FUJIFILM

BL00004725-204 **EN**
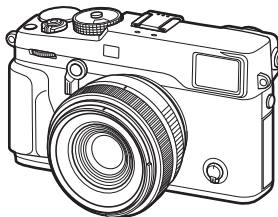
DIGITAL CAMERA

X-Pro2 **Version 3.10**

Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM X-Pro2 digital camera. Be sure that you have read and understood its contents before using the camera.

■ **Product website:**
http://fujifilm-x.com/x-pro2/

■ **Additional information may be found in online manuals available from:**

http://fujifilm-dsc.com/manuals/

For Your Safety

IMPORTANT SAFETY INSTRUCTIONS

- *__Read Instructions__*: All the safety and operating instructions should be read before the appliance is operated.
- *__Retain Instructions__*: The safety and operating instructions should be retained for future reference.
- *__Heed Warnings__*: All warnings on the appliance and in the operating instructions should be adhered to.
- *__Follow Instructions__*: All operating and use instructions should be followed.

Installation

Power Sources: This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

Grounding or Polarization: This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Alternate Warnings: This video product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

Overloading: Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

Ventilation: Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface.

This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. This video product should never be placed near or over a radiator or heat register.

Attachments: Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

Water and Moisture: Do not use this video product near water—for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Power-Cord Protection: Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

Accessories: Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
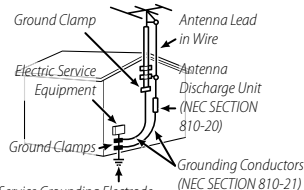
Antennas

Outdoor Antenna Grounding: If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the

mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING
AS PER NATIONAL ELECTRICAL CODE

Power Service Grounding Electrode
System (NEC ART 250. PART H)

Power Lines: An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Use

Cleaning: Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Object and Liquid Entry: Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

Lightning: For added protection for this video product receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

Servicing: Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring Service: Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

• When the power-supply cord or plug is damaged
• If liquid has been spilled, or objects have fallen into the video product.
• If the video product has been exposed to rain or water.
• If the video product has been dropped or the cabinet has been damaged.

If the video product does not operate normally follow the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.

When the video product exhibits a distinct change in performance — this indicates a need for service.

Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check: Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

Be sure to read these notes before use

Safety Notes

• Make sure that you use your camera correctly. Read these safety notes and your *Owner's Manual* carefully before use.
• After reading these safety notes, store them in a safe place.

About the Icons

The icons shown below are used in this document to indicate the severity of the injury or damage that can result if the information indicated by the icon is ignored and the product is used incorrectly as a result.

⚠ WARNING	This icon indicates that death or serious injury can result if the information is ignored.
⚠ CAUTION	This icon indicates that personal injury or material damage can result if the information is ignored.

The icons shown below are used to indicate the nature of the instructions which are to be observed.

⚠	Triangular icons tell you that this information requires attention ("Important").
⊘	Circular icons with a diagonal bar tell you that the action indicated is prohibited ("Prohibited").
❶	Filled circles with an exclamation mark indicate an action that must be performed ("Required").

The symbols on the product (including the accesories) represent the following:

∼	AC
⎓	DC
▣	Class II equipment (The construction of the product is double-insulated.)

⚠ WARNING

⚟ Unplug from power socket	***If a problem arises, turn the camera off, remove the battery, and disconnect and unplug the AC power adapter.*** Continued use of the camera when it is emitting smoke, is emitting any unusual odor, or is in any other abnormal state can cause a fire or electric shock. Contact your FUJIFILM dealer.
⊘	***Do not allow water or foreign objects to enter the camera.*** If water or foreign objects get inside the camera, turn the camera off, remove the battery, and disconnect and unplug the AC power adapter. Continued use of the camera can cause a fire or electric shock. Contact your FUJIFILM dealer.
⊘ Do not use in the bathroom or shower	***Do not use the camera in the bathroom or shower.*** This can cause a fire or electric shock.
⊘ Do not disassemble	***Never attempt to change or take apart the camera (never open the case).*** Failure to observe this precaution can cause fire or electric shock.
✋ Do not touch internal parts	***Should the case break open as the result of a fall or other accident, do not touch the exposed parts.*** Failure to observe this precaution could result in electric shock or in injury from touching the damaged parts. Remove the battery immediately, taking care to avoid injury or electric shock, and take the product to the point of purchase for consultation.
⊘	***Do not change, heat or unduly twist or pull the connection cord and do not place heavy objects on the connection cord.*** These actions could damage the cord and cause a fire or electric shock. If the cord is damaged, contact your FUJIFILM dealer.
⊘	***Do not place the camera on an unstable surface.*** This can cause the camera to fall or tip over and cause injury.
⊘	***Never attempt to take pictures while in motion.*** Do not use the camera while walking or driving. This can result in you falling down or being involved in a traffic accident.

⚠ **WARNING**

🚫 ***Do not touch any metal parts of the camera during a thunderstorm.*** This can cause an electric shock due to induced current from the lightning discharge.

🚫 ***Do not use the battery except as specified.*** Load the battery as shown by the indicator.

🚫 ***Do not disassemble, modify, or heat batteries. Do not drop, strike, or throw batteries or otherwise subject them to strong impacts. Do not use batteries that show signs of leaking, deformation, discoloration, or other abnormalities. Use only designated chargers to recharge rechargeable batteries and do not attempt to recharge non-rechargeable Li-ion or alkaline batteries. Do not short batteries or store them with metallic objects.*** Failure to observe these precautions could result in the batteries overheating, igniting, rupturing, or leaking, causing fire, burns, or other injury.

🚫 ***Use only batteries or AC power adapters specified for use with this camera. Do not use voltages other than the power supply voltage shown.*** The use of other power sources can cause a fire.

🚫 ***If the battery leaks and fluid gets in contact with your eyes, skin or clothing, flush the affected area with clean water and seek medical attention or call an emergency number right away.***

🚫 ***Do not use the charger to charge batteries other than those specified here.*** The supplied charger is for use only with batteries of the type supplied with the camera. Using the charger to charge conventional batteries or other types of rechargeable batteries can cause the battery to leak, overheat or burst.

🚫 ***Using a flash too close to a person's eyes may cause visual impairment.*** Take particular care when photographing infants and young children.

⚠ **WARNING**

🚫 ***Do not remain in prolonged contact with hot surfaces.*** Failure to observe this precaution could result in low-temperature burns, particularly at high ambient temperatures or with users who suffer from poor circulation or reduced sensation, in which case use of a tripod or similar precautions are recommended.

🚫 ***Do not leave one part of the body in contact with the product for prolonged periods while the product is on.*** Failure to observe this precaution could result in low-temperature burns, particularly during prolonged use, at high ambient temperatures, or with users who suffer from poor circulation or reduced sensation, in which case use of a tripod or similar precautions are recommended.

❗ ***Do not use in the presence of flammable objects, explosive gases, or dust.***

❗ ***When carrying the battery, install it in a digital camera or keep it in the hard case. When storing the battery, keep it in the hard case. When discarding, cover the battery terminals with insulation tape.*** Contact with other metallic objects or batteries could cause the battery to ignite or burst.

❗ ***Keep memory cards, hot shoes, and other small parts out of the reach of small children.*** Children may swallow small parts; keep out of reach of children. Should a child swallow a small part, seek medical attention or call emergency.

❗ ***Keep out of reach of small children.*** Among the elements that could cause injury are the strap, which could become entangled about a child's neck, causing strangulation, and the flash, which could cause visual impairment.

❗ ***Follow the directions of airline and hospital personnel.*** This product generates radio-frequency emissions that could interfere with navigational or medical equipment.

⚠ **CAUTION**

🚫 ***Do not use this camera in locations affected by oil fumes, steam, humidity or dust.*** This can cause a fire or electric shock.

🚫 ***Do not leave this camera in places subject to extremely high temperatures.*** Do not leave the camera in locations such as a sealed vehicle or in direct sunlight. This can cause a fire.

🚫 ***Do not place heavy objects on the camera.*** This can cause the heavy object to tip over or fall and cause injury.

🚫 ***Do not move the camera while the AC power adapter is still connected. Do not pull on the connection cord to disconnect the AC power adapter.*** This can damage the power cord or cables and cause a fire or electric shock.

🚫 ***Do not cover or wrap the camera or the AC power adapter in a cloth or blanket.*** This can cause heat to build up and distort the casing or cause a fire.

❗ ***When you are cleaning the camera or you do not plan to use the camera for an extended period, remove the battery and disconnect and unplug the AC power adapter.*** Failure to do so can cause a fire or electric shock.

🔌 ***When charging ends, unplug the charger from the power socket.*** Leaving the charger plugged into the power socket can cause a fire.

❗ ***When a memory card is removed, the card could come out of the slot too quickly. Use your finger to hold it and gently release the card.*** Injury could result to those struck by the ejected card.

⚠ ***Request regular internal testing and cleaning for your camera.*** Build-up of dust in your camera can cause a fire or electric shock. Contact your FUJIFILM dealer to request internal cleaning every two years. Please note that this service is not free of charge.

⚠ ***Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.***

The Battery and Power Supply

Note: *Check the type of battery used in your camera and read the appropriate sections*.

The following describes the proper use of batteries and how to prolong their life. Incorrect use can shorten battery life or cause leakage, overheating, fire, or explosion.

Li-ion Batteries

Read this section if your camera uses a rechargeable Li-ion battery.

The battery is not charged at shipment. Charge the battery before use. Keep the battery in its case when not in use.

■ Notes on the Battery

The battery gradually loses its charge when not in use. Charge the battery one or two days before use.

Battery life can be extended by turning the camera off when not in use.

Battery capacity decreases at low temperatures; a depleted battery may not function when cold. Keep a fully charged spare battery in a warm place and exchange as necessary, or keep the battery in your pocket or other warm place and insert it in the camera only when shooting. Do not place the battery in direct contact with hand warmers or other heating devices.

■ Charging the Battery

Charge the battery in the supplied battery charger. Charging times will increase at ambient temperatures below +10 ℃ (+50 °F) or above +35 ℃ (+95 °F). Do not attempt to charge the battery at temperatures above 40 ℃ (+104 °F); at temperatures below 0 ℃ (+32 °F), the battery will not charge.

Do not attempt to recharge a fully charged battery. The battery does not however need to be fully discharged before charging.

The battery may be warm to the touch immediately after charging or use. This is normal.

■ Battery Life

At normal temperatures, the battery can be recharged about 300 times. A noticeable decrease in the length of time the battery will hold a charge indicates that it has reached the end of its service life and should be replaced.

■ Storage

Performance may be impaired if the battery is left unused for extended periods when fully charged. Run the battery flat before storing it.

If the camera will not be used for an extended period, remove the battery and store it in a dry place with an ambient temperature of from +15 ℃ to +25 ℃ (+59 °F to +77 °F). Do not store in locations exposed to extremes of temperature.

■ Cautions: Handling the Battery

• Do not transport or store with metal objects such as necklaces or hairpins.
• Do not expose to flame or heat.
• Do not disassemble or modify.
• Use with designated chargers only.
• Dispose of used batteries promptly.
• Do not drop or subject to strong physical shocks.
• Do not expose to water.
• Keep the terminals clean.
• The battery and camera body may become warm to the touch after extended use. This is normal.

■ Disposal

Dispose of used batteries in accord with local regulations.

AC Power Adapters (Available Separately)

Use only FUJIFILM AC power adapters designated for use with this camera. Other adapters could damage the camera.
• The AC power adapter is for indoor use only.
• Be sure the DC plug is securely connected to the camera.
• Turn the camera off before disconnecting the adapter. Disconnect the adapter by the plug, not the cable.
• Do not use with other devices.
• Do not disassemble.
• Do not expose to high heat and humidity.
• Do not subject to strong physical shocks.
• The adapter may hum or become hot to the touch during use. This is normal.
• If the adapter causes radio interference, reorient or relocate the receiving antenna.

Using the Camera

• Do not aim the camera at extremely bright light sources, such as the sun in a cloudless sky. Failure to observe this precaution could damage the camera image sensor.
• Strong sunlight focused through the viewfinder may damage the panel of electronic viewfinder (EVF). Do not aim the electronic viewfinder at the sun.

Take Test Shots

Before taking photographs on important occasions (such as at weddings or before taking the camera on a trip), take a test shot and view the results to ensure that the camera is functioning normally. FUJIFILM Corporation can not accept liability for damages or lost profits incurred as a result of product malfunction.

Notes on Copyright

Unless intended solely for personal use, images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner. Note that some restrictions apply to the photographing of stage performances, entertainments, and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of memory cards containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

Handling

To ensure that images are recorded correctly, do not subject the camera to impact or physical shocks while images are being recorded.

Liquid Crystal

In the event that the display is damaged, care should be taken to avoid contact with liquid crystal. Take the urgent action indicated should any of the following situations arise:

• **If liquid crystal comes in contact with your skin**, clean the area with a cloth and then wash thoroughly with soap and running water.

• **If liquid crystal enters your eyes**, flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.

• **If liquid crystal is swallowed**, rinse your mouth thoroughly with water. Drink large quantities of water and induce vomiting, then seek medical assistance.

Although the display is manufactured using extremely high-precision technology, it may contain pixels that are always lit or that do not light. This is not a malfunction, and images recorded with the product are unaffected.

Trademark Information

Digital Split Image is a trademark or registered trademark of FUJIFILM Corporation. **xD-Picture Card** and ✕D are trademarks of FUJIFILM Corporation. The typefaces included herein are solely developed by DynaComware Taiwan Inc. Macintosh, Mac OS, and macOS are trademarks of Apple Inc. in the U.S.A. and other countries. Windows is a registered trademark of Microsoft Corporation in the U.S.A. and other countries. Wi-Fi® and Wi-Fi Protected Setup® are registered trademarks of the Wi-Fi Alliance. The SDHC and SDXC logos are trademarks of SD-3C, LLC. The HDMI logo is a trademark. All other trade names mentioned in this manual are the trademarks or registered trademarks of their respective owners.

Electrical Interference

This camera may interfere with hospital or aviation equipment. Consult with hospital or airline staff before using the camera in a hospital or on an aircraft.

Color Television Systems

NTSC (National Television System Committee) is a color television telecasting specification adopted mainly in the U.S.A., Canada, and Japan. PAL (Phase Alternation by Line) is a color television system adopted mainly in European countries and China.

Exif Print (Exif Version 2.3)

Exif Print is a newly revised digital camera file format in which information stored with photographs is used for optimal color reproduction during printing.

IMPORTANT NOTICE: Read Before Using the Software

Direct or indirect export, in whole or in part, of licensed software without the permission of the applicable governing bodies is prohibited.

NOTICES

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Please read the "Safety Notes" and make sure you understand them before using the camera.

Perchlorate Material—special handling may apply. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate.

Be sure to read these notes before use

Safety Notes

Thank you for your purchase of this product. For repair, inspection, and internal testing, contact your FUJIFILM dealer.

- Make sure that you use the lens correctly. Read these safety notes and the camera *Owner's Manual* carefully before use.
- After reading these safety notes, store them in a safe place.

About the Icons

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❗	Filled circles with an exclamation mark indicate an action that must be performed ("Required").

⚠ WARNING

🚫 Do not use in the bathroom or shower	***Do not immerse in or expose to water.*** Failure to observe this precaution can cause a fire or electric shock.
🚫 Do not disassemble	***Do not disassemble (do not open the case).*** Failure to observe this precaution can cause fire, electric shock, or injury due to product malfunction.
🚫 Do not touch internal parts	***Should the case break open as the result of a fall or other accident, do not touch the exposed parts.*** Failure to observe this precaution could result in electric shock or in injury from touching the damaged parts. Remove the camera battery immediately, taking care to avoid injury or electric shock, and take the product to the point of purchase for consultation.

⚠ WARNING

🚫	***Do not place on unstable surfaces.*** The product may fall, causing injury.
🚫	***Do not view the sun through the lens or camera viewfinders.*** Failure to observe this precaution can cause permanent visual impairment.

⚠ CAUTION

🚫	***Do not use or store in locations that are exposed to steam, or smoke or are very humid or extremely dusty.*** Failure to observe this precaution can cause fire or electric shock.
🚫	***Do not leave in direct sunlight or in locations subject to very high temperatures, such as in a closed vehicle on a sunny day.*** Failure to observe this precaution can cause fire.
❗	***Keep out of the reach of small children.*** This product could cause injury in the hands of a child.
🚫	***Do not handle with wet hands.*** Failure to observe this precaution can cause electric shock.
⚠	***Keep the sun out of the frame when shooting backlit subjects.*** Sunlight focused into the camera when the sun is in or close to the frame can cause fire or burns.
⚠	***When the product is not in use, replace the lens caps and store out of direct sunlight.*** Sunlight focused by the lens can cause fire or burns.
🚫	***Do not carry the camera or lens while they are attached to a tripod.*** The product can fall or strike other objects, causing injury.

This product complies with the following EU Directives:
• RoHS Directive 2011/65/EU
• RE Directive 2014/53/EU

Hereby, FUJIFILM Corporation declares that the radio equipment type FUJIFILM X-Pro2 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: *http://www.fujifilm.com/products/digital_cameras/x/fujifilm_x_pro2/pdf/index/fujifilm_x_pro2_cod.pdf*

This compliance is indicated by the following conformity marking placed on the product:

$$C \mathcal{E}$$

This marking is valid for non-Telecom products and EU harmonized Telecom products (e.g. Bluetooth).

