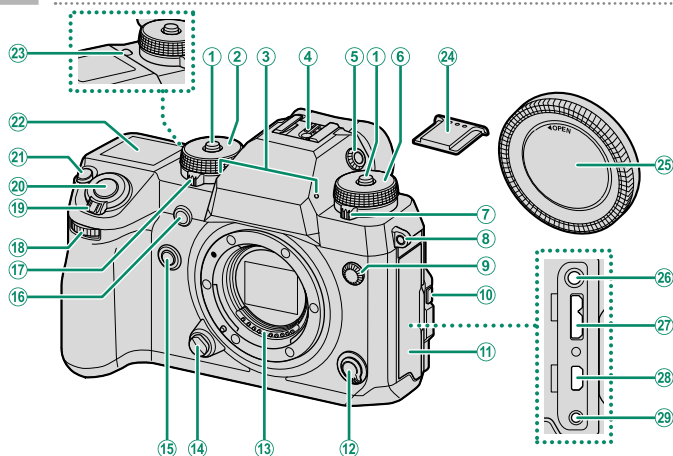


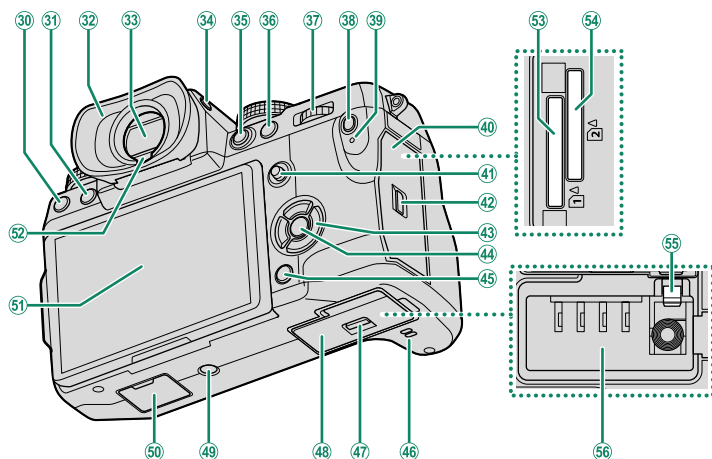
Before You Begin



Parts of the Camera



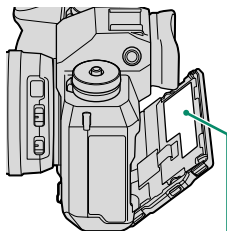
1	Dial lock release.....	5	17	Metering dial.....	79
2	Shutter speed dial.....		18	Front command dial.....	7, 196
		5, 56, 58, 62, 63	19	ON/OFF switch.....	37
3	Microphone.....	50, 146	20	Shutter button.....	46
4	Hot shoe.....	92, 228	21	Fn1 button.....	216
5	Diopter adjustment control.....	8		(exposure compensation) button.....	80
6	Sensitivity dial.....	5, 77, 128	22	Secondary LCD monitor.....	19
7	Drive dial.....	6	23	Secondary monitor backlight button.....	19
8	Strap anchor.....	26	24	Hot shoe cover.....	92, 228
9	Sync terminal.....	227	25	Body cap.....	28
10	Tilt lock release.....	9	26	Microphone jack (ø 3.5 mm).....	51
11	Connector cover.....	31, 61, 242, 247	27	Micro USB (Micro-B) USB 3.0/ USB 2.0 connector.....	31, 61, 247
12	Focus mode selector.....	65	28	HDMI Micro connector (Type D).....	242
13	Lens signal contacts.....		29	Remote release connector (ø 2.5 mm)....	61
14	Lens release button.....	28			
15	Fn2 button.....	216			
16	AF-assist illuminator.....	116, 150			
	Self-timer lamp.....	125			



- | | | | | | |
|----|--|-------------|----|---|--------------|
| 30 | (delete) button | 48 | 45 | DISP (display)/ BACK button | 15, 153 |
| 31 | (playback) button | 47 | 46 | Speaker | 53, 183 |
| 32 | Eye cup | 15 | 47 | Battery-chamber cover latch | 32 |
| 33 | Electronic viewfinder (EVF) | 8, 10, 14 | 48 | Battery-chamber cover | 32 |
| 34 | VIEW MODE button | 14 | 49 | Tripod mount | |
| 35 | AE-L (exposure lock) button | 82, 216 | 50 | Vertical <i>power-booster</i> grip | |
| 36 | AF-ON button | 82, 216 | | connector cover | 235 |
| 37 | Rear command dial | 7, 155, 196 | 51 | LCD monitor | 9, 12, 14 |
| 38 | Q (quick menu) button | 213 | | Touch screen | 21, 121, 201 |
| 39 | Indicator lamp | 8, 150 | 52 | Eye sensor | 14 |
| 40 | Memory card slot cover | 34 | 53 | Memory card slot 1 | 34 |
| 41 | Focus stick (focus lever) | 4, 69, 192 | 54 | Memory card slot 2 | 34 |
| 42 | Memory card slot cover latch | 34 | 55 | Battery latch | 33 |
| 43 | Selector buttons | 4, 196 | 56 | Battery chamber | 32 |
| 44 | MENU/OK button | 20 | | | |

The Serial Number Plate

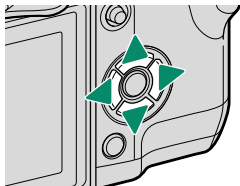
Do not remove the serial number plate, which provides the FCC ID, KC mark, serial number, and other important information.



Serial number plate

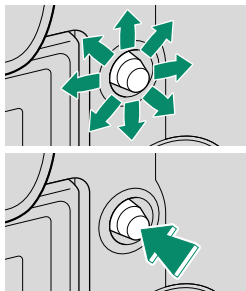
The Selector

Press the selector up (▲), right (▶), down (▼), or left (◀) to highlight items. The up, right, down, and left buttons also double as function buttons **Fn3** through **Fn6** (see page 216).



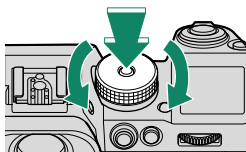
The Focus Stick

Tilt or press the focus stick to select the focus area. The focus stick can also be used to navigate the menus.

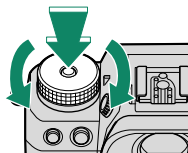


The Shutter Speed and Sensitivity Dials

Press the dial lock release to release the dial before rotating it to the desired setting. Press the release again to lock the dial in place.



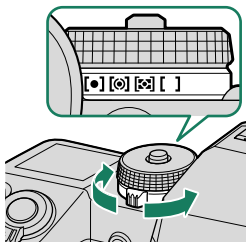
Shutter speed



Sensitivity

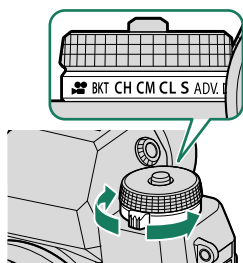
The Metering Dial

Rotate the dial to choose the metering mode.



The Drive Dial

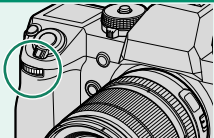
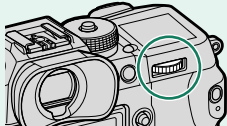
Rotate the dial to choose from the following the drive modes.



Mode		Mode	
Movie	50	S Single frame	44
BKT Bracketing	83	ADV. Advanced filter	87
CH High-speed burst		Panorama	89
CM Mid-speed burst	85		
CL Low-speed burst			

The Command Dials

Rotate or press the command dials to:

	Front command dial	Rear command dial
Rotate 	 • Select menu tabs or page through menus • Adjust aperture^{1,2} • Adjust sensitivity^{2,3} • View other pictures during playback	 • Highlight menu items • Choose the desired combination of shutter speed and aperture (program shift) • Choose a shutter speed² • Adjust exposure compensation by pressing the  button and rotating the dial • Adjust settings in the quick menu • Choose the size of the focus frame • Zoom in or out in full frame or multi-frame playback
Press 	• Switch back and forth between aperture and sensitivity^{2,3} • Press and hold to choose the option selected for  BUTTON/DIAL SETTING > COMMAND DIAL SETTING in the  (set-up) menu	• Perform the function assigned to the DIAL function button. • Zoom in on the active focus point⁴ • Press and hold to choose the manual focus mode focus display⁴ • Zoom in on the active focus point during playback

1 Aperture set to **A** (auto) and lens equipped with aperture ring or **COMMAND** selected for  **BUTTON/DIAL SETTING > APERTURE RING SETTING (A)**.

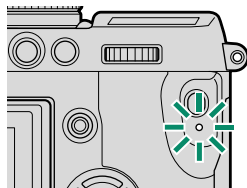
2 Can be changed using  **BUTTON/DIAL SETTING > COMMAND DIAL SETTING**.

3 ISO dial set to **A** and **COMMAND** selected for  **BUTTON/DIAL SETTING > ISO DIAL SETTING (A)**.

4 Available only if **FOCUS CHECK** is assigned to a function button.

The Indicator Lamp

When the viewfinder is not in use, camera status is shown by the indicator lamp.

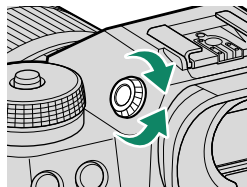


Indicator lamp	Camera status
Glows green	Focus locked.
Blinks green	Focus or slow shutter speed warning. Pictures can be taken.
Blinks green and orange	• Camera on: Recording pictures. Additional pictures can be taken. • Camera off and pictures selected for upload: Uploading pictures to a smartphone or tablet.
Glows orange	Recording pictures. No additional pictures can be taken at this time.
Blinks orange	Flash charging; flash will not fire when picture is taken.
Blinks red	Lens or memory error.

 Warnings may also appear in the display. The **MOVIE SETTING > TALLY LIGHT** option can be used to choose the lamp (indicator or AF-assist) that lights during movie recording and whether the lamp blinks or remains steady.

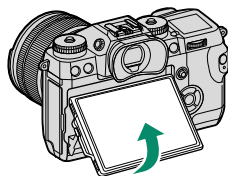
Focusing the Viewfinder

The camera is equipped with diopter adjustment in the range -4 to $+2$ m⁻¹ to accommodate individual differences in vision. Rotate the diopter adjustment control until the viewfinder display is in sharp focus.



The LCD Monitor

The LCD monitor can be tilted for easier viewing, but be careful not to touch the wires or trap fingers or other objects behind the monitor. Touching the wires could cause camera malfunction.



 The LCD monitor also functions as a touch screen that can be used for:

- Touch photography (📖 22)
- Focus area selection (📖 21)
- Function selection (📖 23)
- Muting camera controls during movie recording (📖 23)
- Full-frame playback (📖 24)

“Tall” (Portrait) Orientation

The display can also be tilted to take pictures from high or low angles when the camera is rotated to take pictures in “tall” (portrait) orientation. Press the tilt lock release and tilt the display as shown in Figure 1. To take high-angle shots, hold the camera in the orientation shown in Figure 2.

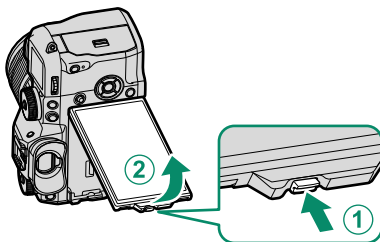


Figure 1

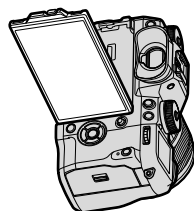


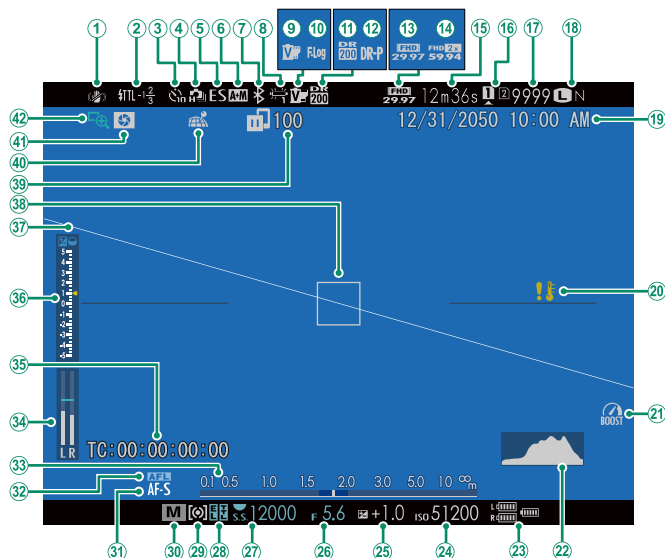
Figure 2

Camera Displays

This section lists the indicators that may be displayed during shooting.

! For illustrative purposes, displays are shown with all indicators lit.

The Electronic Viewfinder

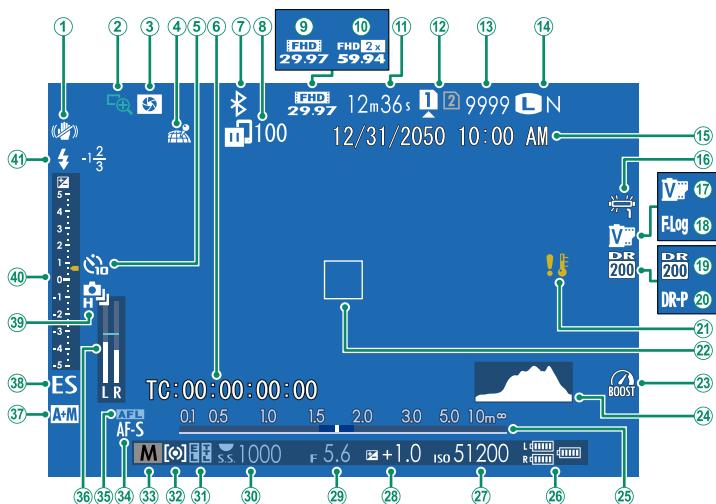


① IS mode	129	②② Histogram.....	18
② Flash (TTL) mode	94, 228	②③ Battery level	38
Flash compensation.....	228	②④ Sensitivity.....	77
③ Self-timer indicator.....	125	②⑤ Exposure compensation	80
④ Continuous mode	85	②⑥ Aperture.....	57, 62, 63
⑤ Shutter type.....	127	②⑦ Shutter speed.....	57, 58, 63
⑥ AF+MF indicator.....	118	②⑧ AE lock.....	82, 199
⑦ Bluetooth ON/OFF.....	206	TTL lock.....	135, 195, 219
⑧ White balance.....	102	②⑨ Metering.....	79
⑨ Film simulation.....	100	③⑩ Shooting mode.....	56
⑩ F-Log recording.....	141	③① Focus mode [†]	65
⑪ Dynamic range.....	101	③② AF lock.....	82, 199
⑫ D-range priority.....	102	③③ Distance indicator.....	75
⑬ Movie mode.....	50, 137	③④ Recording level.....	146
⑭ Full HD high-speed recording.....	138	③⑤ Time code.....	148
⑮ Time remaining.....	50	③⑥ Exposure indicator.....	63, 80
⑯ Card slot options.....	35, 204	③⑦ Virtual horizon.....	18
⑰ Number of available frames*.....	282	③⑧ Focus frame.....	69, 81
⑱ Image quality and size.....	98, 99	③⑨ Image transfer status.....	244
⑲ Date and time.....	39, 41, 179	④⑩ Location data download status.....	210
⑳ Temperature warning.....	281	④① Depth-of-field preview.....	62, 75
㉑ Boost mode.....	202, 238	④② Focus check.....	76, 119

* Shows "9999" if there is space for over 9999 frames.

† In-focus (⦿) or manual focus (MF) indicator may also be displayed.

The LCD Monitor



① IS mode	129	②③ Boost mode	202, 238
② Focus check	76, 119	②④ Histogram	18
③ Depth-of-field preview	62, 75	②⑤ Distance indicator	75
④ Location data download status	210	②⑥ Battery level	38
⑤ Self-timer indicator	125	②⑦ Sensitivity	77
⑥ Time code	148	②⑧ Exposure compensation	80
⑦ Bluetooth ON/OFF	206	②⑨ Aperture	57, 62, 63
⑧ Image transfer status	244	③⑩ Shutter speed	57, 58, 63
⑨ Movie mode	50, 137	③① AE lock	82, 199
⑩ Full HD high-speed recording	138	TTL lock	135, 195, 219
⑪ Time remaining	50	③② Metering	79
⑫ Card slot options	35, 204	③③ Shooting mode	56
⑬ Number of available frames*	282	③④ Focus mode†	65
⑭ Image quality and size	98, 99	③⑤ AF lock	82, 199
⑮ Date and time	39, 41, 179	③⑥ Recording level	146
⑯ White balance	102	③⑦ AF+MF indicator	118
⑰ Film simulation	100	③⑧ Shutter type	127
⑱ F-Log recording	141	③⑨ Continuous mode	85
⑲ Dynamic range	101	④⑩ Exposure indicator	63, 80
⑳ D-range priority	102	④① Flash (TTL) mode	94, 228
㉑ Temperature warning	281	Flash compensation	228
㉒ Focus frame	69, 81		

* Shows "9999" if there is space for over 9999 frames.

† In-focus (⦿) or manual focus (MF) indicator may also be displayed.

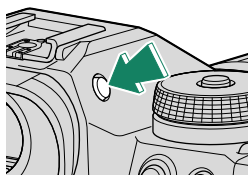
Display Rotation

When **ON** is selected for **SCREEN SET-UP > AUTOROTATE DISPLAYS**, the indicators in the viewfinder and LCD monitor automatically rotate to match camera orientation.

Choosing a Display Mode

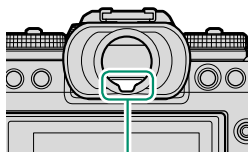
Press the **VIEW MODE** button to cycle through the following display modes:

-  **EYE SENSOR**: Putting your eye to the viewfinder turns the viewfinder on and the LCD monitor off; taking your eye away turns the viewfinder off and LCD monitor on.
- **EVF ONLY**: Viewfinder on, LCD monitor off.
- **LCD ONLY**: LCD monitor on, viewfinder off.
- **EVF ONLY** + : Putting your eye to the viewfinder turns the viewfinder on; taking it away turns the viewfinder off. The LCD monitor remains off.
-  **EYE SENSOR + LCD IMAGE DISP.:** Putting your eye to the viewfinder during shooting turns the viewfinder on, but the LCD monitor is used for the display of images once you remove your eye from the viewfinder after shooting.



