to the distributor or the collection system of waste electrical and electronic equipment eventually. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product or components of this product. If this product is disposed illegally, it might cause a possibility of penalties. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you have purchased the product.



The CE Mark is a Directive conformity mark of the European Community (EC).

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**UK  
CA**

To users in the UK (excluding Northern Ireland)

UK Importer: The following importer description applies to products imported into the UK directly by SIGMA Imaging (UK) Ltd.

SIGMA Imaging (UK) Ltd.

1 Little Mundells, Welwyn Garden City, Hertfordshire, AL7 1EW

SIGMA C361



Tested To Comply  
With FCC Standards

FOR HOME OR OFFICE USE

SIGMA CORPORATION OF AMERICA

15 Fleetwood Court, Ronkonkoma, NY 11779, U.S.A.

TEL: 631 585 1144

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For customers in the U.S.A.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does

cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of interface cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Any changes or modifications to this equipment not specified in this manual may void your warranty.

For customers in the Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



Australian RCM

## CHECKING THE CAMERA AND ACCESSORIES

Before using the camera, please check that you have all of the following items. If any of the following items are missing, please contact the store where you purchased the camera.

1. BF Camera Body
2. Body Cap (on the camera)
3. Li-ion Battery BP-81
4. Start Guide
5. Booklet
6. Limited Warranty
7. Warranty Sticker

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## SAFETY PRECAUTIONS

To avoid causing damage or injury, please read this instruction manual carefully, before using the camera. Please take special note of the following two cautionary symbols.

-  Warning !! warning sign may cause serious injury or other dangerous results.
-  Caution !! Using the product disregarding this caution sign may cause injury or damage.
-  This symbol denotes a warning or point, where caution is required.
-  This Symbol contains information regarding the actions that must be avoided.

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 **WARNING (BATTERY)**  
**FAILURE TO FOLLOW THE WARNINGS, CAUTIONS, AND PROHIBITIONS MAY RESULT IN EXPLOSION, LEAKAGE, OR FIRE.**

-  Do not use any battery other than that specified in the instruction manual.
-  Do not use the battery in any equipment other than that specified.
-  If you want to charge the battery by itself, use the dedicated battery charger (sold separately).
-  Store the battery in a cool, dry place. Do not expose to rain or moisture.
-  Do not expose the battery to direct sunlight or near fire.
-  Do not charge, use, or store the battery in places with extremely low air pressure.

-  Do not subject the battery to strong impacts or vibrations or throw it.
-  Never disassemble or modify the battery.
-  Do not short-circuit the battery with metal pieces or other objects.
-  Discontinue use if you notice any abnormalities with the battery, such as swelling.

---

 **WARNING (BATTERY) OTHERS**

-  Keep batteries away from children. Replace batteries with adult supervision always.
-  If for some reason, the camera or batteries emit smoke, or if overheating or the smell of burning is detected, remove the batteries, taking care to avoid being burned. Take the camera to an authorized Sigma service station.
-  When disposing of a battery, make sure it is completely discharged and insulate the contacts with tape or similar. Please follow all guidelines, rules and regulations of your community regarding the disposal of batteries.
-  If you do not use the camera for a long period of time, remove the battery. This may cause the battery to leak and damage the camera.
-  If any fluid leaking from the battery comes into contact with your skin or clothes, immediately wash it off with clean water to avoid skin rashes.

 **WARNING (ABOUT THE BUILT-IN BATTERY)**

 **WARNING**

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.
- **KEEP** new and used batteries **OUT OF REACH** of **CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate. Even used batteries may cause severe injury or death. Call a local poison control center for treatment information. Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

Product contains an non-replaceable battery.

Battery type: MS621T

Nominal voltage: 3.0V

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 **WARNING (CAMERA)**

 Never use your camera in an environment where flammable or burnable, gas, liquids or chemicals, such as Propane, Gasoline, etc., are present.

 Keep the camera in a safe place that children cannot reach. Playing with the camera strap around one's neck can cause strangulation.

 Do not disassemble the camera; Doing so can cause electric shocks and burns.

 Do not touch internal parts of the camera that become exposed as a result of damage, it could cause fire or electric shock. Remove the batteries and contact an authorized Sigma service station.

 Do not look at the sun with the lens of your camera; otherwise you could lose your eyesight.

 Keep the camera away from moisture or water. If you drop your camera/lens in water, please contact an authorized Sigma service station. If you use the camera with this condition it can cause electric shock or fire.

 Prevent water, or metallic and other conductive objects from coming into contact with the terminals of the camera body. This can result in electric shock, overheating and fire.

---

 **CAUTION (CAMERA)**

 Do not leave the camera without the lens cap in place. Light entering through the lens for long periods of time could cause damage to the camera.

 Please do not carry your camera while a tripod is attached, as this could result in injury or a fall.

 Please do not grasp the camera with wet hand, as it might cause electric shock

 Do not leave the camera in a hot place or in a car parked in the sun. If the camera becomes hot, it might cause burns to the skin.

 If the liquid crystal display (LCD) monitor becomes damaged, be careful of the fragments of glass, which can cause injury. Also, please be careful not to touch the liquid inside the LCD monitor or get it in your eyes or mouth.

## PRECAUTIONS FOR HANDLING

### Before use

Before taking important photos, be sure to check and take test photos in advance to make sure that the camera is working properly. We cannot compensate for expenses incurred when shooting or any loss of profits that could have been gained from shooting.

We recommend bringing multiple fully charged batteries when traveling for extended periods, shooting outdoors, shooting in cold environments, shooting movies, or taking a large number of photos.

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## OPERATING ENVIRONMENT AND PRECAUTIONS

- The camera is a precision instrument. Do not bump or drop it.
- This camera is dust-proof and splash-proof so it can be used in light rain, however, it is not waterproof. When using this camera near water, be careful to avoid excessive exposure to water. If water gets inside the camera, it may cause serious damage and become irreparable.
- Do not leave the camera in a dusty or hot and humid location (especially inside a car during the day) for long periods of time.
- When taking the camera from a cold location into a warm room, water droplets may form on the camera. Place the camera in a plastic or other type of bag and adjust to the surrounding temperature before using it.

- This camera can be used in temperatures between 0°C and +40°C, and at humidity levels below 85% (no condensation). The battery performance decreases if the temperature drops below 0°C. In cold locations, we recommend that you carry a spare battery and use it alternately while putting it in your pocket to keep it warm.
- The camera may occasionally stop working due to a static electricity and magnetic fields. In such a case, remove the battery and reinsert it. The camera may not function properly in locations containing strong radio waves or magnetic fields.

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## PRECAUTIONS FOR LONG-TERM SHOOTING

- The surface of the camera may become hot, however, this is not a malfunction.
- If you shoot a movie or take continuous pictures for long periods of time, it may cause the sensor to heat up and subsequently reduce image quality. If a warning mark () is displayed in the header, you should change the shutter speed and ISO settings so that the warning mark disappears, or turn off the camera and wait for the temperature to drop before shooting again.
- When the camera temperature rises, the warning mark () is displayed. If the temperature rises further, a message is displayed and the camera turns off. To allow the temperature to drop sufficiently, leave the camera for at least 10 minutes.

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## ABOUT THE LCD MONITOR

- The LCD monitor may have some pixels that are always turned on or always turned off due to its characteristics, however, this is not a malfunction. This does not affect the recorded data. Please note the above.
- Due to the characteristics of the LCD, the display response may be slower in low temperatures. Also, the display may turn black at high temperatures, but will return to normal if it reaches room temperature.

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## ABOUT THE LENSES

This product uses the L-Mount. Your camera can use interchangeable lenses for L-Mount.

- The Sigma BF has a 35mm full-frame image sensor. In order to take full advantage of the capability of the image sensor, it is recommended that L-Mount lenses are used for full size format. You can use lenses for APS-C format in DC Crop mode, which limits the recording area of the image sensor for APS-C size.
- Sigma MC-21 Mount Converter (optional) allows you to use Sigma SA mount interchangeable lenses or Sigma interchangeable lenses for Canon EF mount.
- Depending on the release date of the lens, updating the lens firmware may be required. It may also be necessary to update the camera firmware. Please check our website for the latest information about the corresponding lens.  
[sigma-global.com/en/](http://sigma-global.com/en/)
- Please note that attaching third-party products that do not comply with L-mount standards may cause camera malfunction.

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## **ELECTRONIC SHUTTER**

This product is not equipped with a mechanical shutter mechanism. It uses an electronic shutter that electrically controls the image sensor to adjust the exposure time.

The electronic shutter has advantages of being silent and having no vibrations, and enables faster continuous shooting. However, the electronic shutter has disadvantages, so be sure to note the following points.

- Uneven exposure can easily occur under a flickering light source such as a fluorescent light, so use the slower shutter speed.
- When shooting a fast-moving subject, distortion may occur.

## **CARE INSTRUCTIONS**

- When cleaning the body or lens, never use organic solvents such as thinner or benzene as they will damage the surface finish. Gently wipe the body and lens barrel using a soft, clean cloth. Gently blow any dust off the lens surface using a commercially available blower. If fingerprints or other marks are left on the lens, carefully wipe them off using a commercially available lens cleaner.
- If dust or debris has adhered to the LCD monitor, blow it off using a commercially available blower. If the monitor is very dirty, wipe it gently using a soft, clean cloth.

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## **CLEANING THE DUST PROTECTOR**

Blow away any dust on the dust protector (image sensor protection glass) using a blower. If there are any fingerprints on the glass of the dust protector, first blow away any dust using a blower, then gently wipe it using a soft, clean cloth. If any stubborn stains or dust remains, contact our service station for cleaning services.

### **WARNING**

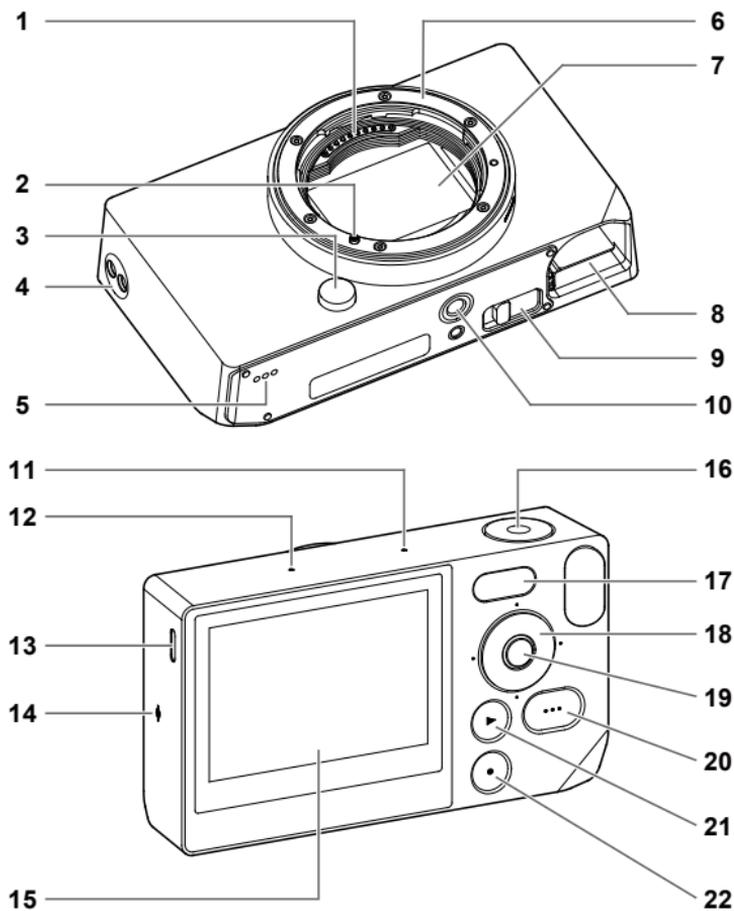
- Do not use an aerosol compressed air cleaner. Liquid squirts depending on the injection angle, which may damage the dust protector.
- Please do not use the blower with a brush. If a brush is attached, it may scratch the dust protector.

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### **STORAGE**

- If you will not be using the camera for a long period of time, remove the battery to prevent the camera from being damaged due to leakage of battery acid.
- Store the camera in a dry, well-ventilated place to prevent mold and rust from forming. It is also worthwhile storing the camera in a plastic bag containing desiccant. However, the desiccant has an expiration date, so please replace it from time to time. Do not store the camera together with insect repellents such as naphthalene, as they will have a detrimental effect on the camera.

## DESCRIPTION OF THE PARTS



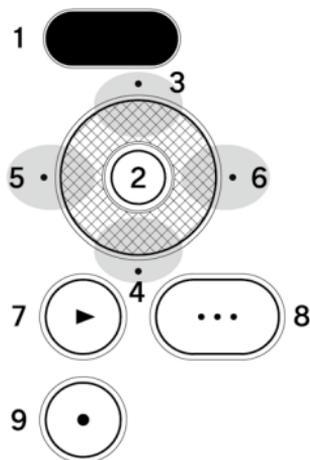
1	Lens Signal Contacts
2	Lens Mount Index / Lens Lock Pin
3	Lens Lock Button
4	Strap Holes
5	Speaker
6	Lens Mount
7	Image Sensor / Dust Protector
8	Battery Compartment
9	Battery Removal Lever
10	Tripod Socket
11	Microphone (Right)
12	Microphone (Left)
13	USB Port (USB3.0, Type-C)
14	Focal Plane Mark
15	LCD Monitor / Touch Panel
16	Shutter Button
17	Status Monitor
18	Dial
19	⊙ (Center) Button
20	⋮ (Option) Button
21	▶ (Playback) Button
22	● (Power) Button

### CAUTION

- Be careful not to touch the dust protector (image sensor protective glass) (7).

## DIAL AND OPERATION BUTTONS

- The dial also functions as a directional button. In this manual, each position is represented by  $\wedge$ ,  $\vee$ ,  $\langle$ , or  $\rangle$ .



1. Status Monitor
2.  $\odot$  (Center) button
3.  $\wedge$  (Up) button
4.  $\vee$  (Down) button
5.  $\langle$  (Left) button
6.  $\rangle$  (Right) button
7.  $\blacktriangleright$  (Playback) button
8.  $\cdots$  (Option) button
9.  $\bullet$  (Power) button

- The up and down operations of the directional button are represented by  $\diamond$ , the left and right operations are represented by  $\langle \rangle$ , and the up, down, left and right operations are represented by  $\diamond \langle \rangle$ .
- Each position button on the dial and the  $\odot$  button,  $\blacktriangleright$  button, and  $\cdots$  button can be operated in two ways: by touching or pressing.



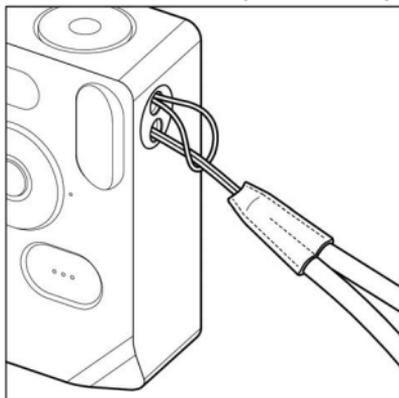
## PREPARATION

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### TO ATTACH THE HAND STRAP

This product does not come with a hand strap. If you want to use a hand strap, please purchase the dedicated hand strap HS-11B or HS-11G, sold separately.

Attach the hand strap to the strap hole.



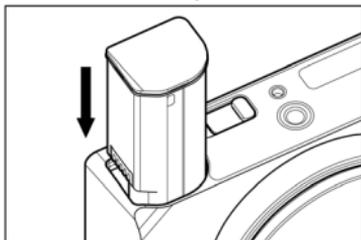
---

## TO CHARGE THE BATTERY

Insert the included dedicated lithium-ion rechargeable battery “Battery Pack BP-81” (hereafter referred to as the battery) into the camera, and charge it using a commercially available USB AC adapter or computer. The battery is not charged when purchased. Please charge it before use.

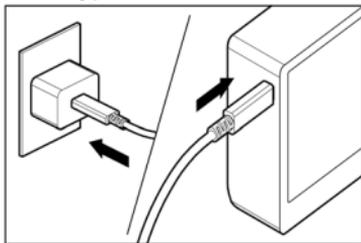
1

Insert the battery into the battery compartment of the camera.



2

To charge, connect the camera to a commercially available USB AC adapter or computer using a commercially available USB Type-C cable.



- During charging, the battery charge status (remaining battery power level) is displayed on the status monitor.