IMPORTANT: *Read the following notices before using the camera's built-in wireless transmitter.*

① This product, which contains encryption function developed in the United States, is controlled by the United States Export Administration Regulations and may not be exported or re-exported to any country to which the United States embargoes goods.

• **_Use only as part of a wireless network._** FUJIFILM does not accept liability for damages resulting from unauthorized use. Do not use in applications requiring a high degree of reliability, for example in medical devices or other systems that may directly or indirectly impact human life. When using the device in computer and other systems that demand a greater degree of reliability than wireless networks, be sure to take all necessary precautions to ensure safety and prevent malfunction.

• **_Use only in the country in which the device was purchased._** This device conforms to regulations governing wireless network devices in the country in which it was purchased. Observe all location regulations when using the device. FUJIFILM does not accept liability for problems arising from use in other jurisdictions.

• **_Wireless data (images) may be intercepted by third parties._** The security of data transmitted over wireless networks is not guaranteed.

• **_Do not use the device in locations subject to magnetic fields, static electricity, or radio interference._** Do not use the transmitter in the vicinity of microwave ovens or in other locations subject to magnetic fields, static electricity, or radio interference that may prevent reception of wireless signals. Mutual interference may occur when the transmitter is used in the vicinity of other wireless devices operating in the 2.4 GHz band.

• **_The wireless transmitter operates in the 2.4 GHz band using DSSS and OFDM modulation._**

Wireless Network Devices: Cautions

• **_This device operates on the same frequency as commercial, educational, and medical devices and wireless transmitters._** It also operates on the same frequency as licensed transmitters and special unlicensed low-voltage transmitters used in RFID tracking systems for assembly lines and in other similar applications.

• **_To prevent interference with the above devices, observe the following precautions._** Confirm that the RFID transmitter is not in operation before using this device. Should you observe that the device causes interference in licensed transmitters used for RFID tracking, immediately stop using the affected frequency or move the device to another location. If you notice that this device causes interference in low-voltage RFID tracing systems, contact a FUJIFILM representative.

2.4DS/OF4   This sticker indicates that this device operates in the 2.4 GHz band using DSSS and OFDM modulation and may cause interference at distances of up to 40 m.

About This Manual

Before using the camera, read this manual and the warnings in "For Your Safety" (P ii). For information on specific topics, consult the sources below.

Memory Cards
Pictures are stored on optional SD, SDHC, and SDXC memory cards (P 24), referred to in this manual as "memory cards."

Product Care

Camera body: For continued enjoyment of your camera, use a soft, dry cloth to clean the camera body after each use. Do not use alcohol, thinner, or other volatile chemicals, which could discolor or deform the leather on the camera body. Any liquid on the camera should be removed immediately with a soft, dry cloth. Use a blower to remove dust from the monitor, taking care to avoid scratches, and then gently wipe with a soft, dry cloth. Any remaining stains can be removed by wiping gently with a piece of FUJIFILM lens-cleaning paper to which a small amount of lens-cleaning fluid has been applied. To prevent dust entering the camera, replace the body cap when no lens is in place.

Image sensor: Dust can be removed from the image sensor using the **D USER SETTING** > **SENSOR CLEANING** (📖 115) option in the camera menus.

Interchangeable lenses: Use a blower to remove dust, then gently wipe with a soft, dry cloth. Any remaining stains can be removed by wiping gently with a piece of FUJIFILM lens-cleaning paper to which a small amount of lens-cleaning fluid has been applied. Replace the front and rear caps when the lens is not in use.

Product Features

Frequently-used options can be added to the **Q** menu or a custom "my" menu or assigned to an **Fn** (function) button for direct access. Customize camera controls to suit your style or situation.

The Q Menu (🔲 47)

The **Q** menu is displayed by pressing the **Q** button.
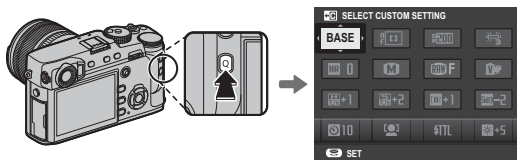
Use the **Q** menu to view or change the options selected for frequently-used menu items.

"My Menu" (🔲 105)

Add frequently-used options to this custom menu, which can be viewed by pressing **MENU/OK** and selecting the ▥ ("MY MENU") tab.
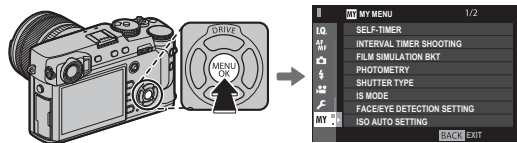
❧ The ▥ tab is only available if options have been assigned to "MY MENU".

The Function Buttons (🔲 50)

Use the function buttons for direct access to selected features.
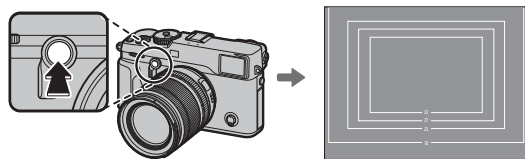
*Press the button for direct access to the assigned function. The illustration shows the **Fn2** button being used to display the bright frame simulation.*

Table of Contents

Before You Begin

First Steps

Menus

Before You Begin

Symbols and Conventions

The following symbols are used in this manual:

Q This information should be read before use to ensure correct operation.

◆ Additional information that may be helpful when using the camera.

⧉ Other pages in this manual on which related information may be found.

Menus and other text in the displays are shown in **bold**. In the illustrations in this manual, displays may be simplified for explanatory purposes.

Supplied Accessories

The following items are included with the camera:

NP-W126/NP-W126S rechargeable battery
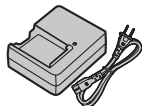
BC-W126 battery charger
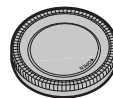
Body cap

Clip attaching tool

Metal strap clips (×2)

• *Protective covers (×2)*
• *Shoulder strap*
• *Hot shoe cover
 (comes attached to hot shoe)*
• *Sync terminal cap
 (comes attached to camera)*
• Owner's Manual *(this manual)*

Parts of the Camera

For more information, refer to the page listed to the right of each item.

Before You Begin

* In shooting mode, press and release to display quick menu or press and hold to display quick menu edit options. When quick menu is displayed, press and hold to edit custom settings.

🔒 Control Lock
To prevent accidental operation of the selector and **Q** button during shooting, press **MENU/OK** until 🔒 is displayed. The controls can be unlocked by pressing **MENU/OK** until 🔒 is no longer displayed.

The Selector

Press the selector up (①), right (③), down (④), or left (②) to highlight items. The up, left, right, and down buttons also double as the **DRIVE** (P 53), **Fn4** (film simulation; P 61), **Fn5** (white balance; P 62), and **Fn6** (AF mode; P 67) buttons, respectively (P 50).
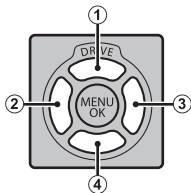
The Focus Stick (Focus Lever)

Tilt or press the focus stick to select the focus area (P 68).
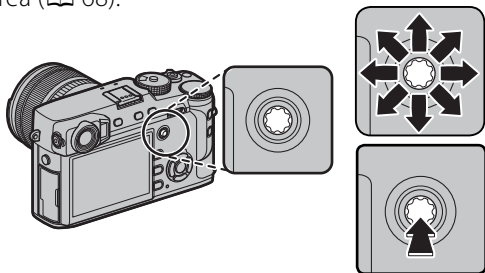
The Shutter-Speed/ISO Dial

Choose a shutter speed and ISO sensitivity.
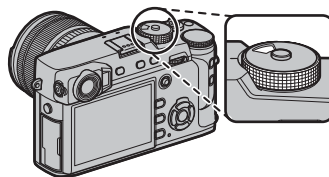
Rotate the dial to choose a shutter speed (P 35, 36, 37, 38).

◆ If the dial is in the **A** position, press the lock release while rotating the dial.

Lift and rotate the dial to choose ISO sensitivity (P 59).

4
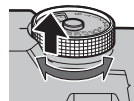
The Front Command Dial

The front command dial is used as described below.

Before You Begin
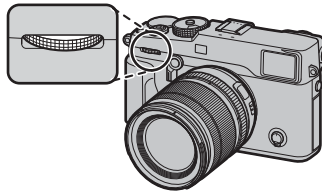
■ Rotate

- Choose the desired combination of shutter speed and aperture (program shift; 📖 35).
- Choose a shutter speed (📖 36, 38).
- Adjust exposure compensation when **C** is selected with exposure compensation dial (📖 58).
- View other pictures during playback (📖 39).

■ Press

Press the center of the dial to switch back and forth between shutter speed and exposure compensation when **C** is selected with the exposure compensation dial (📖 35, 36, 38, 58).

The Rear Command Dial

The rear command dial is used as described below.
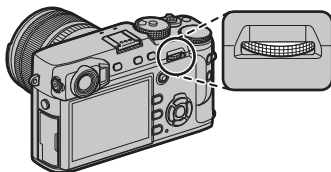
■ **Rotate**

- Adjust aperture (E 14, 37, 38).
- Adjust settings in the quick menu (E 48).
- Choose the size of the focus frame (E 69, 70)
- Zoom in or out during focus zoom or in full frame or multi-frame playback (E 41, 42).

■ **Press**

- Perform the function assigned to the *DIAL* function button (E 51).
- In manual focus mode, you can choose a focus display by pressing and holding the center of the dial (E 66).
- Zoom in on the active focus point during playback (E 40).

⚙ **Formatting Memory Cards**

To format memory cards, press the center of the command dial while pressing and holding the 🗑 button. The **FORMAT** menu will be displayed; select a slot and format the card as described on page 114.

The Indicator Lamp

When the viewfinder is not in use (P 28), the indicator lamp shows camera status.

Indicator lamp	Camera status
Glows green	Focus locked.
Blinks green	Focus or exposure warning. Pictures can be taken.
Blinks green and orange	Recording pictures. Additional pictures can be taken.
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.

Indicator lamp

◆ Warnings may also appear in the display (P 156).

Before You Begin

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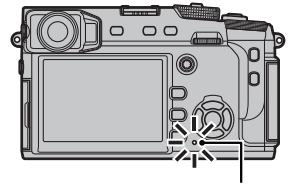
Camera Displays

The following types of indicator may be displayed during shooting and playback. In the description that follows, all available indicators are shown for illustrative purposes; the indicators actually displayed vary with camera settings. Note that the LCD monitor and electronic viewfinder have different aspect ratios.

■ **Shooting: Optical Viewfinder**

Before You Begin

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

■ **Shooting: Electronic Viewfinder/LCD Monitor**

10

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

Control Lock

🔒 Pressing a locked control (📖 3) displays a 🔒 icon.

Before You Begin

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■ Playback
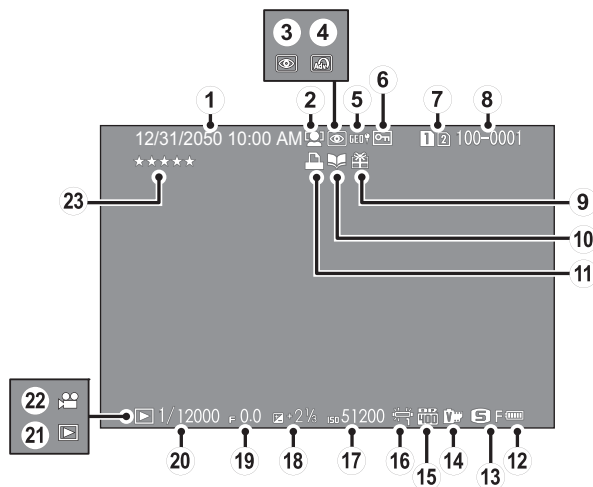
① Date and time.. 26, 27	⑨ Gift image.. 39
② Face detection indicator.................................... 95	⑩ Photobook assist indicator.............................. 86
③ Red-eye removal indicator............................. 109	⑪ DPOF print indicator 133
④ Advanced filter 56	⑫ Battery level 25
⑤ Location data 124	⑬ Image size/quality 89
⑥ Protected image 108	⑭ Film simulation.. 61
⑦ Card slot.. 39, 107	⑮ Dynamic range 90
⑧ Frame number.. 122	⑯ White balance.. 62
	⑰ Sensitivity... 59
	⑱ Exposure compensation................................. 58
	⑲ Aperture 35, 37, 38
	⑳ Shutter speed 35, 36, 38
	㉑ Playback mode indicator................................ 39
	㉒ Movie icon 46
	㉓ Rating... 39

Lenses

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

Parts of the Lens
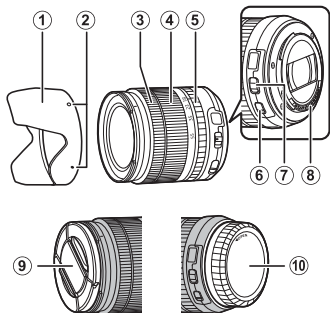
① Lens hood
② Mounting marks
③ Focus ring
④ Zoom ring
⑤ Aperture ring
⑥ O.I.S. switch
⑦ Aperture mode switch
⑧ Lens signal contacts
⑨ Front lens cap
⑩ Rear lens cap

Removing the Caps

Remove the caps as shown.
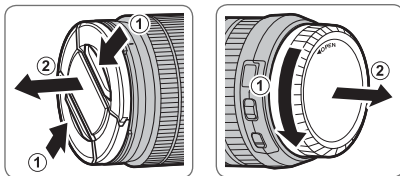
❶ Lens caps may differ from those shown.

Attaching the Hood

When attached, lens hoods reduce glare and protect the front lens element.
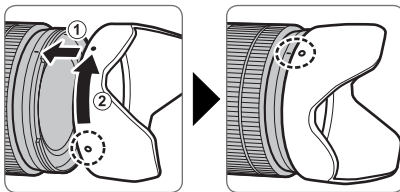
Lenses with Aperture Rings

At settings other than **A**, you *Aperture ring*
can adjust aperture by rotating the lens aperture ring (exposure modes **A** and **M**).
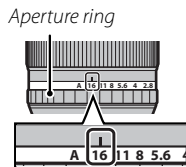
The Aperture Mode Switch

If the lens has an aperture mode switch, aperture can be adjusted manually by sliding the switch to ✿ and rotating the aperture ring.

Aperture ring

Aperture mode switch
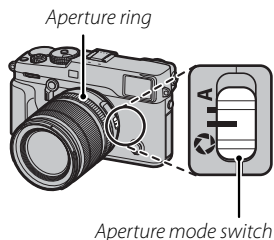
① When the aperture ring is set to **A**, rotate the rear command dial to adjust aperture.

Lenses with No Aperture Rings

The method used to adjust aperture can be selected using **D BUTTON/DIAL SETTING** > **APERTURE SETTING** (📖 120). When an option other than **AUTO** is selected, aperture can be adjusted using the rear command dial.
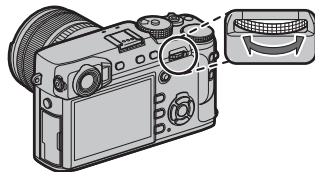
➤ Aperture control defaults to the rear command dial, but can be reassigned to the front command dial using **D BUTTON/DIAL SETTING** > **COMMAND DIAL SETTING** (📖 119).

Lenses with O.I.S. Switches

If the lens supports optical image stabilization (O.I.S.), the image stabilization mode can be chosen in the camera menus. To activate image stabilization, slide the O.I.S. switch to **ON**.
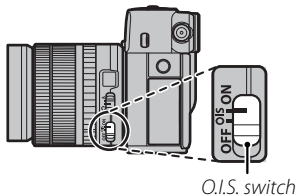
O.I.S. switch

Manual Focus Lenses

Slide the focus ring to the front for autofocus.

For manual focus, slide the focus ring to the back and rotate it while checking the results in the camera display. The focus distance and depth-of-field indicators can be used to assist manual focus. Note that manual focus may not be available in all shooting modes.
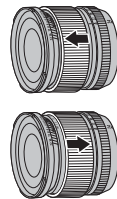
◼ The Depth-of-Field Indicator

The depth-of-field indicator shows the approximate depth of field (the distance in front of and behind the focus point that appears to be in focus).

Distance indicator

◆ The indicator is displayed in film format (🕮 37).

Before You Begin

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First Steps

Attaching the Strap

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

1 Open a strap clip.

Use the clip attaching tool to open a strap clip, making sure that the tool and clip are in the orientations shown.
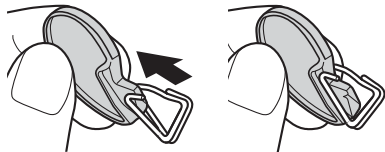
Q Keep the tool in a safe place. You will need it to open the strap clips when removing the strap.

2 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.
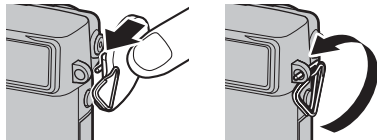
3 Pass the clip through the eyelet.

Rotate the clip fully through the eyelet until it clicks closed.
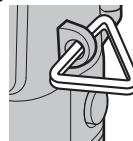
4 Attach a protective cover.

Place a protective cover over the eyelet as shown, with the black side of the cover toward the camera. Repeat Steps 1–4 for the second eyelet.
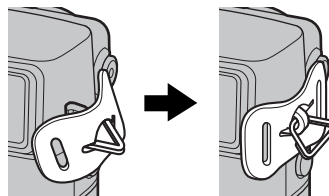
5 Insert the strap.

Insert the strap through a protective cover and strap clip.
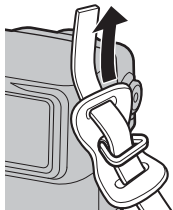
6 Fasten the strap.