The Eye Sensor

The eye sensor may respond to objects other than your eye or to light shining directly on the sensor. *The eye sensor is disabled while the LCD monitor is tilted.*



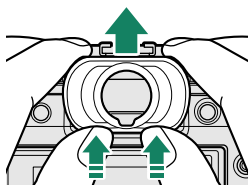
Eye sensor

Adjusting Display Brightness

The brightness and hue of the viewfinder and LCD monitor can be adjusted using the items in the  **SCREEN SET-UP** menu. Choose **EVF BRIGHTNESS** or **EVF COLOR** to adjust viewfinder brightness or hue, **LCD BRIGHTNESS** or **LCD COLOR** to do the same for the LCD monitor.

The Eye Cup

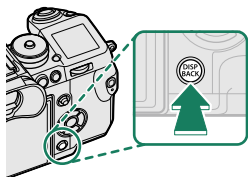
To remove the eye cup, press the bottom in with both thumbs and slide eye cup up.



The DISP/BACK Button

The **DISP/BACK** button controls the display of indicators in the viewfinder and LCD monitor.

Indicators for the EVF and LCD must be selected separately. To choose the EVF display, place your eye to the viewfinder while using the **DISP/BACK** button.

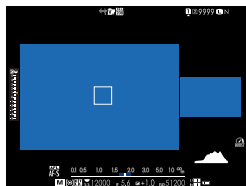


Viewfinder

Full screen



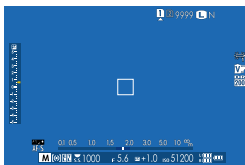
Standard



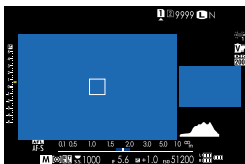
Dual display (manual focus mode only)

LCD Monitor

Standard



Information off



Dual display
(manual focus mode only)



Info display

The Dual Display

The dual display consists of a large full-frame window and a smaller close-up of the focus area.



The content of the large and small windows in the display can be switched using **SCREEN SET-UP > DUAL DISPLAY SETTING**.

Customizing the Standard Display

To choose the items shown in the standard indicator display:

1 Display standard indicators.

Use the **DISP/BACK** button to display standard indicators.

2 Select **DISP. CUSTOM SETTING**.

Select **SCREEN SET-UP > DISP. CUSTOM SETTING** in the setup menu.

3 Choose items.

Highlight items and press **MENU/OK** to select or deselect.

- FRAMING GUIDELINE
- ELECTRONIC LEVEL
- FOCUS FRAME
- AF DISTANCE INDICATOR
- MF DISTANCE INDICATOR
- HISTOGRAM
- LIVE VIEW HIGHLIGHT ALERT
- SHOOTING MODE
- APERTURE/S-SPEED/ISO
- INFORMATION BACKGROUND
- Expo. Comp. (Digit)
- Expo. Comp. (Scale)
- FOCUS MODE
- PHOTOMETRY
- SHUTTER TYPE
- FLASH
- CONTINUOUS MODE
- DUAL IS MODE
- TOUCH SCREEN MODE
- WHITE BALANCE
- FILM SIMULATION
- DYNAMIC RANGE
- **BOOST MODE**
- FRAMES REMAINING
- IMAGE SIZE/QUALITY
- MOVIE MODE & REC. TIME
- **IMAGE TRANSFER ORDER**
- MIC LEVEL
- BATTERY LEVEL
- FRAMING OUTLINE

4 Save changes.

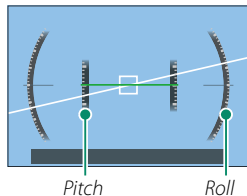
Press **DISP/BACK** to save changes.

5 Exit the menus.

Press **DISP/BACK** as needed to exit the menus and return to the shooting display.

Virtual Horizon

Selecting **ELECTRONIC LEVEL** displays a virtual horizon. The camera is level when the two lines overlap. Note that the virtual horizon may not be displayed if the camera lens is pointed up or down. For a 3D display (shown), press the function button to which **ELECTRONIC LEVEL** is assigned (194, 218)

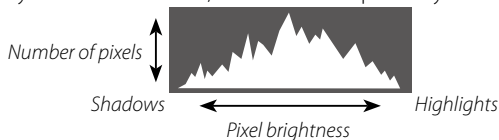


Framing Outline

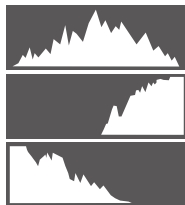
Enable **FRAMING OUTLINE** to make the borders of the frame easier to see against dark backgrounds.

Histograms

Histograms show the distribution of tones in the image. Brightness is shown by the horizontal axis, the number of pixels by the vertical axis.

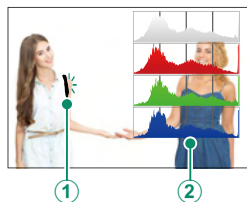


- **Optimal exposure:** Pixels are distributed in an even curve throughout the tone range.
- **Overexposed:** Pixels are clustered on the right side of the graph.
- **Underexposed:** Pixels are clustered on the left side of the graph.



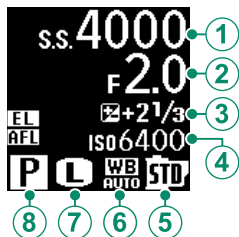
To view separate RGB histograms and a display showing areas of the frame that will be overexposed at current settings superimposed on the view through the lens, press the function button to which **HISTOGRAM** is assigned (194, 218).

- 1 Overexposed areas blink
- 2 RGB histograms



The Secondary LCD Monitor

The secondary LCD monitor shows eight camera settings, four as text (items ① to ④) and four as icons (items ⑤ to ⑧). Use **SCREEN SET-UP > SUB MONITOR SETTING** to choose the items displayed. Items for display when you are taking photographs can be selected separately from those shown in movie mode; in the lists that follow, items not available in movie mode are indicated by asterisks ("**").



At default settings, the secondary LCD shows the following:

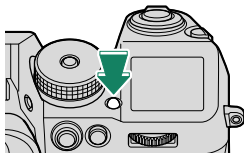
- **Text:** ① SHUTTER SPEED, ② APERTURE, ③ EXPO. COMP., ④ ISO
- **Icons:** ⑤ FILM SIMULATION, ⑥ WHITE BALANCE, ⑦ IMAGE SIZE*, ⑧ SHOOTING MODE

The following options are also available:

- **Text:** MOVIE MODE, FRAMES REM.*, REC. TIME, NONE
- **Icons:** PHOTOMETRY, DRIVE MODE*, FOCUS MODE, IMAGE QUALITY*, BATTERY LEVEL, CARD SLOT OPTIONS, SHUTTER TYPE*, DYNAMIC RANGE*, MOVIE MODE*, NONE

The Secondary Monitor Backlight

To turn on the secondary monitor backlight when you find the secondary LCD monitor too dark to read, press the secondary monitor backlight button. Press the button again to turn the backlight off.

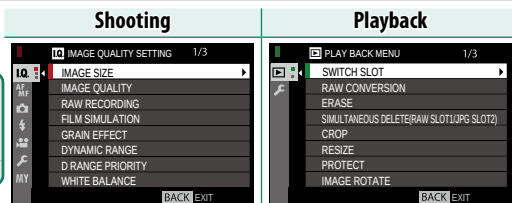


Background Color

The background color (black or white) for the secondary monitor can be selected using the **SCREEN SET-UP > SUB MONITOR BACKGROUND COLOR** option in the (setup) menu. Note that the background is displayed in white whenever the secondary monitor backlight is on.

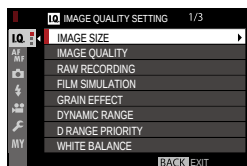
Using the Menus

To display the menus, press **MENU/OK**.

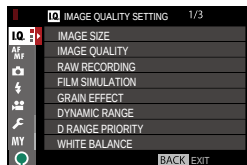


To navigate the menus:

- 1 Press **MENU/OK** to display the menus.



- 2 Press the selector left to highlight the tab for the current menu.



Tab

- 3 Press the selector up or down to highlight the tab (**IQ**, **AF MF**, **RAW**, **FILE**, **MY**, **RECALL** or **DISP**) containing the desired item.
- 4 Press the selector right to place the cursor in the menu.



Use the front command dial to select menu tabs or page through menus and the rear command dial to highlight menu items.

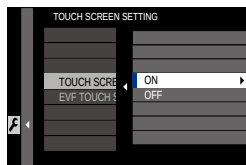
Touch Screen Mode

The LCD monitor also functions as a touch screen.

Shooting Touch Controls

Touch Controls and the EVF

If **ON** is selected for **■ BUTTON/DIAL SETTING > TOUCH SCREEN SETTING > TOUCH SCREEN ON/OFF**, the LCD monitor can be used to select the focus area while pictures are being framed in the electronic viewfinder (EVF). Use **EVF TOUCH SCREEN AREA SETTINGS** to choose the area of the monitor employed for touch controls.



LCD Monitor Touch Controls

Touch controls can be used for such operations as choosing the focus area and taking photographs. The operation performed can be selected by tapping the touch-screen mode indicator in the display to cycle through the following options:

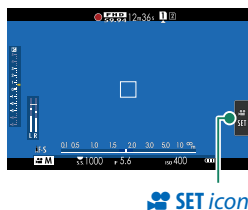


Mode	Description
 TOUCH SHOOTING	Tap your subject in the display to focus and release the shutter.
 AF	Tap to select a focus point. In focus mode S (AF-S), focus will lock, while in focus mode C (AF-C), the camera will continually adjust focus in response to changes in the distance to the subject.
 AREA	Tap to select a point for focus or zoom. The focus frame will move to the selected point.
 OFF	Touch focus and shooting disabled.

 Touch control settings can be adjusted using **AF/MF SETTING > TOUCH SCREEN MODE** (121). To disable touch controls and hide the touch screen mode indicator, select **OFF** for **AF/MF SETTING > TOUCH SCREEN SETTING > TOUCH SCREEN ON/OFF**.

Muting Movie Controls

Movie settings can be adjusted using touch-screen controls, preventing the sounds made by camera controls being recorded with the movie. When **ON** is selected for **MOVIE SETTING > MOVIE SILENT CONTROL** in the shooting menu, a **SET** icon will be displayed in the LCD monitor; tap the icon to access the following controls:



SET icon

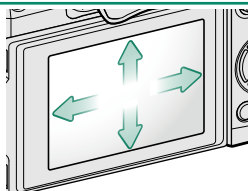
- SHUTTER SPEED*
- APERTURE*
- EXPOSURE COMPENSATION
- ISO
- INTERNAL MIC LEVEL ADJUSTMENT/EXTERNAL MIC LEVEL ADJUSTMENT
- WIND FILTER
- HEADPHONES VOLUME
- FILM SIMULATION (MOVIE)
- WHITE BALANCE (MOVIE)

* Selecting **ON** for **MOVIE SETTING > MOVIE SILENT CONTROL** disables dial controls.

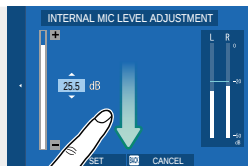
Touch Function

Functions can be assigned to the following flick gestures in much the same way as function buttons (216):

- Flick up: **T-Fn1**
- Flick left: **T-Fn2**
- Flick right: **T-Fn3**
- Flick down: **T-Fn4**



In some cases, touch-function flick gestures display a menu; tap to select the desired option.



Playback Touch Controls

When **ON** is selected for **▶ BUTTON/DIAL SETTING > TOUCH SCREEN SETTING > TOUCH SCREEN ON/OFF**, touch controls can be used for the following playback operations:

- **Swipe:** Swipe a finger across the display to view other images.



- **Pinch-out:** Place two fingers on the display and spread them apart to zoom in.



- **Pinch-in:** Place two fingers on the display and slide them together to zoom out.

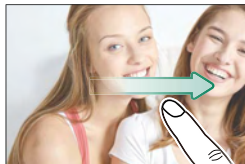


Pictures can be zoomed out until the entire image is visible but no further.

- **Double-tap:** Tap the display twice to zoom in on the focus point.



- **Drag:** View other areas of the image during playback zoom.



First Steps

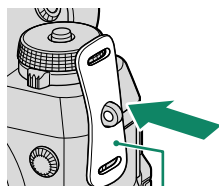
2

Attaching the Strap

Attach the strap clips to the camera and then attach the strap.

1 Attach a protective cover.

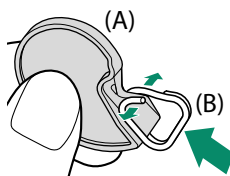
Place a protective cover over the eye-let as shown, with the black side of the cover toward the camera.



Protective cover

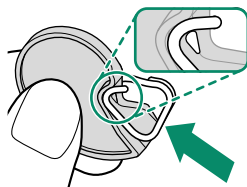
2 Open a strap clip.

Use the clip attaching tool (A) to open a strap clip (B), making sure that the tool and clip are in the orientations shown.



3 Slide the clip onto the tool.

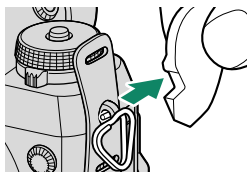
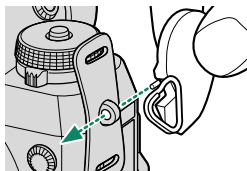
Slide the clip onto the tool so that it hooks over the projection.



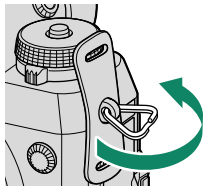
4 Place the strap clip on an eyelet.

Hook the strap eyelet in the clip opening. Remove the tool, using the other hand to keep the clip in place.

! Keep the tool in a safe place, as you will need it to open the strap clips when removing the strap.

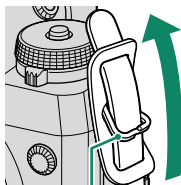
**5 Pass the clip through the eyelet.**

Rotate the clip fully through the eyelet until it clicks closed.

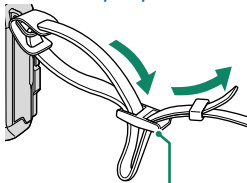
**6 Fasten the strap.**

Insert the strap through a protective cover and strap clip and fasten the buckle as shown.

! To avoid dropping the camera, be sure the strap is correctly secured.



Strap clip



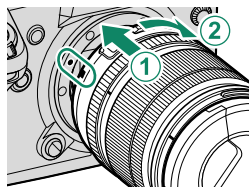
Buckle

Repeat the above steps for the second eyelet.

Attaching a Lens

The camera can be used with lenses for the FUJIFILM X-mount.

Remove the body cap from the camera and the rear cap from the lens. Place the lens on mount, keeping the marks on the lens and camera aligned (①), and then rotate the lens until it clicks into place (②).

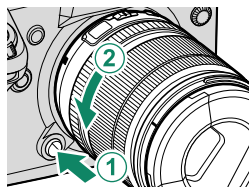


❗ When attaching lenses, ensure that dust or other foreign matter does not enter the camera and be careful not to touch the camera's internal parts. Do not press the lens release button while attaching the lens and be sure the latch has securely clicked into place.

Removing Lenses

To remove the lens, turn the camera off, then press the lens release button (①) and rotate the lens as shown (②).

❗ To prevent dust accumulating on the lens or inside the camera, replace the lens caps and camera body cap when the lens is not attached.



Lenses and Other Optional Accessories

The camera can be used with lenses and accessories for the FUJIFILM X-mount.

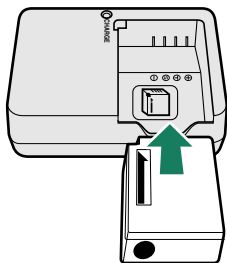
❗ Before attaching or removing (exchanging) lenses, attach the lens caps and check that the lenses are free of dust and other foreign matter. Do not change lenses in direct sunlight or under another bright light source, as light focused into the interior of the camera could cause it to malfunction. See the manual provided with the lens for information on use.

Charging the Battery

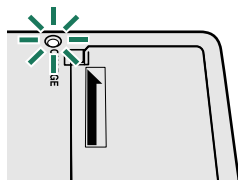
The battery is not charged at shipment. Before use, charge the battery in the supplied battery charger.

 An NP-W126S rechargeable battery is supplied with the camera. Charging takes about 150 minutes.

- 1 Place the battery in the charger.**
Place the battery in the supplied battery charger as shown.



- 2 Plug the charger in.**
Plug the charger into an indoor power outlet. The charging indicator will light.



- 3 Charge the battery.**
Remove the battery when charging is complete.

The Charging Indicator

The charging indicator shows battery charge status as follows:



Charging indicator	Battery status	Action
Off	Battery not inserted.	Insert the battery.
	Battery fully charged.	Remove the battery.
On	Battery charging.	—
Blinks	Battery fault.	Unplug the charger and remove the battery.

! The supplied AC cord is for use exclusively with the supplied battery charger. Do not use the supplied charger with other cords or the supplied cord with other devices.

Do not affix labels or other objects to the battery. Failure to observe this precaution could make it impossible to remove the battery from the camera.

Do not short the battery terminals. The battery could overheat.

Read the cautions in “The Battery and Power Supply”.

Use only battery chargers designated for use with the battery. Failure to observe this precaution could result in product malfunction.

Do not remove the labels from the battery or attempt to split or peel the outer casing.

The battery gradually loses its charge when not in use. Charge the battery one or two days before use. If the battery fails to hold a charge, it has reached the end of its charging life and must be replaced.

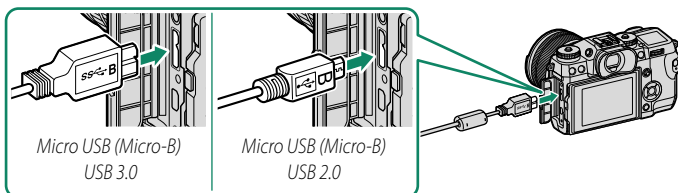
Unplug the charger when it is not in use.

Remove dirt from the battery terminals with a clean, dry cloth. Failure to observe this precaution could prevent the battery from charging.

Note that charging times increase at low or high temperatures.

Charging via Computer

The battery also charges if the camera is connected to a computer. Turn the camera off, insert the battery, and connect a USB cable as shown, making sure the connectors are fully inserted. The charging time is not affected by the type of cable used.



Battery status is shown by the indicator lamp.