⚡ 96%

- When a USB PD adapter (9V/3A) is used, the charging time is approximately two to three hours.
- The charging time varies depending on the adapter and computer specifications.
- When the battery power level reaches 100%, charging is complete, and the status monitor turns off.
- This camera supports USB PD (USB Power Delivery). We recommend a USB PD adapter compatible with the 9V/3A output.
- When charging with a USB PD adapter, use a USB Type-C cable compatible with 3A.

### **CAUTION**

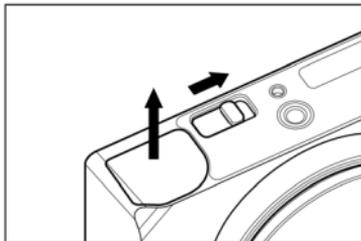
- If the number of images that can be taken on a single charge is significantly reduced, the battery is reaching the end of its lifespan. Replace it with a new one.
- Do charging in a location between 0°C and 45°C.
- The charging time will be longer in low temperatures (below 10°C).
- When connecting to a computer, be sure to connect to the USB port on the computer body. Do not connect it to the USB socket of a monitor, keyboard, or USB hub.
- If the computer enters Sleep mode during charging, charging may be stopped.

### **TIP**

- When the battery is connected to an AC adapter or computer, power is supplied to the camera at the same time as it charges, allowing you to operate the camera. (Keep the battery in the camera.)
- The battery can be charged with BC-81 battery charger (optional). (P.169)

## HOW TO REMOVE THE BATTERY

Slide the battery release lever to remove the battery.



## WARNING

- Never remove the battery while images are being written or transferred. Otherwise, image files may be lost.



Image writing sign

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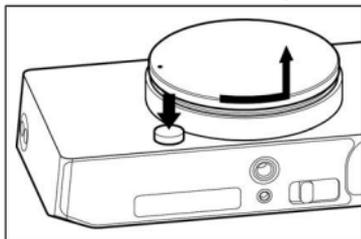
## MOUNTING AND REMOVING THE LENS

1

Turn the camera off.

2

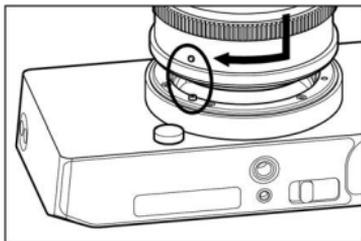
Remove the lens rear cap and the camera body cap.



– To remove the body cap, turn it counterclockwise while pressing the lens release button.

3

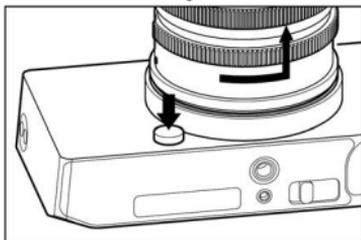
Align the lens mount index on the camera with the index on the lens. Insert the lens into the mount of the camera and rotate the lens clockwise until it clicks into the locked position.



### CAUTION

– To ensure the lens fits correctly, do not press the lens lock button while attaching the lens. Make sure that the lens is locked in place.

To remove the lens, press the lens lock button and turn the lens counter-clockwise until it stops. Gently remove the lens from the camera body.



### CAUTION

- On the mount surface of the lens, there are a number of electrical contacts. Scratches or dirt may cause the camera to malfunction.

---

## TURNING THE POWER ON/OFF

This section describes how to operate the  (power) button and the mode that reduces the rate of battery consumption.

### WHEN THE CAMERA TURNS OFF:

Press the  button to turn the power on.

### WHEN THE CAMERA IS TURNED ON:

Short-press (\*1) the  button to shift to Sleep mode\*.

Long-press (\*2) the  button to turn the camera off.

(\*1) Short-press: Press for about 0.2 seconds.

(\*2) Long-press: Press for about one second.

### \* SLEEP MODE

If the camera is not operated for a certain period of time, it enters Sleep mode, and the LCD monitor turns off, thereby, reducing the rate of battery consumption.

- During Sleep mode, the battery power level is displayed on the status monitor.

A black rounded rectangular button with the text "96%" in white.

### TIP

- The time until the camera shifts into Sleep mode can be changed in the “**Sleep Timer**”(P.123) in the “**Monitor Settings**” option menu.

### WHEN THE CAMERA IS IN SLEEP MODE:

Short-press (\*1) the  button or half-press the shutter button to return to the mode before Sleep mode.

Long-press (\*2) the  button to turn the camera off.

### AUTO POWER OFF

When the camera has been in Sleep mode for about five minutes, it turns off to reduce the rate of battery consumption.

### CAUTION

- When the camera enters Auto Power Off mode, the status before Sleep mode is cleared.

### TIP

- If you turn the camera on while it remains connected to a computer, the “**USB Mode Select**” screen is displayed. If you want to continue using the camera by charging or with a USB power supply, select “**Cancel**” and press the  button.

---

## CONFIGURING THE INITIAL SETTINGS

When you turn the camera on for the first time after purchasing it, configure the initial camera settings.

### SETTING THE LANGUAGE

Use the  button to select your desired language, and press the  button.

### SETTING THE DISTANCE UNIT

Use the  button to select M (meters) or FEET, then press the  button.

### SETTING THE TIME ZONE

Use the  button to select the area you want to use, then press the  button.

### SETTING THE DATE/TIME

Press the  button, use the  button to set the date and time, then press the  button.

- Set “**Summer Time**”, “**Date Format**” and “**24-Hour Time**” as necessary.

Select “**OK**” and press the  button to complete the initial settings.

- The items set on the Initial Settings screen can be changed later in each item in the “**System Menu**”.

---

## CHECKING THE BATTERY POWER LEVEL

Touch the  button to display the battery power level in the header. Always be sure to check the battery power level before and while using the camera.

 100%	Fully charged.
 15%	The battery power level is low, and the camera will soon stop working. Charge or replace the battery.
 5%	The battery power level is low, and the camera will soon stop working. Charge or replace the battery.
 50%	Under charging

- While the battery is charging or in sleep mode, the battery power level is displayed on the status monitor.

 96% Sleep mode

 96% Under charging

## CAUTION

- When a USB storage such as an SSD is attached, the rate of battery consumption increases, and the battery power level display changes.
- The battery power level may temporarily drop at low and high temperatures.

---

## TO OPERATE THE TOUCH PANEL

Some functions can be operated using the touch panel (touch sensor on the LCD monitor).

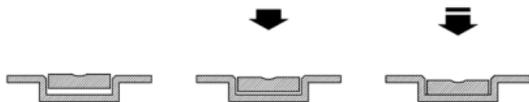
The touch operations are described below:

<b>Tap</b>	Touch lightly with your finger and then raise your finger.
<b>Drag</b>	Touch and then move your finger while still touching.
<b>Flick</b>	Touch and move your finger rapidly while still touching.
<b>Pinch Out</b>	Touch with two fingers and then move fingers further apart.
<b>Pinch In</b>	Touch with two fingers and then move fingers closer together.

---

## HOW TO PRESS THE SHUTTER BUTTON

The focus function is activated at a position where you press the shutter button lightly to stop (half-press). Press it further (full-press) to take the picture.



---

## QUICK PREVIEW

To review an image immediately after shooting, touch the  button.

- If you touch the  button during live view, the last image captured is displayed.
- For a movie, the first frame is displayed.
- Press the  button to switch to Playback mode.

# DOING THE SHOOTING

## TAKING A PICTURE

The general procedure to follow to take a picture is as follows.

**SELECT THE DRIVE MODE.(P.57)**

**SELECT THE RECORD FORMAT. (P.93)**

**DETERMINE THE EXPOSURE. (P.41)**

**FOCUS THE CAMERA. (P.67)**

**PRESS THE SHUTTER BUTTON TO TAKE A PICTURE.**

- For information about other settings, refer to the appropriate pages.

## SHOOTING A MOVIE

The general procedure to shoot a movie is as follows.

**SET THE DRIVE MODE TO “VIDEO” AND SELECT THE RECORD FORMAT. (P.93)**

**SELECT THE RESOLUTION AND FRAME RATE. (P.99)**

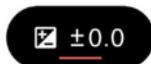
**DETERMINE THE EXPOSURE. (P.41)**

**FOCUS THE CAMERA.(P.67)**

**PRESS THE SHUTTER BUTTON TO START SHOOTING.**

During Movie Shooting...

A red line is displayed on the status monitor.



The time display in the header changes to the recording time display (red).



**PRESS THE SHUTTER BUTTON AGAIN TO STOP SHOOTING.**

- For information about other settings, refer to the appropriate pages.

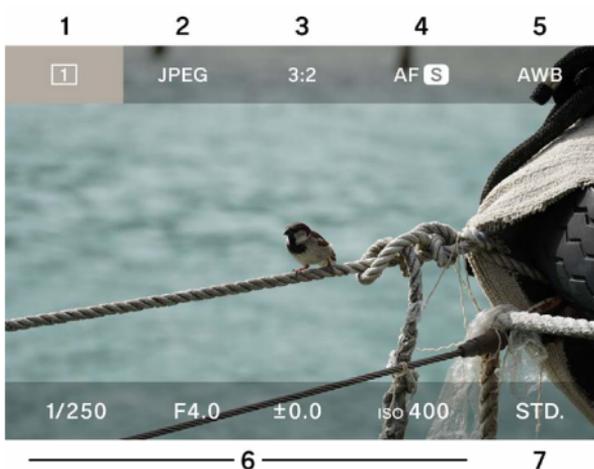
### CAUTION

- The maximum length of time a movie can be recorded using a single shooting operation is two hours even if there is sufficient free space on the internal storage for a longer period.

## MAIN MENU

Configure the main shooting settings, such as the exposure and Drive Mode, in the main menu.

Press the **⊙** button during the live view to display the main menu.



1. Drive Mode
2. Record Format
3. Aspect Ratio + DC Crop Mode
4. Focus Mode
5. White Balance
6. Exposure area
7. Color Mode

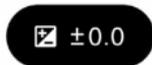
WHEN THE DRIVE MODE IS SET TO RECORD, THE TOP OF THE MAIN MENU IS DISPLAYED AS FOLLOWS.



8. Record Format
9. Resolution + Frame rate
10. DC Crop mode (Crop ratio display)
11. Image Stabilization
12. Focus Mode
13. White Balance

#### IN THE MAIN MENU:

- Use the <> button to move the cursor left or right, and use the ⬇ button to move the cursor between the upper and lower rows. (You can also hold down the <> button to move the cursor between the upper and lower rows.)
- Move the cursor to the desired item and turn the dial to change the settings.
- Move the cursor to the desired item and press the ● button to transition to the respective setting screen.
- If you half-press the shutter button, the main menu disappears, but the item pointed by the cursor is displayed on the status monitor. You can change items and settings while watching the status monitor.



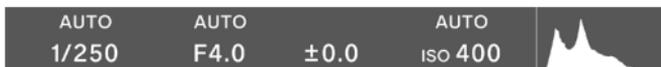
## DETERMINING THE EXPOSURE

Set in the Exposure area of the main menu.



1                      2                      3                      4

### SETTING SCREEN



1                      2                      3                      4                      5

1. Shutter Speed
2. Aperture
3. Exposure Compensation / Exposure Meter Display
4. ISO Sensitivity
5. Histogram

1

Use the <> buttons to move the cursor to one of the elements you want to change the settings for (Shutter Speed, Aperture, ISO Sensitivity) and press the  button.



2

Use the  button to move the cursor to the lower row, then use the dial to set the value.



### 3

Half-press the shutter button or press the  button to apply the setting.



The elements set to “**AUTO**” change to achieve the standard exposure depending on the brightness of the subject.

- For elements that are not set to “**AUTO**”, you can change the value by simply turning the dial.
- The elements set to “**AUTO**” are grayed out even if you hover the cursor over them, so you cannot change the values. Press the  button to change the settings.

**IF YOU WANT TO SHOOT CASUALLY USING THE CAMERA'S AUTOMATIC EXPOSURE FUNCTION, SET THE SHUTTER SPEED, APERTURE, AND ISO SENSITIVITY TO “**AUTO**”.**

Use the  button to set each element (Shutter Speed, Aperture, ISO Sensitivity) to “**AUTO**”.



### CAUTION

- If the image is too bright or too dark to achieve the standard exposure, the element set to “**AUTO**” flashes.

## TIP

- If “**Shooting Information**” in the options menu (P.116) is set to “**ON**”, the exposure area and Color Mode information are displayed in the bottom row during the live view (the cursor is not displayed).
- When the exposure area is selected, a histogram is displayed, which is useful for adjusting the exposure. For details on the histogram, refer to P.138.
- For slow shutter speeds longer than one second, the Shutter Speed turns red during exposure, and the time is counted down until the exposure ends.

## WHEN YOU ARE USING AN L-MOUNT LENS WITH AN APERTURE RING:

You can set the aperture value using the aperture ring on the lens.

## CAUTION

If the lens aperture ring is set to any position other than A, the aperture value cannot be set on the camera. If you want to set the aperture value using the camera dial, set the lens aperture ring to position A.

## **TIP**

The exposure is determined by the relationship between three factors.

## **APERTURE**

The aperture blades built into the lens adjust the amount of light that reaches the image sensor. A smaller number (opening) increases the amount of light, and a larger number (narrowing) reduces the amount of light. A larger number (narrowing) increases the range in focus, and a smaller number (opening) reduces the range in focus.

## **SHUTTER SPEED**

Adjust the amount of light according to the exposure time (Shutter Speed). A faster shutter speed enables you to freeze a fast-moving subject, and a slower shutter speed enables you to portray the movement of the subject. A slower shutter speed will make the image more susceptible to camera shake.

## **ISO SENSITIVITY**

If you want to keep both the Aperture and Shutter Speed fixed when shooting, you can adjust the exposure by increasing or decreasing the sensitivity of the image sensor itself. The higher the ISO sensitivity (the larger the number), the easier it will be to capture darker subjects, which tends to increase noise in the image.

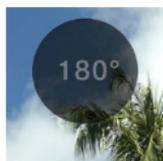
---

## SHUTTER ANGLE

In Record mode, you can switch the Shutter Speed to the Shutter Angle notation.

For the cinema camera, the shutter angle (angle) is generally used as the unit of exposure time in the shutter. For example, “360°” means that an exposure time of 100% is applied for each frame, and “180°” means that an exposure time of 50% is applied for each frame.

In Record mode, select the Shutter Speed and tap the tap button with the shutter angle expressed.



<b>Shutter Angle OFF</b> (Default)	Expressed as the shutter speed.
<b>Shutter Angle ON</b>	The shutter speed is expressed as the shutter angle.

---

## EXPOSURE COMPENSATION

Use this function if you want to intentionally make the image brighter or darker than the appropriate exposure determined by the camera.

Move the cursor to the exposure compensation value and use the dial to set the degree of compensation.



The elements set to “**AUTO**” change according to the degree of compensation.

- The degree of compensation can be set in 1/3 stop increments up to  $\pm 5$  stops.

### CAUTION

- The exposure compensation is not canceled automatically. When shooting is complete, use the dial to return the degree of compensation to  $\pm 0.0$ .
- The exposure compensation cannot be set when Shutter Speed, Aperture, and ISO Sensitivity are all not set to “**AUTO**”.

### TIP

- While the shutter button is being half-pressed, the exposure compensation can be set regardless of where the cursor is located in the main menu. (The status monitor always displays the exposure compensation.)
- Different values can be set for Still Image mode and Record mode.

---

## ISO AUTO SETTINGS

You can set the minimum and maximum values of the ISO sensitivity for ISO Auto.

1

Select ISO and tap the ISO Auto Settings tap button when ISO is “**AUTO**”.



2

Use the <> buttons to select “ISO Auto Lower Limit” or “ISO Auto Upper Limit”, then use the ⬇️ buttons or dial to change the setting value.

ISO Auto Lower Limit	ISO Auto Upper Limit
ISO 100 (Default) to 80000	ISO 125 to 102400 (Default)

### TIP

- Different values can be set for Still Image mode and Record mode.

---

## LOW ISO SENSITIVITY EXPANSION STILL IMAGE MODE ONLY

This function allows you to take multiple images at one time, produce the same status as the automatic synthesis or low sensitivity shooting, and shoot photographs with rich gradation and noises reduced.

If you select ISO and then tap the Low ISO Expansion tap button while (Low ISO Expansion ON) ISO is not set to “**AUTO**”, options are added in the expansion area (ISO80 to ISO6).