Fasten the strap as shown. Repeat Steps 5–6 for the second eyelet.
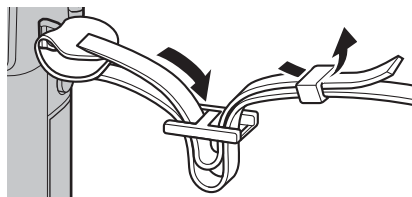
⚠ To avoid dropping the camera, be sure the strap is correctly secured.

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Attaching a Lens

Lenses attach as described below.

⬡ Care is required to prevent dust or other particles from entering the camera while attaching and removing lenses.

1 Remove the body and rear caps.

Remove the body cap from the camera and the rear cap from the lens.
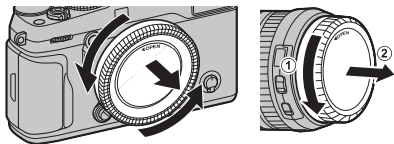
⬡ Do not touch the camera's internal parts.

2 Attach the lens.

Place the lens on mount, keeping the marks on the lens and camera aligned, and then rotate the lens until it clicks into place.
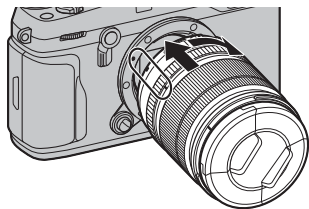
⬡ Do not press the lens release button while attaching the lens.

⬡ Removing Lenses

To remove the lens, turn the camera off, then press the lens release button and rotate the lens as shown.
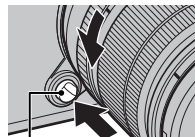
Lens release button

⬡ 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 for the FUJIFILM X-mount and the other accessories listed from page 138.

Charging the Battery

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

1 Place the battery in the charger.

Place the battery in the supplied battery charger as shown.

Charge lamp

Battery charger

Arrow
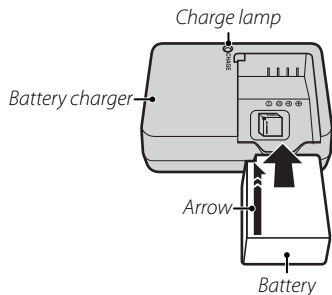
Battery

The camera uses an NP-W126/NP-W126S rechargeable 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.

2 Plug the charger in.

Plug the charger into an indoor power outlet. The charging indicator will light.

🔋 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.

3 Charge the battery.

Remove the battery when charging is complete. See the specifications (🔲 165) for charging times (note that charging times increase at low temperatures).

① Unplug the charger when it is not in use.

First Steps

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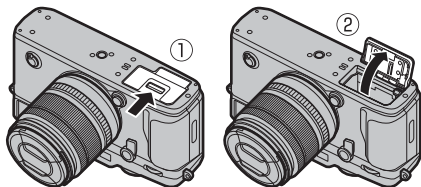
- Q Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could damage image files or memory cards.
- Q Do not use excessive force when handling the battery-chamber cover.

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.

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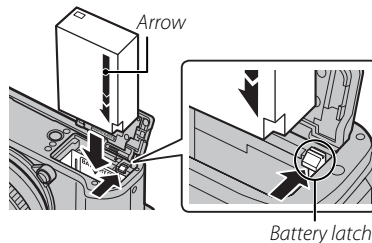
- Q Insert the battery in the orientation shown. *Do not use force or attempt to insert the battery upside down or backwards*. The battery will slide in easily in the correct orientation.

3 Close the battery-chamber cover.

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.
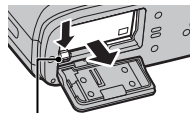
Battery latch

① The battery may become hot when used in high-temperature environments. Observe caution when removing the battery.

① **Batteries**

- Remove dirt from the battery terminals with a clean, dry cloth. Failure to observe this precaution could prevent the battery from charging.
- Do not affix stickers 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" (🕮 v).
- 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.

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Inserting Memory Cards

The camera has no internal memory; instead, pictures are stored on optional SD, SDHC, and SDXC memory cards (sold separately). The camera can be used with two cards, one in each of its two slots. Movies are recorded only to the card in the first slot, which supports UHS-II.

1 Open the memory card slot cover.
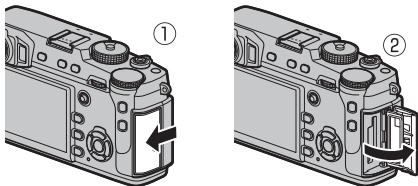
① Do not open the memory card slot cover when the camera is on. Failure to observe this precaution could damage image files or memory cards.

2 Insert a memory card.

Holding the memory card in the orientation shown, slide it in until it clicks into place at the back of the first slot (if you are using two cards, insert the second card into second slot).

Click!
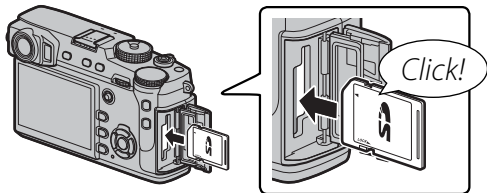
① Be sure card is in the correct orientation; do not insert at an angle or use force.

① SD/SDHC/SDXC memory cards can be locked, making it impossible to format the card or to record or delete images.

Write-protect switch
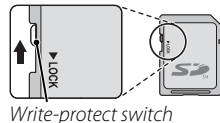
Before inserting a memory card, slide the write-protect switch to the unlocked position.

3 Close the memory card slot cover.

Removing Memory Cards

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

To remove a memory card, press it in and release it slowly. The card can then be removed by hand. When a memory card is removed, the card could be ejected too quickly. Use your finger to hold it and gently release the card.

Press center of card
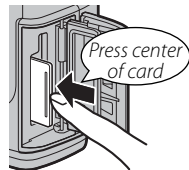
Using Two Cards

At default settings, the card in the second slot is used only if the card in the first slot is full (**SEQUENTIAL**). This can be changed using **☑ SAVE DATA SETTING** > **CARD SLOT SETTING (STILL IMAGE)** (📖 123).

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 SETTING** > **SWITCH 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.	![1 2 symbol]
BACKUP	Each picture is recorded twice, once to each card.	![1 2 symbol]
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.	![1 2 R J symbol]

🎬 **Movies**

Regardless of the option selected for **CARD SLOT SETTING (STILL IMAGE)**, movies will be recorded to the card in the first slot; if **SEQUENTIAL** is selected, movies will be recorded to the card in the first slot even after recording has moved on to the card in the second slot.

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■ **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 the first slot. 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 can not be used with *xD-Picture Cards* or **M**ulti**M**edia**C**ard (MMC) devices.

① **Memory Cards**

- *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.
- Format memory cards before first use, and be sure to reformat all memory cards after using them in a computer or other device. For more information on formatting memory cards, see page 114.
- 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 the standard dimensions of an SD/SDHC/SDXC card 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 to memory cards. Peeling labels can cause camera malfunction.
- Movie recording may be interrupted with some types of SD/SDHC/SDXC memory card. Use a UHS speed class 1 card or better for movies and burst photography.
- 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

Rotate the **ON/OFF** switch to **ON** to turn the camera on. Select **OFF** to turn the camera off.

❧ Press the ▶ button to start playback. Press the shutter button half-way to return to shooting mode.

❧ The camera will turn off automatically if no operations are performed for the length of time selected for **Z POWER MANAGEMENT** > **AUTO POWER OFF** (📖 121). 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**.

① Fingerprints and other marks on the lens or viewfinder can affect pictures or the view through the viewfinder. Keep the lens and viewfinder clean.
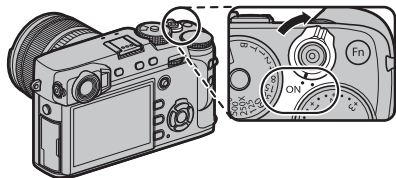
🔋 Battery Level

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

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

A language-selection dialog is displayed the first time the camera is turned on.

1 Choose a language.

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

❧ Press **DISP/BACK** to skip the current step. Any steps you skip will be displayed the next time the camera is turned on.

2 Set the date and time.
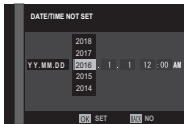
DATE/TIME NOT SET 2018 2017 Y Y.MM.DD 2016 . 1 . 1 12 : 00 AM 2015 2014 OK SET NO NO	Press the selector left or right to highlight the year, month, day, hour, or minute and press up or down to change. To change the order in which the year, month, and day are displayed, highlight the date format and press the selector up or down. Press **MENU/OK** to exit to shooting mode when settings are complete.

❧ 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.

Changing Basic Settings

To change the language or reset the clock:

1 Display the desired option.

Display the setup menu and select **☑ USER SETTING** > 言語/LANG. to change the language or **DATE/TIME** to reset the clock (📖 113).

2 Adjust settings.

To choose a language, highlight the desired option and press **MENU/OK**. To 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, then press **MENU/OK** once the clock has been set to your satisfaction.

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Display Settings

The camera is equipped with a hybrid optical/electronic viewfinder (OVF/EVF) and an LCD monitor (LCD).

Choosing a Display

Press the **VIEW MODE** button to cycle through displays as shown below.
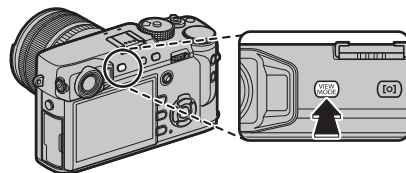
Option	Description
EYE SENSOR	Automatic display selection using eye sensor.
VIEWFINDER ONLY	Viewfinder only.
LCD ONLY	LCD monitor only.
VIEWFINDER ONLY +	Viewfinder only; eye sensor turns display on or off.
EYE SENSOR + LCD IMAGE DISP.	Putting your eye to the viewfinder during shooting turns the viewfinder on, but the LCD monitor is used for the display of images immediately after shooting.

The Eye Sensor

The eye sensor turns the viewfinder on when you put your eye to the viewfinder and turns it off when you take your eye away (note that the eye sensor may respond to objects other than your eye or to light shining directly on the sensor). If automatic display selection is enabled, the LCD monitor will turn on when the viewfinder turns off.

Eye sensor
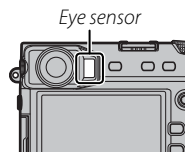
The Viewfinder Selector

Use the viewfinder selector to switch between the electronic viewfinder (EVF), the optical viewfinder (OVF), and a dual optical viewfinder/electronic range finder (ERF) display.

EVF   *OVF*   *ERF (dual display)*
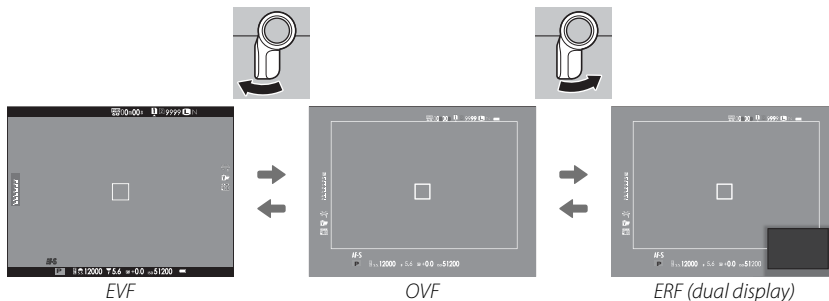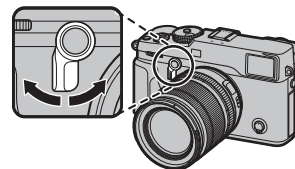
The OVF Display

Keep the selector pressed up to choose the optical viewfinder display zoom ratio.

The Hybrid (EVF/OVF/ERF) Viewfinder

The features of the different displays are described below.

Display	Description
OVF	The optical display is sharp and free of blur so that your subject's expression is always visible. In addition, the OVF shows the area just outside the frame, making it easier to compose shots on the fly. Because the viewfinder window is a slight distance from the lens, the area visible in photographs may however differ slightly from the display in the viewfinder due to parallax.
EVF	The live view display gives you a preview of the final picture (including depth of field, focus, exposure, and white balance) with exactly the same frame coverage.
ERF (dual display)	As for the optical viewfinder but with a focus preview. A magnified view of an area of the frame including the current focus position is shown at the bottom right corner of the display.

Bright Frame Simulation

The angle of view covered by the bright frame in the OVF display varies with the focal length of the lens. Pressing a function button (by default, **Fn2**) displays a bright frame simulation that shows the area covered by the bright frame at different focal lengths.

❧ Keep the viewfinder selector pressed up to toggle between the bright frames for maximum and minimum aperture.

Wide (0.36 ×)　　*Focal length*　　*Tele (0.6 ×)*
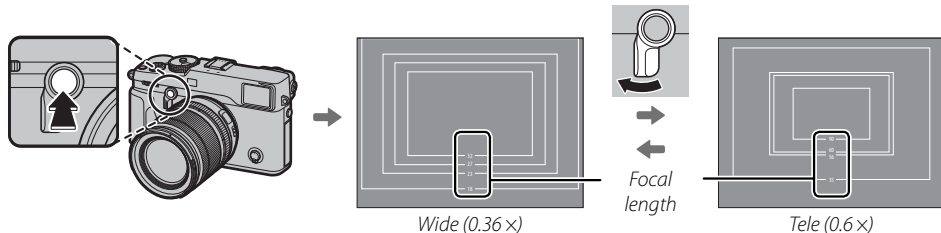
The Viewfinder Display

When **ON** is selected for **D SCREEN SETTING** > **EVF AUTOROTATE DISPLAYS** (目 117), the indicators in the viewfinder automatically rotate to match camera orientation.
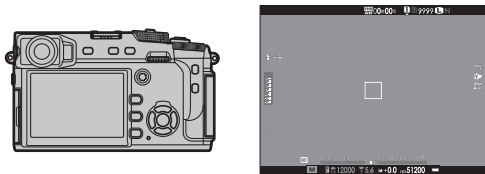
⬇ *Orientation changed from "wide" to "tall"*
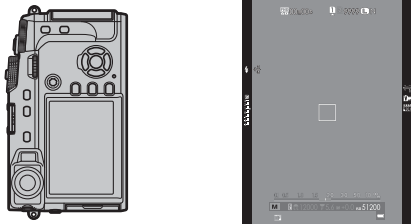
① The display in the LCD monitor is unaffected.

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.
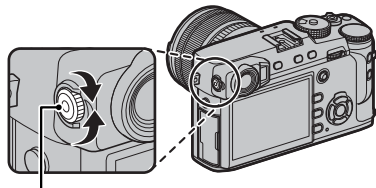
Diopter adjustment control

Adjusting Display Brightness

The brightness and hue of the viewfinder and LCD monitor can be adjusted using the options under **D SCREEN SETTING**. Choose **EVF BRIGHTNESS** or **EVF COLOR** to adjust viewfinder brightness or hue (目 117), **LCD BRIGHTNESS** or **LCD COLOR** to do the same for the LCD monitor (目 117).

First Steps

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The DISP/BACK Button

The **DISP/BACK** button controls the display of indicators in the viewfinder and LCD monitor.
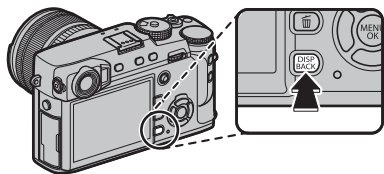
■ Shooting: Optical Viewfinder

Standard
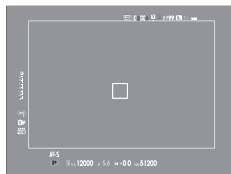
Information off

■ Shooting: Electronic Viewfinder

Standard
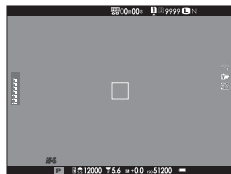
Information off

■ LCD Monitor: Shooting

Standard

Information off
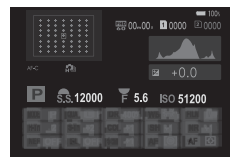
Info display

■ **Customizing the Standard Display**

To choose the items shown in the standard display:

1 Display standard indicators.

Press the **DISP/BACK** button until standard indicators are displayed.

2 Select **DISP. CUSTOM SETTING**.

Select **Z SCREEN SETTING** > **DISP. CUSTOM SETTING** (🔲 118) in the setup menu.

3 Choose a display.

Highlight **OVF** or **EVF/LCD** and press **MENU/OK**.

4 Choose items.

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

Option	OVF	EVF	Option	OVF	EVF	Option	OVF	EVF
FRAMING GUIDELINE	☐	☐	INFORMATION BACKGROUND	—	☑	DUAL IS MODE	☑	☑
ELECTRONIC LEVEL	☐	☐	Expo. Comp. (Digit)	☐	☐	WHITE BALANCE	☑	☑
FOCUS FRAME	☑	☑	Expo. Comp. (Scale)	☑	☑	FILM SIMULATION	☑	☑
AF DISTANCE INDICATOR	☐	☐	FOCUS MODE	☑	☑	DYNAMIC RANGE	☑	☑
MF DISTANCE INDICATOR	☑	☑	PHOTOMETRY	☑	☑	FRAMES REMAINING	☑	☑
HISTOGRAM	☐	☐	SHUTTER TYPE	☑	☑	IMAGE SIZE/QUALITY	☑	☑
SHOOTING MODE	☑	☑	FLASH	☑	☑	MOVIE MODE & REC. TIME	☐	☑
APERTURE/S-SPEED/ISO	☑	☑	CONTINUOUS MODE	☑	☑	BATTERY LEVEL	☑	☑

5 Save changes.

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

6 Exit the menus.

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

❧ See page 8 for the locations of these items in the displays.