Indicator lamp	Battery status
On	Battery charging
Off	Charging complete
Blinks	Battery fault

Connect the camera directly to the computer; do not use a USB hub or keyboard. Charging stops if the computer enters sleep mode; to resume charging, activate the computer and disconnect and reconnect the USB cable. Charging may not be supported depending on the model of computer, computer settings, and the computer's current state.

Inserting the Battery

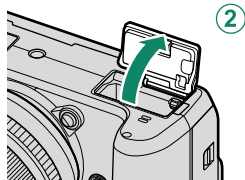
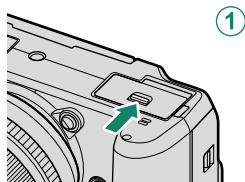
After charging the battery, insert the battery in the camera as described below.

1 Open the battery-chamber cover.

Slide the battery-chamber latch as shown and open the battery-chamber cover.

! Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could damage image files or memory cards.

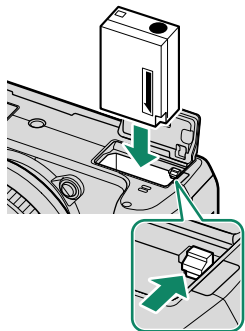
Do not use excessive force when handling the battery-chamber cover.



2 Insert the battery.

Using the battery to keep the battery latch pressed to one side, insert the battery contacts first in the direction shown by the arrow. Confirm that the battery is securely latched.

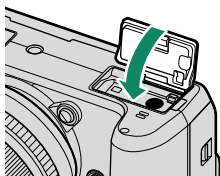
! Insert the battery in the orientation shown. *Do not use force or attempt to insert the battery upside down or backwards.* The battery will slide in easily in the correct orientation.



3 Close the battery-chamber cover.

Close and latch the cover.

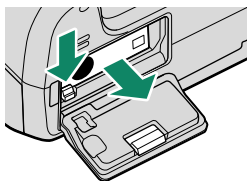
❗ If the cover does not close, check that the battery is in the correct orientation. Do not attempt to force the cover shut.



Removing the Battery

Before removing the battery, *turn the camera off* and open the battery-chamber cover.

To remove the battery, press the battery latch to the side, and slide the battery out of the camera as shown.



❗ The battery may become hot when used in high-temperature environments. Observe caution when removing the battery.

Inserting Memory Cards

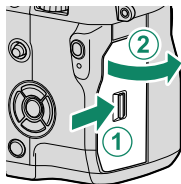
Pictures are stored on memory cards (sold separately).



The camera can be used with two cards, one in each of its two slots.

1 Open the memory card slot cover.

Unlatch and open the cover.

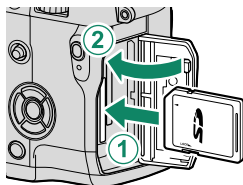


Do not open the memory card-slot cover when the camera is on.

Failure to observe this precaution could damage image files or memory cards.

2 Insert the memory card.

Holding the card in the orientation shown, slide it in until it clicks into place at the back of the slot. **Close and latch the memory card slot cover.**



Be sure card is in the correct orientation; do not insert at an angle or use force.

3 Format the memory card (📖 178).

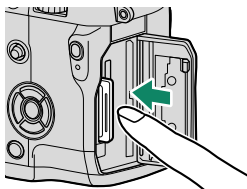


Format memory cards before first use, and be sure to reformat all memory cards after using them in a computer or other device.

Removing Memory Cards

Before removing memory cards, *turn the camera off* and open the memory card slot cover.

Press and release the card to eject it part way (to prevent the card falling from the slot, press the center of the card and release it slowly, without removing your finger from the card). The card can then be removed by hand.



Using Two Cards

The camera can be used with two cards, one in each of its two slots. At default settings, photos are saved to the card in the second slot only when the card in the first slot is full. This can be changed using **SAVE DATA SET-UP > CARD SLOT SETTING (STILL IMAGE)**.

Option	Description	Display
SEQUENTIAL (default)	The card in the second slot is used only when the card in the first slot is full. If the second slot is selected for SAVE DATA SET-UP > SELECT SLOT (SEQUENTIAL) , recording will start on the card in the second slot and switch to the first slot when the card in the second slot is full.	
BACKUP	Each picture is recorded twice, once to each card.	
RAW / JPEG	As for SEQUENTIAL , except that the RAW copy of pictures taken with FINE+RAW or NORMAL+RAW selected for IMAGE QUALITY SETTING > IMAGE QUALITY will be saved to the card in the first slot and the JPEG copy to the card in the second slot.	

The card used to store movies can be selected using **SAVE DATA SET-UP > SELECT SLOT (MOVIE)**.

Compatible Memory Cards

FUJIFILM and SanDisk SD, SDHC, and SDXC memory cards have been approved for use in the camera; UHS-II cards can be used in both slots, while cards with a UHS speed class of 3 or better are recommended for movies. A complete list of approved memory cards is available at http://www.fujifilm.com/support/digital_cameras/compatibility/. Operation is not guaranteed with other cards. The camera cannot be used with xD-Picture Cards or MultiMediaCard (MMC) devices.

! Do not turn the camera off or remove the memory card while the memory card is being formatted or data are being recorded to or deleted from the card. Failure to observe this precaution could damage the card.

Memory cards can be locked, making it impossible to format the card or to record or delete images. Before inserting a memory card, slide the write-protect switch to the unlocked position.



Memory cards are small and can be swallowed; keep out of reach of children. If a child swallows a memory card, seek medical assistance immediately.

miniSD or microSD adapters that are larger or smaller than memory cards may not eject normally; if the card does not eject, take the camera to an authorized service representative. Do not forcibly remove the card.

Do not affix labels or other objects to memory cards. Peeling labels can cause camera malfunction.

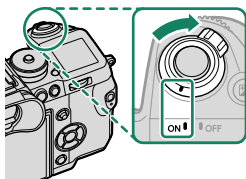
Movie recording may be interrupted with some types of memory card.

Formatting a memory card in the camera creates a folder in which pictures are stored. Do not rename or delete this folder or use a computer or other device to edit, delete, or rename image files. Always use the camera to delete pictures; before editing or renaming files, copy them to a computer and edit or rename the copies, not the originals. Renaming the files on the camera can cause problems during playback.

Turning the Camera On and Off

Use the **ON/OFF** switch to turn the camera on and off.

Rotate the switch to **ON** to turn the camera on, or to **OFF** to turn the camera off.



 Fingerprints and other marks on the lens or viewfinder can affect pictures or the view through the viewfinder. Keep the lens and viewfinder clean.

 Press the  button to start playback. Press the shutter button halfway to return to shooting mode.

The camera will turn off automatically if no operations are performed for the length of time selected for  **POWER MANAGEMENT > AUTO POWER OFF**. To reactivate the camera after it has turned off automatically, press the shutter button halfway or turn the **ON/OFF** switch to **OFF** and then back to **ON**.

Checking the Battery Level

After turning the camera on, check the battery level in the display.

Battery level is shown as follows:

Indicator	Description
	Battery partially discharged.
	Battery about 80% full.
	Battery about 60% full.
	Battery about 40% full.
	Battery about 20% full.
 (red)	Low battery. Charge as soon as possible.
 (blinks red)	Battery exhausted. Turn camera off and recharge battery.



Basic Setup

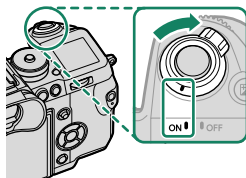
When you turn the camera on for the first time, you can choose a language and set the camera clock. At default settings, you can also pair the camera with a smartphone or tablet so that you can later synchronize the clocks or download pictures. Follow the steps below when turning the camera on for the first time.



If you intend to pair the camera with a smartphone or tablet, install and launch the latest version of the FUJIFILM Camera Remote App on the smart device before proceeding. For more information, visit: http://app.fujifilm-dsc.com/en/camera_remote/

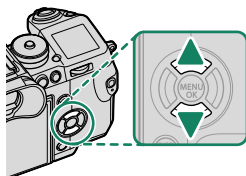
1 Turn the camera on.

A language-selection dialog will be displayed.



2 Choose a language.

Highlight a language and press **MENU/OK**.

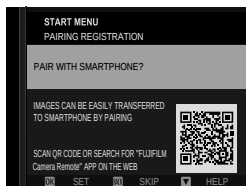


3 Pair the camera with the smartphone or tablet.

Press **MENU/OK** to pair the camera with a smartphone or tablet running the FUJIFILM Camera Remote app.

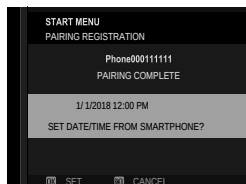


To skip pairing, press **DISP/BACK**.



4 Check the time.

When pairing is complete, you will be prompted to set the camera clock to the time reported by the smartphone or tablet. Check that the time is correct.



 To set the clock manually, press **DISP/BACK** ( 41).

5 Set the clock.

Press **MENU/OK** to set the camera clock to the time reported by the smartphone or tablet and exit to shooting mode.

 If the battery is removed for an extended period, the camera clock will be reset and the language-selection dialog will be displayed when the camera is turned on.

Skiping the Current Step

Press **DISP/BACK** to skip the current step. A confirmation dialog will be displayed; select **NO** to avoid repeating any steps you skipped the next time the camera is turned on.

Choosing a Different Language

To change the language:

- 1 **Display language options.**
Select  **USER SETTING > 言語/LANG..**
- 2 **Choose a language.**
Highlight the desired option and press **MENU/OK**.

Changing the Time and Date

To set the camera clock:

- 1 **Display DATE/TIME options.**
Select  **USER SETTING > DATE/TIME.**
- 2 **Set the clock.**
Press the selector left or right to highlight the year, month, day, hour, or minute and press up or down to change. Press **MENU/OK** to set the clock.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

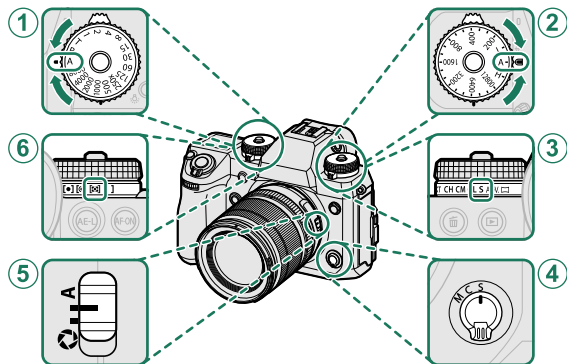
Basic Photography and Playback

3

Taking Photographs (Mode P)

This section describes how to take pictures using program AE (mode P). See pages 56–63 for information on S, A, and M modes.

1 Adjust settings for program AE.



- 1 **Shutter speed** (56): Select A (auto).
- 2 **Sensitivity** (77): Select A (auto).
- 3 **Drive mode** (6): Select S (single frame).
- 4 **Focus mode** (65): Select S (single AF).
- 5 **Aperture** (56): Select A (auto).
- 6 **Metering** (79): Select [A-] (multi).

 To use the shutter speed and sensitivity dials, press the dial lock release and rotate the dial to the desired setting.

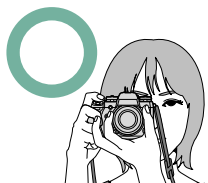
2 Check the shooting mode.

Confirm that P appears in the display.

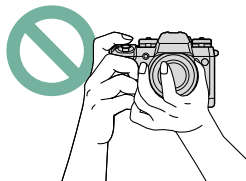


3 Ready the camera.

Hold the camera steady with both hands and brace your elbows against your sides. Shaking or unsteady hands can blur your shots.



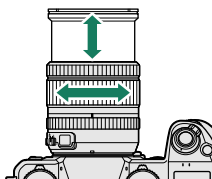
To prevent pictures that are out of focus or too dark (underexposed), keep your fingers and other objects away from the lens and AF-assist illuminator.



4 Frame the picture.

Lenses with Zoom Rings

Use the zoom ring to frame the picture in the display. Rotate the ring left to zoom out, right to zoom in.

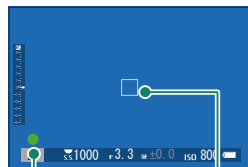


5 Focus.

Press the shutter button halfway to focus.



If the subject is poorly lit, the AF-assist illuminator may light.



Focus indicator

Focus frame

If the camera is able to focus, it will beep twice and focus area and focus indicator will glow green. Focus and exposure will lock while the shutter button is pressed halfway.

If the camera is unable to focus, the focus frame will turn red, **!AF** will be displayed, and the focus indicator will blink white.

6 Shoot.

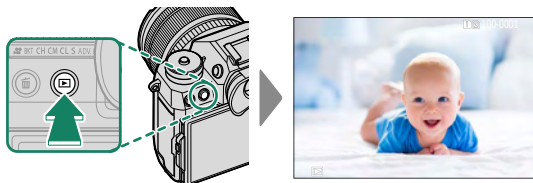
Smoothly press the shutter button the rest of the way down to take the picture.



Viewing Pictures

Pictures can be viewed in the viewfinder or LCD monitor.

To view pictures full frame, press .



Additional pictures can be viewed by pressing the selector left or right or rotating the front command dial. Press the selector or rotate the dial right to view pictures in the order recorded, left to view pictures in reverse order. Keep the selector pressed to scroll rapidly to the desired frame.



Pictures taken using other cameras are marked with a  ("gift image") icon to warn that they may not display correctly and that playback zoom may not be available.

Two Memory Cards

If two memory cards are inserted, you can press and hold the  button to choose a card for playback. You can also select a card using the  **PLAY BACK MENU > SWITCH SLOT** option.



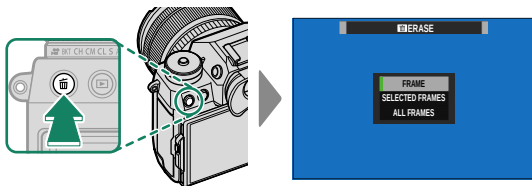
Deleting Pictures

Use the button to delete pictures.



Deleted pictures cannot be recovered. Copy important pictures to a computer or other storage device before proceeding.

- 1 With a picture displayed full frame, press the button and select **FRAME**.



- 2 Press the selector left or right to scroll through pictures and press **MENU/OK** to delete (a confirmation dialog is not displayed). Repeat to delete additional pictures.



Protected pictures cannot be deleted. Remove protection from any pictures you wish to delete (164).

Pictures can also be deleted from the menus using the **PLAY BACK MENU > ERASE** option (160).

Movie Recording and Playback

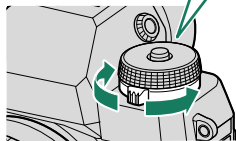
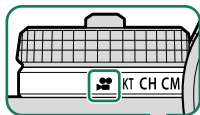
4



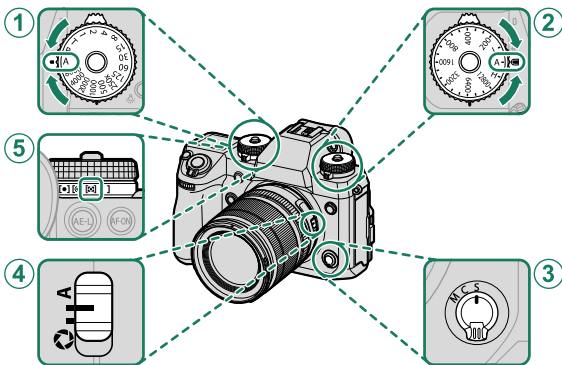
Recording Movies

This section describes how to film movies in auto mode.

- 1 Rotate the drive dial to .



- 2 Adjust settings for program AE.

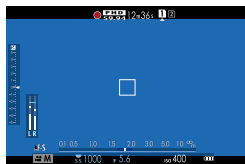


- 1 **Shutter speed** ( 56): Select A (auto).
- 2 **Sensitivity** ( 77): Select A (auto).
- 3 **Focus mode** ( 65): Select S (single AF).
- 4 **Aperture** ( 56): Select A (auto).
- 5 **Metering** ( 79): Select  (multi).



To use the shutter speed and sensitivity dials, press the dial lock release and rotate the dial to the desired setting.

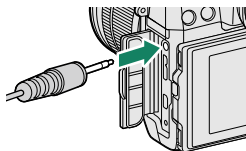
- 3 Press the shutter button to start recording. A recording indicator (●) and the time remaining are displayed while recording is in progress.



- 4 Press the button again to end recording. Recording ends automatically when the maximum length is reached or the memory card is full.

Using an External Microphone

Sound can be recorded with external microphones that connect using jacks 3.5 mm in diameter; microphones that require plug-in power cannot be used. See the microphone manual for details.

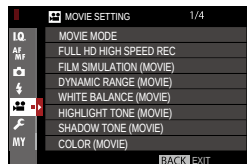


- !** Sound is recorded via the built-in microphone or an optional external microphone. Do not cover the microphone during recording. Note that the microphone may pick up lens noise and other sounds made by the camera during recording.

Vertical or horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.

Adjusting Movie Settings

Movie settings can be adjusted using the  **MOVIE SETTING** option in the shooting menu ( 137).



Depth of Field

Choose low f-numbers to soften background details.

 The indicator lamp lights while recording is in progress (the  **MOVIE SETTING** > **TALLY LIGHT** option can be used to choose the lamp—in indicator or AF-assist—that lights during movie recording and whether the lamp blinks or remains steady). During recording, you can change exposure compensation by up to ± 2 EV and adjust zoom using the zoom ring on the lens (if available).

If the lens is equipped with an aperture mode switch, select the aperture mode before beginning recording. If an option other than **A** is selected, shutter speed and aperture can be adjusted while recording is in progress.

While recording is in progress, you can:

- Adjust sensitivity
- Use the **VIEW MODE** button and the eye sensor to switch between the EVF and LCD monitor displays
- Refocus using touch-screen controls, by pressing the shutter button halfway, or by pressing the **AF-ON** button
- Display a histogram or artificial horizon by pressing the button to which **HISTOGRAM** or **ELECTRONIC LEVEL** has been assigned

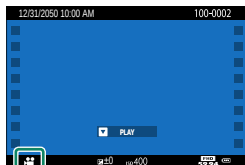
Recording may be unavailable at some settings, while in other cases settings may not apply during recording.

The slot to which movies are recorded can be selected using the  **SAVE DATA SET-UP** > **SELECT SLOT** ( **SEQUENTIAL**) option in the  (setup) menu. To choose the focus area for movie recording, select  **MOVIE SETTING** > **FOCUS AREA (MOVIE)** and use the focus stick (focus lever) and rear command dial ( 69).