### CAUTION

- This function is not available when ISO is set to “**AUTO**”.
- Image misalignment may occur when the subject is moving rapidly or when the shutter speed is slow.
- The shutter speed selectable range and operating range vary between ISO6 and ISO80 depending on the ISO sensitivity you set.

---

## SLOWEST SHUTTER SPEED LIMIT

You can set the lowest shutter speed limit and the shutter speed control tendency (faster, slower) when the shutter speed is set to "AUTO".

1

Select Shutter Speed, and then tap the Slowest Shutter Speed Limit Setting tap button when ISO is "AUTO".



2

Use the <> button or the dial to set your desired shutter speed control type or the slowest shutter speed limit.

<b>AUTO (SLOWER)</b>	Set to a slower shutter speed than the standard by two levels.
<b>AUTO (SLOW)</b>	Set to a slower shutter speed than the standard by one level.
<b>AUTO</b> (Standard) (Default)	Set to approximately one second of the focal length of the lens.
<b>AUTO (FAST)</b>	Set to a faster shutter speed than the standard by one level.
<b>AUTO (FASTER)</b>	Set to a faster shutter speed than the standard by two levels.
<b>* 4s to 1/25600</b>	Set to each shutter speed.

\* In Record mode, the selectable shutter speed changes depending on the frame rate setting.

- When Shutter Angle is set to ON in Record mode, the following options are available.

#### Maximum Shutter Angle

<b>AUTO (SLOWER)</b>	Set the shutter angle two stops wider than the standard.
<b>AUTO (SLOW)</b>	Set the shutter angle one stop wider than the standard.
<b>AUTO</b> (Standard) (Default)	Basically set the shutter angle to 180°.
<b>AUTO (FAST)</b>	Set the shutter angle one stop narrower than the standard.
<b>AUTO (FASTER)</b>	Set the shutter angle two stops narrower than the standard.
<b>* 1.1° to 360°</b>	Set to each shutter angle.

\* The selectable shutter angle changes depending on the frame rate setting.

#### TIP

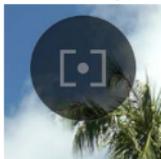
- Different values can be set for Still Image mode and Record mode.

---

## SPOT METERING

Normally, the evaluative metering is performed to divide the entire screen and calculate the exposure. Spot metering is useful when you want to adjust the exposure to a specific area only.

When an exposure area is selected, tap the Spot Metering tap button (Spot Metering ON) to switch to Spot Metering.



A circle indicating the metering range is displayed in the center of the screen.



To switch to the normal evaluative metering, tap the Spot Metering tap button again (Spot Metering OFF).

---

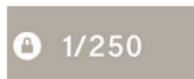
## AE LOCK

This is a useful function when you want to temporarily fix the exposure and shoot at a constant exposure.

When an exposure area is selected, tap the AE Lock tap button (AE Lock ON) to fix the exposure at that time.



While AE Lock is ON, half-press the button; the icon indicating that lock is active is displayed on the left edge of the screen.



- AE Lock is not released until you tap the AE Lock tap button again (AE Lock OFF) or turn the power off.
- AE Lock is not available when all elements are not set to “AUTO”.

---

## EXPOSURE ASSIST

The camera has two tools that are useful to determine the exposure.

When an element in the exposure area is selected, tap the Exposure Assist button, and then use the <> button or the dial to select your desired tool.



<b>OFF</b> (Default)	Exposure Assist OFF
<b>ZEBRA</b>	Zebra Pattern
<b>FALSE</b>	False Color

---

## ZEBRA PATTERN

Displays the desired brightness range in a zebra pattern.



**YOU CAN SET EITHER ONE OF THE FOLLOWING ZEBRA PATTERNS.**

Select “Zebra Pattern” and use the  button to enter the setting screen. Use the <> button to select an item, and use the  button or the dial to make settings.

- If you half-press the shutter button without entering the setting screen, the zebra pattern is displayed with the previous setting.
- Setting range: (0% = brightness value 0) to (100% = brightness value 255)
- You can select one of eight pattern colors or no pattern.
- If the settings for the left and right zebra patterns are duplicated, the zebra pattern on the left takes priority.

---

## FALSE COLOR

The exposure status on the screen is displayed in different colors.

- The displayed colors have the following meaning. The purple side indicates the underexposure, and the red side indicates the overexposure.

<b>Purple</b>	0 to 2.5%	Areas that are almost completely black
<b>Blue</b>	From 2.5%	Areas that are about to be completely black
<b>Green</b>	18% GRAY	Areas that are almost completely appropriate (18% GRAY)
<b>Pink</b>	18% GRAY +1STOP	Areas that are almost +1EV from the appropriate exposure
<b>Yellow</b>	Up to 99%	Areas that are about to be overexposed
<b>Red</b>	99 to 100%	Areas that are almost completely overexposed

---

## MANUAL EXPOSURE

If you turn off “**AUTO**” for all elements (Shutter Speed, Aperture, ISO Sensitivity), you can perform the shooting with manual exposure. While watching the live view, adjust the values to get the exposure you want.

### YOU CAN ADJUST THE EXPOSURE, REFERRING TO THE VALUE ON THE EXPOSURE METER.

The exposure meter can display an exposure error of up to  $\pm 5$  stops from the correct exposure in 1/3 steps. If the exposure error is more than three stops, the exposure meter will flash.



### TIP

- While the shutter button is being half-pressed, you can adjust the exposure no matter where the cursor is in the main menu. If the cursor is outside the exposure area, you can change the last element you operated in the exposure area. (The target element is displayed on the status monitor.)

---

## BULB SETTING

The shutter remains open when the shutter button is pressed all the way down. Use this function when you want to capture fireworks, starry skies, or light trails.

Deselect Aperture and ISO Sensitivity from “**AUTO**” and set them to your desired values, then set Shutter Speed to BULB.



### CAUTION

- When set to BULB, the exposure meter does not function. Use an external exposure meter to determine the exposure.
- The maximum exposure time for bulb shooting is five minutes. The shutter will close automatically after five minutes even if you keep the shutter button pressed.
- A long exposure may increase noise.

## DRIVE MODE

### STILL IMAGE

Select a Drive Mode that matches the shooting scene, such as shooting continuously or shooting while changing the exposure.

Select with the Drive Mode in the main menu.

1

Movie		Movie	
Still image		<b>Single Capture</b> (Default)	  Can be combined with Self Timer.
		<b>Continuous</b>	
		<b>Exposure Bracket</b>	
		<b>Focus Bracketing</b>	
		<b>Interval Timer</b>	

---

### SINGLE CAPTURE

When you press the shutter button, only one image is captured.

---

## CONTINUOUS SHOOTING

When you keep the shutter button fully depressed, the camera continuously captures images.

### YOU CAN SELECT THE FRAME RATE FOR CONTINUOUS SHOOTING.

Select “**Continuous**” and use the  button to select the frame rate.

<b>8 FPS</b>	Maximum approx. eight frames/sec. (Default setting)
<b>5 FPS</b>	Maximum approx. five frames/sec.
<b>3 FPS</b>	Maximum approx. three frames/sec.

### CAUTION

- Approximately 100 or more frames can be taken continuously, but it may fall below 100 depending on the settings and shooting conditions.
- When the number of frames that can be taken continuously falls below 50, the remaining buffer capacity is displayed. When the number reaches 0, shooting is no longer possible.



## EXPOSURE BRACKETING

By setting the exposure judged as appropriate by the camera, it is possible to continuously take pictures with the exposure bracketed.

Select “**Exposure Bracketing**” and use the  $\wedge$  button to enter the setting screen. Use the  $\langle \rangle$  button to select an item, and use the  $\diamond$  button or the dial to make settings.

- If you half-press the shutter button without entering the setting screen, shooting is performed with the previous setting.

Bracketing Amount	Bracketing Number	Bracketing Order
Up to $\pm 3$ steps in 1/3-step increments	<b>3 shots</b> <b>5 shots</b>  <b>3 shots</b>  <b>5 shots</b>	<b>0 <math>\rightarrow</math> - <math>\rightarrow</math> +</b> Appropriate $\rightarrow$ Under $\rightarrow$ Over <b>- <math>\rightarrow</math> 0 <math>\rightarrow</math> +</b> Under $\rightarrow$ Appropriate $\rightarrow$ Over <b>+ <math>\rightarrow</math> 0 <math>\rightarrow</math> -</b> Over $\rightarrow$ Appropriate $\rightarrow$ Under

- “**3 shots**” and “**5 shots**” take pictures one by one while shifting the exposure in the specified order.
- “ **3 shots**” and “ **5 shots**” take pictures continuously while shifting the exposure in the specified order.
- As for shooting with Autofocus, “ **3 shots**” and “ **5 shots**” take pictures at the focus position that was AF-locked in the first shot for the second and subsequent shots.

- When Shutter Speed, Aperture, and ISO Sensitivity are all not set to “**AUTO**”, the shutter speed changes focusing on the set shutter speed.
- Exposure Bracketing can be combined with Exposure Compensation. Bracketing is performed based on the compensation value specified in Exposure Compensation.

### **CAUTION**

- Exposure bracketing is performed repeatedly without being canceled even after shooting. To cancel the function, switch the Drive Mode to another mode.

---

## FOCUS BRACKETING

This function allows you to continuously take photographs with the focus position bracketed based on the focus position.

Select “**Focus Bracketing**” and use the  $\wedge$  button to enter the setting screen. Use the  $\langle \rangle$  button to select an item, and use the  $\diamond$  button or the dial to make settings.

- If you half-press the shutter button without entering the setting screen, shooting is performed with the previous setting.

Bracketing Amount	Bracketing Number	Bracketing Order
Up to $\pm 10$ levels in one-step increments	3, 5, 7, 9, 11, 13, 15 shots	<b>0 <math>\rightarrow</math> - <math>\rightarrow</math> +</b> Appropriate exposure $\rightarrow$ Underexposure $\rightarrow$ Overexposure <b>0 <math>\rightarrow</math> +</b> Appropriate exposure $\rightarrow$ Overexposure <b>0 <math>\rightarrow</math> -</b> Appropriate exposure $\rightarrow$ Underexposure

- The focus shift per step varies depending on the lens.

Half-press the shutter button to focus, then full-press to take pictures continuously while shifting the focus in the specified order.

### CAUTION

- The focus bracketing is performed repeatedly without being canceled even after shooting. To cancel the function, switch the Drive Mode to another mode.

---

## INTERVAL TIMER

It is possible to take pictures automatically at selected intervals.

Select “Interval Timer” and use the  $\wedge$  button to enter the setting screen. Use the  $\langle \rangle$  button to select an item, and use the  $\diamond$  button or the dial to make settings.

- If you half-press the shutter button without entering the setting screen, shooting is performed with the previous setting.

Shooting interval	Number of shots
1 sec. to 60 min.	2 to 9999 times

- The total time until the last frame is taken is displayed on the settings screen.

Press the shutter button to start Interval Timer.

- Once shooting starts, the screen displays the time until the next frame will be taken and the number of frames remaining.
- As for shooting with Autofocus, the second and subsequent frames are taken at the focus position that was AF-locked in the first shot.
- If the shooting interval is set shorter, the next shot may start before you return to the shooting screen.
- The exposure is re-metered each time a shot is taken. If you want to take the second and subsequent shots with the same exposure as the first, set M mode or use the AE lock button to fix the exposure.
- To cancel Interval Timer midway during shooting, press the shutter button.

## CAUTION

- Shooting may be interrupted midway depending on the battery power level. Use of the USB PD adapter is recommended.
- Interval Timer is performed repeatedly without being canceled even after shooting. To cancel the function, switch to another mode in **“Drive Mode”**.
- Depending on the settings, the image processing may take time, resulting in an interval longer than the set time.

---

## SELF TIMER SHOOTING

Self Timer can be used together in each drive mode for still images.

On the “**Drive Mode**” screen, tap the Self Timer tap button and use the <> button or the dial to make settings.



<b>OFF</b> (Default)	Self Timer OFF
<b>2s</b>	The picture is taken about two seconds after you press the shutter button.
<b>10s</b>	The picture is taken about 10 seconds after you press the shutter button.

When Self Timer is set, the Self Timer icon is displayed.



Determine the composition and half-press the shutter button to focus. Press the shutter button further to activate Self Timer. An electronic beep keeps sounding while Self Timer is active, and speeds up to notify you two seconds before the timer expires.

- To cancel Self Timer, tap the Self Timer tap button on the “Drive Mode” screen to set to “OFF”.
- If “Speaker Volume” or “Timer Volume” in the “Sound Settings” options menu is set to “0%”, an electronic beep is not emitted.
- If you want to cancel Self Timer while it is active, press the shutter button again.

The following operations are available depending on the combination of each Drive Mode and Self Timer.

 Single Capture	One shot is taken after the timer starts.
 Continuous	<p>The camera switches to the “<b>Self-timer Burst</b>” mode, which takes multiple shots continuously with one release. This is useful for taking commemorative photos of large groups of people, or photos where it is difficult to control timing.</p> <p>Use the  button to select “<b>three shots</b>” or “<b>five shots</b>” for the number of shots you want to take continuously.</p> <p>After the timer is activated, continuous shooting starts.</p>

 Exposure Bracketing	<p>“3 shots “ 5 shots “</p> <p>The timer is activated each time the shutter button is pressed, and the camera takes pictures one by one while shifting the exposure in the specified order.</p> <p>“ 3 shots” “ 5 shots”</p> <p>The camera takes shots continuously while shifting the exposure in the specified order after the timer is activated.</p>
 Focus Bracketing	<p>The camera takes shots continuously while shifting the focus in the specified order after the timer is activated.</p>
 Interval Timer	<p>The interval shooting starts under the set conditions after the timer is activated.</p>

## FOCUSING

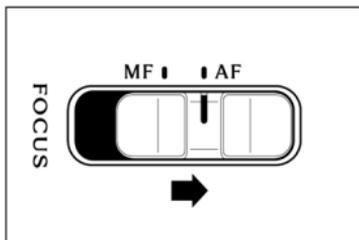
Set the focus mode and options according to the shooting scene and subject.

---

### HOW TO USE AUTOFOCUS

1

Set the focus mode selector switch (if present on the lens) to AF mode.



2

Set the camera's focus mode (P.68).

3

Half-press the shutter button to activate the Autofocus.

---

## FOCUS MODE SETTING

Select with focus mode in the main menu.

AF **S**

### IN STILL IMAGE MODE

AF <b>S</b>	Single AF (Default)
AF <b>C</b>	Continuous AF
<b>MF</b>	Manual Focus

### IN RECORD MODE

AF <b>C</b>	Constant AF (Default)
AF <b>C</b>	Continuous AF
<b>MF</b>	Manual Focus

---

## SINGLE AF

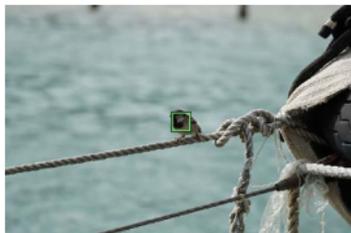
### STILL IMAGE MODE ONLY

Available for a still subject. After the subject comes into focus, the focus point is fixed while the shutter button is being half-pressed.

- When the subject comes into focus, the focus frame lights up green and a focus sound is heard.



In case of Multi Auto Focus Points (P.76)

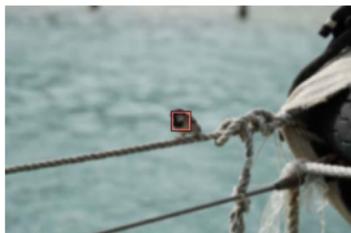


In case of One Point (P.75)

- If the subject is out of focus, the focus frame flashes red.



In case of Multi Auto Focus Points (P.76)



In case of One Point (P.75)

- The exposure is locked at the value when the shutter button is half-pressed.
- When Continuous Drive Mode is selected, continuous shooting is conducted at the focus position of the first frame.

## FOCUS LOCK SHOOTING

After the subject comes into focus, you can change the composition for shooting while keeping the shutter button half-pressed.

### TIP

- If you press the  button while half-pressing the shutter button, the distance is re-measured using the focus frame of one point in the center.

---

## CONTINUOUS AF

Available for a moving subject. After the subject comes into focus, the camera continues to focus on the subject as long as the shutter button is half-pressed.