First Steps

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Virtual Horizon

Selecting **ELECTRONIC LEVEL** displays a virtual horizon. The camera is level when the two lines overlap.

◆ The virtual horizon may not be displayed if the camera lens is pointed up or down.
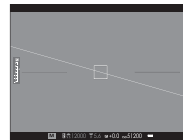
■ Viewfinder/LCD Monitor: Playback

| *Standard* | *Information off* | *Info display* | *Favorites* |
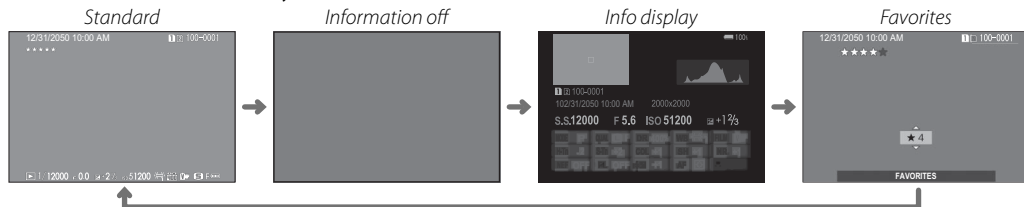
Histograms

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

No. of pixels *Shadows* *Highlights*

Pixel brightness
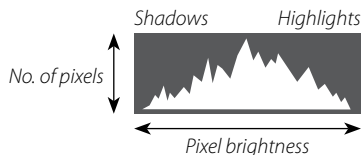
Optimal exposure: Pixels are distributed in an even curve throughout the tone range.

Overexposed: Pixels are clustered on the right side of the graph.

Underexposed: Pixels are clustered on the left side of the graph.

Basic Photography and Playback

Program AE (P)

To allow the camera to adjust both shutter speed and aperture for optimal exposure, set shutter speed and aperture to **A**. **P** will appear in the display.

Q If the subject is outside the metering range of the camera, the shutter speed and aperture displays will show "– – –".
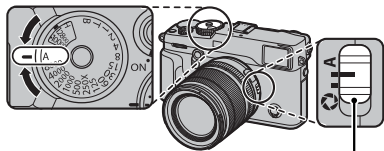
Aperture mode switch
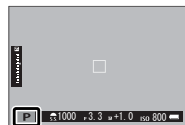
P 1000 3.3 +1.0 ISO 800

Shutter speed

P 1000 3.3 +1.0 ISO 800
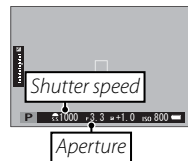
Aperture

Shutter-Priority AE (S)

To adjust shutter speed manually while letting the camera se-
lect aperture for optimal exposure, set aperture to **A** and use the
shutter speed dial (if **A** is currently selected for shutter speed,
press the dial lock release while rotating the shutter speed dial).
S will appear in the display.

Aperture mode switch

◆ Shutter speed can also be adjusted in increments of ⅓ EV by rotating
the front command dial. Shutter speed can be adjusted even while
the shutter button is pressed halfway.

① If the correct exposure can not be achieved at the selected shutter
speed, aperture will be displayed in red when the shutter button is
pressed halfway. Adjust shutter speed until the correct exposure is
achieved.

① If the subject is outside the metering range of the camera, the aper-
ture display will show "– – –".
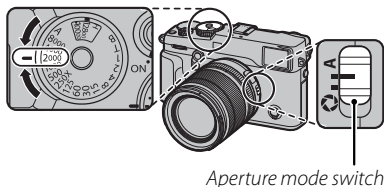
Aperture-Priority AE (A)

To adjust aperture manually while letting the camera select shutter speed for optimal exposure, rotate the shutter speed dial to **A** and adjust aperture as desired. **A** will appear in the display.

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

① If the correct exposure can not be achieved at the selected aperture, the shutter speed will be displayed in red when the shutter button is pressed halfway. Adjust aperture until the correct exposure is achieved.

① If the subject is outside the metering range of the camera, the shutter speed display will show "– – –".

Aperture mode switch
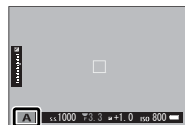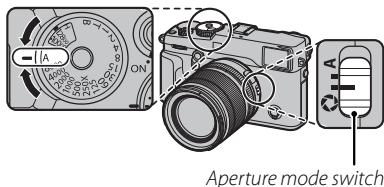
Previewing Depth of Field

When **PREVIEW DEPTH OF FIELD** is assigned to a function button (圖 51), pressing the button stops aperture down to the selected setting, allowing depth of field to be previewed in the display.

Depth of field can also be previewed using the depth-of-field indicator in the standard display (圖 33). Press **DISP/BACK** to cycle through display modes until standard indicators are displayed.

◆ Use the **AF/MF SETTING** > **DEPTH-OF-FIELD SCALE** option (圖 97) 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.

Depth of field
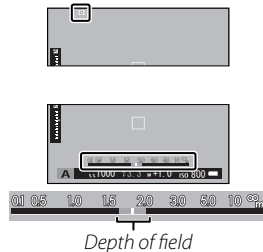
Manual Exposure (M)

Exposure can be altered from the value suggested by the camera by setting both shutter speed and aperture to values other than **A** (if **A** is currently selected for shutter speed, press the dial lock release while rotating the shutter speed dial). **M** will appear in the display.

Aperture mode switch

❖ Shutter speed can also be adjusted in increments of ⅓ EV by rotating the front command dial.
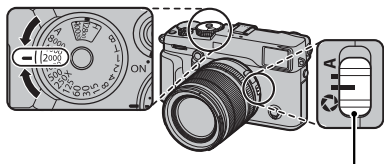
Exposure indicator
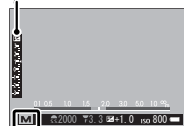
Exposure Preview
To preview exposure in the LCD monitor, select an option other than **OFF** for 🅕 **SCREEN SETTING** > **PREVIEW EXP./WB IN MANUAL MODE** (📖 117). Select **OFF** when using the flash or on other occasions on which exposure may change when the picture is taken.
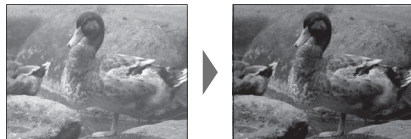
Viewing Pictures

Viewing Pictures Full Frame

Pictures can be viewed in the viewfinder or LCD monitor. When taking important pictures, take a test shot and check the results.

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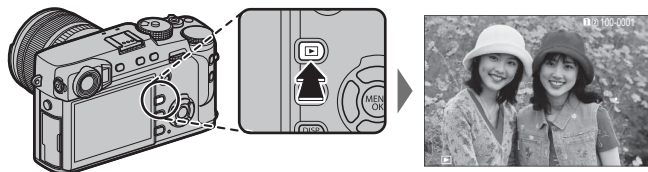
Additional pictures can be viewed by pressing the selector left or right or rotating the front command dial. Press the selector or rotate the dial right to view pictures in the order recorded, left to view pictures in reverse order. Keep the selector pressed to scroll rapidly to the desired frame.

◆ 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.

Favorites: Rating Pictures
To rate the current picture, press **DISP/BACK** and press the selector up and down to select from zero to five stars.

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 ▣ **PLAYBACK MENU** > **SWITCH SLOT** option (🔲 107).

Viewing Photo Information

The photo information display changes each time the selector is pressed up.
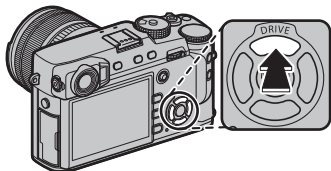
Basic data

Info display 1

12/31/2050 10:00 AM
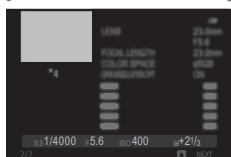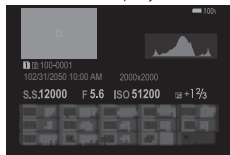
Info display 2

◆ Rotate the front command dial to view other images.
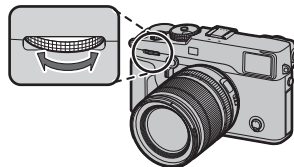
Zooming in on the Focus Point

Press the center of the rear command dial to zoom in on the focus point. Press again to return to full-frame playback.
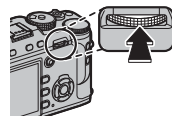
Playback Zoom

Rotate the rear command dial right to zoom in on the current picture, left to zoom out (to view multiple images, rotate the dial left when the picture is displayed full frame; 🕮 42). When the picture is zoomed in, the selector can be used to view areas of the image not currently visible in the display. To exit zoom, press **DISP/BACK**, **MENU/OK**, or the center of the rear command dial.

Zoom indicator

Navigation window shows portion of image currently displayed

◆ The maximum zoom ratio varies with image size (🕮 89). Playback zoom is not available with cropped or resized copies saved at a size of 640 (🕮 107, 108).

Multi-Frame Playback

To change the number of images displayed, rotate the rear command dial left when a picture is displayed full frame.
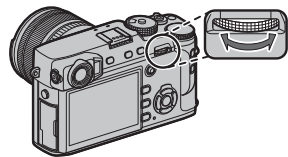
Rotate left to view more images.
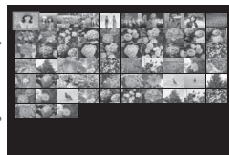
Rotate right to view fewer images.

Use the selector to highlight images and press **MENU/OK** to view the highlighted image full frame (to zoom in on the selected image, rotate the rear command dial right when the picture is displayed full frame; 📖 41). In the nine- and hundred-frame displays, press the selector up or down to view more pictures.

Deleting Pictures

To delete individual pictures, multiple selected pictures, or all pictures, press the 🗑 button when a picture is displayed full frame and choose from the options below. *Note that deleted pictures can not be recovered. Copy important pictures to a computer or other storage device before proceeding.*

Option	Description
FRAME	Press the selector left or right to scroll through pictures and press **MENU/OK** to delete the current picture (a confirmation dialog is not displayed).
SELECTED FRAMES	Highlight pictures and press **MENU/OK** to select or deselect (pictures in photobooks or print orders are shown by ▮). When the operation is complete, press **DISP/BACK** to display a confirmation dialog, then highlight **OK** and press **MENU/OK** to delete the selected pictures.
ALL FRAMES	A confirmation dialog will be displayed; highlight **OK** and press **MENU/OK** to delete all unprotected pictures. Pressing **DISP/BACK** cancels deletion; note that any pictures deleted before the button was pressed can not be recovered.

◆ Protected pictures can not be deleted. Remove protection from any pictures you wish to delete (🗐 108).
◆ Pictures can also be deleted from the menus using the ▣ **PLAY BACK MENU** > **ERASE** option (🗐 107).
◆ If a message appears stating that the selected images are part of a DPOF print order, press **MENU/OK** to delete the pictures.

Basic Movie Recording and Playback

Recording Movies

The camera can be used to record short high-definition movies. Sound is recorded in stereo via the built-in microphone; do not cover the microphone during recording.

C Movies are recorded to the card in the first slot. Be sure a card is inserted in the first slot before proceeding.

1 Press the movie-record (**Fn1**) button to start recording.
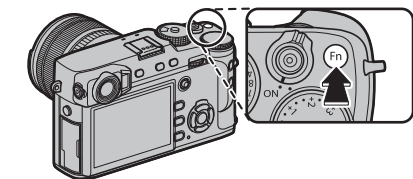
Recording indicator

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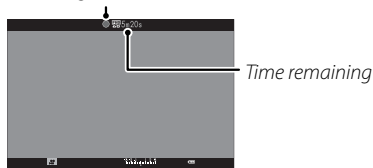
2 Press the button again to end recording. Recording ends automatically when the maximum length is reached or the memory card is full.

◆ Zoom can be adjusted while recording is in progress.
◆ Frame size and rate can be selected using B **MOVIE SETTING** > **MOVIE MODE** (P 104). Focus mode is selected using the focus mode selector (P 64); for continuous focus adjustment, select **C**, or choose **S** and enable Intelligent Face Detection (P 95). Intelligent Face Detection is not available in focus mode **M**.
◆ During recording, exposure compensation can be adjusted by up to ±2 EV.
◆ The indicator lamp lights while movies are being recorded.

- ① 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.
- ① The microphone may pick up lens noise and other sounds made by the camera during recording.
- ① Vertical or horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.

Depth of Field
Adjust aperture before recording begins. Choose low f-numbers to soften background details.

Using an External Microphone

Sound can be recorded with external microphones that connect using jacks 2.5 mm in diameter; microphones that require bus power can not be used. See the microphone manual for details.

❧ The dialog shown at right will be displayed when a microphone is connected to the microphone/ remote release connector. Press **MENU/OK** and select **MIC/ REMOTE RELEASE** > 🎙 **MIC**.

CHECK MIC/REMOTE RELEASE
SETTING
OK SET **DISP** SKIP

Basic Movie Recording and Playback

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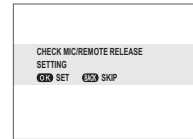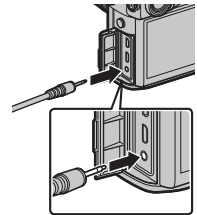
Viewing Movies

During playback, movies are displayed as shown at right. The following operations can be performed while a movie is displayed:

Movie icon

Operation	Description
Start/pause playback	**Press the selector down** to start playback. Press again to pause. While playback is paused, you can press the selector left or right to rewind or advance one frame at a time.
End playback	**Press the selector up** to end playback.
Adjust speed	**Press the selector left or right** to adjust playback speed during playback.
Adjust volume	**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 **Z SOUND SETTING** > **PLAYBACK VOLUME** (📖 116).

Progress is shown in the display during playback.

① Do not cover the speaker during playback.

Progress bar

➲ Playback Speed

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

Arrow

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The Q (Quick Menu) Button

Using the Q Button

Press **Q** for quick access to selected options.

The Quick Menu Display

At default settings, the quick menu contains the following items.
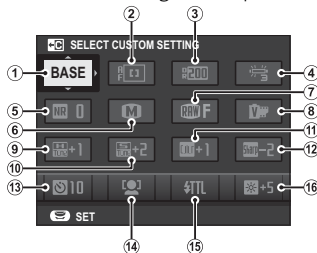
① **SELECT CUSTOM SETTING**
② **AF MODE**
③ **DYNAMIC RANGE**
④ **WHITE BALANCE**
⑤ **NOISE REDUCTION**
⑥ **IMAGE SIZE**
⑦ **IMAGE QUALITY**
⑧ **FILM SIMULATION**

⑨ **HIGHLIGHT TONE**
⑩ **SHADOW TONE**
⑪ **COLOR**
⑫ **SHARPNESS**
⑬ **SELF-TIMER**
⑭ **FACE/EYE DETECTION SETTING**
⑮ **FLASH FUNCTION SETTING**
⑯ **EVF/LCD BRIGHTNESS**

The quick menu shows the options currently selected for items ②—⑯, which can be changed as described on page 49. The **IMAGE QUALITY SETTING** > **SELECT CUSTOM SETTING** item (item ①) shows the current custom settings bank:

• **BASE**: No custom settings bank selected.
• **C 1** — **C7**: Select a bank to view the settings saved using the **IMAGE QUALITY SETTING** > **EDIT/ SAVE CUSTOM SETTING** option (🔲 83).
• **C̲1̲** — **C̲7̲**: The current custom settings bank.

Viewing and Changing Settings

1 Press **Q** to display the quick menu during shooting.

SELECT CUSTOM SETTING

BASE
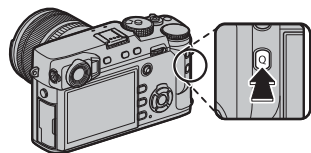
2 Use the selector to highlight items and rotate the rear command dial to change.

◆ Changes are not saved to the current settings bank (🔲 47). Settings that differ from those in the current settings bank (**C1 — C7**) are shown in red.

3 Press **Q** to exit when settings are complete.

Q

Editing the Quick Menu

To choose the items displayed in the quick menu:

1 Press and hold the **Q** button during shooting.

Q SELECT CUSTOM SETTING			
+C	AF	D-Rng	WB
NR	←	🔳	🔳
🔳 Tone	🔳 Tone	Color	Shirp
🕐	🔳	🔳	☀
OK SET **BACK** END			

2 The current quick menu will be displayed; use the selector to highlight the item you wish to change and press **MENU/OK**. You will be given the following choice of items to assign to the selected position:

- SELECT CUSTOM SETTING *
- DYNAMIC RANGE *
- WHITE BALANCE *
- NOISE REDUCTION *
- IMAGE SIZE
- IMAGE QUALITY
- FILM SIMULATION *

- GRAIN EFFECT *
- HIGHLIGHT TONE *
- SHADOW TONE *
- COLOR *
- SHARPNESS *
- SELF-TIMER
- FACE/EYE DETECTION SETTING

- PHOTOMETRY
- AF MODE
- AF-C CUSTOM SETTINGS
- FLASH FUNCTION SETTING
- FLASH COMPENSATION
- MF ASSIST
- MOVIE MODE

- MIC LEVEL ADJUSTMENT
- EVF/LCD BRIGHTNESS
- EVF/LCD COLOR
- SHUTTER TYPE
- NONE

* Stored in custom settings bank.

◈ Select **NONE** to assign no option to the selected position. When **SELECT CUSTOM SETTING** is selected, current settings are shown in the quick menu by the label **BASE**.