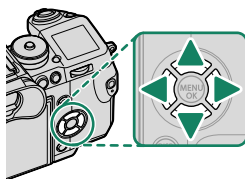
Viewing Movies

View movies on the camera.

In full-frame playback, movies are identified by a  icon. Press the selector down to start movie playback.



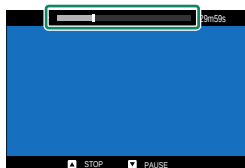
The following operations can be performed while a movie is displayed:



Selector	Full-frame playback	Playback in progress (▶)	Playback paused (⏸)
▲	—	End playback	
▼	Start playback	Pause playback	Start/resume playback
◀▶	View other pictures	Adjust speed	Single frame rewind/advance

Progress is shown in the display during playback.

 Do not cover the speaker during playback.



 Press **MENU/OK** to pause playback and display volume controls. Press the selector up or down to adjust the volume; press **MENU/OK** again to resume playback. Volume can also be adjusted using **SOUND SET-UP > PLAYBACK VOLUME**.

Playback Speed

Press the selector left or right to adjust playback speed during playback. Speed is shown by the number of arrows (▶ or ◀).



Arrows

5

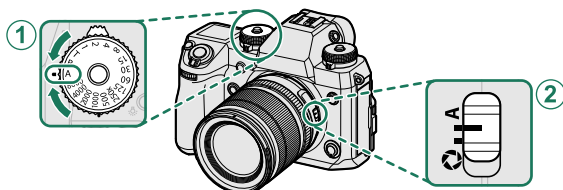
Taking Photographs

P, S, A, and M Modes

P, S, A, and M modes give you varying degrees of control over shutter speed and aperture.

Mode P: Program AE

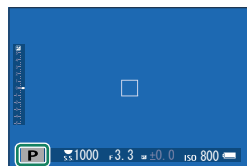
Let the camera choose shutter speed and aperture for optimal exposure. Other values that produce the same exposure can be selected with program shift.



Adjust settings as follows:

- 1 **Shutter speed:** A (auto)
- 2 **Aperture:** A (auto)

Confirm that **P** appears in the display.

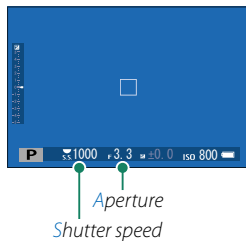


 If the subject is outside the metering range of the camera, the shutter speed and aperture displays will show “— — —”.

 To use the shutter speed dial, press the dial lock release and rotate the dial to the desired setting.

Program Shift

If desired, you can rotate the rear command dial to select other combinations of shutter speed and aperture without altering exposure (program shift).

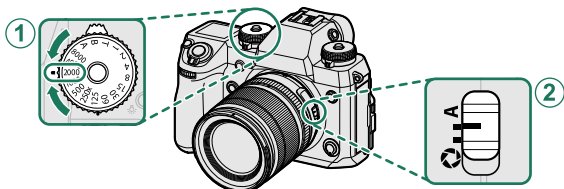


❗ Program shift is not available in [movie mode](#) or if the flash supports TTL auto or an auto option is selected for **IMAGE QUALITY SETTING > DYNAMIC RANGE**.

🔌 To cancel program shift, turn the camera off.

Mode S: Shutter-Priority AE

Choose a shutter speed and let the camera adjust aperture for optimal exposure.



Adjust settings as follows:

- 1 **Shutter speed:** Choose a shutter speed
- 2 **Aperture:** A (auto)

Confirm that **S** appears in the display.



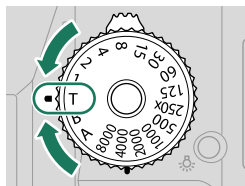
 If the correct exposure cannot be achieved at the selected shutter speed, aperture will be displayed in red. If the subject is outside the metering range of the camera, the aperture display will show “---”.

 To use the shutter speed dial, press the dial lock release and rotate the dial to the desired setting (the dial can be used even while the shutter button is pressed halfway). Shutter speed can also be adjusted in increments of $\frac{1}{3}$ EV by rotating the rear command dial.

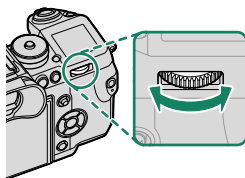
Time (T)

Rotate the shutter speed dial to T (time) to choose slow shutter speeds for long time-exposures. Use of a tripod is recommended to prevent the camera moving during the exposure.

- 1 Rotate the shutter speed dial to T.



- 2 Rotate the rear command dial to choose a shutter speed.



- 3 Press the shutter button all the way down to take a picture at the selected shutter speed. At speeds of 1 s or slower, a count-down timer will be displayed while the exposure is in progress.

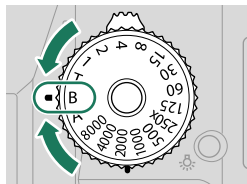


To reduce “noise” (mottling) in long time-exposures, select **ON** for **IMAGE QUALITY SETTING > LONG EXPOSURE NR.** Note that this may increase the time needed to record images after shooting.

Bulb (B)

Select a shutter speed of **B** (bulb) for long time-exposures in which you open and close the shutter manually. Use of a tripod is recommended to prevent the camera moving during the exposure.

- 1 Rotate the shutter speed dial to **B**.



- 2 Press the shutter button all the way down. The shutter will remain open for up to 60 minutes while the shutter button is pressed; the display shows the time elapsed since the exposure started.

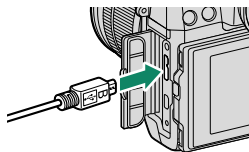


Selecting an aperture of **A** fixes shutter speed at 30 s.

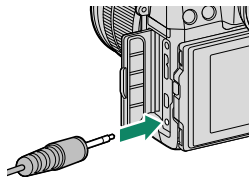
To reduce “noise” (mottling) in long time-exposures, select **ON** for **IMAGE QUALITY SETTING > LONG EXPOSURE NR.** Note that this may increase the time needed to record images after shooting.

Using a Remote Release

An optional RR-90 remote release can be used for long time-exposures. The RR-90 connects via the Micro USB (Micro-B) USB 2.0 connector.

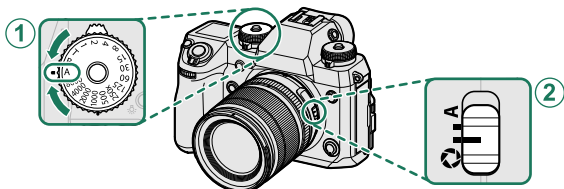


Alternatively, electronic releases from third-party suppliers can be connected via the remote release connector (ø2.5 mm 3-pole mini jack).



Mode A: Aperture-Priority AE

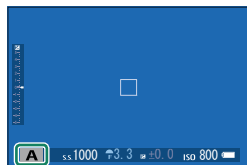
Choose an aperture and let the camera adjust shutter speed for optimal exposure.



Adjust settings as follows:

- 1 **Shutter speed:** A (auto)
- 2 **Aperture:** Select  and rotate the lens aperture ring to adjust aperture

Confirm that A appears in the display.



 If the correct exposure cannot be achieved at the selected aperture, shutter speed will be displayed in red. If the subject is outside the metering range of the camera, the shutter speed display will show “— —”.

 To use the shutter speed dial, press the dial lock release and rotate the dial to the desired setting.

Aperture can be adjusted even while the shutter button is pressed halfway.

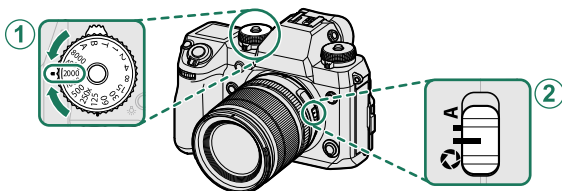
Previewing Depth of Field

When **PREVIEW DEPTH OF FIELD** is assigned to a function button, pressing the button displays a  icon and stops aperture down to the selected setting, allowing depth of field to be previewed in the display.



Mode M: Manual Exposure

Alter exposure from that selected by the camera.



Adjust settings as follows:

- ① **Shutter speed:** Choose a shutter speed
- ② **Aperture:** Select  and rotate the lens aperture ring to adjust aperture

Confirm that **M** appears in the display. The amount the picture would be under- or over-exposed at current settings is shown by the exposure indicator; adjust shutter speed and aperture until the desired exposure is reached.



 To use the shutter speed dial, press the dial lock release and rotate the dial to the desired setting. Shutter speed can be adjusted in increments of $\frac{1}{3}$ EV by rotating the rear command dial.

Exposure Preview

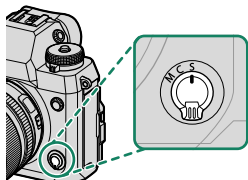
To preview exposure in the LCD monitor, select an option other than **OFF** for **SCREEN SET-UP > PREVIEW EXP./WB IN MANUAL MODE**. Select **OFF** when using the flash or on other occasions on which exposure may change when the picture is taken.



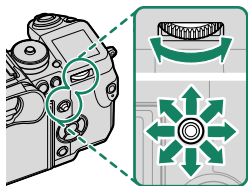
Autofocus

Take pictures using autofocus.

- 1 Rotate the focus mode selector to **S** or **C** (📖 65).



- 2 Use **AF/MF SETTING > AF MODE** to choose an AF mode (📖 67).
- 3 Choose the position and size of the focus frame (📖 69).



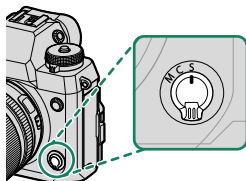
- 4 Take pictures.



For information on the autofocus system, visit:
<http://fujifilm-x.com/af/en/index.html>

Focus Mode

Use the focus mode selector to choose how the camera focuses.



Choose from the following options:

Mode	Description
S (AF-S)	Single AF: Focus locks while the shutter button is pressed halfway. Choose for stationary subjects.
C (AF-C)	Continuous AF: Focus is continually adjusted to reflect changes in the distance to the subject while the shutter button is pressed halfway. Use for subjects that are in motion. Eye-detection AF is not available.
M (manual)	Manual: Focus manually using the lens focus ring. Choose for manual control of focus or in situations in which the camera is unable to focus using autofocus (📖 73).

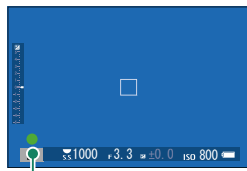


Regardless of the option selected, manual focus will be used when the lens is in manual focus mode.

If **ON** is selected for **AF/MF** **AF/MF SETTING** > **PRE-AF**, focus will be adjusted continuously in modes **S** and **C** even when the shutter button is not pressed.

The Focus Indicator

The focus indicator turns green when the subject is in focus and blinks white when the camera is unable to focus. Brackets (" [] ") indicate that the camera is focusing and are displayed continuously in mode **C**. **MF** is displayed in manual focus mode.



Focus indicator

Autofocus Options (AF Mode)

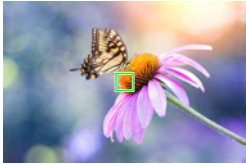
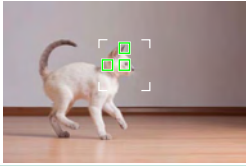
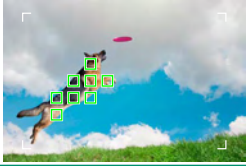
Choose how the camera focuses in modes **S** and **C**.

- 1 Press **MENU/OK** and go to the shooting menu.
- 2 Select **AF/MF SETTING > AF MODE**.
- 3 Choose an AF mode.

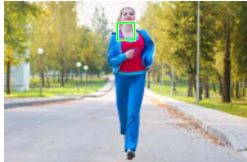
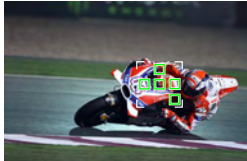
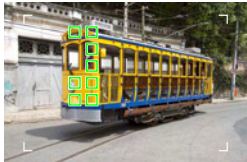
 This feature can also be accessed via shortcuts ( 212).

How the camera focuses depends on the focus mode.

Focus Mode **S** (AF-S)

Option	Description	Sample image
 SINGLE POINT	Camera focuses on subject in selected focus point. Use for pin-point focus on selected subject.	
 ZONE	Camera focuses on subject in selected focus zone. Focus zones include multiple focus points, making it easier to focus on subjects in motion.	
 WIDE	Camera focuses automatically on high-contrast subjects; display shows areas in focus.	
 ALL	Rotate the rear command dial in the focus-point selection display ( 69, 70) to cycle through AF modes in the following order:  SINGLE POINT ,  ZONE , and  WIDE .	

Focus Mode C (AF-C)

Option	Description	Sample image
 SINGLE POINT	Focus tracks subject at selected focus point. Use for subjects moving toward or away from camera.	
 ZONE	Focus tracks subject in selected focus zone. Use for subjects that are moving fairly predictably.	
 TRACKING	Focus tracks subjects moving through wide area of frame.	
 ALL	Rotate the rear command dial in the focus-point selection display (📖 69, 70) to cycle through AF modes in the following order:  SINGLE POINT ,  ZONE , and  TRACKING .	

Focus-Point Selection

Choose a focus point for autofocus.

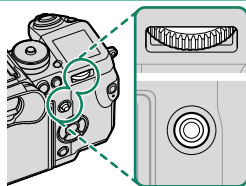
Viewing the Focus-Point Display

- 1 Press **MENU/OK** and go to the shooting menu.
- 2 Select **AF/MF SETTING > FOCUS AREA** to view the focus-point display.
- 3 Use the focus stick (focus lever) and rear command dial to choose a focus area.

 The focus point can also be selected using touch controls ( 21).

Selecting a Focus Point

Use the focus stick (focus lever) to choose the focus point and the rear command dial to choose the size of the focus frame. The procedure varies with the option selected for AF mode.



AF mode	Focus stick		Rear command dial	
	 Tilt	 Press	 Rotate	 Press
	Select focus point	Select center focus point	Choose from 6 frame sizes	Restore original size
			Choose from 3 frame sizes	
			—	



Manual focus-point selection is not available when **[] WIDE/TRACKING** is selected in focus mode **S**.

If **[ALL] ALL** is selected for AF mode, you can rotate the rear command dial in the focus-point selection display to cycle through AF modes in the following order: **[] SINGLE POINT** (6 frame sizes), **[] ZONE** (3 frame sizes), and either **[] WIDE** (focus mode **S**) or **[] TRACKING** (focus mode **C**).

The Focus-Point Display

The focus-point display varies with the option selected for AF mode.

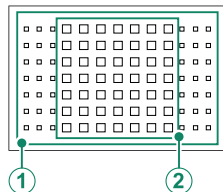


Focus frames are shown by small squares (**[]**), focus zones by the large squares.

AF mode		
[] SINGLE POINT	[] ZONE	[] WIDE/TRACKING
Number of points available can be selected using AF/MF SETTING > NUMBER OF FOCUS POINTS .	Choose from zones with 7×7 , 5×5 , or 3×3 focus points.	Position focus frame over subject and press MENU/OK .

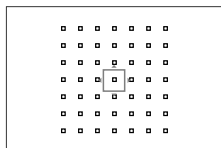
Available Focus Points

TTL contrast-detect AF offers more focus points (①) than intelligent hybrid AF (②), which combines phase-detection with TTL contrast-detect AF.

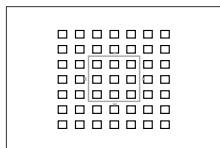


Burst Mode Focus-Frame Selection

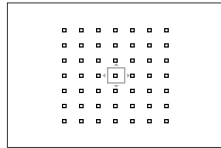
When continuous high-speed (CH) is selected for drive mode, the number of focus frames available in focus mode C drops.



Single point



Zone



Tracking

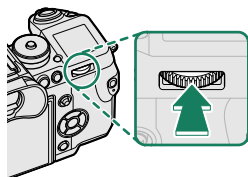
Autofocus

Although the camera boasts a high-precision autofocus system, it may be unable to focus on the subjects listed below.

- Very shiny subjects such as mirrors or car bodies.
- Subjects photographed through a window or other reflective object.
- Dark subjects and subjects that absorb rather than reflect light, such as hair or fur.
- Insustantial subjects, such as smoke or flame.
- Subjects that show little contrast with the background.
- Subjects positioned in front of or behind a high-contrast object that is also in the focus frame (for example, a subject photographed against a backdrop of highly contrasting elements).

Checking Focus

To zoom in on the current focus area for precise focus, press the center of the rear command dial. Use the focus stick (focus lever) to choose another focus area, or press the center of the rear command dial again to cancel zoom.



Normal display



Focus zoom



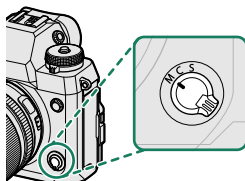
In focus mode **S**, zoom can be adjusted by rotating the rear command dial when **STANDARD** or **FOCUS PEAK HIGHLIGHT** is selected for **AF/MF SETTING > MF ASSIST** (📖 119). Focus zoom is not available in focus mode **C** or when **AF/MF SETTING > PRE-AF** is on or an option other than **SINGLE POINT** is selected for **AF MODE**.

Use **🔧 BUTTON/DIAL SETTING > FUNCTION (Fn) SETTING** to change the function performed by the center of the rear command dial or assign its default function to other controls (📖 218).

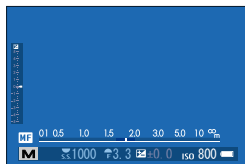
Manual Focus

Adjust focus manually.

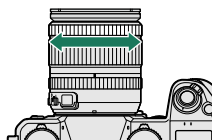
- 1 Rotate the focus mode selector to M.



MF will appear in the display.



- 2 Focus manually using the lens focus ring. Rotate the ring left to reduce the focus distance, right to increase.



- 3 Take pictures.

Use **FUNCTION/DIAL SETTING > FOCUS RING** to reverse the direction of rotation of the focus ring.

Regardless of the option selected, manual focus will be used when the lens is in manual focus mode.

Quick Focus

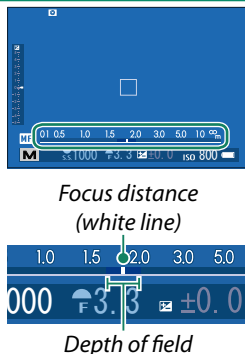
To use autofocus to focus on the subject in the selected focus area, press the button to which focus lock or **AF-ON** has been assigned (the size of the focus area can be chosen with the rear command dial). In manual focus mode, you can use this feature to quickly focus on a chosen subject using either single or continuous AF according to the option chosen for  **AF/MF SETTING > INSTANT AF SETTING**.