- When the subject comes into focus, the focus frame lights up green, and the camera continues to focus on the subject as long as the shutter button is half-pressed.
- If the subject moves off-screen, the camera re-measures the distance and focuses on another subject.
- You cannot release the shutter until the subject comes into focus.
- If the continuous shooting is selected, the AF activation and shooting are repeated. For the second frame and subsequent frames, the release takes priority and the picture may be taken out of focus.
- The shot is taken at the exposure value that was set when the shutter button was pressed all the way down. (When recording movies, the exposure is controlled to always keep the standard value.)
- Regarding shooting movies with the focus frame set to “**Multi Auto Focus Points**”, the camera generally keeps the focus on the captured subject, however, the subject in the center of the screen is given greater importance, so the target may move.

- When the focus frame is set to “**One Point**”, the camera keeps focusing at the focus frame position when recording movies. If the subject moves while the shutter button is half-pressed, the camera continues to track the subject. Keep the shutter button half-pressed even while recording a movie. When you release your finger from the shutter button, the camera refocuses at the original focus frame position.
- The focus is not locked.
- The electronic beeping sound does not sound.

### **CAUTION**

- The focusing accuracy may reduce depending on the conditions of the subject.

### **TIP**

- If you press the  button while half-pressing the shutter button, the camera re-measures the distance with the focus frame of one point in the center and keeps focusing the subject.

---

## CONSTANT AF

### RECORD MODE ONLY

AF activates even if the shutter button is not half-pressed, and continues to activate even when recording movies.

- When you half-press the shutter button and the subject comes into focus, the focus frame lights up green, and the camera continues to focus on the subject while you keep half-pressing the shutter button.
- If the subject moves off-screen, the camera re-measures the distance and focuses on another subject.
- Regarding shooting movies with the focus frame set to “**Multi Auto Focus Points**”, the camera generally keeps the focus on the captured subject, however, the subject in the center of the screen is given greater importance, so the target may move.
- When the focus frame is set to “**One Point**”, the camera keeps focusing at the focus frame position when recording movies. If the subject moves while the shutter button is half-pressed, the camera continues to track the subject. Keep the shutter button half-pressed even while recording a movie. When you release your finger from the shutter button, the camera refocuses at the original focus frame position.

- The focus is not locked.
- The electronic beeping sound does not sound.

### **CAUTION**

- The lens focus mechanism is always active, so the battery will run out quickly. Please be aware of the remaining battery power level.
- The focusing accuracy may reduce depending on the conditions of the subject.

### **TIP**

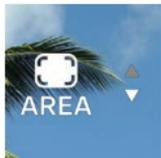
- If you press the  button while half-pressing the shutter button, the camera re-measures the distance with the focus frame of one point in the center and keeps focusing the subject.

---

## FOCUS FRAME SETTING

You can set the optimal focus frame to suit the subject conditions, such as still or moving subjects.

Select with the  button on the “AF Mode” screen.



 1-POINT	<b>1 Point</b>
 AREA	<b>Multi Auto Focus Points (Default)</b>

---

### 1 POINT

Set the focus frame to any position and adjust the focus of the subject. This function is available when the subject position is determined.

### MOVING THE FOCUS FRAME

You can move the focus frame by pressing the  button on the “AF Mode” screen.



- You can use the  button to move it in each direction.
- You can use the dial to move it in the specified order.
- You can also move it by touch operation (tap, drag). The distance is re-measured immediately after moving. You can move it even while recording a video.

---

## **MULTI AUTO FOCUS POINTS**

The camera selects the optimal focus frame and adjusts the focus. This is effective for moving subjects or subjects that are not in the center.

## **AUTO TRACKING MODE**

If you tap the subject you want to focus on when Multi Auto Focus Points is set, the camera continues to focus on that subject without having to half-press the shutter button. (Auto tracking mode)

- A gray focus frame is displayed during auto tracking.
- The Auto Tracking mode is also available when recording movies.
- If the subject you are tracking moves off-screen for a certain period of time, tracking stops.
- Depending on the situation, the subject may move onto a different subject while being tracked.

- To cancel the Auto Tracking mode, move the subject you are tracking off-screen for a certain period of time or tap the Auto Tracking Cancel tap button.



### **CAUTION**

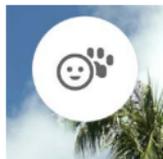
- Tracking may not operate properly under certain conditions such as when:
  - The subject moves too quickly
  - The subject is too small or too large
  - The level of brightness changes
  - The shooting environment is dark

---

## SUBJECT DETECTION

Detect humans and animals and preferentially focus on them.

On the “AF Mode” screen, tap the Subject Detection tap button, and use the <> button or the dial to make settings.



<b>OFF</b>	Sets to the normal AF mode without performing detection.
 <b>Human + Animal Detection</b>	(Default) Preferentially detects humans and animals.
 <b>Human Detection</b>	Preferentially detects humans.
 <b>Animal Detection</b>	Preferentially detects animals.

– Detection is preferentially performed subject's eyes.

### WHEN THE FOCUS FRAME IS SET TO “MULTI AUTO FOCUS POINTS” (DEFAULT):

– If a subject is detected, a gray focus frame is displayed. When you half-press the shutter button, the focus frame turns green (in focus). In AF  mode or AF  mode, the camera continues to track that subject.

- When multiple subjects are detected, a guide icon is displayed according to the setting. If the subject focused on is not the intended subject, you can use the <> button to move to the focus frame of a different subject while continuing to half-press the shutter button.



### WHEN THE FOCUS FRAME IS SET TO “1-POINT”:

- The camera focuses at the position of the focus frame as usual. If a person or animal is detected, a gray focus frame is displayed. While half-pressing the shutter button, you can use the <> button to move to the focus frame of a different subject. In AF(C) mode or AF(L) mode, the subject continues to be tracked while the shutter button is half-pressed.

### CAUTION

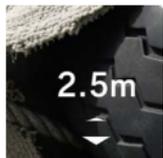
- Detection may not be possible in the following situations.
  - Part of the face is blocked by sunglasses, a hat, bangs, etc.
  - Dark or backlit scene.
  - The subject is significantly out of focus.
  - The subject is moving quickly.

---

## AF SHIFT

If the intended position is not focused on, press the  button while half-pressing the shutter button to re-measure the distance.

- Press the  button to re-measure the distance at a position farther away from the current focus position.
- Press the  button to re-measure the distance at a position closer to the current focus position.
- When the focus frame is set to “1-Point” in AF  mode, the distance is re-measured with the focus frame currently displayed. With other settings, the optimal focus frame is selected to re-measure the distance.



---

## AF+MF

After focusing with Autofocus, you can turn the focus ring to fine-adjust the focus.

On the “**AF Mode**” screen, tap the AF+MF tap button and use the <> button or the dial to make settings.



OFF	When set to AF, the focus ring does not function.
 AF+MF (Default)	The focus ring can be operated while the shutter button is being half-pressed. After fine-adjusting the focus, press the shutter button all the way down to take the picture.
 Constant AF + MF	The focus ring can be operated at all times.

### TIP

- By default, “**MF Auto Review**” is set to ON to make focusing in MF mode easier. For details, refer to the “**MF Auto Review**” section in “**AUTO REVIEW**”(P.84). If you want to change the Auto Review settings, first change the Focus mode to MF and then change the “**MF Auto Review**” settings.

---

## MANUAL FOCUSING

1

Set the Focus mode selector switch (if one is on the lens) to MF. (Set the camera's Focus mode to **MF** (Manual Focus) if the lens does not have the Focus mode selector switch (P.68).)

2

Turn the focusing ring on the lens to obtain a clear, sharp image.

### TIP

- By default, the “**MF Auto Review**”(P.86) is set to ON to make focusing easier. For details, refer to the section on “**AUTO REVIEW**”(P.84).

---

## FOCUS PEAKING

Emphasizes the outline of the focused part on the subject in the display. This function is useful for focusing. For peaking, you can select easy-to-see colors depending on the subject.

On the “**Focus Mode**” screen, tap the Focus Peaking tap button.



Use the <> button or the dial to select the color of the focus peaking.

<b>OFF</b> (Default)	<b>WH (white)</b>	<b>BK (black)</b>	<b>R (red)</b>
<b>YE (yellow)</b>	<b>C (cyan)</b>	<b>B (blue)</b>	<b>M</b> (magenta)

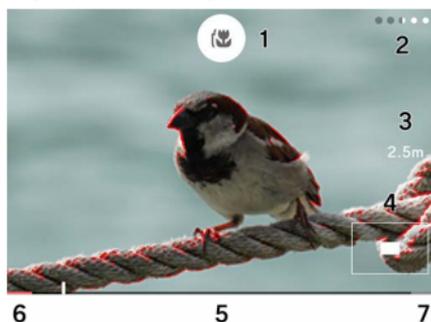
Use the  $\diamond$  button to set the sensitivity of focus peaking. The setting range is  $\pm 3$  steps. The standard is “0”. The display range is wider when set to the + side, and narrower when set to the - side.

- The color of the focus peaking is the same as the focus peaking in the “**AUTO REVIEW**”(P.84).

---

## AUTO REVIEW

### AUTO REVIEW SCREEN



1. Focus Peaking tap button
2. Remaining display time
3. Focus
4. Magnified position display
5. Scale bar
6. Infinity position
7. Minimum distance position

### AF-S AUTO REVIEW

After AF-focused, you can check the focus status with the magnified display and focus peaking display while continuing to half-press the shutter button.

On the “AF **S** Mode” screen, tap the AF **S** Auto Review tap button.



Use the <> button or the dial to select the Auto Review display time for which the shutter button is half-pressed.

<b>OFF</b> (Default)	Auto Review is not performed.
<b>1s</b>	Displayed for about one second.
<b>2s</b>	Displayed for about two seconds.
<b>5s</b>	Displayed for about five seconds.
<b>HOLD</b>	Displayed while half-pressed.

Use the  button to select the color of the focus peaking.

<b>Off</b>	<b>WH (white)</b>	<b>BK (black)</b>	<b>R (red)</b> (Default)
<b>YE (yellow)</b>	<b>C (cyan)</b>	<b>B (blue)</b>	<b>M</b> (magenta)

– The magnification ratio of the zoomed-in view can be changed using the dial while Auto Review is active.



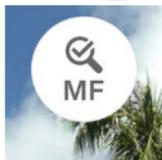
<b>Q 1X</b>	<b>Q 2X</b>	<b>Q 4X</b> (Default)	<b>Q 8X</b>
-------------	-------------	--------------------------	-------------

– The image is enlarged around the focused focus frame.

## MF AUTO REVIEW

In Manual Focus mode, operate the focus ring or tap any point on the screen to make it easier to focus with the magnified display and focus peaking display.

On the “**MF Mode**” screen, tap the **MF** Auto Review tap button.



Use the  $\langle \rangle$  button or the dial to select the Auto Review display time for which the shutter button is half-pressed.

<b>OFF</b>	Auto Review is not performed.
<b>1s</b>	Displayed for about one second.
<b>2s</b> (Default)	Displayed for about two seconds.
<b>5s</b>	Displayed for about five seconds.
<b>HOLD</b>	Displayed while half-pressed.

- The display time is equivalent to the time from when the focus ring is not operated or when the focus ring operation is stopped.

Use the  $\diamond$  button to select the color of the focus peaking.

<b>Off</b>	<b>WH (white)</b>	<b>BK (black)</b>	<b>R (red)</b> (Default)
<b>YE (yellow)</b>	<b>C (cyan)</b>	<b>B (blue)</b>	<b>M</b> (magenta)

- The magnification ratio of the zoomed-in view can be changed using the dial while Auto Review is active.



 1X	 2X	 4X (Default)	 8X
--	--	---	--

- The image is enlarged around the center of the screen. If you tap the screen, the image is enlarged around the point you tapped.

### CAUTION

- The zoomed-in view, shooting distance display, and scale bar display using the focus ring are only viewed with compatible lenses.

### TIP

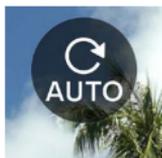
- While Auto Review is active, the time remaining until the display ends is displayed as dots.
- To return Auto Review to the normal view during processing, or to return the Auto Review under HOLD to the normal view, press the  button.
- While Auto Review is active, you can turn the focus peaking display on and off using the focus peaking tap button.
- The focus peaking color and sensitivity are common settings for “**FOCUS PEAKING**”(P.83), AF-S Auto Review, and MF Auto Review.
- The magnification ratio is the common setting between the AF-S Auto Review and MF Auto Review. The display time can be set separately for each.

---

## FOCUS RING CONTROL

You can change the focus movement amount relative to the focus ring control when using MF in Manual Focus mode.

On the “**MF Mode**” screen, tap the Focus Ring Control tap button.



- The name of the attached lens and the available angle range are displayed on the setting screen.

Use the <> buttons or the dial to select the rotation angle.

<b>AUTO</b> (Default)	The focus movement amount changes depending on the rotation speed of the focus ring.
<b>90° to 720°</b>	Approximate angle from infinity to the shortest shooting distance
<b>MAX</b>	Maximum angle that can be set with that lens

- Angles marked with ▲ are not supported.

### CAUTION

- This setting is only available for compatible lenses.

---

## FOCUS LIMITER

Limits the focus operating range to accelerate the AF speed.

On the “AF Mode” screen, tap the Focus Limiter tap button and use the <> button or the dial to make settings.



OFF (Default)	Does not limit the operating range.
 *	The focus operates only on the near side from almost at the center.
 *	The focus operates only on the far side from almost at the center.

\* The distance in the operating range is displayed on the setting screen.

### CAUTION

– This setting is only available for compatible lenses. For details, please refer to the lens manual.

---

## LENS AFL BUTTON FUNCTIONS

You can customize the AFL button functions of the lens equipped with the AFL button.



On the “AF Mode” screen, tap the Lens AFL Button Function tap button and use the <> button or the dial to make settings.

<b>AFL</b> (Default)	If you press the AFL button while AF mode is active, AF mode stops.*
<b>AF-ON</b>	If you press the AFL button, AF mode is activated.

\* The AFL icon is displayed while AF is locked.



## IMAGE STABILIZATION

Configure settings for the Stabilization function.

Set with “Image Stabilization” in the main menu.

 OFF

## ELECTRONIC STABILIZATION

This function is only available in Record mode. This function generates a video with reduced camera shake while combining multiple frames before and after the target.

 OFF	<b>OFF</b> (Default)	Turns the Image Stabilization function off.
 ES	<b>Electronic Stabilization</b>	Turns the Electronic Stabilization function off.

## LENS OPTICAL STABILIZATION

This function allows you to turn the lens with the stabilization function installed on or off. When the Stabilization switch (OS switch, etc.) is provided on the lens side, operate the switch on the lens side.

- For details on the Lens Optical Stabilization function, refer to the lens’s instruction manual.

- For lenses without the Image Stabilization switch, the “**Image Stabilization**” option is added to the main menu in Still Image mode.

⟨⟨☑⟩⟩ OFF	<b>OFF</b>	Turns the Image Stabilization function off.
⟨⟨OS⟩⟩	<b>Lens Optical Stabilization (Default)</b>	Turns the Lens Optical Stabilization function on.

- For lenses without the Image Stabilization switch, the “**Lens Optical Stabilization**” option is added to the “**Image Stabilization**” item in Movie mode.

⟨⟨☑⟩⟩ OFF	<b>OFF</b>	Turns the Image Stabilization function off.
⟨⟨OS⟩⟩	<b>Lens Optical Stabilization (Default)</b>	Turns the Lens Optical Stabilization function on.
⟨⟨☑ES⟩⟩	<b>Electronic Stabilization</b>	Turns the Electronic Stabilization function off.

## CAUTION

- [Electronic Stabilization] cannot be simultaneously used with [Lens Optical Stabilization]. If the lens’s image stabilization switch is turned on, Electronic Stabilization cannot be selected.
- When shooting with the camera fixed on a tripod, turn “**OFF**” the Electronic Stabilization function.
- When using Electronic Stabilization, the image is recorded in the range cropped to x1.25 (x1.96 when a DC lens is attached).

## IMAGE FILE SETTING

Set the record format, aspect ratio, and crop mode for the still image to be recorded.

---

### RECORD FORMAT

Select the image format.

Set with “Record Format” in the main menu.

JPEG

<b>DNG+J</b>	<b>DNG+JPEG</b>	Simultaneous recording of DNG (RAW format) and JPEG format
<b>DNG</b>	<b>DNG</b>	DNG (RAW Format)
<b>JPEG</b>	<b>JPEG (Default)</b>	JPEG Format

- The image size is recorded with 6,016 x 4,012 (at 3:2). 3,840 x 2,560 (DC crop mode, at 3:2).