3 Highlight the desired item and press **MENU/OK** to assign it to the selected position.

◈ The quick menu can also be edited using **D** **BUTTON/DIAL SETTING** > **EDIT/SAVE QUICK MENU** (🔲 119).

The Q (Quick Menu) Button

The Fn (Function) Buttons

Using the Function Buttons

The roles played by each of the function buttons can be selected by pressing and holding the button. The default options are shown below:

Fn1 *button*
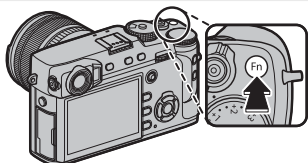
Recording movies (P 44)

Fn2 *button*
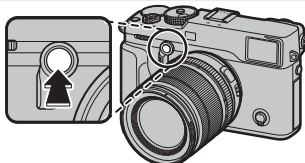
Bright frame simulation (P 30)

Fn3 *button*
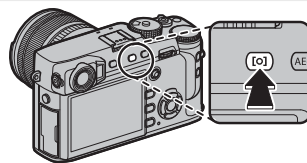
Metering (P 60)

Fn4 *button*
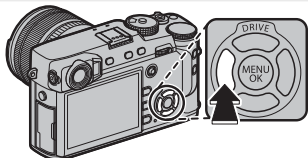
Film simulation (P 61)

Fn5 *button*
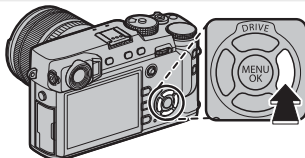
White balance (P 62)

Fn6 *button*
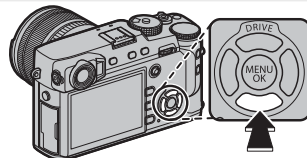
AF mode (P 67)

Center of rear command dial
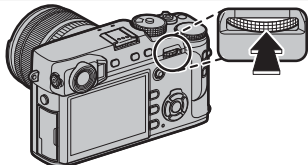
Focus check (P 65)

Assigning Roles to the Function Buttons

To assign roles to the function buttons, press and hold the **DISP**/**BACK** button until the menu below is displayed. Select buttons to choose their roles.

FUNCTION (Fn) SETTING	Fn1	
	Fn2	
	Fn3	
	Fn4	
	Fn5	
	Fn6	
	R-DIAL	
OK SET	BACK CANCEL	
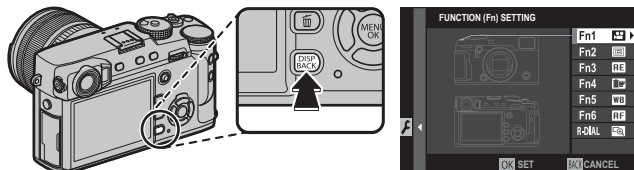
- PREVIEW DEPTH OF FIELD
- ISO AUTO SETTING
- SELF-TIMER
- AE BKT
- IMAGE SIZE
- IMAGE QUALITY
- DYNAMIC RANGE
- FILM SIMULATION

- GRAIN EFFECT
- WHITE BALANCE
- PHOTOMETRY
- AF MODE
- AF-C CUSTOM SETTINGS
- FOCUS AREA
- FOCUS CHECK
- FLASH FUNCTION SETTING

- TTL-LOCK
- MODELING FLASH
- SELECT CUSTOM SETTING
- MOVIE
- FACE/EYE DETECTION SETTING
- RAW
- APERTURE SETTING
- WIRELESS COMMUNICATION

- SHUTTER TYPE
- PREVIEW EXP./WB IN MANUAL MODE
- PREVIEW PIC. EFFECT
- BRIGHT FRAME SIMULATOR
- BRIGHT FRAME BRIGHTNESS
- NONE

◆ To disable the selected button, choose **NONE**.

◆ The roles played by the six function buttons can also be selected using **🖪 BUTTON/DIAL SETTING** > **FUNCTION (Fn) SETTING** (🔢 119).

The Fn (Function) Buttons

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> ### 📍 Viewing Function Button Options
> You can also display options for any of the function buttons by pressing and holding the button (but note that in focus mode **M**, pressing and holding function buttons will instead display MF assist options).
>
> ◆ The above does not apply to any button to which **FOCUS CHECK** is currently assigned.

■ TTL-LOCK
If **TTL-LOCK** is selected, you can press the control to lock flash output according to the option selected for 🔅 **FLASH SETTING** > **TTL-LOCK MODE** (📖 102).

■ MODELING FLASH
If **MODELING FLASH** is selected when a compatible shoe-mounted flash unit is attached, you can press the control to test-fire the flash and check for shadows and the like (modeling flash).

More on Photography and Playback

Drive Mode

Use the **DRIVE** (▲) button to choose the drive mode.

 1 Press the **DRIVE** (▲) button to display drive mode options.
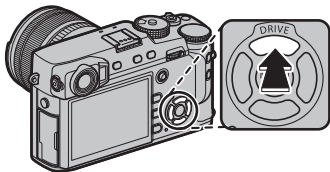
 2 Press the selector up or down to highlight a drive mode.

Icon	Drive mode	📖
◯	**STILL IMAGE**	—
📷	**CONTINUOUS**	54
🔁	**AE BKT**	
ISO	**ISO BKT**	
📷	**FILM SIMULATION BKT**	55
WB	**WHITE BALANCE BKT**	
DR	**DYNAMIC RANGE BKT**	
🔲	**MULTIPLE EXPOSURE**	57
🎨	**ADVANCED FILTER**	56

 3 Press the selector left or right to choose a setting.
 • **Burst mode (CONTINUOUS)**: Choose the frame-advance rate.
 • **ISO/WB BKT**: Choose the bracketing increment.
 • **ADVANCED FILTER**: Choose a filter effect.
 • **Other modes**: Proceed to Step 4.

 4 Press **MENU/OK**.

 5 Take pictures.
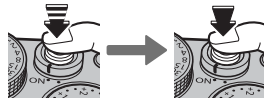
 ❧ In burst mode, pictures will be taken while the shutter button is pressed. Shooting ends when the button is released, the maximum number of pictures has been taken, or the memory card is full.

O₁ *Burst Mode (CONTINUOUS)*

Capture motion in a series of pictures.

- ❧ Frame rate varies with the subject, shutter speed, sensitivity, and focus mode and may slow as more shots are taken.
- ❧ Depending on shooting conditions, the frame rate may drop or the flash may not fire.
- ❧ Additional time may be required to record pictures when shooting ends.
- ❧ If file numbering reaches 999 before shooting is complete, the remaining pictures will be recorded to a new folder (🔲 122).
- ❧ Burst shooting may not begin if the space available on the memory card is insufficient.

🔅 **Focus and Exposure**
To vary focus and exposure with each shot, select focus mode **C**; in other modes, focus and exposure are determined by the first shot in each series.

- ① Selecting **8.0 fps** in focus mode **C** restricts the choice of focus frames (🔲 71).
- ① Exposure and focus tracking performance may vary with aperture, sensitivity, and shooting conditions.

Bracketing

Automatically vary settings over a series of pictures.

Option	Description
🏳 AE BKT	Use 🖸 **SHOOTING SETTING** > **AE BKT** to choose the bracketing amount and number of shots (📖 98). Each time the shutter button is pressed, the camera will take the specified number of shots: one using the metered value for exposure and the others over- or under-exposed by multiples of the selected bracketing amount (📖 58). ◆ Regardless of the bracketing amount, exposure will not exceed the limits of the exposure metering system.
ISO ISO BKT	Select a bracketing amount. Each time the shutter is released, the camera will take a picture at the current sensitivity (📖 59) and process it to create two additional copies, one with sensitivity raised and the other with sensitivity lowered by the selected amount (regardless of the amount selected, sensitivity will not exceed ISO 12800 or fall below ISO 200).
🎞 FILM SIMULATION BKT	Each time the shutter is released, the camera takes one shot and processes it to create copies at the settings chosen using 🖸 **SHOOTING SETTING** > **FILM SIMULATION BKT** (📖 61, 98).
📷 WHITE BALANCE BKT	Select a bracketing amount. Each time the shutter button is pressed, the camera takes three shots: one at the current white balanced setting (📖 62), one with fine-tuning increased by the selected amount, and another with fine-tuning decreased by the selected amount.
📷 DYNAMIC RANGE BKT	Each time the shutter button is pressed, the camera takes three shots with different dynamic ranges (📖 90): 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.

AdV *Advanced Filters*

Take photos with filter effects.

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)	
PARTIAL COLOR (ORANGE)	
PARTIAL COLOR (YELLOW)	Areas of the image that are the selected color are recorded in that color. All other areas of the
PARTIAL COLOR (GREEN)	image are recorded in black-and-white.
PARTIAL COLOR (BLUE)	
PARTIAL COLOR (PURPLE)	

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

  Drive Mode

More on Photography and Playback

⊞ *Multiple Exposures*

Create a photograph that combines two exposures.

1 Select ⊞ for drive mode (📖 53).

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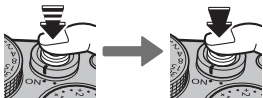
3 Press **MENU/OK**. The first shot will be shown superimposed on the view through the lens and you will be prompted to take the second shot.

NEXT
RETRY
EXIT

❧ 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.

EXIT

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

RETRY
EXIT

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Exposure Compensation

Rotate the exposure compensation dial to adjust exposure when photographing very bright, very dark, or high-contrast subjects. The effect is visible in the display.

Exposure compensation indicator
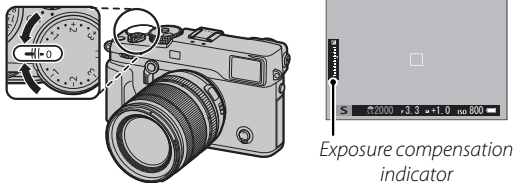
Choose positive values (+) to increase exposure

Choose negative values (−) to reduce exposure

① The amount of compensation available varies with the shooting mode.

■ C (Custom)

When the exposure compensation −dial is rotated to **C**, exposure compensation can be adjusted by rotating the front command dial.
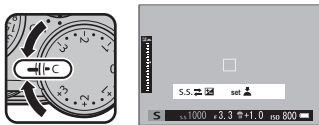
- ◈ The front command dial can be used to set exposure compensation to values between −5 and +5 EV.
- ◈ In exposure modes other than **A** (aperture-priority AE), the front command dial can be used to set shutter speed or exposure compensation. Press the dial to toggle between the two.

Choosing an Exposure Compensation Value
- **Backlit subjects**: Choose values from +⅔ EV to +1⅔ EV.

- **Highly reflective subjects or very bright scenes** (e.g., snowfields): +1 EV

- **Scenes that are mostly sky**: +1 EV
- **Spotlit subjects** (particularly if photographed against dark backgrounds): −⅔ EV
- **Subjects with low reflectivity** (pine trees or dark-colored foliage): −⅔ EV

Sensitivity

"Sensitivity" (the camera's sensitivity to light) can be adjusted by lifting and rotating the ISO dial. Higher values can be used to reduce blur when lighting is poor (note, however, that mottling may appear in pictures taken at high sensitivities).
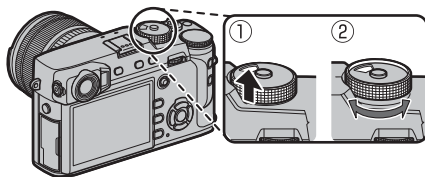
Option	Description
A (auto)	Sensitivity is automatically adjusted in response to shooting conditions according to option chosen for **⬛ SHOOTING SETTING** > **ISO AUTO SETTING**. Choose from **AUTO1**, **AUTO2**, and **AUTO3** (🖹 100).
12800–200	Adjust sensitivity manually. Selected value is shown in display.
H (51200/25600)/ L (100/125/160)	Choose for special situations. Note that mottling may appear in pictures taken at **H**, while **L** reduces dynamic range (🖹 119).

◆ Sensitivity is not reset when the camera is turned off.
◆ Use **🖸 BUTTON/DIAL SETTING** > **ISO DIAL SETTING (H)** to choose the sensitivity assigned to the **H** position.
◆ Use **🖸 BUTTON/DIAL SETTING** > **ISO DIAL SETTING (L)** to choose the sensitivity assigned to the **L** position.

Metering

Choose how the camera meters exposure. Press the function **(Fn3)** button to display the options shown below, then use the selector to highlight an option and press **MENU/OK** to select.
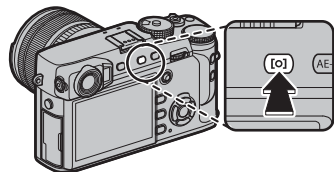
① The selected option will only take effect when 🔧 **AF/MF SETTING** > **FACE/EYE DETECTION SETTING** is off (🔲 95).

Mode	Description
📷 (MULTI)	The camera instantly determines exposure based on an analysis of composition, color, and brightness distribution. Recommended in most situations.
📷 (CENTER WEIGHTED)	The camera meters the entire frame but assigns the greatest weight to the area at the center.
[•] (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.
[ ] (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.

◆ Metering options can also be accessed using 🔲 **SHOOTING SETTING** > **PHOTOMETRY** (🔲 98).

Film Simulation

Simulate the effects of different kinds of film, including black-and-white (with or without color filters). Press the function **(Fn4)** button to display the options shown below, then use the selector to highlight an option and press **MENU/OK** to select.
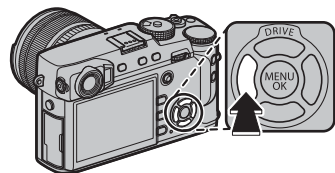
Option	Description
⬛ (PROVIA/STANDARD)	Standard color reproduction. Suited to a wide range of subjects, from portraits to landscapes.
⬛ (Velvia/VIVID)	A high-contrast palette of saturated colors, suited to nature photos.
⬛ (ASTIA/SOFT)	Enhances the range of hues available for skin tones in portraits 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.
⬛ (ACROS) *	Take black-and-white photos with rich gradation and outstanding sharpness. Available with yellow (**Ye**), red (**R**), and green (**G**) filters.
⬛ (MONOCHROME) *	Take pictures in standard black and white. Available with yellow (**Ye**), red (**R**), and green (**G**) filters.
⬛ (SEPIA)	Take pictures in sepia.

* Filters 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 (📖 91).
◆ Film simulation options can also be accessed using **🅀 IMAGE QUALITY SETTING** > **FILM SIMULATION** (📖 90).

White Balance

For natural colors, choose a white balance option that matches the light source. Press the function **(Fn5)** button to display the options shown below, then press the selector up or down to highlight an option and press **MENU/OK** to select.
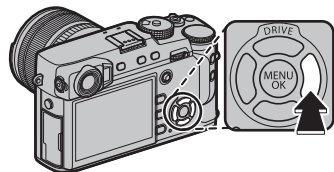
Option	Description
AUTO	White balance adjusted automatically.
⛁₁ ⛁₂ ⛁₃	Measure a value for white balance (🖳 63).
☒	Selecting this option displays a list of color temperatures (🖳 63); highlight a temperature and press **MENU/OK** to select the highlighted option and display the fine-tuning dialog.

Option	Description
☀	For subjects in direct sunlight.
☁	For subjects in the shade.
苗₁	Use under "daylight" fluorescent lights.
苗₂	Use under "warm white" fluorescent lights.
苗₃	Use under "cool white" fluorescent lights.
☀	Use under incandescent lighting.
🐟	Reduces the blue cast typically associated with underwater lighting.
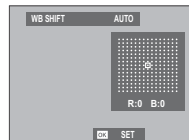
- ◆ White balance is adjusted for flash lighting only in **AUTO** and 🐟 modes. Turn the flash off using other white balance options (🖳 79).
- ◆ Results vary with shooting conditions. Play pictures back after shooting to check colors.
- ◆ White balance options can also be accessed using ⬛ **IMAGE QUALITY SETTING** > **WHITE BALANCE** (🖳 90).

◖ ◳: **Custom White Balance**

Choose ◳ 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 (P 58) and try again.
• **If "OVER" is displayed**, lower exposure compensation (P 58) and try again.

◖ ◰: **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 as shown in the following table, or choose options that differ sharply from the color of the light source to make pictures "warmer" or "colder."

◀ Choose for redder light sources   Choose for bluer light sources ▶
or "colder" pictures   or "warmer" pictures

2,000 K	*5,000 K*	*15,000 K*
Candlelight	*Direct sunlight*	*Blue sky*
Sunset/sunrise	*Shade*	

Focus Mode

Use the focus mode selector to choose how the camera focuses (note that regardless of the option selected, manual focus will be used when the lens is in manual focus mode).

- **S** (single AF): Focus locks while the shutter button is pressed halfway. Choose for stationary subjects.
- **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): Focus manually using the lens focus ring. Rotate the ring left to reduce the focus distance, right to increase. 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 focus distance, the blue bar the depth of field, or in other words the distance in front of and behind the focus point that appears to be in focus); you can also check focus visually in the viewfinder or LCD monitor. Choose for manual control of focus or in situations in which the camera is unable to focus using autofocus (🖳 78).