Checking Focus

A variety of options are available for checking focus in manual focus mode.

The Manual Focus Indicator

The manual focus indicator indicates how closely the focus distance matches the distance to the subject in the focus brackets. The white line indicates the distance to the subject in the focus area (in meters or feet according to the option selected for **SCREEN SET-UP > FOCUS SCALE UNITS** in the setup menu), the blue bar the depth of field, or in other words the distance in front of and behind the subject that appears to be in focus.



If both **AF DISTANCE INDICATOR** and **MF DISTANCE INDICATOR** are selected in the **SCREEN SET-UP > DISP. CUSTOM SETTING** list, the manual focus indicator can also be viewed using the depth-of-field indicator in the standard display. Use the **DISP/BACK** button to display standard indicators.

Use the **AF/MF SETTING > DEPTH-OF-FIELD SCALE** option to choose how depth of field is displayed. Choose **FILM FORMAT BASIS** to help you make practical assessments of depth of field for pictures that will be viewed as prints and the like, **PIXEL BASIS** to help you assess depth of field for pictures that will be viewed at high resolutions on computers or other electronic displays.

Focus Zoom

If **ON** is selected for **AF/MF SETTING > FOCUS CHECK**, the camera will automatically zoom in on the selected focus area when the focus ring is rotated. Use the focus stick (focus lever) to choose another focus area, or press the center of the rear command dial to exit zoom.

If **STANDARD** or **FOCUS PEAK HIGHLIGHT** is selected for **AF/MF SETTING > MF ASSIST**, zoom can be adjusted by rotating the rear command dial.

MF Assist

The **AF/MF SETTING > MF ASSIST** option can be used to check focus when pictures are framed in the LCD monitor or electronic viewfinder in manual focus mode.

The **MF ASSIST** menu can be displayed by pressing and holding the center of the rear command dial.

The following options are available:

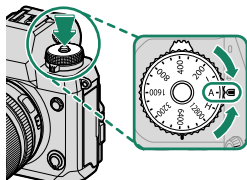
- **FOCUS PEAK HIGHLIGHT:** Highlights high-contrast outlines. Rotate the focus ring until the subject is highlighted.
- **DIGITAL SPLIT IMAGE:** Displays a split image in the center of the frame. Frame the subject in the split-image area and rotate the focus ring until the four parts of the split image are correctly aligned.



ISO Sensitivity

Adjust the camera's sensitivity to light.

Press the sensitivity dial lock release, rotate the dial to the desired setting, and press the release again to lock the dial in place.



Option	Description
A (auto)	Sensitivity is automatically adjusted in response to shooting conditions according to option chosen for SHOOTING SETTING > ISO AUTO SETTING . Choose from AUTO1 , AUTO2 , and AUTO3 .
12800–200	Adjust sensitivity manually. Selected value is shown in display.
H (25600/51200), L (100/125/160)	Choose for special situations. Note that mottling may appear in pictures taken at H , while L reduces dynamic range.

Use **FUNCTION/DIAL SETTING > ISO DIAL SETTING (H)** to choose the sensitivity assigned to the **H** position.

Use **FUNCTION/DIAL SETTING > ISO DIAL SETTING (L)** to choose the sensitivity assigned to the **L** position.

If **COMMAND** is selected for **FUNCTION/DIAL SETTING > ISO DIAL SETTING (A)**, sensitivity can also be adjusted by setting sensitivity to **A** and rotating the front command dial.

Adjusting Sensitivity

High values can be used to reduce blur when lighting is poor, while lower values allow slower shutter speeds or wider apertures in bright light; note, however, that mottling may appear in pictures taken at high sensitivities.

Auto Sensitivity (A)

Use **SHOOTING SETTING > ISO AUTO SETTING** to choose the base sensitivity, maximum sensitivity, and minimum shutter speed for the **A** position on the sensitivity dial. Settings for **AUTO1**, **AUTO2**, and **AUTO3** can be stored separately; the defaults are shown below.

Item	Options	Default		
		AUTO1	AUTO2	AUTO3
DEFAULT SENSITIVITY	12800–200		200	
MAX. SENSITIVITY	12800–400	800	1600	3200
MIN. SHUTTER SPEED	1/500–1/4 SEC, AUTO		AUTO	

The camera automatically chooses a sensitivity between the default and maximum values; sensitivity is only raised above the default value if the shutter speed required for optimal exposure would be slower than the value selected for **MIN. SHUTTER SPEED**.



If the value selected for **DEFAULT SENSITIVITY** is higher than that selected for **MAX. SENSITIVITY**, **DEFAULT SENSITIVITY** will be set to the value selected for **MAX. SENSITIVITY**.

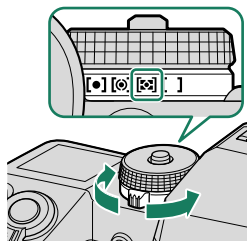
The camera may select shutter speeds slower than **MIN. SHUTTER SPEED** if pictures would still be underexposed at the value selected for **MAX. SENSITIVITY**. If **AUTO** is selected for **MIN. SHUTTER SPEED**, the camera will automatically choose a minimum shutter speed approximately equal to the inverse of the lens' focal length, in seconds (for example, if the lens has a focal length of 50 mm, the camera will choose a minimum shutter speed in the neighborhood of 1/50 s). The minimum shutter speed is not affected by the option selected for image stabilization.



Metering

Choose how the camera meters exposure.

Rotate the metering dial to select from the options below.



! The selected option will only take effect when **AF/MF SETTING** > **FACE/EYE DETECTION SETTING** is **FACE OFF/EYE OFF**.

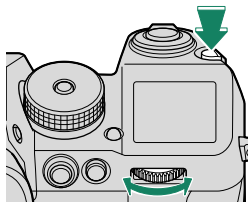
Mode	Description
[•] (spot)	The camera meters lighting conditions in an area at the center of the frame equivalent to 2% of the total. Recommended with backlit subjects and in other cases in which the background is much brighter or darker than the main subject.
[⊙] (center-weighted)	The camera meters the entire frame but assigns the greatest weight to the area at the center.
[⊞] (multi)	The camera instantly determines exposure based on an analysis of composition, color, and brightness distribution. Recommended in most situations.
[] (average)	Exposure is set to the average for the entire frame. Provides consistent exposure across multiple shots with the same lighting, and is particularly effective for landscapes and portraits of subjects dressed in black or white.



Exposure Compensation

Adjust exposure.

Hold the  button and rotate the rear command dial until the desired value is displayed in the viewfinder or LCD monitor.



The amount of compensation available varies with the shooting **mode**. Exposure compensation can be previewed in the shooting display, although the display may not accurately reflect its effects if:

- the exposure compensation amount exceeds ± 3 EV,
- **200** 200% or **400** 400% is selected for **DYNAMIC RANGE**, or
- **STRONG** or **WEAK** is selected for **D RANGE PRIORITY**.

Exposure compensation can still be previewed in the viewfinder or LCD monitor by pressing the shutter button halfway.

In movie mode, the display may not accurately reflect the effects of exposure compensation when **200** 200% or **400** 400% is selected for **DYNAMIC RANGE (MOVIE)** or **ON** is selected for **F-Log RECORDING**. An accurate preview can be obtained by selecting mode **M** and adjusting exposure directly.

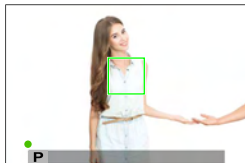
The Button

If **ON/OFF SWITCH** is selected for ** BUTTON/DIAL SETTING > EXPO. COMP. BUTTON SETTING**, exposure compensation can be set by pressing the  button once, rotating the rear command dial, and then pressing the  button again. Exposure compensation can be assigned to other controls using ** BUTTON/DIAL SETTING > FUNCTION (Fn) SETTING**.

Focus/Exposure Lock

Compose photographs with off-center subjects.

- 1 Focus:** Position the subject in the focus frame and press the shutter button halfway to lock focus and exposure. Focus and exposure will remain locked while the shutter button is pressed halfway (AF/AE lock).



- 2 Recompose:** Keep the shutter button pressed halfway.



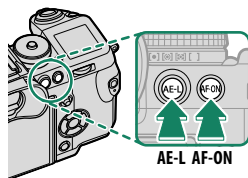
- 3 Shoot:** Press the button all the way down.



Focus lock using the shutter button is only available when **ON** is selected for **AF-ON** **BUTTON/DIAL SETTING > SHUTTER AF, SHUTTER AE**.

Other Controls

At default settings, you can use the **AE-L** button to lock exposure without locking focus. If the **AF-ON** button is assigned **AF LOCK ONLY** (📖 194, 216), it can similarly be used to lock focus without locking exposure.

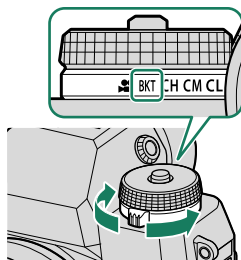


The controls used for **AE LOCK ONLY**, **AF LOCK ONLY**, and **AE/AF LOCK** can be chosen using **🔑 BUTTON/DIAL SETTING > FUNCTION (Fn) SETTING** (📖 194, 216). While the assigned control is pressed, pressing the shutter button halfway will not end the lock. If **AE&AF ON/OFF SWITCH** is selected for **🔑 BUTTON/DIAL SETTING > AE/AF-LOCK MODE**, the lock can only be ended by pressing the control a second time.

BKT Bracketing

Automatically vary settings over a series of pictures.

- 1 Rotate the drive dial to BKT.



- 2 Navigate to **DRIVE SETTING > BKT SETTING** in the **SHOOTING SETTING** menu and select **AE BKT**, **ISO BKT**, **FILM SIMULATION BKT**, **WHITE BALANCE BKT**, or **DYNAMIC RANGE BKT**.

 This feature can also be accessed via shortcuts (212).

- 3 Take photographs.

AE BKT

Use **SHOOTING SETTING > DRIVE SETTING > BKT SETTING > AE BKT** to choose the number of shots in the bracketing sequence, the amount exposure is varied with each shot, the order in which the shots are taken, and whether the shots are taken one at a time or in a single burst.

 Regardless of the bracketing amount, exposure will not exceed the limits of the exposure metering system.

ISO ISO BKT

Select a bracketing amount ($\pm\frac{1}{3}$, $\pm\frac{2}{3}$, or ± 1). Each time the shutter is released, the camera will take a picture at the current sensitivity and process it to create two additional copies, one with sensitivity raised and the other with sensitivity lowered by the selected amount.

FILM SIMULATION BKT

Each time the shutter is released, the camera takes one shot and processes it to create copies with different film simulation [settings](#).

WB WHITE BALANCE BKT

Select a bracketing amount (± 1 , ± 2 , or ± 3). Each time the shutter is released, the camera takes one shot and processes it to create three copies: one at the current white balanced setting, one with fine-tuning increased by the selected amount, and another with fine-tuning decreased by the selected amount.

DR DYNAMIC RANGE BKT

Each time the shutter button is pressed, the camera takes three shots with different dynamic ranges: 100% for the first, 200% for the second, and 400% for the third.



While dynamic range bracketing is in effect, sensitivity will be restricted to a minimum of ISO 800 (or to a minimum of ISO 200 to 800 when an auto option is selected for sensitivity); the sensitivity previously in effect is restored when bracketing ends.

BKT SETTING

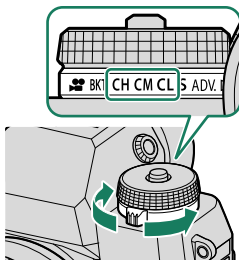
Settings for exposure, sensitivity, film simulation, and white balance bracketing can be adjusted using [SHOOTING SETTING > DRIVE SETTING > BKT SETTING](#).



Continuous Shooting (Burst Mode)

Capture motion in a series of pictures.

- 1 Rotate the drive dial to select the overall frame advance rate from **CH** (high), **CM** (medium), and **CL** (low). In **CH** and **CL** modes, the camera takes pictures at the rate selected in **SHOOTING SETTING > DRIVE SETTING**, while in **CM** mode the camera shoots at about 6 fps.



 This feature can also be accessed via shortcuts (📖 212).

- 2 Take photographs. The camera will take pictures while the shutter button is pressed; shooting ends when the shutter button is released or the memory card is full.



If file numbering reaches 999 before shooting is complete, the remaining pictures will be recorded to a new folder.

Burst shooting may not begin if the space available on the memory card is insufficient.

Frame rate varies with the subject, shutter speed, sensitivity, and focus mode. Frame rates may slow and recording times increase as more shots are taken. The flash may or may not fire, depending on shooting conditions.

Focus and Exposure

Select focus mode **C** to vary focus with shot; to vary exposure with each shot, select **OFF** for  **BUTTON/DIAL SETTING > SHUTTER AE**.



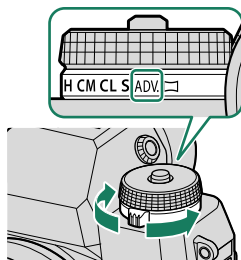
Selecting **CH** in focus mode **C** restricts the choice of focus frames.

Exposure and focus tracking performance may vary with such factors as aperture, sensitivity, and exposure compensation.

ADV. **Advanced Filters**

Take photos with filter effects.

- 1 Rotate the drive dial to **ADV.**



- 2 Navigate to **DRIVE SETTING > ADV. FILTER SETTING** in the **SHOOTING SETTING** menu and choose a filter effect.

 This feature can also be accessed via shortcuts ( 212).

- 3 Take photographs.

Advanced Filter Options

Choose from the following filters:

Filter	Description
 TOY CAMERA	Choose for a retro toy camera effect.
 MINIATURE	The tops and bottoms of pictures are blurred for a diorama effect.
 POP COLOR	Create high-contrast images with saturated colors.
 HIGH-KEY	Create bright, low-contrast images.
 LOW-KEY	Create uniformly dark tones with few areas of emphasized highlights.
 DYNAMIC TONE	Dynamic tone expression is used for a fantasy effect.
 SOFT FOCUS	Create a look that is evenly soft throughout the whole image.
 PARTIAL COLOR (RED)	Areas of the image that are the selected color are recorded in that color. All other areas of the image are recorded in black-and-white.
 PARTIAL COLOR (ORANGE)	
 PARTIAL COLOR (YELLOW)	
 PARTIAL COLOR (GREEN)	
 PARTIAL COLOR (BLUE)	
 PARTIAL COLOR (PURPLE)	



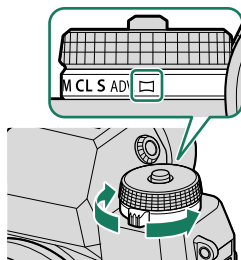
Depending on the subject and camera settings, images may in some cases be grainy or vary in brightness or hue.



Panoramas

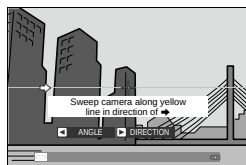
Follow an on-screen guide to create a panorama.

- 1 Rotate the drive dial to



- 2 To select the size of the angle through which you will pan the camera while shooting, press the selector left. Highlight a size and press **MENU/OK**.
- 3 Press the selector right to view a choice of pan directions. Highlight a pan direction and press **MENU/OK**.
- 4 Press the shutter button all the way down to start recording. There is no need to keep the shutter button pressed during recording.

- 5 Pan the camera in the direction shown by the arrow. Shooting ends automatically when the camera is panned to the end of the guides and the panorama is complete.



For Best Results

For best results, use a lens with a focal length of 35 mm or less (50 mm or less in 35 mm format). Prop your elbows against your sides and move the camera slowly in a small circle at a steady speed, keeping the camera parallel or at right angles to the horizon and being careful only to pan in the direction shown by the guides. Use a tripod for best results. If the desired results are not achieved, try panning at a different speed.



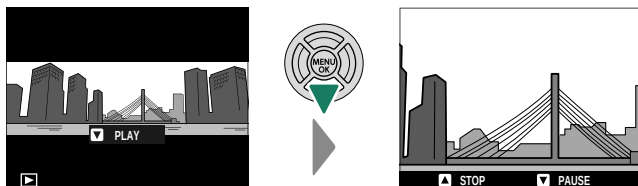
If the shutter button is pressed all the way down before the panorama is complete, shooting will end and no panorama may be recorded. Shooting may also be interrupted if the camera is panned too quickly or too slowly. Panning the camera in a direction other than that shown cancels shooting.

Panoramas are created from multiple frames; if **ON** is selected for **⚙️ BUTTON/DIAL SETTING > SHUTTER AE**, exposure for the entire panorama is determined by the first frame. The camera may in some cases record an greater or lesser angle than selected or be unable to stitch the frames together perfectly. The last part of the panorama may not be recorded if shooting ends before the panorama is complete.

The desired results may not be achieved with moving subjects, subjects close to the camera, unvarying subjects such as the sky or a field of grass, subjects that are in constant motion, such as waves and waterfalls, or subjects that undergo marked changes in brightness. Panoramas may be blurred if the subject is poorly lit.

Viewing Panoramas

In full-frame playback, you can use the rear command dial to zoom panoramas in or out. Alternatively, you can play the panorama back using the selector.

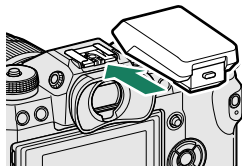


Press the selector down to start playback and press again to pause. Press the selector left or right to choose the pan direction while playback is in progress or to scroll the panorama manually while playback is paused; vertical panoramas will scroll vertically, horizontal panoramas horizontally. To exit to full-frame playback, press the selector up. To view other images, exit to full-frame playback and press the selector left or right.

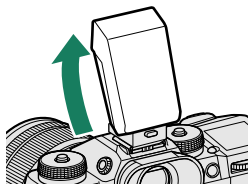
Flash Photography

Use the supplied EF-X8 shoe-mounted flash unit for additional lighting at night or indoors under low light.

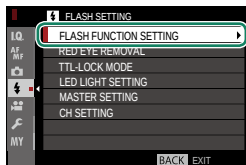
- 1 Remove the hot shoe cover and slide the flash onto the hot shoe as shown, stopping when it clicks into place.



- 2 Raise the flash.