## TIP

- DNG (RAW format) is a record format based on the material properties. Development process by **SIGMA Photo Pro**, etc. is required. **SIGMA Photo Pro** can be downloaded free of charge from our website. Sigma recommends that you always update **SIGMA Photo Pro** to the latest version.  
[sigma-global.com/en/support/software/](http://sigma-global.com/en/support/software/)
- If necessary, you can create JPEG images from DNG images with the camera. Refer to “**DNG DEVELOPMENT**”(P.145).
- DNG is the RAW image data that is developed by Adobe Systems Incorporated.

---

## ASPECT RATIO

Set the aspect ratio of an image.

Set the aspect ratio using the <> buttons or the dial in the “Aspect Ratio + DC Crop Mode” menu in the main menu.

3:2

<b>21:9</b>	Approximately the same aspect ratio as a widescreen movie.
<b>16:9</b>	Same aspect ratio as a high-definition television.
<b>3:2</b> (Default)	Same aspect ratio as a 35mm film camera.
<b>ASIZE</b>	The aspect ratio is the same as the general A series paper size.
<b>4:3</b>	Same aspect ratio as a conventional television or computer screen.
<b>6x7</b>	Approximately the same aspect ratio as a 6x7 camera.
<b>1:1</b>	Square aspect ratio like that taken with a 6x6 camera.

- The image of each aspect ratio is cut and created from an image of the basic aspect ratio, “3:2”, of this product.

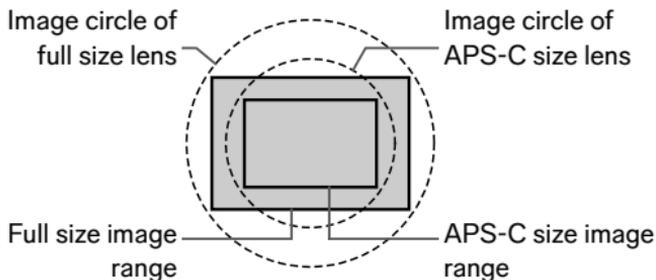
### TIP

- A DNG image can be changed to another aspect ratio using **SIGMA Photo Pro** or the DNG Development function of the camera.

---

## DC CROP MODE

When an APS-C format lens is attached, the image sensor's recording range is automatically switched (Auto Crop). You can also manually switch the recording range.

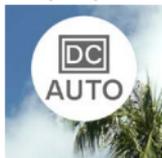


The DC Crop mode icon is displayed in DC Crop mode.

3:2 

- When a full-size lens is mounted and DC Crop mode [On] is manually selected, the peripheral areas in the image will be cut off, providing a telephoto effect of approximately 1.57x.

On the “Aspect Ratio + DC Crop Mode” screen, tap the Auto Crop tap button to turn “Auto Crop OFF”.



Use the  button to set to “DC1.57x”.

- In DC Crop mode, the image is recorded at the size 3,840 x 2,560 (at 3:2).
- The record resolution does not change even in DC Crop mode.
- When the APS-C format lens is attached, you can manually turn DC Crop mode OFF (1x). However, the periphery of the image may be vignetted black or not fully resolved.

### **CAUTION**

- Normally, use with “**Auto Crop ON**”.
- With some lenses, you may not be able to manually switch the recording range.
- With some lenses, Auto Crop does not work. In that case, switch it manually.

---

## IMAGE FILE SIZE

Below shows the approximate file size (MB) per image for a combination of each record format and aspect ratio.

– The file size varies depending on the subject.

### DC CROP MODE OFF (1X)

Aspect Ratio	Number of Pixels	DNG	JPEG
<b>21:9</b>	16M (6016 × 2580)	35	11
<b>16:9</b>	20M (6016 × 3384)	46	14
<b>3:2</b>	24M (6016 × 4012)	54	16
<b>ASIZE</b>	23M (5672 × 4012)	51	16
<b>4:3</b>	21M (5348 × 4012)	49	15
<b>6x7</b>	20M (4980 × 4012)	45	14
<b>1:1</b>	16M (4012 × 4012)	37	11

### DC CROP MODE ON (1.57X)

Aspect Ratio	Number of Pixels	DNG	JPEG
<b>21:9</b>	6.3M (3840 × 1648)	15	5
<b>16:9</b>	8.3M (3840 × 2160)	19	6
<b>3:2</b>	9.8M (3840 × 2560)	22	7
<b>ASIZE</b>	9.3M (3616 × 2560)	21	7
<b>4:3</b>	8.7M (3408 × 2560)	20	6
<b>6x7</b>	8.2M (3184 × 2560)	19	6
<b>1:1</b>	6.6M (2560 × 2560)	15	5

## RECORD SETTINGS

Set the record format on the “**Record Mode**” screen in the main menu, and the resolution and frame rate on the “**Record Settings**” screen.

---

## RECORD FORMAT

Set the record format of a movie.

Set on the “**Record Mode**” menu in the main menu.



<b>H.264</b>	<b>H.264 Record</b> Best compatibility (Default)	Highly versatile and available for viewing in a variety of environments.
<b>H.265</b>	<b>H.265 Record</b> Best compression efficiency	A format that achieves high compression and high image quality.
<b>L-LOG</b>	<b>L-Log Record</b> Best grading flexibility	A format with a wide dynamic range that is intended for editing.

– Both are based on MOV format.

## L-LOG RECORD AND LOG GAMMA AUTO REVIEW

The L-Log record is a format intended for editing after shooting, the live view screen has a low contrast. You can shoot on a live view screen that reproduces the 709 Look so that you can easily see what the final edited image will look like.

When the Record mode is set to “L-Log Record”, the main menu “Color Mode” changes to “Log Gamma Auto Review”.

	<b>L-Log Gamma View</b> (Default)	The live view screen displays the original L-Log gamma.
	<b>709 Look View</b>	This is a live view screen that reproduces the 709 Look.

- The Log Gamma Auto Review does not affect the recorded image.

### CAUTION

- Color mode (P.109) cannot be set for L-Log Record.
- 709 Look View cannot be combined with the Exposure Assist.

---

## RECORD SETTINGS

Set with “Record Settings” in the main menu.

UHD 29.9

On the “Record Settings” screen, use the <> buttons to select “Resolution” and “Frame Rate”, then use the ◊ buttons or the dial to make settings.

---

## RESOLUTION

Set the resolution (size) of a movie.

6K	6,016 x 3,384
UHD (Default)	3,840 x 2,160
FHD	1,920 x 1,080

- 6K cannot be used in conjunction with the following settings:

H.264, Electronic Stabilization, DC Crop Mode
---

---

## FRAME RATE

Set the frame rate (the number of frames per second).

- The selectable frame rates are limited depending on the resolution.

	23.98 FPS	25 FPS	29.97 FPS	50 FPS	59.94 FPS	100 FPS	119.88 FPS
6K	○	○	○	—	—	—	—
UHD	○	○	○	—	—	—	—
FHD	○	○	○	○	○	○	○

○ : Available — : Not available

---

## BIT RATE

The below table shows the correspondence between the movie bit rate (Mbps) depending on a combination of video record settings.

Resolution	Frame rate (fps)	H.264	H.265	L-LOG
<b>6K</b>	23.98	—	200	200
	25	—	200	200
	29.97	—	200	200
<b>UHD</b>	23.98	150	150	150
	25	150	150	150
	29.97	150	150	150
<b>FHD</b>	23.98	100	100	100
	25	100	100	100
	29.97	100	100	100
	50	100	100	100
	59.94	100	100	100
	100	150	150	150
	119.88	150	150	150

## WHITE BALANCE SETTING (WB)

In general use, the white balance is adjusted automatically; however, if the desired colors are not obtained, you can configure a setting from the preset white balance.

Set with “White Balance” in the main menu.

AWB

	Mode	COLOR TEMP.	DESCRIPTION
AWB	Auto (Default)	-	Adjusted automatically. Use your camera in this mode for regular photography
AWB 	Auto (Lighting Source Priority)	-	Select this setting to allow the camera to automatically determine the appropriate white balance while valuing the color and atmosphere of the light source.
	Incandescent	Approx. 3000K	Under lighting of incandescent light bulb
	Fluorescent	Approx. 4100K	Under white fluorescent lamp
	Manual	-	Select this setting to adjust the white balance by setting the color temperature to a numerical value.

	<b>Daylight</b>	Approx. 5400K	Sunny outdoor location
	<b>Overcast</b>	Approx. 6500K	Cloudy outdoor location
	<b>Shade</b>	Approx. 8000K	Shaded area in sunny outdoor location
	<b>Custom</b>	-	Select this setting to determine the white balance based on the image taken.

## CAUTION

- **K** (Manual) can only be selected on the “White Balance” screen.

---

## FINE-ADJUSTING THE WHITE BALANCE

You can fine-adjust each preset white balance.

### 1

On the “White Balance” screen, select the desired white balance and use the **^** button to display the “White Balance Fine-Adjustment” screen.

### 2

Use the **<>** buttons or the dial to adjust the color temperature, and use the **◇** buttons to adjust the hue (M-magenta, G-green).

### 3

Press the **⊙** button or half-press the shutter button to apply the setting.

- The fine-adjusted white balance is set to **K** (Manual) and displayed as the adjusted value in the main menu “White Balance”.



5000K

## CAUTION

- You cannot save multiple **K** (Manual) settings. It is always overwritten by the last white balance you adjusted.

## TIP

- The preset white balances on the “**White Balance**” screen are arranged in order of color temperature. The position of **K** (Manual) changes depending on the adjustment value.

### FINE-ADJUSTING THE AUTO WHITE BALANCE

When you make fine adjustments for Auto or Auto (Lighting Source Priority), the white balance is set to the value the camera determines to be appropriate, taking into account the adjustment amount.

---

### SETTING A CUSTOM WHITE BALANCE

Select this setting to determine the white balance based on the image taken.

1

On the “**White Balance**” screen, select .

2

Under the lighting you want to shoot actually, place a white subject (such as white paper or a white wall) that you want to use as a reference in the frame at the center of the screen, and press the  button.

If acquisition succeeds, the frame turns yellow. If acquisition fails, the frame flashes red. Press the  button again.

3

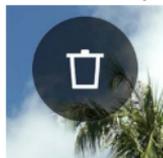
Press the  button to complete the setting and take the photo.

- The acquired custom white balance is displayed as the color temperature and hue values and lined up in the White Balance column.
- Up to 10 custom white balances can be saved. If the limit is exceeded, a message is displayed, so delete unnecessary custom white balances before acquiring one.
- You can also fine-adjust the custom white balance.

## DELETING THE CUSTOM WHITE BALANCE

1

On the **“White Balance”** screen, select the custom white balance you want to delete, and tap the **“Delete Custom White Balance”** tap button.



2

Select **“Delete Custom White Balance”** and press the **⊙** button.

---

## WHITE BALANCE LOCK

When set to Auto or Auto (Lighting Source Priority), this function is convenient for temporarily fixing the white balance and shooting with a constant white balance.

When you tap the “**WB Lock**” tap button on the “**White Balance**” screen (WB Lock ON), the white balance at that time will be fixed.



While the white balance is being locked, the icon indicating that the lock is active is displayed.



- The white balance lock is not released until you tap the “**WB Lock**” tap button again (WB Lock OFF).

## COLOR MODE

You can select the desired Color mode depending on the shooting conditions. In addition to the above settings, Mono-chrome photography or movie can be selected.

Set with “Color Mode” in the main menu.

STD.

<b>STD.</b> <b>Standard</b> (Default)	A basic color mode suitable for a variety of scenes.
<b>RICH</b> <b>Rich</b>	Features high saturation and bright blues, resulting in a colorful finish.
<b>CALM</b> <b>Calm</b>	The contrast is set low, creating a soft, calm atmosphere.
<b>Pow B.</b> <b>Powder Blue</b>	This mode is characterized by a refreshing blue color with a bright and transparent look.
<b>W.GLD</b> <b>Warm Gold</b>	Expresses a deep atmosphere with calm tones and warm colors.
<b>T&amp;O</b> <b>Teal and Orange</b>	Highlights orange colors such as a flesh color and turquoise of a complementary color to emphasize images.
<b>FOV B.</b> <b>FOV Classic Blue</b>	Expresses a deep blue and reproduces an impressive blue sky.
<b>FOV Y.</b> <b>FOV Classic Yellow</b>	Expresses the deep and impressive color tone with the yellow color emphasized.

<b>FOR G.</b> <b>Forest Green</b>	Expresses greens such as plants more impressively with the green color emphasized.
<b>SUN R.</b> <b>Sunset Red</b>	Expresses scenes such as sunsets more impressively with the red color emphasized.
<b>CINE.</b> <b>Cinema</b>	Expresses a movie-like image with reduced saturation and emphasized shadows.
<b>709</b> <b>709 Look</b>	A mode applied during L-Log shooting to reproduce colors close to human vision.
<b>MONO.</b> <b>Monochrome</b>	You can take monochrome photos.

#### TIP

- In **SIGMA Photo Pro**, Monochrome mode is designed for DNG data capture using MONO. **SIGMA Photo Pro** can convert Monochrome DNG images into color. (JPEG data cannot be returned to a color image.)

#### CAUTION

- When developing DNG data with an Adobe Systems application, the color mode settings may not be reflected depending on the version of the application. Please check the up-to-date information.

---

## COLOR MODE DETAILED SETTING

For each color mode, you can adjust the image parameters (Look Effect, Highlight, Shadow, Fade, Vignette) to create your desired image.

In the color mode you want to adjust, use the <> button to select the parameter, and use the ⬠ button to set the adjustment amount.

### LOOK EFFECT (EXCLUDING MONOCHROME)

You can emphasize or suppress the characteristics of each color mode. Setting a positive value makes the effect stronger, and setting a negative value makes the effect weaker.

- When you adjust the Look Effect, the adjustment value is displayed in the main menu “Color Mode”.

### HIGHLIGHT

You can adjust the bright parts (highlights) of the image. Setting a positive value makes the image brighter, and setting a negative value makes the image darker.

### SHADOW

You can adjust the dark parts (shadows) of the image. Setting a positive value makes the image brighter, and setting a negative value makes the image darker.

### FADE

Boosts blacks to create a softer impression. The more positive the value, the softer the impression.

## VIGNETTE

Reproduces the vignetting effect of a lens, emphasizing the subject in the center. The more positive the value, the stronger the vignetting effect.

## tone (MONOCHROME ONLY)

If you set Color Mode to Monochrome, “Look Effect” changes to “Tone”. You can create a monochrome image with a tint.

<b>BW</b> Black and White (Default)	<b>R</b> Red	<b>WT</b> Warm Tone	<b>SEP</b> Sepia	<b>G</b> Green
<b>BG</b> Blue Green	<b>B</b> Blue	<b>CT</b> Cold Tone	<b>BP</b> Bluish Purple	<b>P</b> Purple

## TIP

- For DNG data, you can change the color mode or adjust a parameter using **SIGMA Photo Pro**.

---

## FILTER EFFECT (MONOCHROME ONLY)

You can change the contrast of monochrome images. For the filter color, the similar colors are expressed brighter, and the complementary colors are expressed darker.

If you set Color Mode to Monochrome, the main menu “White Balance” changes to “Filter Effect”.

<b>OFF</b> (Default)	<b>R</b> Red Filter	<b>OR</b> Orange Filter
<b>YE</b> Yellow Filter	<b>G</b> Green Filter	<b>B</b> Blue Filter

- Normally, set to OFF.

## ENJOYING OLD LENSES

You can apply color shading compensation to lenses attached via a mount adapter or those without built-in compensation information and record the lens's focal length in the image information.

---

## COLOR SHADING COMPENSATION

This function enables you to compensate for color shading (phenomenon in which parts around the screen are colored).

## ENTERING LENS INFORMATION

1

When a lens that does not have communication information with the camera is attached, “No Lens” is displayed in the Focus mode of the main menu.

2

Select Focus mode and use the > button to select “Lens+”.

3

Use the  button or the dial to enter lens information (suffixed by a symbol A to Z).



- When you take a picture in this state, the entered information is recorded in the image information. If you want to apply Color Shading Compensation, proceed to step 4.

## CAPTURING THE COMPENSATION SCREEN

### 4

After entering the lens information, press the > button to display a message. Fill a monotonous screen without a color tone such as white or gray on the entire screen, and press the ● button.