Reduce focus distance — *Increase focus distance*

Manual focus mode icon

Manual focus indicator

Focus distance (white line)

1.0 1.5 2.0 3.0 5.0

Depth of field (blue bar)
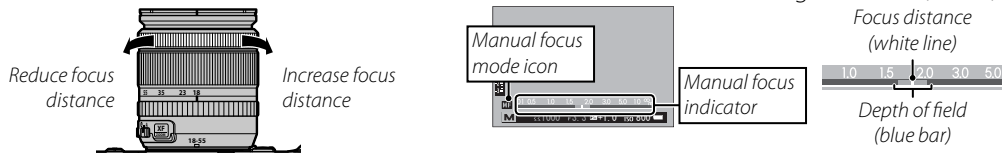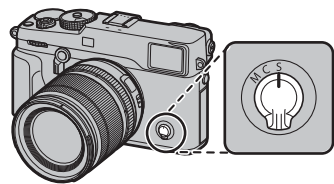
- ◆ Use **D BUTTON/DIAL SETTING** > **FOCUS RING** (🖳 120) to reverse the direction of rotation of the focus ring.
- ◆ To use autofocus to focus on the subject in the selected focus area (🖳 68), press the **AF-L** button (the size of the focus area can be chosen with the rear command dial). In manual 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** (🖳 96).

- ◆ The camera can show focus distance in meters or feet. Use **D SCREEN SETTING** > **FOCUS SCALE UNITS** (📖 118) to choose the units used.
- ◆ If **ON** is selected for **AF/MF SETTING** > **PRE-AF** (📖 95), 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

🔍 Checking Focus

To zoom in on the current focus area (📖 68) for precise focus, press the center of the rear command dial. Press the center of the rear command dial again to cancel zoom. In manual focus mode, zoom can be adjusted by rotating the rear command dial when **STANDARD** or **FOCUS PEAK HIGHLIGHT** is selected for **AF/MF SETTING** > **MF ASSIST** (📖 96), while if **ON** is selected for **AF/MF SETTING** > **FOCUS CHECK** (📖 96), the camera will automatically zoom in on the selected focus area when the focus ring is rotated. Focus zoom is not available in focus mode **C** or when **AF/MF SETTING** > **PRE-AF** (📖 95) is on or an option other than ▪ **SINGLE POINT** is selected for **AF MODE** (📖 67).

- ◆ Focus area selection using the focus stick is available during focus zoom.
- ◆ Use **D BUTTON/DIAL SETTING** > **FUNCTION (Fn) SETTING** to change the function performed by the center of the command dial or assign its default function to other controls (📖 51).

■ MF Assist

The 🎛 **AF/MF SETTING** > **MF ASSIST** (📖 96) 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 three parts of the split image are correctly aligned.
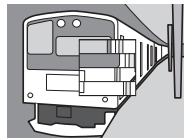
Autofocus Options (AF Mode)

To choose the AF mode for focus modes **S** and **C**, press the function button (**Fn6**) to display the options shown below, then press the selector up or down to highlight an option and press **MENU/OK** to select.

- N **SINGLE POINT**: The camera focuses on the subject in the selected focus point (E 69). The number of focus points available can be selected using B **AF/MF SETTING** > **NUMBER OF FOCUS POINTS** (E 94). Use for pin-point focus on a selected subject.

- O **ZONE**: The camera focuses on the subject in the selected focus zone (E 70). Focus zones include multiple focus points (7×7, 5×5, or 3×3), making it easier to focus on subjects that are in motion.

- P **WIDE/TRACKING**: In focus mode **C**, the camera tracks focus on the subject in the selected focus point while the shutter-release button is pressed halfway (E 71). 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.

R AF mode options can also be accessed using B **AF/MF SETTING** > **AF MODE** (E 93).
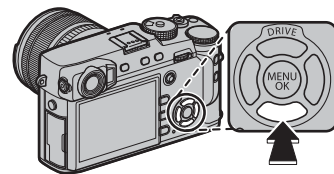
Focus-Point Selection

Use the focus stick (focus lever) to choose a focus point for autofocus. The procedure for selecting the focus point varies with the option chosen for AF mode (🔲 67).

❧ Focus-area selection can also be used to choose the focus point for manual focus and focus zoom.

Tilt the focus stick to position the focus frame, or press the center of the stick to return to the center focus point.

Focus frame
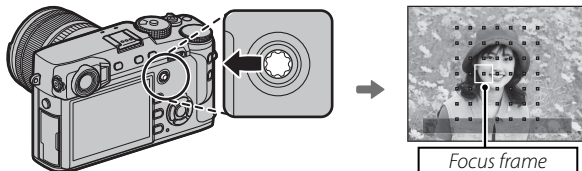
🔲 **Available Focus Points**
Fewer focus points are available for intelligent hybrid AF, which combines phase-detection with TTL contrast-detect AF.

TTL contrast-detect

Intelligent hybrid AF (TTL contrast-detect AF + phase-detection AF)
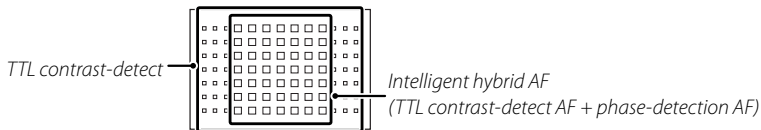
The Focus Point Display

The focus stick (focus lever) can be used to display available focus points.

❧ Focus-area selection can also be accessed using ⬛ **AF/MF SETTING** > **FOCUS AREA** (🔲 93).

■ Single Point AF

Press the center of the focus stick to display the focus points ("□") and focus frame. Use the stick to position the focus frame over the desired focus point, or press the center of the stick to return to the center point.

Focus point
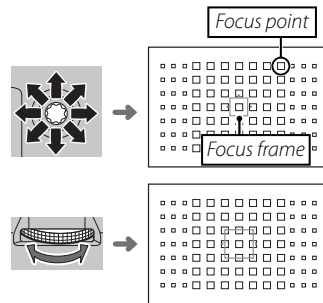
Focus frame

To choose the size of the focus frame, rotate the rear command dial. Rotate the dial left to reduce the frame by up to 50%, right to enlarge it by up to 150%, or press the center of the dial to restore the frame to its original size. Press **MENU/OK** to put your selection into effect.

■ **Zone AF**

Press the center of the focus stick to display the focus zone. Use the stick to position the zone or press the center of the stick to return the zone to the center of the display.

Focus zone
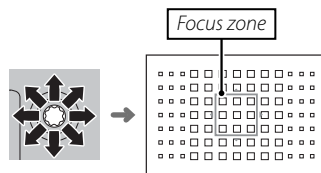
To choose the number of focus frames in the zone, rotate the rear command dial. Rotate the dial right to cycle through zone sizes in the order 3×3, 5×5, 7×7, 3×3…, left to cycle through zone sizes in reverse order, or press the center of the dial to select a zone size of 3×3. Press **MENU/OK** to put your selection into effect.
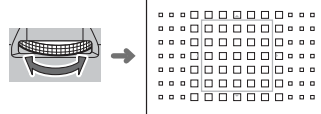
■ **Tracking (Focus Mode C Only)**

Press the center of the focus stick to display the focus frame. Use the stick to position the focus frame, or press the center of the stick to return the frame to the center of the display. Press **MENU/OK** to put your selection into effect. The camera will track focus on the subject while the shutter button is pressed halfway.
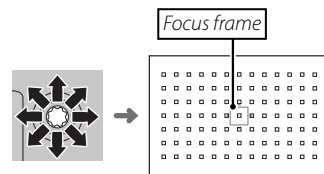
Focus frame

R Manual focus-frame selection is not available when wide/tracking is selected in focus mode **S**.

Burst Mode Focus-Frame Selection

When continuous high-speed (**8.0 fps**) is selected for drive mode, the number of focus frames available in focus mode **C** drops.
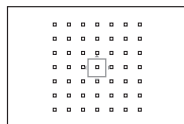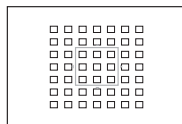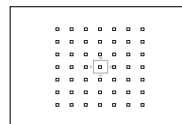
Single point	*Zone*	*Wide/Tracking*

Long Time-Exposures (T/B)

Select a shutter speed of **T** (time) or **B** (bulb) for long time-exposures.

- ◆ Use of a tripod is recommended to prevent the camera from moving during the exposure.
- ◆ To reduce "noise" (mottling) in long time-exposures, select **ON** for 🖾 **IMAGE QUALITY SETTING** > **LONG EXPOSURE NR** (🔲 91). Note that this may increase the time needed to record images after shooting.

Time (T)

1 Rotate the shutter speed dial to **T**.

2 Rotate the front command dial to choose a shutter speed.
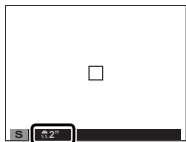
3 Press the shutter button all the way down to take a picture at the selected shutter speed. A count-down timer will be displayed while the exposure is in progress.

Bulb (B)

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.

Using a Remote Release

An optional RR-90 remote release can be used for long time-exposures. See the manual provided with the RR-90 for more information.
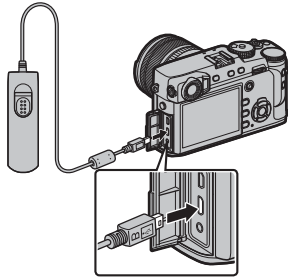
Third-Party Remote Releases

Electronic releases from third-party suppliers can be connected via the microphone/remote release connector. A confirmation dialog will be displayed when a third-party release is connected; press **MENU/OK** and select **REMOTE** for **MIC/REMOTE RELEASE**.
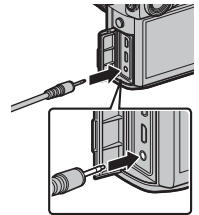
CHECK MIC/REMOTE RELEASE SETTING
OK SET **BACK** SKIP

The Self-Timer

Use the timer for self-portraits or to prevent blur caused by camera shake.

1 Press **MENU/OK** in shooting mode to display the shooting menu.
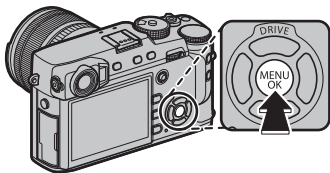
2 Select the **☑ SHOOTING SETTING** tab (🔲 88), then highlight **SELF-TIMER** and press **MENU/OK**.

3 Press the selector up or down to highlight the desired option and press **MENU/OK** to select.

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.
⏱ 10 SEC	The shutter is released ten seconds after the shutter button is pressed. Use for photographs in which you wish to appear yourself.
OFF	Self-timer off.

4 Press the shutter button halfway to focus.

- ① Stand behind the camera when using the shutter button. Standing in front of the lens can interfere with focus and exposure.

5 Press the shutter button the rest of the way down to start the timer. The display in the monitor shows the number of seconds remaining until the shutter is released. To stop the timer before the picture is taken, press **DISP/BACK**.
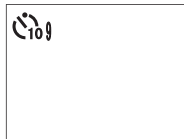
The self-timer lamp on the front of the camera will blink immediately before the picture is taken. If the two-second timer is selected, the self-timer lamp will blink as the timer counts down.
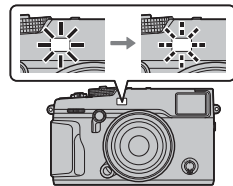
❧ The self-timer turns off automatically when the camera is turned off.

Interval Timer Photography

Follow the steps below to configure the camera to take photos automatically at a preset interval.

1 Press **MENU/OK** in shooting mode to display the shooting menu. Select the **⚙ SHOOTING SETTING** tab (📖 88), then highlight **INTERVAL TIMER SHOOTING** and press **MENU/OK**.
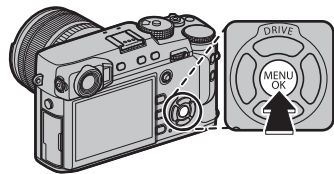
2 Use the selector to choose the interval and number of shots. Press **MENU/OK** to proceed.
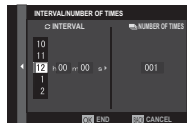
3 Use the selector to choose the starting time and then press **MENU/OK**. Shooting will start automatically.

① Interval timer photography can not 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 an optional AC-9V AC power adapter and CP-W126 DC coupler.
◆ 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.

Focusing and Taking Pictures

Press the shutter button halfway to focus and the rest of the way down to shoot.

1 Focus.

Frame the picture with your subject in the center of the display and press the shutter button halfway to focus.

❧ If the subject is poorly lit, the AF-assist illuminator may light (国 95).

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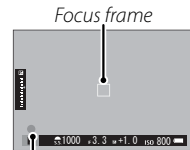
Focus frame

Focus indicator

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

2 Shoot.

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

Focus/Exposure Lock

To compose photographs with off-center subjects:

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

◆ Focus and exposure can also be locked with the **AF-L** and **AE-L** buttons, respectively (if **AE/AF LOCK** is selected for **ƨ BUTTON/DIAL SETTING** > **AF-LOCK MODE**, pressing the **AF-L** button will lock both focus and exposure; 📖 120).

2 Recompose: Keep the shutter button pressed halfway or keep the **AF-L** or **AE-L** button pressed.

◆ Focus and/or exposure will remain locked while the **AF-L** or **AE-L** button is pressed, whether or not the shutter button is pressed halfway. If **AE&AF ON/OFF SWITCH** is selected for **ƨ BUTTON/DIAL SETTING** > **AE/AF-LOCK MODE** (📖 120), focus and/or exposure lock when the button is pressed and remain locked until the button is pressed again.

3 Shoot: Press the button all the way down.

◆ The roles of the **AE-L** and **AF-L** buttons can be reversed using **ƨ BUTTON/DIAL SETTING** > **AE-L/AF-L BUTTON SETTING** (📖 120).

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.

• Fast-moving subjects.
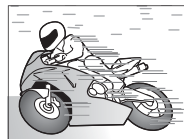
• Subjects photographed through a window or other reflective object.
• Dark subjects and subjects that absorb rather than reflect light, such as hair or fur.
• Insubstantial subjects, such as smoke or flame.
• Subjects that show little contrast with the background (for example, subjects in clothing that is the same color as 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).

Flash Photography

Use an optional flash unit for additional lighting when shooting at night or indoors under low light.

1 Remove the hot shoe cover and slide the flash onto the hot shoe.
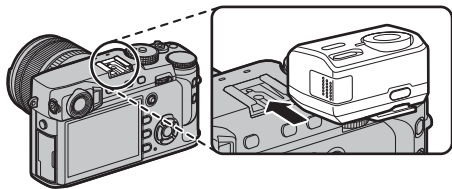
2 Turn the flash on.
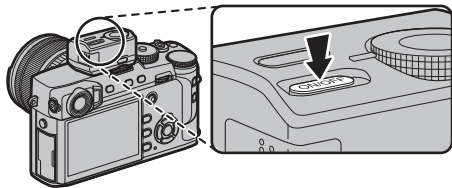
◆ For more information, see the documentation provided with the flash unit.

◆ The options available vary with the flash unit. See "Using Shoe-Mounted Flash Units" (📖 143) for more information.

3 Select **FLASH FUNCTION SETTING** in the **🔦 FLASH SETTING** menu.
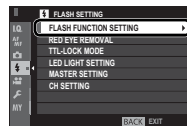
① If the flash is not raised, settings will be adjusted for units connected via the sync terminal (📖 144).

4 Highlight items using the selector and rotate the rear command dial to change the highlighted setting.
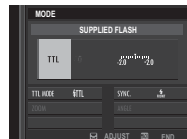
5 Press **DISP/BACK** to put the changes into effect.

① Depending on the distance to the subject, some lenses may cast shadows in photos taken with the flash.

① The flash will not fire at some settings, for example when the electronic shutter is used.

① 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.

Red-Eye Removal

Red-eye removal is available when an option other than **OFF** is selected for **F 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 ⅟₂₅₀ s or slower.

Optional Flash Units

The camera can be used with optional FUJIFILM shoe-mounted flash units (📖 140).

Optional Flash Units

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

The Sync Terminal

Use the sync terminal to connect flash units that require a sync cable.
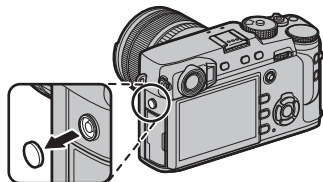
Recording Pictures in RAW Format

To record raw, unprocessed data from the camera image sensor, select a **RAW** option for image quality in the shooting menu as described below. JPEG copies of RAW images can be created using **□ PLAY BACK MENU** > **RAW CONVERSION**, or RAW images can be viewed on a computer using the RAW FILE CONVERTER EX 2.0 application (圖 82, 130).

1 Press **MENU/OK** in shooting mode to display the shooting menu. Select the **回 IMAGE QUALITY SETTING** tab (圖 88), then highlight **IMAGE QUALITY** (圖 89) and press **MENU/OK**.

2 Highlight an option and press **MENU/OK**. Select **RAW** to record only RAW images, or **FINE+RAW** or **NORMAL+RAW** to record both JPEG copy together with the RAW images. **FINE+RAW** uses lower JPEG compression ratios for higher-quality JPEG images, while **NORMAL+RAW** uses 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 (圖 51). 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.

Creating JPEG Copies of RAW Pictures

RAW pictures store information on camera settings separately from the data captured by the camera image sensor. Using **▣ PLAY BACK MENU** > **RAW CONVERSION** (🔲 107), you can create JPEG copies of RAW pictures using different options for the settings listed below. The original image data are unaffected, allowing a single RAW image to be processed in a multitude of different ways.

1 Press **MENU/OK** during playback to display the playback menu, then press the selector up or down to highlight **▣ PLAY BACK MENU** > **RAW CONVERSION** (🔲 106) and press **MENU/OK** to display the settings listed in the table at right.

➤ These options can also be displayed by pressing **Q** button during playback.

2 Press the selector up or down to highlight a setting and press the selector right to select. Press the selector up or down to highlight the desired option and press **MENU/OK** to select and return to the settings list. Repeat this step to adjust additional settings.
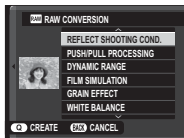
3 Press the **Q** button to preview the JPEG copy and press **MENU/OK** to save.