- 3 Select **FLASH FUNCTION SETTING** in the **FLASH SETTING** menu.



 If the flash is not raised, settings will be adjusted for units connected via the sync terminal (227).

 This feature can also be accessed via shortcuts (212).

- 4 Highlight items using the selector and rotate the rear command dial to change the highlighted setting (94).



5 Press **DISP/BACK** to put the changes into effect.

 Depending on the distance to the subject, some lenses may cast shadows in photos taken with the flash.

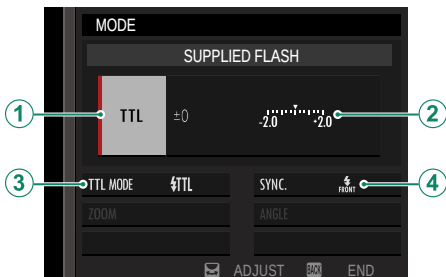
The flash will not fire at some settings, for example in panorama mode or when the electronic shutter is used.

Choose shutter speeds slower than **250X** when using the flash in exposure mode **S** (shutter-priority AE) or manual (**M**).

 In TTL mode, the flash may fire several times with each shot. Do not move the camera until shooting is complete.

Flash Settings

The following settings are available when the supplied EF-X8 shoe-mounted flash unit is attached.



Setting	Description
① Flash control mode	Choose from the following options: • TTL: TTL mode. Adjust flash compensation (②) and choose a flash mode (③). • M: The flash fires at the selected output (②) regardless of subject brightness or camera settings. Output is expressed in fractions of full power, from $\frac{1}{4}$ to $\frac{1}{64}$. The desired results may not be achieved at low values if they exceed the limits of the flash control system; take a test shot and check the results. • COMMANDER: Choose if the flash is being used to control remote synced flash units, for example as part of a studio flash system. • OFF (OFF): The EF-X8 does not fire. Flash units connected via the sync terminal will still fire when the shutter is released, but can be disabled by lowering the EF-X8 and turning the units off in the flash settings menu.

Setting	Description
② Flash compensation/output	Adjust flash level. The options available vary with the flash control mode (①).
③ Flash mode (TTL)	Choose a flash mode for TTL flash control. The options available vary with the shooting mode (P, S, A, or M) selected. •  (FLASH AUTO): The flash fires only as required; flash level is adjusted according to subject brightness. A  icon displayed when the shutter button is pressed halfway indicates that the flash will fire when the photo is taken. •  (STANDARD): The flash fires with every shot if possible; flash level is adjusted according to subject brightness. The flash will not fire if not fully charged when the shutter is released. •  (SLOW SYNC.): Combine the flash with slow shutter speeds when photographing portrait subjects against a backdrop of night scenery. The flash will not fire if not fully charged when the shutter is released.
④ Sync	Choose whether the flash is timed to fire immediately after the shutter opens ( /FRONT/ 1ST CURTAIN) or immediately before it closes ( /REAR/ 2ND CURTAIN). 1ST CURTAIN is recommended in most circumstances.

Red-Eye Removal

Red-eye removal is available when an option other than **OFF** is selected for **[] FLASH SETTING > RED EYE REMOVAL** and **[] AF/MF SETTING > FACE/EYE DETECTION SETTING** is **ON**. Red-eye removal minimizes “red-eye” caused when light from the flash is reflected from the subject’s retinas.

Flash Sync Speed

The flash will synchronize with the shutter at shutter speeds of $\frac{1}{250}$ s or slower.

Optional Flash Units from FUJIFILM

The camera can be used with optional FUJIFILM shoe-mounted flash units.

Third-Party Flash Units

Do not use third-party flash units that apply over 300 V to the camera hot shoe.

6

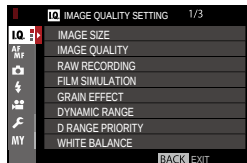
The Shooting Menus



IMAGE QUALITY SETTING

Adjust image quality settings.

To display image quality settings, press **MENU/OK** in the shooting display and select the **IQ** (IMAGE QUALITY SETTING) tab.



The options available vary with the shooting mode selected.

IMAGE SIZE

Choose the size and aspect ratio at which still pictures are recorded.

Option	Image size	Option	Image size	Option	Image size
L 3:2	6000 × 4000	L 16:9	6000 × 3376	L 1:1	4000 × 4000
M 3:2	4240 × 2832	M 16:9	4240 × 2384	M 1:1	2832 × 2832
S 3:2	3008 × 2000	S 16:9	3008 × 1688	S 1:1	2000 × 2000



IMAGE SIZE is not reset when the camera is turned off or another shooting mode is selected.

Aspect Ratio

Pictures with an aspect ratio of 3:2 have the same proportions as a frame of 35 mm film, while an aspect ratio of 16:9 is suited to display on **High Definition** (HD) devices. Pictures with an aspect ratio of 1:1 are square.

IMAGE QUALITY

Choose a file format and compression ratio. Select **FINE** or **NORMAL** to record JPEG images, **RAW** to record RAW images, or **FINE+RAW** or **NORMAL+RAW** to record both JPEG and RAW images. **FINE** and **FINE+RAW** use lower JPEG compression ratios for higher-quality JPEG images, while **NORMAL** and **NORMAL+RAW** use higher JPEG compression ratios to increase the number of images that can be stored.

The Function Buttons

To toggle RAW image quality on or off for a single shot, assign **RAW** to a function button (📖 218). If a JPEG option is currently selected for image quality, pressing the button temporarily selects the equivalent JPEG+RAW option. If a JPEG+RAW option is currently selected, pressing the button temporarily selects the equivalent JPEG option, while if **RAW** is selected, pressing the button temporarily selects **FINE**. Taking a picture or pressing the button again restores the previous setting.

RAW RECORDING

Choose whether to compress RAW images.

Option	Description
UNCOMPRESSED	RAW images are not compressed.
LOSSLESS COMPRESSED	RAW images are compressed using a reversible algorithm that reduces file size with no loss of image data. The images can be viewed in RAW FILE CONVERTER EX 2.0 (📖 258), FUJIFILM X RAW STUDIO (📖 259), or other software that supports “lossless” RAW compression.

FILM SIMULATION

Simulate the effects of different kinds of film, including black-and-white (with or without color filters). Choose a palette according to your subject and creative intent.

Option	Description
 PROVIA/STANDARD	Standard color reproduction. Suited to a wide range of subjects, from portraits to landscapes.
 Velvia/VIVID	A high-contrast palette of saturated colors, suited to nature photos.
 ASTIA/SOFT	Enhances the range of hues available for skin tones in portraits while preserving the bright blues of daylight skies. Recommended for outdoor portrait photography.
 CLASSIC CHROME	Soft color and enhanced shadow contrast for a calm look.
 PRO Neg. Hi	Offers slightly more contrast than  PRO Neg. Std. Recommended for outdoor portrait photography.
 PRO Neg. Std	A soft-toned palette. The range of hues available for skin tones is enhanced, making this a good choice for studio portrait photography.
 ETERNA/CINEMA	Film movies using a palette that features subdued colors and deep shadows.
 ACROS*	Take black-and-white photos with rich gradation and outstanding sharpness.
 MONOCHROME*	Take pictures in standard black and white.
 SEPIA	Take pictures in sepia.

* Available with yellow (**Ye**), red (**R**), and green (**G**) filters, which deepen shades of gray corresponding to hues complementary to the selected color. The yellow (**Ye**) filter deepens purples and blues and the red (**R**) filter blues and greens. The green (**G**) filter deepens reds and browns, including skin tones, making it a good choice for portraits.

 Film simulation options can be combined with tone and sharpness settings.

Film simulation settings can also be accessed via shortcuts ( 212).

For more information, visit: <http://fujifilm-x.com/en/x-stories/the-world-of-film-simulation-episode-1/>

GRAIN EFFECT

Add a film grain effect. Select an amount (**STRONG** or **WEAK**) or choose **OFF** to turn film grain off.

Options		
STRONG	WEAK	OFF

DYNAMIC RANGE

Control contrast. Choose lower values to increase contrast when shooting indoors or under overcast skies, higher values to reduce loss of detail in highlights when photographing high-contrast scenes. Higher values are recommended for scenes that include both sunlight and deep shade, for such high-contrast subjects as sunlight on water, brightly-lit autumn leaves, and portraits taken against a blue sky, and for white objects or people wearing white; note, however, that mottling may appear in pictures taken at higher values.

Options			
AUTO	P100 100%	P200 200%	P400 400%



If **AUTO** is selected, the camera will automatically choose either **P100 100%** or **P200 200%** according to the subject and shooting conditions. Shutter speed and aperture will be displayed when the shutter button is pressed halfway.

P200 200% is available at sensitivities of from ISO 400 to ISO 12800, **P400 400%** at sensitivities of from ISO 800 to 12800.

D RANGE PRIORITY

Reduce loss of detail in highlights and shadows for natural-looking results when photographing high-contrast scenes.

Option	Description
AUTO	Contrast is adjusted automatically in response to lighting conditions.
STRONG	Adjust dynamic range by a large amount for very high-contrast scenes.
WEAK	Adjust dynamic range by a smaller amount for moderately high-contrast scenes.
OFF	Contrast reduction off.



WEAK is available at sensitivities of from ISO 400 to ISO 12800, **STRONG** at sensitivities of from ISO 800 to 12800. When an option other than **OFF** is selected, **HIGHLIGHT TONE**, **SHADOW TONE**, and **DYNAMIC RANGE** will be adjusted automatically; if you wish to adjust these settings manually, choose **OFF**.

WHITE BALANCE

For natural colors, choose a white balance option that matches the light source.

Option	Description
AUTO	White balance is adjusted automatically.
 W1/W2/W3	Measure a value for white balance.
 K	Choose a color temperature.
	For subjects in direct sunlight.
	For subjects in the shade.
	Use under "daylight" fluorescent lights.
	Use under "warm white" fluorescent lights.
	Use under "cool white" fluorescent lights.
	Use under incandescent lighting.
	Reduces the blue cast typically associated with underwater lighting.

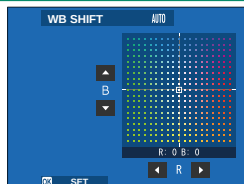
 Results vary with shooting conditions. Play pictures back after shooting to check colors.

White balance is adjusted for flash lighting only in **AUTO** and  modes. Turn the flash off using other white balance options.

White balance options can also be accessed via shortcuts ( 212).

Fine-Tuning White Balance

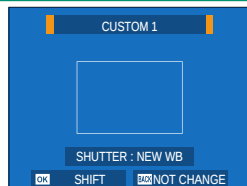
Pressing **MENU/OK** after selecting a white balance option displays the dialog shown at right; use the selector to fine-tune white balance or press **DISP/BACK** to exit without fine-tuning.



Custom White Balance

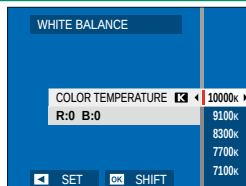
Choose $\mathcal{Q}_1$, $\mathcal{Q}_2$, or $\mathcal{Q}_3$ to adjust white balance for unusual lighting conditions. White balance measurement options will be displayed; frame a white object so that it fills the display and press the shutter button all the way down to measure white balance (to select the most recent custom value and exit without measuring white balance, press **DISP/BACK**, or press **MENU/OK** to select the most recent value and display the fine-tuning dialog).

- If **"COMPLETED!"** is displayed, press **MENU/OK** to set white balance to the measured value.
- If **"UNDER"** is displayed, raise exposure compensation and try again.
- If **"OVER"** is displayed, lower exposure compensation and try again.



K: Color Temperature

Selecting **K** in the white balance menu displays a list of color temperatures; highlight a color temperature and press **MENU/OK** to select the highlighted option and display the fine-tuning dialog.



Color Temperature

Color temperature is an objective measure of the color of a light source, expressed in Kelvin (K). Light sources with a color temperature close to that of direct sunlight appear white; light sources with a lower color temperature have a yellow or red cast, while those with a higher color temperature are tinged with blue. You can match color temperature to the light source, or choose options that differ sharply from the color of the light source to make pictures “warmer” or “colder.”

HIGHLIGHT TONE

Adjust the appearance of highlights. Choose from seven options between +4 and -2.

Options						
+4	+3	+2	+1	0	-1	-2

SHADOW TONE

Adjust the appearance of shadows. Choose from seven options between +4 and -2.

Options						
+4	+3	+2	+1	0	-1	-2

COLOR

Adjust color density. Choose from nine options between +4 and -4.

Options								
+4	+3	+2	+1	0	-1	-2	-3	-4

SHARPNESS

Sharpen or soften outlines. Choose from nine options between +4 and -4.

Options								
+4	+3	+2	+1	0	-1	-2	-3	-4

NOISE REDUCTION

Reduce noise in pictures taken at high sensitivities. Choose from nine options between +4 and -4.

Options								
+4	+3	+2	+1	0	-1	-2	-3	-4

LONG EXPOSURE NR

Select **ON** to reduce mottling in long time-exposures.

Options	
ON	OFF

LENS MODULATION OPTIMIZER

Select **ON** to improve definition by adjusting for diffraction and the slight loss of focus at the periphery of the lens.

Options	
ON	OFF

COLOR SPACE

Choose the gamut of colors available for color reproduction.

Option	Description
sRGB	Recommended in most situations.
Adobe RGB	For commercial printing.

PIXEL MAPPING

Use this option if you notice bright spots in your pictures.

- 1 Press **MENU/OK** in the shooting display and select the  **IMAGE QUALITY SETTING** tab.
- 2 Highlight **PIXEL MAPPING** and press **MENU/OK** to perform pixel mapping. Processing may take a few seconds.

 Results are not guaranteed.

Be sure the battery is fully charged before beginning pixel mapping.

Pixel mapping is not available when the camera temperature is elevated.

SELECT CUSTOM SETTING

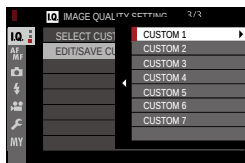
Recall settings saved with **EDIT/SAVE CUSTOM SETTING**. Settings can be recalled from any of the seven custom settings banks.

Banks						
CUSTOM 1	CUSTOM 2	CUSTOM 3	CUSTOM 4			
CUSTOM 5		CUSTOM 6	CUSTOM 7			

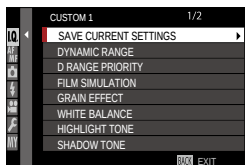
EDIT/SAVE CUSTOM SETTING

Save up to 7 sets of custom camera settings for commonly-encountered situations. Saved settings can be recalled using **IQ IMAGE QUALITY SETTING > SELECT CUSTOM SETTING**.

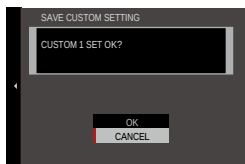
- 1 Press **MENU/OK** in shooting mode to display the shooting menu. Select the **IQ IMAGE QUALITY SETTING** tab, then highlight **EDIT/SAVE CUSTOM SETTING** and press **MENU/OK**.
- 2 Highlight a custom settings bank and press **MENU/OK** to select.



- 3 Adjust the following as desired:
 - **DYNAMIC RANGE**
 - **D RANGE PRIORITY**
 - **FILM SIMULATION**
 - **GRAIN EFFECT**
 - **WHITE BALANCE**
 - **HIGHLIGHT TONE**
 - **SHADOW TONE**
 - **COLOR**
 - **SHARPNESS**
 - **NOISE REDUCTION**



- 4 Press **DISP/BACK**. A confirmation dialog will be displayed; highlight **OK** and press **MENU/OK**.



To store current camera settings in the selected bank, highlight **SAVE CURRENT SETTINGS** in Step 3 and press **MENU/OK**. Banks can be re-named using **EDIT CUSTOM NAME**.

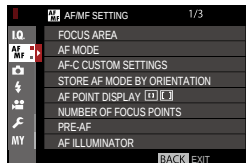
To restore default settings for the current bank, select **RESET**.



AF/MF SETTING

Adjust focus settings.

To display focus settings, press **MENU/OK** in the shooting display and select the **AF** **MF** **AF/MF SETTING** tab.



The options available vary with the shooting mode selected.

FOCUS AREA

Choose the focus area for autofocus, manual focus, and focus zoom.

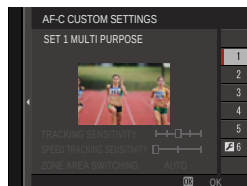
AF MODE

Choose the AF mode for focus modes **S** and **C**.

Option	Description
 SINGLE POINT	The camera focuses on the subject in the selected focus point. The number of focus points available can be selected using  AF/MF SETTING > NUMBER OF FOCUS POINTS . Use for pin-point focus on a selected subject.
 ZONE	The camera focuses on the subject in the selected focus zone. Focus zones include multiple focus points, making it easier to focus on subjects that are in motion.
 WIDE/TRACKING	In focus mode C , the camera tracks focus on the subject in the selected focus point while the shutter button is pressed halfway. In focus mode S , the camera automatically focuses on high-contrast subjects; the areas in focus are shown in the display. The camera may be unable to focus on small objects or subjects that are moving rapidly.
 ALL	Rotate the rear command dial in the focus-point selection display (📖 69, 70) to cycle through AF modes in the following order:  SINGLE POINT ,  ZONE , and  WIDE/TRACKING .

AF-C CUSTOM SETTINGS

Select focus-tracking options for focus mode C. Choose from Sets 1–5 according to your subject or select Set 6 for custom focus-tracking options.



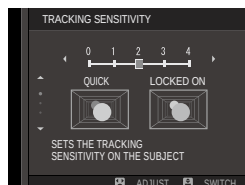
Option	Description
SET 1 MULTI PURPOSE	A standard tracking option that works well with the typical range of moving subjects.
SET 2 IGNORE OBSTACLES & CONTINUE TO TRACK SUBJECT	The focus system attempts to track the chosen subject. Choose with subjects that are hard to keep in the focus area or if other objects are likely to enter the focus area with the subject.
SET 3 FOR ACCELERATING/ DECELERATING SUBJECT	The focus system attempts to compensate for subject acceleration or deceleration. Choose for subjects prone to rapid changes in velocity.
SET 4 FOR SUDDENLY APPEARING SUBJECT	The focus system attempts to focus quickly on subjects entering the focus area. Choose for subjects that appear abruptly or when rapidly switching subjects.
SET 5 FOR ERRATICALLY MOVING & ACCEL./DECEL. SUBJECT	Choose for hard-to-track subjects prone not only to sudden changes in velocity but also to large movements front to back and left to right.
SET 6 CUSTOM	Adjust TRACKING SENSITIVITY , SPEED TRACKING SENSITIVITY , and ZONE AREA SWITCHING to suit your preferences based on the values for Sets 1–5 (📖 113, 115).