- If the compensation is successful, the square icon on the right edge turns white.



- If you want to reset the compensation data, press the Reset compensation data tap button, select “**Reset Color Shading Compensation**”, and confirm with the ● button.



- Shooting and recording will continue with the same data until you change to the next L-mount lens.
- If you want to register another lens, repeat steps 2 to 4.
- If you want to shoot with a registered lens again, select Focus mode and use the > button to select the lens.
- After selecting the lens, press the ^ button to modify the lens information and delete or reacquire the compensation data.
- If you want to delete the registered lens information, select the lens, tap the Delete button, select “**Delete Manual Lens Profile**”, and use the ● button to apply the setting.



## USING THIS PRODUCT AS A WEB CAMERA

This product can be used as a Web camera.

1

Connect the camera to your computer with a commercially available USB Type-C cable.

- The “**USB Mode Select**” screen is displayed.

2

Press the > button to select “**UVC**”, and press the  button.

- Switch between modes as necessary.
- The unavailable items are displayed in dark gray.
- The System Menu cannot be set.
- For information on the camera or microphone setting, refer to Help or other references of the software you are using.
- Depending on your software, you may need to set a resolution on your camera. If this is the case, set it before connecting.
- The following buttons are not available.

 button

- To exit UVC mode, select “**Finish UVC Mode**” in the options menu “**USB Mode Select**” and press the  button.

## OPTIONS MENU

When shooting, you can set functions that are convenient for shooting as well as functions for deleting images and playing back images.

Pressing the **⋮** button during live view will display the options menu for shooting.



1. Shooting Information
2. Center Mark
3. Guideline
4. Electronic Level
5. Focal Length
6. Focus
7. Monitor Settings
8. Sound Settings
9. Mic. Settings
10. USB Connection

If you press the **⋮** button when playing back an image, it displays the Options menu for deleting images and playing back images.



1. Delete
2. Rotate
3. Lock
4. Select Files
5. DNG Development
6. File Display Settings



7. Monitor Settings
8. Volume Settings
9. Mic. Settings
10. USB Connection

Use the  buttons to select the item you want to set. For options that only have OFF/ON, use the  button or the dial to change the setting. To change the setting, press the  button again or half-press the shutter button to apply the setting.

For options that have multiple choices, refer to the respective item.

- For details on the Options menu for image playback, refer to each item in “REVIEWING, DELETING, OR SAVING IMAGES”(P.130).

---

## SHOOTING INFORMATION

Displays the exposure area and color mode information (including the remaining battery power level in Record mode, time, and remaining recording time).

OFF	ON
-----	----

---

## CENTER MARK

You can display the center mark that identifies the center of the screen.



OFF	ON
-----	----

---

## GUIDELINE

Two types of guidelines are available to help you determine the composition.

<b>OFF</b>	<b>Grid Lines</b>	<b>Aspect Ratio</b>
------------	-------------------	---------------------

- Use the dial to select the desired guideline.
- Selecting “**OFF**” does not display the guidelines.

## GRID LINES

Displays grid-like guidelines. The numbers indicate the number of horizontal and vertical divisions of the screen.

- Select “**Grid Lines**” and press the  button, then use the  button to select the desired number of divisions.

<b>2 × 2</b>	<b>3 × 3</b>	<b>4 × 4</b>
--------------	--------------	--------------

## ASPECT RATIO

A frame guide that is useful for determining the composition can be displayed when shooting with different aspect ratios is taken into account.

- Select “**Aspect Ratio**”, press the  button, and then use the  button to select your desired aspect ratio.

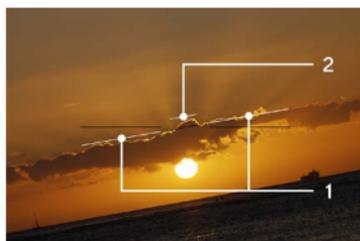
<b>1.33:1</b>	<b>1.85:1</b>	<b>2.39:1</b>
---------------	---------------	---------------

---

## ELECTRICAL LEVEL

Displays the horizontal and vertical tilt of the camera.

OFF	ON
-----	----



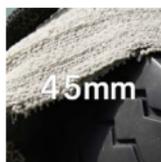
1. Horizontal indicator
2. Vertical indicator

When the camera is horizontal or vertical, the indicator turns green.

---

## FOCAL LENGTH

Displays the focal length of the attached lens, or the focal length according to the operation of the zoom ring when a zoom lens is used.

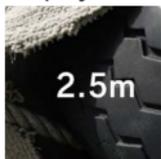


OFF	ON
-----	----

---

## FOCUS

Displays the shooting distance (focus position).



OFF	ON
-----	----

---

## MONITOR SETTINGS

You can adjust the brightness and hue of the LCD monitor.

### BRIGHTNESS

You can adjust the brightness to make it easy to see depending on the surrounding brightness.

Select “**Monitor Settings**” and use the dial to set the brightness for easy viewing.

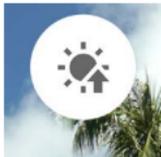
Or use the <> buttons or dial to set the brightness on the “**Monitor Settings**” screen.

- The brightness can be set to six levels from 0 to 5 (3 is the default).

### OUTDOOR BRIGHTNESS ASSIST

Automatically increases the monitor brightness in bright locations such as under sunlight (Default).

Tap the “**Outdoor Brightness Assist**” tap button to turn “**Outdoor Brightness Assist ON**”.



### LCD OFF MODE

A mode that turns off the LCD monitor during shooting or when the camera is not being operated. This mode is useful when taking astronomy photographs.

Tap the “**LCD Off Mode**” tap button to turn “**LCD Off Mode ON**”.



- You can also set separately the brightness for normal use when “**LCD Off Mode**” is “**ON**”.
- The LCD monitor lights up for approximately three seconds when a button or dial is operated while the monitor is turned off.
- The monitor does not turn off during playback, during zoomed-in view, or when each menu is displayed.

## HUE

You can adjust the screen hue “redness” and “blueness”.

Tap the “Hue” tap button, use the <> button to select “RED” or “BLUE”, and use the ◊ button or the dial to make adjustments.

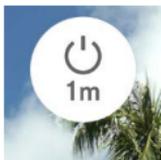


- Normally set it to  $\pm 0$ .

## SLEEP TIMER

You can set the time until the camera transitions to Sleep mode (P.31).

Tap the “Sleep Mode” tap button, and use the <> button or the dial to make settings.



OFF	10 sec. (Default)
30 sec.	One min.
Five min.	10 min.

- Setting “OFF” does not go into Sleep mode.

## CAUTION

- If you set Sleep Timer to “OFF”, Auto Power Off (power OFF) is also not performed. Please be careful regarding the rate of battery consumption.

---

## SOUND SETTINGS

Set the volume of each item.

### SPEAKER VOLUME SETTINGS

Select “**Sound Settings**”, and use the dial to set the volume.  
Or, on the “**Sound Settings**” screen, use the <> button or the dial to set the sound.

The volume can be set to six levels from 0 to 5 (3 is the default).

Setting 0 results in no sound.

### EACH VOLUME SETTING

On the “**Sound Settings**” screen, press the ^ button, and use the <> button to select the desired volume.

<b>Shutter Volume</b>	<b>AF Confirmation Volume</b>
<b>REC Volume</b>	<b>Timer Volume</b>

Use the  button to set the volume.

- The volume can be set in five levels from 0 to 100%.
- Setting 0 results in no sound.
- If Speaker Volume is set to 0, no sound will be heard.

---

## MIC. SETTINGS

You can adjust the sensitivity of the internal microphone while checking the audio being input on the audio meter.

- This adjustment is only available in Record mode.

Select “**Mic. Settings**” and use the dial to adjust the sensitivity (adjustment is not possible during **AUTO** setting).

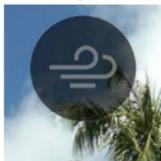
Or use the <> buttons or the dial to adjust the sensitivity on the “**Mic. Settings**” screen.

- The sensitivity can be adjusted in the range from +6dB to -36dB in 3dB increments.
- **AUTO** enables the camera to adjust to the optimal sensitivity (Default).

## WIND NOISE CANCELLER

Reduces wind noises.

On the “**Mic. Settings**” screen, tap the “**Wind Noise Canceller**” tap button and set “**Wind Noise Canceller ON**”.



## USB CONNECTION

This camera can be connected to various USB devices. The settings that can be set in “USB Connection” in the Options menu change depending on the USB device you connect.

Setting Item Name / Connected Device			Page
USB Mode Select (PC)	Mass Storage	-	126
	UVC		126
	(Cancel)	-	26
USB Mic. Settings			127
USB Storage			149
USB Shooting Information (USB Monitor)			127
Cable Release			-
USB Headphones			128
USB Headset Setting			129
USB Power Supply (Charger/Mobile battery)			26

---

## USB MIC. SETTINGS

You can adjust the sensitivity of an external microphone connected via USB.

- This adjustment is only available in Record mode.

Select “**USB Mic. Settings**” and use the <> buttons to adjust the sensitivity.

Or on the “**USB Mic. Settings**” screen, use the <> buttons or the dial to make adjustments.

- The **AUTO** setting is not provided.
- The Wind Noise Canceller setting is not provided.

## CAUTION

- Some devices do not allow you to adjust the microphone sensitivity.

---

## USB SHOOTING INFORMATION

When using the USB monitor, you can set whether or not to display shooting information on the monitor.

OFF	ON
-----	----

---

## USB HEADPHONES

Set the headphone volume.

- This is only available in Record mode when shooting.
- You can set the volume separately for shooting and playback.

Select “**USB Headphones**” and use the dial to set the volume.

Or, on the “**USB Headphones**” screen, use the <> buttons or dial to set the volume.

- The volume can be set to six levels from 0 to 5 (3 is the default).
- Setting 0 results in no sound.

## CAUTION

- Some devices do not allow you to set the volume.

---

## USB HEADSET

Set the headset's microphone sensitivity and headphone volume.

- This is only available in Record mode when shooting.
- You can set the volume separately for shooting and playback.

## ADJUSTING THE HEADSET MICROPHONE SENSITIVITY

Select “USB Headset” and use the dial to adjust the sensitivity.

Or, on the “USB Headset” screen, use the <> buttons or dial to make adjustments.

## SETTING THE HEADPHONE VOLUME FOR THE HEADSET

On the “USB Headset” screen, use the  buttons to set the volume.

- The volume can be set to six levels from 0 to 5 (3 is the default).
- Setting 0 results in no sound.

## TIP

- The headset microphone sound and the internal microphone sound are recorded on separate tracks.

## CAUTION

- Depending on the device, it may not be possible to adjust the microphone sensitivity or set the headphone volume.

# REVIEWING, DELETING, OR SAVING IMAGES

## PLAYING STILL IMAGE

---

### SINGLE CAPTURE

Press the  button to display an image.

- “File Order / File Count” is displayed on the status monitor.



12 / 345

- For a movie file, the first frame is displayed.

### DURING SINGLE-IMAGE PLAYBACK:

- Turn the dial to view the previous or next image.
- Press the  button or flick (drag) left or right on the touch panel to view the previous or next image.
- Press the  button or drag up on the touch panel to add shooting information display (P.137).
- Press the  button or drag down on the touch panel to switch to date display (P.136).

### TIP

- If you hold down the <> button, the images are switched automatically. Pressing harder will skip 10 images for faster switching.
- The first and last recorded images on the card are linked. Pressing the < button while the first image is displayed brings up the last recorded image on the card. Pressing the > button while the last image is displayed brings up the first recorded image on the card.
- If there are no image files in the internal storage, the message “**No image**” is displayed.
- While reviewing images, pressing the  button or half-pressing the shutter button will immediately set the camera to the shooting mode.

### CAUTION

- The following image files may not be playable:
- Image files taken with other cameras
- Image files of which names have been changed
- Image files outside the DCIM folder

---

## ZOOMED-IN VIEWING (STILL IMAGES ONLY)

Press the  button during single image playback to zoom in on the image (10x).

Press the  button during the zoomed-in view to return to the normal view.

Pinch out on the touch panel during single image playback to zoom in on the image.

Pinch in on the touch panel during zoomed-in view to zoom out the image.

The magnification rate changes as follows:

1x→1.25x→1.6x→2.0x→2.5x→3.15x→4.0x→5.0x→6.3x→8.0x→10.0x

### WHILE IN ZOOMED-IN VIEW:

- Turn the dial to the right to zoom in, or to the left to zoom out. (You cannot use the dial to return to the normal magnification.)
- You can move the playback area by pressing the  button or flicking (dragging) on the touch panel.

### CAUTION

- Images cannot be switched during zoomed-in view. Return to the normal magnification by pressing the  button or pinching out on the touch panel before switching.

## PLAYING BACK A MOVIE

When you press the  button or tap the  icon on the touch panel while a movie file is being displayed, a movie is played back.



- The remaining playback time is displayed on the status monitor while the movie is playing.

–6:54

## DURING MOVIE PLAYBACK

Button/Dial	Operation
	Pause
	Fast-forward playback
	Fast-backward playback
	Increases the playback volume.
	Reduces the playback volume.
Dial	Fast-backward playback ↔ Fast-forward playback

The playback speed increases each time the  button is pressed or the Front/Rear dial is turned clockwise. (The playback speed decreases each time the  button is pressed or the dial is turned counterclockwise.)

## PLAYBACK SPEED

X1→X1.2→X1.5→X2→X4→X8→X16→X32→X64→X128

- In X1 to X2, a movie is played back with sound.
- The speed in backward playback is X1.2 to X128 (audio will not play).

## DURING PAUSE MODE

Button/Dial	Operation
	Playback
	Frame-by-frame playback
	Reverse frame-by-frame playback
	Increases the playback volume.
	Reduces the playback volume.
Dial	Reverse frame-by-frame playback ↔ Frame-by-frame playback

- To exit the movie playback, press the  button to select “Stop”, and press the  button.

---

## CUTTING OUT A PHOTO FROM A MOVIE

You can create a photo of the desired frame from a movie file.

### 1

Play back a movie, and temporarily stop it in the target frame.

- If you are not able to stop at the desired frame, use the <> button or the dial in Pause mode to perform frame-by-frame playback.

### 2

- Press the  button to select “Save as JPEG”, and press the .
- The file size varies depending on the setting of [Resolution] of the movie file.

6K	6016 × 3384
UHD	3840 × 2160
FHD	1920 × 1080

- The created JPEG image is saved in the folder where the original movie file is saved.
- The created JPEG image is shown with the ↓ mark in the shooting information (P.137).
- The file number of the created JPEG image, which starts with “C\_\_”, is assigned by the next number after the last file number in the folder.

## CAUTION

- If the storage does not have sufficient free space, a warning message is displayed, preventing you from saving the JPEG image. Follow the message instructions to free up space.

---

## DISPLAY BY DATE

The images taken that day are displayed as a list of thumbnails.

Press the  button or drag down on the touch panel during single image playback.



- The first 40 thumbnail images taken that day are displayed. If there are more than 40 images, the number of images that cannot be displayed as thumbnails is displayed in the position of the last thumbnail image (if there are more than 999 images, +999 is displayed).



When viewing by date:

- Turn the dial to display a list of thumbnail images of the previous or next date.
- Press the  button or flick (drag) left or right on the touch panel to display a list of thumbnail images of the previous or next date.
- Press the  button, press the  button, or drag up on the touch panel to return to the single image playback.

---

## VIEWING IMAGE INFORMATION

You can view detailed information for shooting.

Press the  button or drag up on the touch panel during single image playback.

- There are three levels of image information. Each time the  button is pressed, a row is added.



(Status with all image information displayed.)

- |                           |                      |
|---------------------------|----------------------|
| 1. Shooting Information   | 5. Histogram (red)   |
| 2. Shooting date and time | 6. Histogram (green) |
| 3. File information       | 7. Histogram (blue)  |
| 4. Histogram (brightness) |                      |

- For a movie, the recording time is displayed in the Shooting Information column.
- A movie has no histogram displayed.

#### IN IMAGE INFORMATION VIEW:

- Turn the dial to view the previous or next image.
- Press the <> button or flick (drag) left or right on the touch panel to view the previous or next image.
- Each time the ^ button is pressed, the number of rows of image information decreases, and the display changes from the single image playback to the display by date.
- To play a movie, press the ● button or tap the ▶ icon on the touch panel.