Setting	Description
REFLECT SHOOTING COND.	Create a JPEG copy using the settings in effect at the time the photo was taken.
PUSH/PULL PROCESSING	Adjust exposure by −1 EV to +3 EV in increments of ⅓ EV.
DYNAMIC RANGE	Enhance details in highlights for natural contrast (🔲 90).
FILM SIMULATION	Simulate the effects of different types of film (🔲 61).
GRAIN EFFECT	Add a film grain effect (🔲 90).
WHITE BALANCE	Adjust white balance (🔲 62).
WB SHIFT	Fine-tune white balance (🔲 62).
HIGHLIGHT TONE	Adjust highlights (🔲 91).
SHADOW TONE	Adjust shadows (🔲 91).
COLOR	Adjust color density (🔲 91).
SHARPNESS	Sharpen or soften outlines (🔲 91).
NOISE REDUCTION	Process the copy to reduce mottling (🔲 91).
LENS MODULATION OPTIMIZER	Improve definition by adjusting for diffraction and the slight loss of focus at the periphery of the lens (🔲 91).
COLOR SPACE	Choose the color space used for color reproduction (🔲 91).

RAW CONVERSION

REFLECT SHOOTING COND.
PUSH/PULL PROCESSING
DYNAMIC RANGE
FILM SIMULATION
GRAIN EFFECT
WHITE BALANCE

CREATE   CANCEL

Saving Settings

Save up to 7 sets of custom camera settings for commonly-encountered situations. Saved settings can be recalled using **☒ IMAGE QUALITY SETTING** > **SELECT CUSTOM SETTING** (🕮 92).

1 Press **MENU/OK** in shooting mode to display the shooting menu. Select the **☒ IMAGE QUALITY SETTING** tab (🕮 88), then highlight **EDIT/SAVE CUSTOM SETTING** (🕮 92) and press **MENU/OK**.
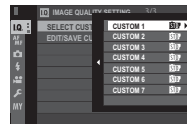
2 Highlight a custom settings bank and press **MENU/OK** to select. Adjust the following as desired and press **DISP/BACK** when adjustments are complete: **DYNAMIC RANGE**, **FILM SIMULATION**, **GRAIN EFFECT**, **WHITE BALANCE**, **HIGHLIGHT TONE**, **SHADOW TONE**, **COLOR**, **SHARPNESS**, and **NOISE REDUCTION**.
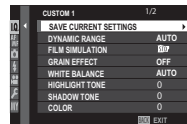
3 A confirmation dialog will be displayed; highlight **OK** and press **MENU/OK**.
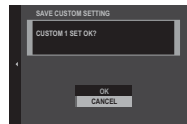
- ◆ To replace the settings in the selected bank with the settings currently selected with the camera, select **SAVE CURRENT SETTINGS** and press **MENU/OK**.
- ◆ To store current camera settings in the selected bank, highlight **SAVE CURRENT SETTINGS** in Step 2 and press **MENU/OK**. Banks can be renamed using **EDIT CUSTOM NAME**.
- ◆ To restore default settings for the current bank, select **RESET**.

Using a Mount Adapter

When M-mount lenses are attached using an optional **FUJIFILM M MOUNT ADAPTER**, the camera processes pictures as they are taken to maintain image quality and correct for a variety of effects.

Pressing the function button on the mount adapter displays ⦿ **MOUNT ADAPTOR SETTING** options.

- ◆ Mount adapter settings can also be accessing using ◘ **SHOOTING SETTING** > **MOUNT ADAPTER SETTING** (▣ 100).
- ◆ Before checking focus, set the focus mode selector to **M** (▣ 64).

Bright Frame Brightness

Adjust the brightness of the bright frame in the OVF display. Use the **BRIGHT FRAME BRIGHTNESS** option to adjust the brightness of the bright frame in the OVF display.

Lens Registration

■ 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 ADAPTOR SETTING** menu.

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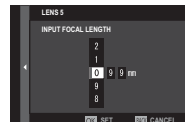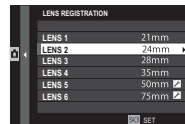
■ Distortion Correction

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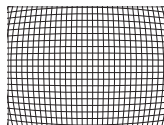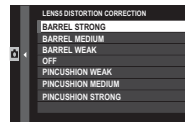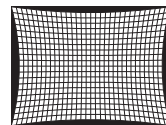
Barrel distortion   *Pincushion distortion*

- ◆ To determine the amount required, adjust distortion correction while taking photos of graph paper or other objects featuring repeating vertical and horizontal lines, such as the windows in a high-rise.

■ **Color Shading Correction**

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

R:0 B:0
NEXT SET
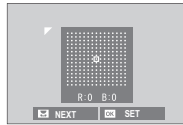
To use color shading correction, follow the steps below.

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, 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 pe-

SET CANCEL

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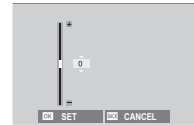
❧ To determine the amount required, adjust peripheral illumination correction while taking photos of blue sky or a sheet of gray paper.

More on Photography and Playback

85

PhotoBook Assist

Create books from your favorite photos.

Creating a PhotoBook

1 Select **NEW BOOK** for **▣ PLAY BACK MENU** > **PHOTOBOOK ASSIST** (🕮 106).

2 Scroll through the images and press the selector up to select or deselect. To display the current image on the cover, press the selector down. Press **MENU/OK** to exit when the book is complete.

- ◆ Neither photographs 640 or smaller nor movies can be selected for photobooks.
- ◆ The first picture selected becomes the cover image. Press the selector down to select a different image for the cover.

3 Highlight **COMPLETE PHOTOBOOK** and press **MENU/OK** (to select all photos or all photos matching the specified search conditions for the book, choose **SELECT ALL**). The new book will be added to the list in the photobook assist menu.

- ① Books can contain up to 300 pictures.
- ① Books that contain no photos are automatically deleted.

Viewing Photobooks

Highlight a book in the photobook assist menu and press **MENU/OK** to display the book, then press the selector left or right to scroll through the pictures.

Editing and Deleting Photobooks

Display the photobook and press **MENU/OK**. The following options will be displayed; select the desired option and follow the on-screen instructions.

- **EDIT**: Edit the book as described in "Creating a PhotoBook" (🕮 86).
- **ERASE**: Delete the book.

Photobooks

Photobooks can be copied to a computer using MyFinePix Studio software (🕮 130).

Menus

Using the Menus: Shooting Mode

The shooting menu is used to adjust settings for a wide range of shooting conditions. Frequently-used options can be saved to a personalized custom menu ("my menu").

Using the Shooting Menu

1 Press **MENU/OK** in shooting mode to display the menus.
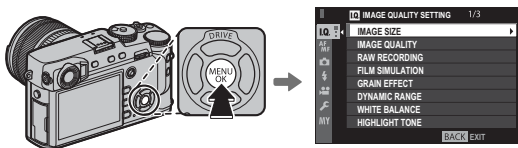
IQ IMAGE QUALITY SETTING 1/3	
IMAGE SIZE	▶
IMAGE QUALITY	
RAW RECORDING	
FILM SIMULATION	
GRAIN EFFECT	
DYNAMIC RANGE	
WHITE BALANCE	
HIGHLIGHT TONE	
BACK EXIT	

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

IQ IMAGE QUALITY SETTING 1/3	
IMAGE SIZE	
IMAGE QUALITY	
RAW RECORDING	
FILM SIMULATION	
GRAIN EFFECT	
DYNAMIC RANGE	
WHITE BALANCE	
HIGHLIGHT TONE	
BACK EXIT	

Tab

3 Press the selector down to highlight the tab (IQ, AF/MF, 📷, ⚡, 🎬, or MY) containing the desired item.

4 Press the selector right to place the cursor in the menu.

5 Press the selector up or down to highlight the desired item.

6 Press the selector right to view options for the highlighted item.

7 Press the selector up or down to highlight the desired option.

8 Press **MENU/OK** to select the highlighted option.

9 Press **DISP/BACK** to return to the shooting display.

❖ Use the front command dial to scroll through the menus a page at a time.

IMAGE QUALITY SETTING

To adjust shooting settings that affect image quality, press **MENU/OK** in the shooting display and select the **IMAGE QUALITY SETTING**) tab (P 88).

```
        IMAGE QUALITY SETTING    1/3
I.Q.    IMAGE SIZE
        IMAGE QUALITY
        RAW RECORDING
        FILM SIMULATION
        GRAIN EFFECT
        DYNAMIC RANGE
        WHITE BALANCE
MY      HIGHLIGHT TONE
                           BACK  EXIT
```
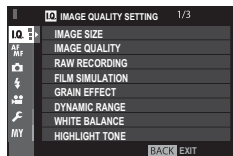
IMAGE SIZE

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

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 **H**igh **D**efinition (HD) devices. Pictures with an aspect ratio of 1:1 are square.

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

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

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.

Menus

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 or other software that supports "lossless" RAW compression (国 130).

FILM SIMULATION

Simulate the effects of different types of film (国 61).

GRAIN EFFECT

Add a film grain effect.

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 and shadows 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.

◆ If **AUTO** is selected, the camera will automatically choose either ᴿ100 **100%** or ᴿ200 **200%** according to the subject and shooting conditions. Shutter speed and aperture will be displayed when the shutter button is pressed halfway.

◆ ᴿ200 **200%** is available at sensitivities of ISO 400 and above, ᴿ400 **400%** at sensitivities of ISO 800 and above.

WHITE BALANCE

Adjust colors to match the light source (国 62).

HIGHLIGHT TONE

Adjust the appearance of highlights.

SHADOW TONE

Adjust the appearance of shadows.

COLOR

Adjust color density.

SHARPNESS

Sharpen or soften outlines.

NOISE REDUCTION

Reduce noise in pictures taken at high sensitivities.

LONG EXPOSURE NR

Select **ON** to reduce mottling in long time-exposures (P 72).

LENS MODULATION OPTIMIZER

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

COLOR SPACE

Choose the gamut of colors available for color reproduction.

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

Menus

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 (🔲 88).

2 Highlight **PIXEL MAPPING** and press **MENU/OK** to perform pixel mapping.

- ① Results are not guaranteed.
- ① Be sure the battery is fully charged before beginning pixel mapping.
- ① Pixel mapping is not available when the camera temperature is elevated.
- ① Processing may take a few seconds.

SELECT CUSTOM SETTING

Recall settings saved with **EDIT/SAVE CUSTOM SETTING**.

EDIT/SAVE CUSTOM SETTING

Save settings (🔲 83).

AF/MF SETTING

To adjust focus settings, press **MENU/OK** in the shooting display and select the **▥** (**AF/MF SETTING**) tab (🔲 88).

	AF/MF SETTING	1/2
I.Q.	FOCUS AREA	
AF MF	AF MODE	
☐	AF-C CUSTOM SETTINGS	
↯	AF POINT DISPLAY ▥ ▢	
▦	NUMBER OF FOCUS POINTS	
✔	PRE-AF	
MY	AF ILLUMINATOR	
	FACE/EYE DETECTION SETTING	
	BACK EXIT	
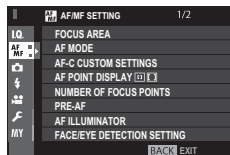
FOCUS AREA

Choose the focus area (🔲 69). Focus-area selection can also be used to choose the focus point for manual focus and focus zoom.

AF MODE

Choose the AF mode for focus modes **S** and **C** (🔲 67).

Menus

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AF-C CUSTOM SETTINGS

Select focus-tracking options for focus mode **C**. Choose from Sets 1–5 according to your subject.
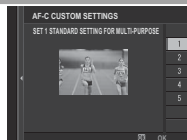
Option	Description
SET 1 MULTI PURPOSE	A standard tracking option that works well with the typical range of moving subjects.
SET 2 IGNORE OBSTACLES & CONTINUE TO TRACK SUBJECT	The focus system attempts to track the chosen subject. Choose with subjects that are hard to keep in the focus area or if other 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.

AF POINT DISPLAY 回 口

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

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-release button is not pressed halfway. Note that this increases the drain on the battery.

AF ILLUMINATOR

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

- ① The camera may be unable to focus using the AF-assist illuminator in some cases. If the camera is unable to focus in macro mode, try increasing the distance to the subject.
- ① 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.

- ◆ 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.

- ① In some modes, the camera may set exposure for the frame as a whole rather than the portrait subject.
- ① 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.

Menus

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. Both standard and focus peaking MF assist options are supported. 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. Focus zoom is not available when **ZONE** or **WIDE/TRACKING** is selected for **AF MODE**. The zoom ratio (2.5× — 6×) can be selected using the rear command dial.

MF ASSIST

Choose how focus is displayed in manual focus mode (🗐 66).

Option	Description
STANDARD	Focus is displayed normally (focus peaking and digital split image are not available).
DIGITAL SPLIT IMAGE	A black-and-white (**MONOCHROME**) or color (**COLOR**) split-image display.
FOCUS PEAK HIGHLIGHT	The camera heightens high-contrast outlines. Choose a color and peaking level.

FOCUS CHECK

If **ON** is selected, the camera will automatically zoom in on the view through the lens when the focus ring is rotated in manual focus mode (🗐 65).

INTERLOCK SPOT AE & FOCUS AREA

Select **ON** to meter the current focus frame when **SINGLE POINT** is selected for **AF MODE** (🗐 67) and **SPOT** is selected for **PHOTOMETRY** (🗐 60).

INSTANT AF SETTING

Choose how the camera focuses when the **AF-L** button is pressed in manual focus mode (🗐 64).

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.
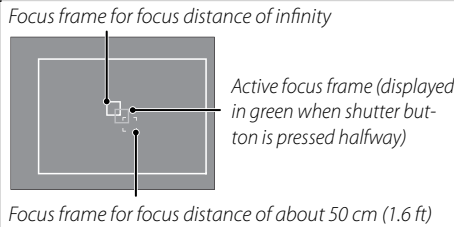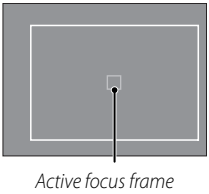
RELEASE/FOCUS PRIORITY

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.

CORRECTED AF FRAME

If **ON** is selected, a second focus frame for focus distances of about 50 cm (1.6 ft) will be added to the display in the optical view-finder. The active focus frame is displayed in green when the shutter button is pressed halfway.

	ON	OFF
Focus frame	*Focus frame for focus distance of infinity* *Active focus frame (displayed in green when shutter button is pressed halfway)* *Focus frame for focus distance of about 50 cm (1.6 ft)*	*Active focus frame (displayed in green when shutter button is pressed halfway)*

Menus

B *SHOOTING SETTING*

To adjust shooting options, press **MENU/OK** in the shooting display and select the
B (**SHOOTING SETTING**) tab (E 88).
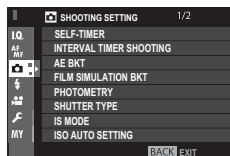
SELF-TIMER

Take pictures with the self-timer (E 74).

INTERVAL TIMER SHOOTING

Adjust settings for interval timer photography (E 75).

AE BKT

Adjust exposure bracketing settings.

Option	Description
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.

FILM SIMULATION BKT

Choose film types for film simulation bracketing (E 55, 61).

PHOTOMETRY

Choose how the camera meters exposure (E 60).

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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.
MS MECHANICAL + ES ELECTRONIC	The camera chooses the shutter type according to shooting conditions.

- ◆ If **ES ELECTRONIC SHUTTER** or **MS MECHANICAL + ES ELECTRONIC** is selected, shutter speeds faster than 1/8,000 s can be chosen by rotating the shutter speed dial to 8000 and then rotating the front command dial.
- ◆ When the electronic shutter is used, shutter speed and sensitivity are restricted to values of 1/32,000–1 s and ISO 12800–200 respectively, and long exposure noise reduction has no effect. In burst mode, focus and exposure are fixed at the values for the first shot in each burst.
- ⓘ Distortion may be visible in shots of moving subjects with electronic shutter, while banding and fog may occur in shots taken under fluorescent lights or other flickering or erratic illumination. When taking pictures with the shutter muted, respect your subjects' image rights and right to privacy.

IS MODE

Reduce blur. This option is available only with lenses that support image stabilization.

Option	Description
◉₁ CONTINUOUS	Image stabilization on.
◉₂ SHOOTING ONLY	Image stabilization enabled only when the shutter button is pressed halfway or the shutter is released.
OFF	Image stabilization off; ◈ appears in the display (📖 8, 10). Recommended when using a tripod.

Menus

ISO AUTO SETTING

Choose the base sensitivity, maximum sensitivity, and minimum shutter speed for auto ISO sensitivity control, which is selected by rotating the ISO dial to **A**. Settings for **AUTO1**, **AUTO2**, and **AUTO3** can be adjusted separately.

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	1/60 SEC		

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.

MOUNT ADAPTOR SETTING

Adjust settings for M-mount lenses connected using an optional **FUJIFILM M MOUNT ADAPTER** (E 84).

WIRELESS COMMUNICATION

Connect to a smartphone or tablet over a wireless network (E 129).

◆ For more information, visit *http://fujifilm-dsc.com/wifi/*.

⚡ *FLASH SETTING*

To adjust flash-related settings, press **MENU/OK** in the shooting display and select the ⚡ (**FLASH SETTING**) tab (🔲 88).