Focus Tracking Options

The individual parameters that are part of a focus tracking set are described below.

TRACKING SENSITIVITY

This parameter determines how long the camera waits to switch focus when an object enters the focus area behind or in front of the current subject. The higher the value, the longer the camera will wait.

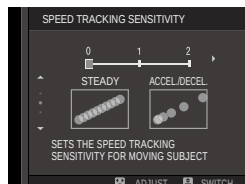


Options				
0	1	2	3	4

❗ The higher the value, the longer it takes the camera to refocus when you attempt to switch subjects. The lower the value, the more likely the camera is to switch focus from your subject to other objects in the focus area.

SPEED TRACKING SENSITIVITY

This parameter determines how sensitive the tracking system is to changes in subject velocity. The higher the value, the greater the precision with which the system attempts to respond to sudden movement.

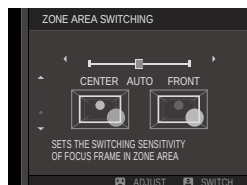


Options		
0	1	2

❗ The higher the value, the more difficulty the camera will have focusing in situations in which autofocus does not perform well, such as when the subject is highly reflective or low in contrast.

ZONE AREA SWITCHING

This parameter determines the focus area given priority in zone AF.



Option	Description
CENTER	Zone AF assigns priority to subjects in the center of the zone.
AUTO	The camera locks focus on the subject at the center of the zone and then switches focus areas as necessary to track it.
FRONT	Zone AF assigns priority to the subjects closest to the camera.

This option takes effect only when **ZONE** is selected for AF mode.

Set Values

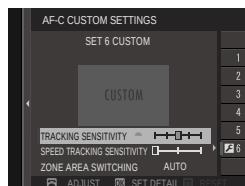
Parameter values for the different sets are listed below.

	TRACKING SENSITIVITY	SPEED TRACKING SENSITIVITY	ZONE AREA SWITCHING
SET 1	2	0	AUTO
SET 2	3	0	CENTER
SET 3	2	2	AUTO
SET 4	0	1	FRONT
SET 5	3	2	AUTO

Custom Focus Tracking Options

Follow the steps below to adjust settings for Set 6.

- 1 Select **AF-C CUSTOM SETTINGS > SET 6 CUSTOM**.



- 2 Press the selector up or down to highlight items and rotate the front command dial to change. To reset settings to their original values, press .
- 3 Press **DISP/BACK** when settings are complete.

STORE AF MODE BY ORIENTATION

Choose whether the focus mode and focus area used when the camera is in portrait orientation are stored separately from those used when the camera is in landscape orientation.

Option	Description
OFF	The same settings are used in both orientations.
FOCUS AREA ONLY	The focus area for each orientation can be selected separately.
ON	The focus mode and focus area can be selected separately.

F POINT DISPLAY

Choose whether individual focus frames are displayed when **ZONE** or **WIDE/TRACKING** is selected for **AF/MF SETTING > AF MODE**.

Options	
ON	OFF

NUMBER OF FOCUS POINTS

Choose the number of focus points available for focus-point selection in manual focus mode or when **SINGLE POINT** is selected for **AF MODE**.

Option	Description
91 POINTS (7 × 13)	Choose from 91 focus points arranged in a 7- by 13-point grid.
325 POINTS (13 × 25)	Choose from 325 focus points arranged in a 13- by 25-point grid.

PRE-AF

If **ON** is selected, the camera will continue to adjust focus even when the shutter button is not pressed halfway. Note that this increases the drain on the battery.

Options	
ON	OFF

AF ILLUMINATOR

If **ON** is selected, the AF-assist illuminator will light to assist autofocus.

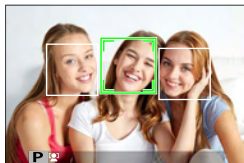
Options	
ON	OFF

 The camera may be unable to focus using the AF-assist illuminator in some cases. If the camera is unable to focus, try increasing the distance to the subject.

Avoid shining the AF-assist illuminator directly into your subject's eyes.

FACE/EYE DETECTION SETTING

Intelligent Face Detection sets focus and exposure for human faces anywhere in the frame, preventing the camera from focusing on the background in group portraits. Choose for shots that emphasize portrait subjects. Faces can be detected with the camera in vertical or horizontal orientation; if a face is detected, it will be indicated by a green border. If there is more than one face in the frame, the camera will select the face closest to the center; other faces are indicated by white borders. You can also choose whether the camera detects and focuses on eyes when Intelligent Face Detection is on. Choose from the following options:



Option	Description
FACE ON/EYE OFF	Intelligent Face Detection only.
FACE ON/EYE AUTO	The camera automatically chooses which eye to focus on when a face is detected.
FACE ON/RIGHT EYE PRIORITY	The camera focuses on the right eye of subjects detected using Intelligent Face Detection.
FACE ON/LEFT EYE PRIORITY	The camera focuses on the left eye of subjects detected using Intelligent Face Detection.
FACE OFF/EYE OFF	Intelligent Face Detection and eye priority off.



In some modes, the camera may set exposure for the frame as a whole rather than the portrait subject.

If the subject moves as the shutter button is pressed, the face may not be in the area indicated by the green border when the picture is taken.



If the camera is unable to detect the subject's eyes because they are hidden by hair, glasses, or other objects, the camera will instead focus on faces.

Face/eye detection options can also be accessed via shortcuts (📖 212).

AF+MF

If **ON** is selected in focus mode **S**, focus can be adjusted manually by rotating the focus ring while the shutter button is pressed halfway. **Standard** and focus peaking MF assist options are supported.

Options	
ON	OFF

 Lenses with a focus distance indicator must be set to manual focus mode (MF) before this option can be used. Selecting MF disables the focus distance indicator. Set the focus ring to the center of the focus distance indicator, as the camera may fail to focus if the ring is set to infinity or the minimum focus distance.

AF + MF Focus Zoom

When **ON** is selected for  **AF/MF SETTING > FOCUS CHECK** and **SINGLE POINT** selected for **AF MODE**, focus zoom can be used to zoom in on the selected focus area. The zoom ratio (2.5× or 6×) can be selected using the rear command dial.

MF ASSIST

Choose how focus is displayed in manual focus mode.

Option	Description
STANDARD	Focus is displayed normally (focus peaking and digital split image are not available).
DIGITAL SPLIT IMAGE	Displays a black-and-white (MONOCHROME) or color (COLOR) split image in the center of the frame. Frame the subject in the split-image area and rotate the focus ring until the three parts of the split image are correctly aligned.
FOCUS PEAK HIGHLIGHT	The camera heightens high-contrast outlines. Choose a color and peaking level.



You can also choose MF assist options by holding the center of the rear command dial.

FOCUS CHECK

If **ON** is selected, the display will automatically zoom in on the selected focus area when the focus ring is rotated in **single AF** or manual focus mode.

Options	
ON	OFF



Pressing the center of the rear command dial cancels focus zoom.

INTERLOCK SPOT AE & FOCUS AREA

Select **ON** to meter the current focus frame when **SINGLE POINT** is selected for **AF MODE** and **SPOT** is selected for **PHOTOMETRY**.

Options	
ON	OFF

INSTANT AF SETTING

Choose whether the camera focuses using single AF (**AF-S**) or continuous AF (**AF-C**) when the button to which focus lock is assigned is pressed in manual focus mode.

Options	
AF-S	AF-C

DEPTH-OF-FIELD SCALE

Choose **FILM FORMAT BASIS** to help you make practical assessments of depth of field for pictures that will be viewed as prints and the like, **PIXEL BASIS** to help you assess depth of field for pictures that will be viewed at high resolutions on computers or other electronic displays.

Options	
PIXEL BASIS	FILM FORMAT BASIS

RELEASE/FOCUS PRIORITY

Choose how the camera focuses in focus mode **AF-S** or **AF-C**.

Option	Description
RELEASE	Shutter response is prioritized over focus. Pictures can be taken when the camera is not in focus.
FOCUS	Focus is prioritized over shutter response. Pictures can be only taken when the camera is in focus.

TOUCH SCREEN MODE

Choose the shooting operations performed using touch controls.

Still Photography

Mode	Description
 TOUCH SHOOTING	Tap your subject in the display to focus and release the shutter. In burst mode, pictures will be taken while you keep your finger on the display.
 AF	Tap to select a focus point. In focus mode S (AF-S), focus will lock, while in focus mode C (AF-C), the camera will continually adjust focus in response to changes in the distance to the subject. Focus lock and continuous focus can be ended by tapping the AF OFF icon.
 AREA	Tap to select a point for focus or zoom. The focus frame will move to the selected point.
 OFF	Touch focus and shooting disabled.

Movie Recording

 We recommend that you select **AREA** for **MOVIE AF MODE** in the shooting menu  (**MOVIE SETTING**) tab before recording movies using touch controls (in some movie modes, **AREA** will be selected automatically).

Mode	Description
 TOUCH SHOOTING	Tap your subject in the display to focus and start recording. In focus mode C (AF-C), the camera will continually adjust focus in response to changes in the distance to the subject; to refocus in focus mode S (AF-S) or to focus on a new subject in focus mode C , tap the subject in the monitor. <i>To end recording, press the shutter button.</i>

Mode	Description
 AF	Tap your subject in the display to focus and <i>press the shutter button to start or end recording</i> . In focus mode C (AF-C), the camera will continually adjust focus in response to changes in the distance to the subject; to refocus in focus mode S (AF-S) or to focus on a new subject in focus mode C , tap the subject in the monitor.
 AREA	Tap to select a focus point and <i>press the shutter button to start or end recording</i> . In focus mode C (AF-C), the camera will continually adjust focus in response to changes in the distance to the subject in the selected focus point. In focus mode S (AF-S), you can move the focus point by tapping the display, but can only refocus using the AF-ON button (📖 216).
 OFF	Touch focus and shooting disabled.



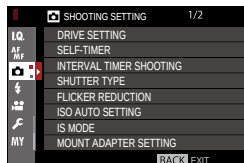
To disable touch controls and hide the touch screen mode indicator, select **OFF** for **🔍 BUTTON/DIAL SETTING > TOUCH SCREEN SETTING > TOUCH SCREEN ON/OFF**.



SHOOTING SETTING

Adjust shooting options.

To display shooting options, press **MENU/OK** in the shooting display and select the (**SHOOTING SETTING**) tab.



The options available vary with the shooting mode selected.

DRIVE SETTING

Adjust settings for the various drive modes.

Option	Description
BKT SETTING	Choose the settings used when the drive dial is rotated to BKT (124).
CH HIGH SPEED BURST	Select the frame rate used when the drive dial is rotated to CH (continuous high speed): 14, 11, or 8 fps. Note that 14 fps is available only with the electronic shutter and 11 fps only with the electronic shutter or a power-booster grip.
CL LOW SPEED BURST	Select the frame rate used when the drive dial is rotated to CL (continuous low speed): 5, 4, or 3 fps.
ADV. FILTER SETTING	Choose the filter used when the drive dial is rotated to ADV. (88).

BKT SETTING

Use **BKT SELECT** to choose a bracketing type and the **AE BKT**, **ISO BKT**, **FILM SIMULATION BKT**, and **WHITE BALANCE BKT** options to choose the bracketing amount for each type.

Option	Description
BKT SELECT	Choose from  AE BKT ,  ISO BKT ,  FILM SIMULATION BKT ,  WHITE BALANCE BKT , and  DYNAMIC RANGE BKT .
AE BKT	Adjust exposure bracketing settings. • FRAMES/STEP SETTING: Choose the number of shots in the bracketing sequence (FRAMES) and the amount exposure is varied with each shot (STEP). • 1 FRAME/CONTINUOUS: Choose whether the shots in the bracketing sequence are taken one at a time (1 FRAME) or in a single burst (CONTINUOUS). • SEQUENCE SETTING: Choose the order in which the shots are taken.
ISO BKT	Choose from $\pm\frac{1}{2}$, $\pm\frac{2}{3}$, and ± 1 .
FILM SIMULATION BKT	Choose the three film simulation types used for film simulation bracketing ( 100).
WHITE BALANCE BKT	Choose from ± 1 , ± 2 , and ± 3 .

SELF-TIMER

Choose a shutter release delay.

Option	Description
 2 SEC	The shutter is released two seconds after the shutter button is pressed. Use to reduce blur caused by the camera moving when the shutter button is pressed. The self-timer lamp blinks as the timer counts down.
 10 SEC	The shutter is released ten seconds after the shutter button is pressed. Use for photographs in which you wish to appear yourself. The self-timer lamp blinks immediately before the picture is taken.
OFF	Self-timer off.

If an option other than **OFF** is selected, the timer will start when the shutter button is pressed all the way down. The display shows the number of seconds remaining until the shutter is released. To stop the timer before the picture is taken, press **DISP/BACK**.



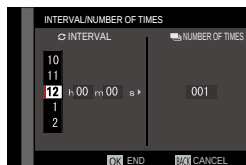
 Stand behind the camera when using the shutter button. Standing in front of the lens can interfere with focus and exposure.

The self-timer turns off automatically when the camera is turned off.

INTERVAL TIMER SHOOTING

Configure the camera to take photos automatically at a preset interval.

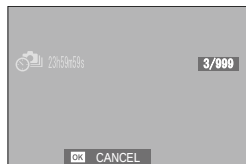
- 1 Highlight **INTERVAL TIMER SHOOTING** in the  (**SHOOTING SETTING**) tab and press **MENU/OK**.



- 2 Use the selector to choose the interval and number of shots. Press **MENU/OK** to proceed.



- 3 Use the selector to choose the starting time and then press **MENU/OK**. Shooting will start automatically.



 Interval timer photography cannot be used at a shutter speed of **B** (bulb) or with multiple exposure photography. In burst mode, only one picture will be taken each time the shutter is released.

 Use of a tripod is recommended.

Check the battery level before starting. We recommend using the [AC-9VS](#) AC power adapter [supplied with the VPB-XH1 vertical power-booster grip](#).

The display turns off between shots and lights a few seconds before the next shot is taken. The display can be activated at any time by pressing the shutter button.

To continue shooting until the memory card is full, set the number of shots to ∞ .

SHUTTER TYPE

Choose the shutter type. Choose the electronic shutter to mute the shutter sound.

Option	Description
MS MECHANICAL SHUTTER	Take pictures with the mechanical shutter.
ES ELECTRONIC SHUTTER	Take pictures with the electronic shutter.
EF E-FRONT CURTAIN SHUTTER	Reduces the lag between the shutter button being pressed and the start of the exposure. The mechanical shutter is used at high shutter speeds.
M/E MECHANICAL + ELECTRONIC	The camera chooses the mechanical or electronic shutter according to shooting conditions.
EF/M E-FRONT + MECHANICAL	The camera chooses the mechanical or electronic front curtain shutter according to shooting conditions.
EF/M/E E-FRONT + MECHANICAL + ELECTRONIC	The camera chooses the mechanical , electronic , or electronic front curtain shutter according to shooting conditions.

If **ES ELECTRONIC SHUTTER**, **M/E MECHANICAL + ELECTRONIC**, or **EF/M/E E-FRONT + MECHANICAL + ELECTRONIC** is selected, shutter speeds faster than $\frac{1}{8000}$ s can be chosen by rotating the shutter speed dial to **8000** and then rotating the rear command dial ( 284).

 A tripod is recommended for shots taken using the electronic shutter. Distortion may be visible in shots of moving subjects and in hand-held shots taken at high shutter speeds, while banding and fog may occur in shots taken under fluorescent lights or other flickering or erratic illumination. In the case of the electronic front-curtain shutter, faster shutter speeds are more likely to result in uneven exposure and loss of resolution in out-of-focus areas of the frame. When taking pictures with the shutter muted, respect your subjects' image rights and right to privacy.

 When the electronic shutter is used, the flash is disabled, sensitivity is restricted to values of ISO 12800–200, and long exposure noise reduction has no effect.

FLICKER REDUCTION

Select **ON** to reduce flicker in pictures and the display when shooting under fluorescent lighting and other similar light sources.

Options	
ON	OFF

 Enabling flicker reduction disables the electronic shutter and increases the time needed to record pictures.

SO AUTO SETTING

Choose the base sensitivity, maximum sensitivity, and minimum shutter speed for the **A** position on the sensitivity dial. Settings for **AUTO1**, **AUTO2**, and **AUTO3** can be stored separately; the defaults are shown below.

Item	Options	Default		
		AUTO1	AUTO2	AUTO3
DEFAULT SENSITIVITY	12800–200		200	
MAX. SENSITIVITY	12800–400	800	1600	3200
MIN. SHUTTER SPEED	$\frac{1}{500}$ – $\frac{1}{4}$ SEC, AUTO		AUTO	

The camera automatically chooses a sensitivity between the default and maximum values; sensitivity is only raised above the default value if the shutter speed required for optimal exposure would be slower than the value selected for **MIN. SHUTTER SPEED**.

 If the value selected for **DEFAULT SENSITIVITY** is higher than that selected for **MAX. SENSITIVITY**, **DEFAULT SENSITIVITY** will be set to the value selected for **MAX. SENSITIVITY**.

The camera may select shutter speeds slower than **MIN. SHUTTER SPEED** if pictures would still be underexposed at the value selected for **MAX. SENSITIVITY**. If **AUTO** is selected for **MIN. SHUTTER SPEED**, the camera will automatically choose a minimum shutter speed approximately equal to the inverse of the lens' focal length, in seconds (for example, if the lens has a focal length of 50 mm, the camera will choose a minimum shutter speed in the neighborhood of $\frac{1}{50}$ s). The minimum shutter speed is not affected by the option selected for image stabilization.

S MODE

Reduce blur.

Option	Description
CONTINUOUS	Image stabilization on.
SHOOTING ONLY	Image stabilization enabled only when the shutter button is pressed halfway (focus mode C) or the shutter is released.
OFF	Image stabilization off;  appears in the display. Choose when the camera is mounted on a tripod or otherwise fixed in place.