---

#### HISTOGRAM

The histogram is a graphic representation of the distribution of brightness in a picture. The horizontal axis shows the tone values from black (left) through gray to white (right). The vertical axis corresponds to the number of pixels at each brightness level. Accessing correct image exposure can be achieved by examining a histogram of the image.



To display a histogram on this product, the brightness (totalized value of RGB), R (red), G (green), and B (blue) are displayed simultaneously at each level. (When an exposure area is selected, only the brightness is displayed in the histogram.)

## DELETING FILES

1

Select the file you want to delete and press the  button.

2

Move the cursor to  “Delete” and press the  button.

3

Select “Delete this File”, and press the  button.

### CAUTION

- If the image is locked,  “Delete” is not available. If you want to delete a locked image, release the lock.
- Images recorded in DNG+JPG will be deleted along with DNG and JPEG images.

### TIP

- You can delete multiple files at once “PROCESSING MULTIPLE FILES AT ONCE”(P.142).

## LOCK

Locking protects files from being accidentally deleted.

### WARNING

- Formatting a card erases locked files. Review card contents carefully before formatting.

1

Display the image you want to lock and press the  button.

2

Move the cursor to  “LOCK” and press the  button.

- A key icon  will appear in the file indicating that the file is locked.



- If the file is already locked, the menu item changes to “**Un-lock**”.
- To unlock an image, select the locked image and follow the same procedure as above.
- Locked files have a “**read-only**” status when viewed on a computer.

### TIP

- You can lock multiple files at once “**PROCESSING MULTIPLE FILES AT ONCE**”(P.142).

## ROTATING IMAGES

### STILL IMAGE ONLY

You can rotate the direction in which images are displayed.

#### 1

Display the image you want to rotate, and press the  button.

#### 2

Move the cursor to  “ROTATE”, and press the  button.

- Each time the  button is pressed, the image rotates 90° clockwise.
- Images rotated on the camera will be displayed in their rotated orientation in **SIGMA Photo Pro**.

### CAUTION

- If “Horizontal Alignment” in the options menu is set to “ON”, you cannot select Rotate.

### TIP

- You can rotate multiple files at once “PROCESSING MULTIPLE FILES AT ONCE”(P.142).

---

## PROCESSING MULTIPLE FILES AT ONCE

The following functions can be performed for multiple files at once.

Delete	Rotate	Lock
--------	--------	------

---

### SELECTING A FILE TO PERFORM PROCESSING

1

Press the  button while playing back a single image.

2

Move the cursor to  “Select Files” and press the  button.

3

Use the  button to display the image you want to process and press the  button (the  icon turns white). Repeat this procedure to specify the image you want to process.

4

Press the  button to select one of the functions “Delete”, “Rotate” or “Lock” and press the  button.

- For rotation, use the  button to select the rotation angle (90°, 180°, or 270°).
- For lock, use the  button to select Lock/Unlock.

5

Select “Selected files...” and press the  button to apply the setting.

- If you want to cancel, select “Quit” and then “Quit”.

---

## SELECTING AND PROCESSING BY DATE

1

Press the  button while viewing the display by date (P.136).

2

Move the cursor to  **"Select Files"** and press the  button.

3

Use the  button to display the date you want to process, then press the  button (the  icon on the left of the date turns white). Repeat this procedure to specify the date you want to process.

4

Press the  button to select one of the functions **"Delete"**, **"Rotate"** or **"Lock"** and press the  button.

- For rotation, use the  button to select the rotation angle (90°, 180°, or 270°).
- For lock, use the  button to select Lock/Unlock.

5

Select **"Selected files..."** and press the  button to apply the setting.

- If you want to cancel, select **"Quit"** and then **"Quit"**.

### CAUTION

- If “**Horizontal Alignment**” in the options menu is set to “**ON**”, you cannot select Rotate.
- You cannot delete or rotate the locked image.
- A movie cannot be rotated.
- Rotation is performed with the added angles from the current angle.
- Either Lock or Unlock applies to all files regardless of the current status.

---

## DNG DEVELOPMENT

Without using a PC, it is possible for the Sigma BF to develop JPEG images from images recorded in DNG.



1. Exposure Compensation
2. Aspect Ratio
3. Fill Light
4. White Balance
5. Lens Compensation
6. Color Mode
7. Quit Icon
8. Development Icon

### 1

In Playback mode, select  "DNG Development" from the options menu. (Only DNG format images are displayed.)

### 2

Display the image you want to develop and press the  button.

### 3

Use the  button to move the cursor to the item you want to adjust, and use the dial to change the adjustment value. (Move the cursor and press the  button to move to the detailed setting screen for each item, where you can make the detailed adjustments.)

- Touch or press the  button to hide the information display and make the image easier to see.

### 4

If there are multiple items you want to change, repeat step 2.

5

When you have completed the settings, select  (development execution icon) and press the  button.

6

Select “**Develop**” and press the  button.

If you want to cancel, select “**Cancel**” and press the  button.

- The created JPEG image is saved in the folder where the original DNG image is saved.
- The created JPEG image is shown with the  mark in the shooting information(P.137).
- The file number of the created JPEG image, which starts with “R\_\_”, is assigned by the next number after the last file number in the folder.

#### CAUTION

- If the storage does not have sufficient free space, a warning message is displayed, preventing you from executing the DNG development. Follow the message instructions to free up space.
- It is recommended that **SIGMA Photo Pro** is used for further detailed adjustment.

#### TIP

- **Fill Light**: This function enables you to adjust the brightness so that dark parts become lighter, without changing the exposure of light parts in an image.

---

## FILE DISPLAY SETTINGS

Set in  $\phi\phi$  “File Display Settings” in the option menu in playback mode.

---

## HORIZONTAL ALIGNMENT

You can specify the orientation to display the image.

<b>OFF</b> (Default)	Displays in the orientation to take a picture.
<b>ON</b>	Shows all files horizontally.

---

## EXPOSURE WARNING

This function displays a red warning for a highlighted part in which a halation occurs on an image due to an overexposure.

<b>OFF (Default)</b>	<b>ON</b>
----------------------	-----------

## SAVING IMAGES TO THE COMPUTER

Transfer and save image files recorded in the camera to the computer.

### 1

Connect the camera to your computer with a commercially available USB Type-C cable.

- The “**USB Mode Select**” screen is displayed.

### 2

Check that “**Mass Storage**” is selected, and press the  button.

- Or select “**USB Mode Select**” → “**Mass Storage**” from the Options menu.
- The camera is recognized by the computer as a USB drive.

### 3

Copy or move the sub folder in which the image files in the DCIM folder are saved, or the image files in the sub folder, from your computer.

- To disconnect, remove the hardware from your computer.

### TIP

- You can transfer images using **SIGMA Photo Pro**. For details, refer to the **SIGMA Photo Pro** help.

### WARNING

- If the computer enters Sleep mode during processing, the currently transferred data may be damaged. Configure a setting to prevent the computer from entering Sleep mode.

## SAVING IMAGES TO THE USB STORAGE

Transfer and save image files recorded in the camera to the USB Storage.

When the USB Storage is connected to the camera, a message is displayed. Check that “**Move to USB Storage**” is selected and press the **⊙** button.

- Or select “**USB Storage**” from the Options menu.
- You can check the usage of internal storage on the “**USB Storage**” screen.



a	Total usage of USB Storage / Total capacity of USB Storage
b	Total usage of USB Storage

## TRANSFERRING IMAGES TO THE USB STORAGE

You can select image files to transfer them, or select them by date to transfer them.

<b>Transfer</b>	Files are copied to the USB Storage while the files are left in the internal storage.
<b>Transfer and Delete</b>	When images are transferred to the USB Storage, the images in the internal storage are deleted.
<b>Quit</b>	Cancels the transfer.

---

## SELECTING A FILE TO TRANSFER

1

On the “**USB Storage**” screen, select “**File Transfer**”.

2

Display the image you want to transfer as instructed in “**SINGLE CAPTURE**”(P.57), and press the  button (the  icon turns white). Repeat this procedure to specify the images you want to transfer.

3

Press the  button to select “**Transfer**” or “**Transfer and Delete**”, then press the  button.

4

Select “**Transfer Selected Files**” or “**Transfer and Delete Selected Files**”, then press the  button.  
– If you want to cancel, select “**Cancel**”.

---

## SELECTING BY DATE TO TRANSFER

1

On the “**USB Storage**” screen, select “**File Transfer**”.

2

Press the  button or drag down on the touch panel to display by date (P.136).

3

Use the  button to display the date you want to transfer, and press the  button (the  icon on the left of the date turns white). Repeat this procedure to specify the date you want to transfer.

4

Press the  button to select “Transfer” or “Transfer and Delete”, then press the  button.

5

Select “Transfer Selected Files” or “Transfer and Delete Selected Files”, then press the  button.

– If you want to cancel, select “Cancel”.

#### CAUTION

– If you select “Cancel”, the files are not transferred, but the files remain selected. If you want to completely cancel the transfer, select “Quit” → “Quit”.

---

## FORMATTING THE USB STORAGE

If there is no free space on the USB Storage, you can format the USB Storage.

#### WARNING

You cannot check the files recorded on the USB Storage from the camera. Use a computer to check that no necessary files remain before formatting.

“USB Storage Format” → “Format USB Storage” → “OK”

## FOLDER NUMBER AND FILE NUMBER

The files you have taken are stored in a sub folder in the DCIM folder, which is named with the date they were taken.

**FOR EXAMPLE, IF THE PHOTO WAS TAKEN ON DECEMBER 5, 2025...**

Folder	Sub folder	File Numbering
DCIM	251205_0	BF_00001 to BF_09999
	251205_1	BF_10000 to BF_19999
	:	:
	251205_9	BF_90000 to BF_99999
	251205A0	BF_00001 to BF_09999
	:	:

- If the last four digits of the file number are greater than 9999, a new sub folder with an incremented last number is created and the file will continue to be stored in the new sub folder.
- The last number of the sub folder and the first number of the file number will be the same number.
- If the last number of the sub folder exceeds 9, the underscore changes to an alphabet (A to) and the last number restarts from 0. (File numbers restart from BF\_00001.)

- If you shoot on a different date, a sub folder is created with the name of that day, but the same number is added at the end (the alphabetic part returns to an underscore). The file numbers are assigned with consecutive numbers.

(Example)

Shooting date	Sub folder	File Numbering
December 5, 2025	251205_2	– BF_20795
December 7, 2025	251207_2	BF_20796 –

- The extension after the file number changes depending on the image format.

Still image	JPEG Format	<b>.JPG</b>
	DNG Format	<b>.DNG</b>
Movie	MOV Format	<b>.MOV</b>

### CAUTION

When the last sub folder number reaches Z9 and the file number reaches BF\_9999, you cannot take any more pictures even if there is free space in the storage. Transfer the necessary images to your computer or an external storage, then initialize the internal storage or delete the last folder from your computer.

# SYSTEM MENU

Configure the basic settings of the camera in the System Menu.

## HOW TO OPEN THE SYSTEM MENU

Press the **⋮** button to display the Options menu screen, use the **∨** button to select “SYSTEM”, and press the **⊙** button.

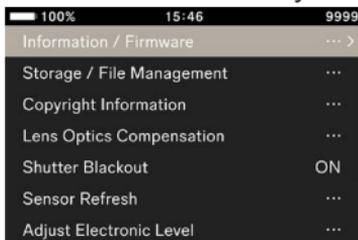


## IN THE SYSTEM MENU:

Use the **⬆** button or the dial to select the item you want to set.

Use the **⬅** button or the **⊙** button to open a sub menu.

Depending on the item, a menu screen, a confirmation dialog or second-level items may be displayed.



## WHILE IN THE SUB-MENUS:

Use the  button or the dial to select your desired option.

Press the  or  button to apply the setting.

(Press the  or  button to close sub-menus without changes being applied.)



## SYSTEM MENU LIST

Menu Item	Second-level Menu Item	Page
Information / Firmware	-	157
Storage / File Management	File Numbering Reset	158
	Internal Storage Format	159
Copyright Information	Attach Copyright Information	160
	Photographer	
	Copyright Owner	
Lens Optics Compensation	Diffraction Compensation	162
	Optical Vignetting Compensation	162
Shutter Blackout	-	162
Sensor Refresh	-	163
Adjust Electronic Level	Calibration	163
	Reset	
Date / Time / Area	Clock	164
	Time Zone	
	Summer Time	
	Date Format	
	24-Hour Time	
Language / Distance Unit	Language / 言語	166
	Distance Unit	166
Settings Management	Save Settings	167
	Restore Settings	167
	Reset Settings	168

### CAUTION

- Depending on the camera settings, some menu items and setting options cannot be selected. They will be grayed out.

---

## **INFORMATION / FIRMWARE**

### **YOU CAN CHECK THE FOLLOWING INFORMATION ABOUT THE CAMERA:**

Model name  
Model number  
Serial number  
Firmware version

### **YOU CAN CHECK THE FOLLOWING INFORMATION ABOUT THE ATTACHED LENS:**

Lens name  
Lens serial number  
Firmware version

### **YOU CAN CONFIRM THE AUTHENTICATION MARK.**

#### **TIP**

- The authentication information that is not printed on the camera is displayed on the bottom of the camera, on the packaging, in the instruction manual, etc.

#### **FIRMWARE UPDATE**

You can update the firmware for your camera and the attached lens.

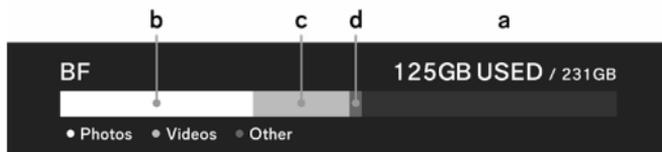
For details on the firmware update status and update method, refer to our website.

[sigma-global.com/en/support/](http://sigma-global.com/en/support/)

---

## STORAGE / FILE MANAGEMENT

You can check the usage of internal storage on the “**Storage / File Management**” screen.



<b>a</b>	Total usage of internal storage / Total capacity of internal storage
<b>b</b>	Usage of still image file
<b>c</b>	Usage of movie file
<b>d</b>	Usage of other files

---

## FILE NUMBERING RESET

The last four digits of the file number can be restarted from 0001 at any time.

“**Storage / File Management**” → “**File Numbering Reset**” →  
“**Reset File Numbering**” → “**OK**”

## TIP

- When reset, a new sub folder with the last number increased by one is created and the captured files are stored in the new sub folder. (The first number of the file number also changes.)

(Example)

	Sub folder	File Numbering
Before reset	251204_5	BF_50851
After reset	251204_6	BF_60001

---

## INTERNAL STORAGE FORMAT

If you want to delete all image files or delete unnecessary files other than images, format the internal storage.

“Storage / File Management” → “Internal Storage Format” → “Format Internal Storage” → “OK”

## WARNING

- Formatting erases all card contents, including locked Sigma BF files and all non-Sigma BF files. Carefully check that no necessary files remain before formatting.

---

## COPYRIGHT INFORMATION

When shooting, you can record information about the “**Photographer**” and “**Copyright Owner**” in the Exif information.

- Each item can be entered using up to 48 single-byte alphanumeric characters and symbols.

1

Select “**Copyright Information**” → “**Attach Copyright Information**” → “**ON**”.

2

Select either “**Photographer**” or “**Copyright Owner**” and enter text following the steps in “**How to enter text**” below.

### HOW TO ENTER TEXT



#### a. Input text display area

The text you entered is displayed. The cursor in the input character display area can be moved using the dial.

#### b. Keyboard area

Use the touch panel or the  button to move the cursor, and use the  button to enter text.

<b>A/a</b>	Switches the keyboard to the alphabet. When the alphabet is displayed, characters are switched between uppercase and lowercase each time this button is pressed.
<b>123</b>	Switches the keyboard to numbers and symbols.
<b>Delete</b>	Deletes the character to the left of the cursor.

### 3

After entering all the characters, press the “✓” key to apply the contents you entered.

- Pressing the “✕” key cancels the entry and returns to the “**Copyright Information**” menu.
- If you do not want to record copyright information, select “**Copyright Information**” → “**Attach Copyright Information**” → “**OFF**”.
- If you want to delete the information you have entered, use the “**Delete**” key to delete all characters and then press the “✓” key to apply the setting.

### TIP

- You can review the recorded information in the Image Information Window of **SIGMA Photo Pro** and by EXIF-compatible software.