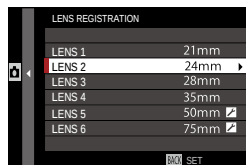
 The setting selected with the lens image stabilization switch, if any, takes priority over the setting chosen with **IS MODE**. Note that vibration or camera sounds may be noticeable as image stabilization takes effect.

MOUNT ADAPTER SETTING

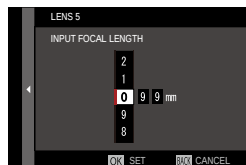
Adjust settings for M-mount lenses connected using an optional FUJIFILM M MOUNT ADAPTER.

Choosing a Focal Length

If the lens has a focal length of 21, 24, 28, or 35 mm, choose a matching option in the **MOUNT ADAPTER SETTING** menu.

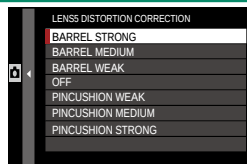


For other lenses, select option 5 or 6 and use the selector to enter the focal length.



Distortion Correction

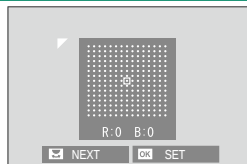
Choose from **STRONG**, **MEDIUM**, or **WEAK** options to correct **BARREL** or **PINCUSHION** distortion.



Color Shading Correction

Color (shading) variations between the center and edges of the frame can be adjusted separately for each corner.

To use color shading correction, follow the steps below.



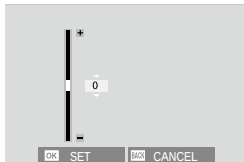
- 1 Rotate the rear command dial to choose a corner. The selected corner is indicated by a triangle.
- 2 Use the selector to adjust shading until there is no visible difference in color between the selected corner and the center of the image. Press the selector left or right to adjust colors on the cyan–red axis. Press the selector up or down to adjust colors on the blue–yellow axis.



To determine the amount required, adjust color shading correction while taking photos of blue sky or a sheet of gray paper.

Peripheral Illumination Correction

Choose from values between -5 and $+5$. Choosing positive values increases peripheral illumination, while choosing negative values reduces peripheral illumination. Positive values are recommended for vintage lenses, negative values to create the effect of images taken with an antique lens or a pinhole camera.



To determine the amount required, adjust peripheral illumination correction while taking photos of blue sky or a sheet of gray paper.

MULTI EXPOSURE

Create a photograph that combines two exposures.



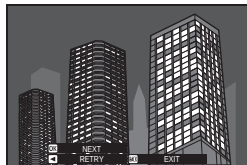
- 1 After rotating the drive dial to **S**, select **ON** for **MULTI EXPOSURE** in the **SHOOTING SETTING** tab and press **MENU/OK**.

- 2 Take the first shot.

- 3 Press **MENU/OK**. The first shot will be shown superimposed on the view through the lens and you will be prompted to take the second shot.



To return to Step 2 and retake the first shot, press the selector left. To save the first shot and exit without creating a multiple exposure, press **DISP/BACK**.



- 4 Take the second shot, using the first frame as a guide.



- 5 Press **MENU/OK** to create the multiple exposure, or press the selector left to return to Step 4 and retake the second shot.



To end multiple exposure photography, select **OFF** for **MULTI EXPOSURE**.



Multiple exposures cannot be recorded via tethered shooting (209).

WIRELESS COMMUNICATION

Connect to smartphones running the latest version of the FUJIFILM Camera Remote app. The smartphone can be used to browse the images on the camera, download selected images, control the camera remotely, or upload location data to the camera.



For downloads and other information, visit:

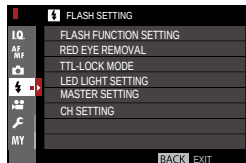
http://app.fujifilm-dsc.com/en/camera_remote/

FLASH SETTING

Adjust flash-related settings.

To display flash-related settings, press **MENU/OK** in the shooting display and select the  (**FLASH SETTING**) tab.

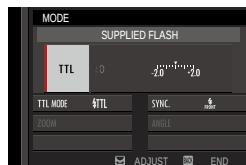
 The options available vary with the shooting mode selected.



FLASH FUNCTION SETTING

Choose a flash control mode, flash mode, or sync mode or adjust the flash level. The options available vary with the flash.

 See page 224 for more information.



RED EYE REMOVAL

Remove red-eye effects caused by the flash.

Option	Description
FLASH+REMOVAL	A red-eye reduction pre-flash is combined with digital red-eye removal.
FLASH	Flash red-eye reduction only.
REMOVAL	Digital red-eye removal only.
OFF	Flash red-eye reduction and digital red-eye removal off.

 Flash red-eye reduction can be used in TTL flash control mode. Digital red-eye removal is performed only when a face is detected and is not available with RAW images.

TTL-LOCK MODE

Instead of adjusting flash level with each shot, TTL flash control can be locked for consistent results across a series of photographs.

Option	Description
LOCK WITH LAST FLASH	Flash output is locked at the value metered for the most recent photo. An error message will be displayed if no previously metered value exists.
LOCK WITH METERING FLASH	The camera emits a series of pre-flashes and locks flash output at the metered value.



To use TTL lock, assign **TTL-LOCK** to a camera control and then use the control to enable or disable TTL lock (📖 218).

Flash compensation can be adjusted while TTL lock is in effect.

LED LIGHT SETTING

Choose whether to use the flash unit's LED video light (if available) as a catchlight or AF-assist illuminator when taking photos.

Option	Role of LED video light in still photography
CATCHLIGHT	Catchlight
AF ASSIST	AF-assist illuminator
AF ASSIST+CATCHLIGHT	AF-assist illuminator and catchlight
OFF	None



This option can also be accessed via the **FLASH FUNCTION SETTING** menu.

MASTER SETTING

Choose a flash group (A, B, or C) for the flash mounted on the camera hot shoe when it functions as a master flash controlling remote flash units via FUJIFILM wireless optical flash control, or choose **OFF** to limit master flash output to a level that does not affect the final picture.

Options			
Gr A	Gr B	Gr C	OFF



This option can also be accessed via the **FLASH FUNCTION SETTING** menu.

CH SETTING

Choose the channel used for communication between the master flash and remote flash units when using FUJIFILM optical wireless flash control. Separate channels can be used for different flash systems or to prevent interference when multiple systems are operating in close proximity.

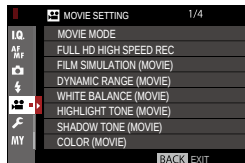
Options			
CH1	CH2	CH3	CH4



MOVIE SETTING

Adjust movie-recording options.

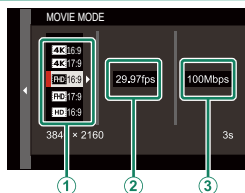
To display options for movie recording, press **MENU/OK** in the shooting display and select the (**MOVIE SETTING**) tab.



The options available vary with the shooting mode selected.

MOVIE MODE

Before shooting movies, choose the frame rate, bit rate, and frame size and aspect ratio.



- 1 In the shooting menu, select **MOVIE SETTING**, then highlight **MOVIE MODE** and press **MENU/OK**.
- 2 Press the selector up or down to highlight the desired frame size and aspect ratio (①) and press the selector right. Choose from **4K 16:9** (4K, aspect ratio 16:9), **4K 17:9** (4K, aspect ratio 17:9), **FHD 16:9** (Full HD, aspect ratio 16:9), **FHD 17:9** (Full HD, aspect ratio 17:9), and **HD 16:9** (HD, aspect ratio 16:9).
- 3 Press the selector up or down to highlight a frame rate (②) and press the selector right.

Options					
59.94P	50P	29.97P	25P	24P	23.98P

- 4 Press the selector up or down to highlight a bit rate (③) and press **MENU/OK**.

Options		
200Mbps	100Mbps	50Mbps

FULL HD HIGH SPEED REC

Record high-frame-rate Full HD movies that play back in slow motion, giving you time to view fast-moving subjects or details too fleeting for the naked eye: a batter's swing, darting insects, or swiftly-flowing waters.

Option	Description
2x  59.94P  120P	Record up to 6 minutes of Full HD footage at 2x, 4x, or 5x speed and frame rates of 120 or 100 fps. The movies play back at 1/2, 1/4, or 1/5 speed.
2x  50P  100P	
4x  29.97P  120P	
4x  25P  100P	
5x  24P  120P	
5x  23.98P  120P	
OFF	



High-speed movies are recorded with no sound.

FILM SIMULATION (MOVIE)

Choose a film simulation effect for movie recording.

Option	Description
 PROVIA/STANDARD	See "FILM SIMULATION" (📖 100).
 Velvia/VIVID	
 ASTIA/SOFT	
 CLASSIC CHROME	
 PRO Neg. Hi	
 PRO Neg. Std	
 ETERNA/CINEMA	
 ACROS	
 MONOCHROME	
 SEPIA	

DYNAMIC RANGE (MOVIE)

Choose a dynamic range for movie recording.

Option	Description
 100%	See "DYNAMIC RANGE" (📖 101).
 200%	
 400%	

 The **MOVIE SETTING > DYNAMIC RANGE (MOVIE)** option is available when **OFF** is selected for **MOVIE SETTING > F-Log RECORDING**. **R200 200%** is available at sensitivities of from ISO 400 to ISO 12800, **R400 400%** at sensitivities of from ISO 800 to 12800. Auto dynamic range adjustment (**AUTO**) is not supported.

WHITE BALANCE (MOVIE)

Adjust white balance for movie recording.

Option	Description
AUTO	See "WHITE BALANCE" (📖 102).
 1/  2/  3	
	
	
	
	
	
	
	
	

HIGHLIGHT TONE (MOVIE)

Choose how the camera records highlights when shooting movies.

Options						
+4	+3	+2	+1	0	-1	-2

SHADOW TONE (MOVIE)

Choose how the camera records shadows when shooting movies.

Options						
+4	+3	+2	+1	0	-1	-2

COLOR (MOVIE)

Adjust color density for movie recording.

Options								
+4	+3	+2	+1	0	-1	-2	-3	-4

SHARPNESS (MOVIE)

Sharpen or soften outlines in movies.

Options								
+4	+3	+2	+1	0	-1	-2	-3	-4

NOISE REDUCTION (MOVIE)

Reduce noise in movies shot at high sensitivities.

Options								
+4	+3	+2	+1	0	-1	-2	-3	-4

F-Log RECORDING

Select **ON** to record movies using a soft gamma curve with a wide gamut suitable for further processing post-production. The minimum value for sensitivity is set to ISO 800.

PERIPHERAL LIGHT CORRECTION (MOVIE)

Select **ON** to enable peripheral illumination correction during movie recording.



Select **OFF** if you notice banding in movies recorded using this option. If **ON** is selected when a lens that does not transmit data to the camera is attached using a FUJIFILM M MOUNT ADAPTER (available separately), peripheral illumination will be adjusted according to the option selected for **SHOOTING SETTING > MOUNT ADAPTER SETTING > PERIPHERAL ILLUMINATION CORRECTION** in the shooting menu (📖 131).

FOCUS AREA (MOVIE)

Choose the focus area for movies shot using autofocus or manual focus.

MOVIE AF MODE

Choose how the camera selects the focus point for movie recording.

Option	Description
MULTI	Automatic focus-point selection.
AREA	The camera focuses on the subject in the selected focus area.

AF-C CUSTOM SETTING (MOVIE)

Select focus-tracking options when recording movies in focus mode **C**.

TRACKING SENSITIVITY

Choose how long the camera waits to switch focus when an object enters the focus area behind or in front of the current subject. See “TRACKING SENSITIVITY” (📖 113).

Options				
0	1	2	3	4

AF SPEED

Adjust the autofocus response speed.

Options										
-5	-4	-3	-2	-1	0	+1	+2	+3	+4	+5

PRE-AF (MOVIE)

If **ON** is selected, the camera will continue to adjust focus even when the shutter button is not pressed halfway. Note that this increases the drain on the battery.

Options	
ON	OFF

FACE/EYE DETECTION SETTING (MOVIE)

Enable or disable Intelligent Face Detection (📖 117) when recording movies.

Option	Description
FACE ON/EYE OFF	See "FACE/EYE DETECTION" (📖 117).
FACE ON/EYE AUTO	
FACE ON/RIGHT EYE PRIORITY	
FACE ON/LEFT EYE PRIORITY	
FACE OFF/EYE OFF	

❗ When Intelligent Face Detection is enabled, the camera will focus using continuous AF even when single AF (S) is chosen with the focus selector. Intelligent Face Detection is not available in manual focus mode.

MF ASSIST (MOVIE)

Choose how focus is displayed in manual focus mode.

Option	Description
STANDARD	See "MF ASSIST" (📖 119).
DIGITAL SPLIT IMAGE	
FOCUS PEAK HIGHLIGHT	

FOCUS CHECK (MOVIE)

If ON is selected, the display will automatically zoom in on the selected focus area when the focus ring is rotated in single AF or manual focus mode.

Options	
ON	OFF

HDMI OUTPUT INFO DISPLAY

If **ON** is selected, HDMI devices to which the camera is connected will mirror the information in the camera display.

Options	
ON	OFF

4K MOVIE OUTPUT

Choose the destination for 4K movies shot while the camera is connected to an HDMI recorder or other device that supports 4K.

Option	Description
 4K  FHD	4K movies are recorded to a camera memory card in 4K and output to the HDMI device in Full HD.
 FHD  4K	4K movies are output to the HDMI device in 4K and recorded to the camera memory card in Full HD.
 —  4K	4K movies are output to the HDMI device in 4K. The camera does not record 4K movies to a memory card.

 This option is only available when  **16:9** or  **17:9** is selected for  **MOVIE SETTING > MOVIE MODE** in the shooting menu.

FULL HD MOVIE OUTPUT

Choose the destination for Full HD movies shot while the camera is connected to an HDMI device.

Option	Description
 FHD  FHD	Full HD movies are output to the HDMI device and recorded to the camera memory card.
 —  FHD	Full HD movies are not recorded to the camera memory card but are output to the HDMI device.

 This option is only available when  **16:9** or  **17:9** is selected for  **MOVIE SETTING > MOVIE MODE** in the shooting menu.

4K HDMI STANDBY QUALITY

Choose whether output to connected HDMI devices switches from 4K to Full HD during standby.

Option	Description
4K	Output to HDMI devices continues at 4K during standby.
FHD	Output to HDMI devices switches to Full HD during standby, reducing the drain on the battery.

HDMI REC CONTROL

Choose whether the camera sends movie start and stop signals to the HDMI device when the shutter button is pressed to start and stop movie recording.

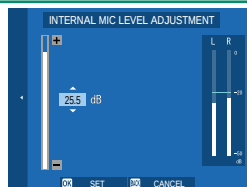
Options	
ON	OFF

AUDIO SETTING

Adjust audio-related settings for movie recording.

INTERNAL MIC LEVEL ADJUSTMENT

Adjust the recording level for the built-in microphone.



Option	Description
AUTO	The camera adjusts the recording level automatically.
MANUAL	Adjust the recording level manually. Press the selector right to choose from 25 recording levels.
OFF	Turn the built-in microphone off.

EXTERNAL MIC LEVEL ADJUSTMENT

Adjust the recording level for external microphones.

Option	Description
AUTO	The camera adjusts the recording level automatically.
MANUAL	Adjust the recording level manually. Press the selector right to choose from 25 recording levels.
OFF	Disable recording using external microphones.

MIC LEVEL LIMITER

Reduces distortion caused by input that exceeds the limits of the microphone's audio circuits.

Options	
ON	OFF

WIND FILTER

Choose whether to enable wind noise reduction during movie recording.

Options	
ON	OFF

LOW CUT FILTER

Choose whether to enable the low-cut filter, reducing low-frequency noise during movie recording.

Options	
ON	OFF

HEADPHONES VOLUME

Adjust the volume of audio output to headphones connected to the VPB-XH1 vertical power-booster grip.

Option	Description
10—1	Choose a volume of from 1 to 10.
0	Mute output to the headphones.

TIME CODE SETTING

Adjust time code (hour, minute, second, and frame number) display settings for movie recording.

TIME CODE DISPLAY

Select **ON** to display time codes during movie recording and playback.

Options	
ON	OFF

START TIME SETTING

Choose the time code starting time.

Option	Description
MANUAL INPUT	Highlight this option and press the selector right to choose a start time manually.
CURRENT TIME	Set the start time to the current time.
RESET	Set the start time to 00:00:00.

COUNT UP SETTING

Choose whether time is clocked continuously or only during movie recording.

Option	Description
REC RUN	Time is clocked only during movie recording.
FREE RUN	Time is clocked continuously.

DROP FRAME

At frame rates of **59.94P**, and **29.97P**, a discrepancy will gradually develop between the time code (measured in seconds) and the actual recording time (measured in fractions of a second). Choose whether the camera drops frames as necessary to match the recording time to the time code. Selecting a frame rate of **23.98P** disables frame drop.

Option	Description
ON	The camera drops frames as necessary to maintain a strict match between the time code and the actual recording time.
OFF	Frames are not dropped.



The time code display varies with the option selected.



TC:00:00:00.00

ON

TC:00:00:00.00

OFF

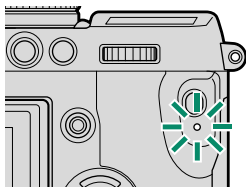
HDMI TIME CODE OUTPUT

Choose whether time codes are output to HDMI devices.

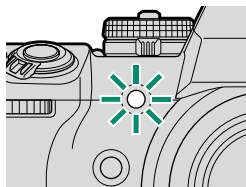
Options	
ON	OFF

TALLY LIGHT

Choose the lamp (indicator or AF-assist) that lights during movie recording and whether the lamp blinks or remains steady.



Indicator lamp



AF-assist illuminator

Option	Description
FRONT OFF REAR 	The indicator lamp lights during movie recording.
FRONT OFF REAR 	The indicator lamp blinks during movie recording.
FRONT  REAR 	The indicator and AF-assist lamps light during movie recording.
FRONT  REAR OFF	The AF-assist lamp lights during movie recording.
FRONT  REAR 	The indicator and AF-assist lamps blink during movie recording.
FRONT  REAR OFF	The AF-assist lamp blinks during movie recording.
FRONT OFF REAR OFF	The indicator and AF-assist lamps remain off during movie recording.

MOVIE SILENT CONTROL

Select **ON** to disable camera dials and adjust movie settings using touch-screen controls, preventing the sounds made by camera controls being recorded with the movie ( 23).

Options	
ON	OFF