### CAUTION

- When lending or transferring the camera, set “**Attach Copyright Information**” to “**OFF**”. It is recommended that the information in each entry item is deleted in such cases.

- We assume no responsibility whatsoever for any difficulties and/or damages resulting from the usage of copyright information.

---

## LENS OPTICS COMPENSATION

Specify whether or not to compensate for the following lens aberration.

---

### DIFFRACTION COMPENSATION

Reduces the deterioration of the image quality caused by the aperture.

OFF (Default)	ON
---------------	----

---

### OPTICAL VIGNETTING COMPENSATION

Reduces the phenomenon in which the screen periphery darkens.

OFF	AUTO (Default)
-----	----------------

---

### SHUTTER BLACKOUT

Set whether or not to display a black image on the screen when the shutter button is pressed.

OFF	ON (Default)
-----	--------------

---

## SENSOR REFRESH

If a bright point is recorded in an image, perform Sensor Refresh.

This optimizes shooting elements and image processing.

Close the cap, select “**Sensor Refresh**”, and press the  button.

- When the sensor refresh is complete, the camera will restart automatically.

## CAUTION

- If the sensor temperature is high or low, sensor refresh may not be available.

---

## ADJUST ELECTRONIC LEVEL

Electronic level's tilt can be adjusted.

Place the camera on a level surface, select “**Calibration**”, and press the  button.

(The new adjustment value is recorded.)

To reset, select “**Reset**” and press the  button. (The adjustment value returns to the factory default.)

---

## DATE / TIME / AREA

If you have not used the camera for a long time, or if you are using it overseas, set the date, time, and area (region).

- The shooting date and time information is recorded in the image file, so please set it correctly.

1

Select “**Date / Time / Area**”.

2

In “**Time Zone**”, select the area you want to use.

- If there is no corresponding area, refer to the time difference from Coordinated Universal Time (UTC) and select an area with the same time difference.

3

Set the daylight saving time (summer time) as needed. In “**Summer Time**”, select “**OFF**” or “**ON**”.

4

In the Date/Time area, press the > button or ⦿ button to set the Date/Time.



5

Use the <> button to select each item, and use the ⬆️ button or the dial to make settings.



## 6

Press the  button to apply the settings. If you do not want to make changes, press the  button.

### CAUTION

- The camera's built-in clock runs on the electricity stored in the built-in rechargeable battery from the camera battery. If the battery has not been inserted in the camera for a long period of time and has not been charged, you need to reset the built-in clock.
- If you change "**Summer Time**" after setting the time, the set time shifts by one hour.

### TO CHANGE THE ORDER OF THE DAY, MONTH, AND YEAR

You can select the desired one from three date formats: Y/M/D (year/month/day), M/D/Y (month/day/year), and D/M/Y (day/month/year).

In "**Date Format**", select the desired display order.

### TO SWITCH BETWEEN 24-HOUR TIME AND 12-HOUR TIME (AM/PM)

In "**24-Hour Time**", select "**ON**" (24-Hour Time) or "**OFF**" (12-Hour Time).

---

## LANGUAGE / DISTANCE UNIT

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### SETTING THE LANGUAGE

You can set the language displayed on the menu screen, etc.

“Language / Distance Unit” → “Language / 言語”

You can select your desired one from 17 languages.

<b>English</b>	English (Default)	<b>日本語</b>	Japanese
<b>简体中文</b>	Simplified Chinese	<b>한국어</b>	Korean
<b>繁體中文</b>	Traditional Chinese	<b>Norsk</b>	Norwegian
<b>Dansk</b>	Danish	<b>Polski</b>	Polish
<b>Nederlands</b>	Dutch	<b>Português</b>	Portuguese
<b>Suomi</b>	Finnish	<b>Русский</b>	Russian
<b>Français</b>	French	<b>Español</b>	Spanish
<b>Deutsch</b>	German	<b>Svenska</b>	Swedish
<b>Italiano</b>	Italian		

---

### SETTING DISTANCE UNIT

You can select the unit of shooting distance displayed in the shooting information.

“Language / Distance Unit” → “Distance Unit”

<b>M (Meters) (Default)</b>	<b>FEET</b>
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## SETTINGS MANAGEMENT

You can save multiple camera settings and restore any setting from multiple saved settings.

---

### SAVE SETTINGS

You can save the current camera settings.

After you have set the camera to your desired settings, select **“Settings Management”** → **“Save Settings”** → **“Save Settings”** → **“OK”** to save settings.

- The saved settings are named with the date and time of saving, and up to 10 settings can be saved.

Example: 2025/10/25 09:15 32

---

### RESTORE SETTINGS

You can restore any setting from multiple saved settings.

1

Select **“Settings Management”** → **“Restore Settings”** to select the desired setting from the list.

2

Select **“Restore”** → **“Restore Settings”** to restore settings.

- When the restoration is complete, the camera will restart automatically.
- You can select **“Delete”** → **“Delete Settings”** to delete the selected setting.

---

## RESET SETTINGS

All settings are reset, excluding the time.

Select “**Settings Management**” → “**Reset Settings**” → “**Reset Settings**” to reset the settings.

- When resetting is complete, the camera will restart automatically.

### TIP

- Even if you perform “**Reset Settings**”, the saved settings are not deleted.
  
- When you perform “**Restore Settings**” or “**Reset Settings**”, the settings before the operation are automatically backed up (AUTO BACKUP) and you can return to the settings before the operation.

### 1

Select “**Settings Management**” → “**Restore Settings**” to select the “**AUTO BACKUP**” setting.

### 2

Select “**Restore**” → “**Restore Settings**” to restore the settings you backed up.

- When the restoration is complete, the camera will restart automatically.

## REFERENCE

This section provides the optional accessories and the camera specifications.

### OPTIONAL ACCESSORIES

#### HAND STRAP HS-11B / HS-11G

This strap has an adjuster that enables you to adjust the length to fit your wrist, enabling you to hold the camera firmly. The black strap (HS-11B) and gray strap (HS-11G) are provided to match the BF camera body color.

#### BATTERY CHARGER BC-81

This is a charger exclusively for the BF lithium-ion rechargeable battery “Battery Pack BP-81” that supports USB PD (USB Power Delivery). Two BP-81 products can be charged at the same time.

\* To charge with the BC-81 Battery Charger, please prepare the following items separately.

a: A commercially available USB Type-C cable (compatible with 3 A or more)

b: An external power source such as a commercially available USB AC adapter (compatible with USB PD (USB Power Delivery), Power source compatible with the output 9V/3A)

#### CR-51 CABLE RELEASE SWITCH

You can connect to the camera’s USB port to release the shutter away from the camera. This is useful when you want to use a slow shutter speed or shoot a movie by attaching the camera to a tripod. (Cable length: Approximately 1m)

## **TROUBLESHOOTING**

If the camera is not working properly or the photos are not coming out well, check the following points before assuming that the camera is broken.

### **NOTHING IS DISPLAYED ON THE LCD MONITOR.**

The battery power is depleted.

> Replace with a charged battery.(P.26)

The LCD is in off mode.(P.123)

> Half-press the shutter button or press any button.

### **CANNOT TAKE PICTURES.**

The camera is placed under data processing (busy state).

> Please wait until processing is complete.

### **AUTOFOCUS DOES NOT WORK.**

The lens focus mode switch is set to M.

> Set the lens focus mode switch to AF. (P.67)

The lens is not correctly attached.

> Attach the lens correctly. (P.29)

The lens you are using does not support Autofocus.

> Check the compatibility of your lens on the Sigma website. (P.18)

### **THE POWER TURNS OFF AUTOMATICALLY.**

Auto Power Off is activated.

- > The Auto Power Off function is activated to reduce the rate of battery consumption. If you are experiencing problems, set the Sleep Timer to “OFF” in the Options menu. (P.122)

### **CANNOT TAKE OR RECORD PICTURES.**

The internal storage capacity is full.

- > Delete unnecessary images to free up space. (P.142)

The battery power is depleted.

- > Replace with a charged battery. (P.26)

### **THE DISPLAY AND IMAGE ON THE LCD MONITOR ARE UNCLEAR.**

There is dust or dirt on it.

- > Blow it off using a blower or wipe it off using a soft, clean cloth. (P.19)

The LCD monitor is deteriorating.

- > Consult your dealer or the Sigma customer support.

### **IMAGES ARE BLURRY.**

You are taking pictures without focusing properly.

- > Half-press the shutter button and wait until the focus frame turns green before taking the picture.(P.69)

The lens focus mode switch is set to M.

- > Set the lens focus mode switch to AF.(P.67)

You are experiencing camera shake.

- > Increase the ISO speed or fix the camera on a tripod before taking pictures. (P.41)

### **CANNOT ERASE IMAGES.**

The images are locked.

- > Unlock them. (P.140)

### **THE SHOOTING DATE AND TIME ARE NOT DISPLAYED CORRECTLY.**

The date and time are not set correctly.

- > Set the date and time correctly. (P.164)

### **AN ERROR CODE IS DISPLAYED.**

An internal error has occurred, so shooting cannot continue.

- > Please contact the Sigma customer support.

## SPECIFICATIONS

Product Name		Sigma BF
Type	Type	Interchangeable-lens Mirrorless Type Digital Camera
	Memory Media	Internal Memory (Approx. 230 GB) , USB Storage (for Backup)
	Lens Mount	L-Mount
Image Sensor	Type	35 mm full-frame (35.9 mm x 23.9 mm) Back-illuminated CMOS sensor
	Camera Effective Pixels / Total Pixels	Approx. 24.6 MP / Approx. 25.3 MP
	Aspect Ratio	3:2
	Still Image File Format	Lossless compression RAW (DNG) 14-bit / JPEG (Exif3.0) , RAW(DNG) + JPEG: recording is possible
	Image Aspect Ratio	[21:9], [16:9], [3:2], [A Size], [4:3], [6x7], [1:1]
File Size	RAW	6016 x 4012
	JPEG	6016 x 4012
Crop		3840 x 2560 (Equivalent to Approx.1.5 times the focal length)

Movie Recording Format	Movie Format	MOV: H.264, H.265, L-Log
	Audio Format	Linear PCM (4ch 48 kHz / 16-bit: Max)
	Record Format / Frame rate	6K* (6K: 6016 x 3384) / 23.98, 25, 29.97 fps *Cannot be used in conjunction with EIS UHD 4K / 23.98, 25, 29.97 fps FHD / 23.98, 25, 29.97, 50, 59.94, 100, 119.88 fps
	Continuous Shooting Enable Time	2 hours
Focus	AF System / Focus Mode	Image Plane Phase-Detection AF + Contrast detection system / Single AF, Continuous AF (with moving object prediction function), Manual Focus
	AF Sensitivity Range / AF Mode	-5~18 EV (F1.4: ISO 100) 1-Point AF, Area AF
	AF Lock	Half-press the shutter button
	Other Focus Functions	Subject Tracking AF (Human + Animal, Human, Animal), AF+MF, Full-time AF+MF, MF Magnification (Full Screen 2x / 4x / 8x), Focus Peaking, Focus Ring Control (Non-linear, Linear)

Exposure Control	Metering System	Evaluative, Spot Metering
	Metering Range	-7~20 EV (50mm F1.4: ISO 100)
	Still Shooting	Program AE, Shutter Speed Priority AE, Aperture Priority AE, Manual *The above can be changed by setting each of Shutter Speed, Aperture, and ISO Sensitivity to Auto or Manual.
	Movie Shooting	Program AE, Shutter Speed Priority AE, Aperture Priority AE, Manual *The above can be changed by setting each of Shutter Speed, Aperture, and ISO Sensitivity to Auto or Manual.
	ISO Sensitivity (Recommended exposure value)	Base ISO [Still] ISO 320 [Movie] MOV: ISO 320, Log: ISO 1250  Settable Range ISO 100-102400 / Expanded sensitivity ISO 6, 12, 25, 50
	Exposure Compensation	±5 EV (in 1/3 stop increments)
	AE Lock	Operated via touch
	Exposure Bracket	3 shots, 5 shots stage exposure ±3 EV (1/3 Step, Standard→Underexposure→Overexposure) (Sequence changeable)
	Exposure Assist	Brightness Level Monitor (Histogram) , Zebra Pattern, False Color

Image Stabilization System		Electronic Image Stabilization (EIS) for Video Only
White Balance		8 types (Auto, Auto [Lighting Source Priority] , Incandescent, Fluorescent, Manual [50K steps] , Daylight, Overcast, Shade, Flash) , Custom 1-10 settings can be added , AWB lock function
Shutter	Type	Electronic shutter
	Shutter Speed	1/25600 - 30 seconds, Bulb (up to 5 minutes)
	Self Timer	2 sec., 10 sec. (Countdown Indicator)
Drive	Drive Modes	Single Capture, Continuous, Self-timer Burst, Exposure Bracketing, Focus Bracketing, Interval Timer
	Continuous Drive Speed	Selectable frame rates (3, 5, 8 fps)
	Number of Recordable Frames	JPEG: 1000 frames, DNG: 350 frames
Monitor	Type / Coverage	TFT color LCD, Aspect Ratio 3:2, 3.15 type, Approx. 2.1M dots , Electrostatic capacitance system touch panel / Approx. 100%
Color Mode		13 types Standard, Rich, Calm, Powder Blue, Warm Gold, Teal and Orange, FOV Classic Blue, FOV Classic Yellow, Forest Green, Sunset Red, Cinema, 709 Look, Monochrome

Other Function		Save / Restore Settings, Webcam, In-camera DNG Development, Still image capture from recorded movie files, Fill Light (Supports only in-camera DNG Development)
Built-in Microphone / Speaker		Stereo Microphone / Monaural Speaker
Display Language		English, Simplified Chinese, Traditional Chinese, Danish, Dutch, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish
Interface	USB Type-C	USB 10 Gbps (USB 3.2) Compatible (Mass Storage, UVC, UAC, External Video Output, Charging / Power Delivery)
	REMOTE	Cable Release (via USB)
	External Microphone Terminal	Supported via USB
	Headphone Output Terminal	Supported via USB
Dust and Splash Resistant Structure*		Provided *Although this construction allows the lens to be used in light rain, it is not the same as being waterproof.

Power	Power	Li-ion Battery Pack BP-81
	Number of Recordable Still Images	Approx. 260 images
	Minutes of Recordable Continuous Shooting	Approx. 60 min.
Dimensions and Weight	Dimensions (W x H x D)	Approx. 130.1 x 72.8 x 36.8 mm / 5.1 x 2.9 x 1.4 in.
	Weight	Approx. 446 g / 15.7 oz. (including battery) , Approx. 388 g / 13.7 oz. (Camera Body Only)
Operating Environment	Operating Temperature	32 to 104 °F / 0 to + 40 °C
	Operating Humidity	85 % or less (non-condensing)

\* The specifications are subject to change without prior notice.

#### SIGMA DIGITAL CAMERA

Model Name: BF Model No.: C361

Input: 3.5V  Input (USB): 9V / 5V 

Made in japan

#### BATTERY PACK BP-81

Secondary Li-ion Battery Model: BP-81

Nominal Voltage: 3.6V Charging Voltage: 4.2V

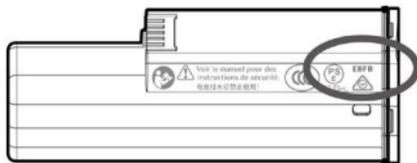
Rated Capacity: 3300mAh Rated Energy: 11.88Wh

Manufacturer: PT SIIX ELECTRONICS INDONESIA

Assembled in Indonesia

## BATTERY MANUFACTURING DATE

The battery manufacturing date is written in the lot number.  
The meaning of the lot number is as follows.



(Example) E B F B

①②③④

① Year of manufacture				② Month of manufacture				③ Date of manufacture						④ Revision code	
E	2024	T	2035	A	1	G	7	1	1	B	11	M	21		
D	2025	S	2036	B	2	H	8	2	2	C	12	N	22		
C	2026	R	2037	C	3	J	9	3	3	D	13	P	23		
B	2027	P	2038	D	4	K	10	4	4	E	14	R	24		
A	2028	N	2039	E	5	L	11	5	5	F	15	S	25		
Z	2029	M	2040	F	6	M	12	6	6	G	16	T	26		
Y	2030	L	2041					7	7	H	17	V	27		
X	2031	K	2042					8	8	J	18	W	28		
W	2032	J	2043					9	9	K	19	X	29		
V	2033	H	2044					A	10	L	20	Y	30		
U	2034	G	2045									Z	31		

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