	⚡ FLASH SETTING
I.Q.	**FLASH FUNCTION SETTING**
AF/MF	**RED EYE REMOVAL**
⚙	**TTL-LOCK MODE**
⚡	**LED LIGHT SETTING**
📷	**MASTER SETTING**
🔧	**CH SETTING**
MY	
	BACK EXIT
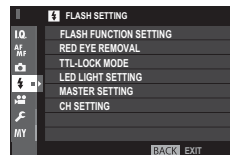
FLASH FUNCTION SETTING

Choose a flash control mode, flash mode, or sync mode or adjust the flash level.

❧ The options available vary with the flash unit. See "Using Shoe-Mounted Flash Units" (🔲 143) 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.

Menus

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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.

◆ 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 settings 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.

◆ This option can also be accessed via the flash settings 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.

🎬 *MOVIE SETTING*

To adjust options for movie recording, press **MENU/OK** in the shooting display and select the 🎬 (**MOVIE SETTING**) tab (📖 88).

	🎬 MOVIE SETTING
	MOVIE MODE
	MIC LEVEL ADJUSTMENT
	MIC/REMOTE RELEASE
	BACK EXIT
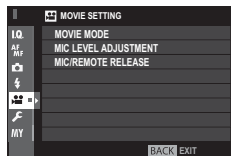
MOVIE MODE

Select a frame size and rate for movie recording.

- 🎬 **1080/60 P**: 1920 × 1080 (60 fps)
- 🎬 **1080/50 P**: 1920 × 1080 (50 fps)
- 🎬 **1080/30 P**: 1920 × 1080 (30 fps)
- 🎬 **1080/25 P**: 1920 × 1080 (25 fps)
- 🎬 **1080/24 P**: 1920 × 1080 (24 fps)

- 🎬 **720/60 P**: 1280 × 720 (60 fps)
- 🎬 **720/50 P**: 1280 × 720 (50 fps)
- 🎬 **720/30 P**: 1280 × 720 (30 fps)
- 🎬 **720/25 P**: 1280 × 720 (25 fps)
- 🎬 **720/24 P**: 1280 × 720 (24 fps)

MIC LEVEL ADJUSTMENT

Adjust the microphone recording level.

MIC/REMOTE RELEASE

Specify whether the device connected to the microphone/remote release connector is a microphone or a remote release (📖 45, 73).

MY MENU

To display a personalized menu of frequently-used options, press **MENU/OK** in the shooting display and select the **MY** (**MY MENU**) tab (📖 88).

◆ To edit "my menu", select **🖪 USER SETTING** > **MY MENU SETTING** (📖 125).
◆ The **MY** tab is only available if options have been assigned to **MY MENU**.

MY MENU	1/2
SELF-TIMER	
INTERVAL TIMER SHOOTING	
FILM SIMULATION BKT	
PHOTOMETRY	
SHUTTER TYPE	
IS MODE	
FACE/EYE DETECTION SETTING	
ISO AUTO SETTING	
BACK EXIT	
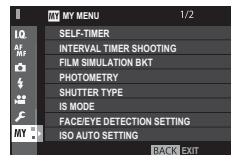
Menus

Using the Menus: Playback Mode

The playback menu is used to adjust playback settings.

Using the Playback Menu

1 Press **MENU/OK** in playback mode to display the menus.

PLAY BACK MENU 1/2
- SWITCH SLOT
- RAW CONVERSION
- ERASE
- CROP
- RESIZE
- PROTECT
- IMAGE ROTATE
- RED EYE REMOVA

BACK EXIT
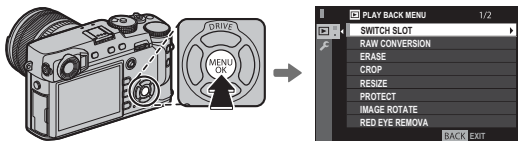
2 Press the selector up or down to highlight the desired item.

3 Press the selector right to view options for the highlighted item.

4 Press the selector up or down to highlight the desired option.

5 Press **MENU/OK** to select the highlighted option.

6 Press **DISP/BACK** to return to the playback display.

◈ Use the front command dial to scroll through the menus a page at a time.

D *PLAY BACK MENU*

To access playback options, press **MENU/OK** in the playback display and select the D (**PLAY BACK MENU**) tab (E 106).
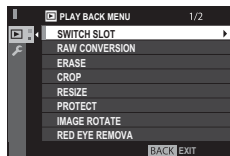
SWITCH SLOT

Choose the card from which images will be played back (E 39).

RAW CONVERSION

Create JPEG copies of RAW pictures (E 82).

ERASE

Delete pictures (E 43).

CROP

Create a cropped copy of the current picture.

1 Display the desired picture.

2 Select D **CROP** in the playback menu.

3 Use the rear command dial to zoom in and out and press the selector up, down, left, or right to scroll the picture until the desired portion is displayed.

4 Press **MENU/OK** to display a confirmation dialog.

5 Press **MENU/OK** again to save the cropped copy to a separate file.

◆ Larger crops produce larger copies; all copies have an aspect ratio of 3 : 2. If the size of the final copy will be 640, **OK** will be displayed in yellow.

Menus

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RESIZE

Create a small copy of the current picture.

1 Display the desired picture.

2 Select ⬛ **RESIZE** in the playback menu.

3 Highlight a size and press **MENU/OK** to display a confirmation dialog.

4 Press **MENU/OK** again to save the resized copy to a separate file.

◆ The sizes available vary with the size of the original image.

PROTECT

Protect pictures from accidental deletion. Highlight one of the following options and press **MENU/OK**.
- **FRAME**: Protect selected pictures. Press the selector left or right to view pictures and press **MENU/OK** to select or deselect. Press **DISP/BACK** when the operation is complete.
- **SET ALL**: Protect all pictures.
- **RESET ALL**: Remove protection from all pictures.

① Protected pictures will be deleted when the memory card is formatted (🔲 114).

IMAGE ROTATE

Rotate pictures.

1 Display the desired picture.

2 Select ⬛ **IMAGE ROTATE** in the playback menu.

3 Press the selector down to rotate the picture 90° clockwise, up to rotate it 90° counterclockwise.

4 Press **MENU/OK**. The picture will automatically be displayed in the selected orientation whenever it is played back on the camera.

◆ Protected pictures can not be rotated. Remove protection before rotating pictures.

◆ The camera may not be able to rotate pictures created with other devices. Pictures rotated on the camera will not be rotated when viewed on a computer or on other cameras.

◆ Pictures taken with ⚙ **SCREEN SETTING** > **AUTOROTATE PB** are automatically displayed in the correct orientation during playback (🔲 118).

RED EYE REMOVAL

Remove red-eye from portraits. The camera will analyze the image; if red-eye is detected, the image will be processed to create a copy with reduced red-eye.

1 Display the desired picture.

2 Select ▣ **RED EYE REMOVAL** in the playback menu.

3 Press **MENU/OK**.

◆ Red eye may not be removed if the camera is unable to detect a face or the face is in profile. Results may differ depending on the scene. Red eye can not be removed from pictures that have already been processed using red-eye removal or pictures created with other devices.

◆ The amount of time needed to process the image varies with the number of faces detected.

◆ Copies created with **RED EYE REMOVAL** are indicated by a ◉ icon during playback.

◆ Red eye removal can not be performed on RAW images.

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VOICE MEMO SETTING

Add a voice memo to the current photograph.

1 Select **ON** for **VOICE MEMO SETTING** in the playback menu.

2 Display a photo to which you wish to add a voice memo.

3 Press and hold the center of the front command dial to record the memo. Recording ends after 30 s or when you release the dial.

◆ The new memo will be recorded over any existing memos. Deleting the picture also deletes the memo.

◆ Voice memos can not be added to movies or protected pictures.

📌 Playing Voice Memos

Pictures with voice memos are indicated by 🎤 icons during playback. To play a memo, select the picture and press the center of the front command dial; a progress bar will be displayed while the memo plays back. Volume can be adjusted by pressing **MENU/OK** to pause playback and then pressing the selector up or down to adjust the volume. Press **MENU/OK** again to resume playback. Volume can also be adjusted using **🔊 SOUND SETTING** > **PLAYBACK VOLUME**.

COPY

Copy pictures between the cards in the first and second slots.

1 Select **□ COPY** in the playback menu.

2 Highlight one of the following options and press the selector right:
  • **SLOT1 ➡ SLOT2**: Copy pictures from the card in the first slot to the card in the second slot.
  • **SLOT2 ➡ SLOT1**: Copy pictures from the card in the second slot to the card in the first slot.

3 Highlight one of the following options and press **MENU/OK**:
  • **FRAME**: Copy selected pictures. Press the selector left or right to view pictures and press **MENU/OK** to copy the current picture.
  • **ALL FRAMES**: Copy all pictures.

◆ Copying ends when the destination is full.

WIRELESS COMMUNICATION

Connect to a smartphone or tablet over a wireless network (📖 129).

◆ For more information, visit *http://fujifilm-dsc.com/wifi/*.

SLIDE SHOW

View pictures in an automated slide show. Press **MENU/OK** to start. Press **DISP/BACK** at any time during the show to view on-screen help. The show can be ended at any time by pressing **MENU/OK**.

◆ The camera will not turn off automatically while a slide show is in progress.

PHOTOBOOK ASSIST

Create books from your favorite photos (📖 86).

PC AUTO SAVE

Upload pictures to a computer over a wireless network (📖 129).

❧ For more information, visit *http://fujifilm-dsc.com/wifi/*.

PRINT ORDER (DPOF)

Select pictures for printing (📖 133).

instax PRINTER PRINT

Print pictures on optional FUJIFILM instax SHARE printers (📖 136).

DISP ASPECT

Choose how **H**igh **D**efinition (HD) devices display pictures with an aspect ratio of 3:2 (this option is available only when an HDMI cable is connected). Select 16:9 to display the image so that it fills the screen with its top and bottom cropped out, 3:2 to display the entire image with black bands at either side.

16:9	3:2
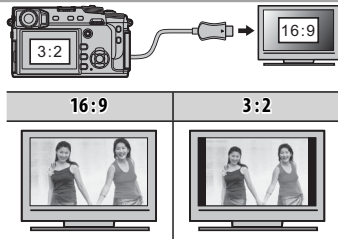
The Setup Menu

View and adjust basic camera settings.

Using the Setup Menu

1 Press **MENU/OK** in shooting mode to display the menus.
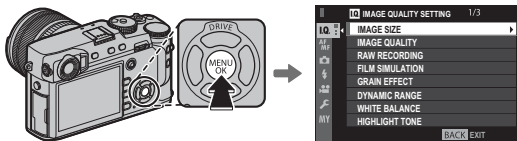
	IMAGE QUALITY SETTING	1/3
I.Q.	IMAGE SIZE	▶
AF/MF	IMAGE QUALITY	
	RAW RECORDING	
	FILM SIMULATION	
	GRAIN EFFECT	
	DYNAMIC RANGE	
	WHITE BALANCE	
MY	HIGHLIGHT TONE	

BACK EXIT

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

	SET UP
I.Q.	USER SETTING
AF/MF	SOUND SETTING
	SCREEN SETTING
	BUTTON/DIAL SETTING
	POWER MANAGEMENT
	SAVE DATA SETTING
	CONNECTION SETTING
MY	

BACK EXIT

Tab
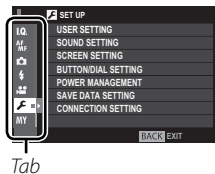
3 Press the selector down to highlight the ⚙ (**SET UP**) tab.

4 Press the selector right to display setup menu categories.

5 Press the selector up or down to highlight the category containing the desired item.

6 Press the selector right to view the option in the highlighted category.

7 Press the selector up or down to highlight the desired item.

8 Press the selector right to view options for the highlighted item.

9 Press the selector up or down to highlight the desired option.

10 Press **MENU/OK** to select the highlighted option.

11 Press **DISP/BACK** to return to the shooting display.

❧ Use the front command dial to scroll through the menus a page at a time.

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F *SET UP Menu Options*

To access basic camera settings, press **MENU/OK** in the playback display and select the F (**SET UP**) tab (P 113).
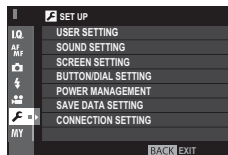
■ F **USER SETTING**

FORMAT

To format a memory card:

1 Highlight F **USER SETTING** > **FORMAT** in the setup menu and press **MENU/OK**.

2 Highlight the slot containing the card you wish to format and press **MENU/OK**.

3 A confirmation dialog will be displayed. To format the memory card, highlight **OK** and press **MENU/OK**. To exit without formatting the memory card, select **CANCEL** or press **DISP/BACK**.

- Q All data—including protected pictures—will be deleted from the memory card. Be sure important files have been copied to a computer or other storage device.
- Q Do not open the battery-chamber cover during formatting.
- ❧ The format menu can also be displayed by pressing the center of the rear command dial while pressing and holding the ũ button.
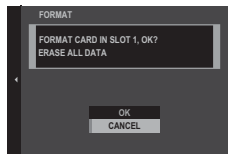
DATE/TIME

Set the camera clock (P 26, 27).

TIME DIFFERENCE

Switch the camera clock instantly from your home time zone to the local time at your destination when traveling. To specify the difference between local time and your home time zone:

1 Highlight **LOCAL** and press **MENU/OK**.

2 Use the selector to choose the time difference between local time and your home time zone. Press **MENU/OK** when settings are complete.

To set the camera clock to local time, highlight **LOCAL** and press **MENU/OK**. To set the clock to the time in your home time zone, select **HOME**. If **LOCAL** is selected, will be displayed for three seconds when the camera is turned on.

言語/LANG.

Choose a language.

MY MENU SETTING

Edit "my menu" (📖 125).

SENSOR CLEANING

Remove dust from the camera image sensor.

- **OK**: Clean sensor immediately (📖 xi).
- **WHEN SWITCHED ON**: If this option is selected, sensor cleaning will be performed when the camera turns on.
- **WHEN SWITCHED OFF**: If this option is selected, sensor cleaning will be performed when the camera turns off (sensor cleaning is not however performed if the camera turns off in playback mode).
- ◈ Dust that can not be removed using sensor cleaning can be removed manually (📖 150).

RESET

Reset shooting or setup menu options to default values. Custom white balance, custom settings banks created using **EDIT/ SAVE CUSTOM SETTING**, **WIRELESS SETTINGS**, and the setup menu **DATE/TIME**, **TIME DIFFERENCE** options are not affected.

1 Highlight the desired option and press the selector right.

2 A confirmation dialog will be displayed; highlight **OK** and press **MENU/OK**.

Menus

◼ 🎵 SOUND SETTING

AF BEEP VOL.

Choose the volume of the beep that sounds when the camera focuses (📖 76). The beep can be muted by selecting **OFF**.

SELF-TIMER BEEP VOL.

Choose the volume of the beep that sounds while the self-timer is active (📖 74). The beep can be muted by selecting **OFF**.

OPERATION VOL.

Adjust the volume of the sounds produced when camera controls are operated. Choose 🔇 **OFF** (mute) to disable control sounds.

SHUTTER VOLUME

Adjust the volume of the sounds produced when the shutter is released. Choose 🔇 **OFF** (mute) to disable the shutter sound.

SHUTTER SOUND

Choose the sound made by the shutter.

PLAYBACK VOLUME

Adjust the volume for movie playback.

■ ☑ SCREEN SETTING

EVF BRIGHTNESS

Adjust the brightness of the display in the electronic viewfinder, or choose **AUTO** for automatic brightness adjustment.

EVF COLOR

Adjust the hue of the display in the electronic viewfinder.

LCD BRIGHTNESS

Adjust monitor brightness.

LCD COLOR

Adjust monitor hue.

IMAGE DISP.

Choose how long images are displayed after shooting. Colors may differ slightly from those in the final image and "noise" mottling may be visible at high sensitivities.

Option	Description
CONTINUOUS	Pictures are displayed until the **MENU/OK** button is pressed or the shutter button is pressed halfway. To zoom in on the active focus point, press the center of the rear command dial; press again to cancel zoom.
1.5 SEC 0.5 SEC	Pictures are displayed for 1.5 seconds (**1.5 SEC**) or 0.5 seconds (**0.5 SEC**) or until the shutter button is pressed halfway.
OFF	Pictures are not displayed after shooting.

EVF AUTOROTATE DISPLAYS

Choose whether the indicators in the viewfinder rotate to match camera orientation (🔲 31). Regardless of the option selected, the indicators in the monitor do not rotate.

PREVIEW EXP./WB IN MANUAL MODE

Select **PREVIEW EXP./WB** to enable exposure and white balance preview in manual exposure mode (🔲 38), or choose **PREVIEW WB** to preview only white balance. Select **OFF** when using a flash or on other occasions on which exposure may change when the picture is taken.

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PREVIEW PIC. EFFECT

Choose **ON** to preview the effects of film simulation, white balance, and other settings in the monitor. Choose **OFF** to make shadows in low-contrast, back-lit scenes and other hard-to-see subjects more visible.

◆ If **OFF** is selected, the effects of camera settings will not be visible in the monitor and colors and tone will differ from those in the final picture. The display will however be adjusted to show the effects of advanced filters and of monochrome and sepia settings.

FRAMING GUIDELINE

Choose the type of framing grid available in shooting mode.

⊞ **GRID 9**	⊞ **GRID 24**	⊞ **HD FRAMING**
For "rule of thirds" composition.	*A six-by-four grid.*	*Frame HD pictures in the crop shown by the lines at the top and bottom of the display.*

AUTOROTATE PB

Choose **ON** to automatically rotate "tall" (portrait-orientation) pictures during playback.

FOCUS SCALE UNITS

Choose the units used for the focus distance indicator (🔲 65).

DISP. CUSTOM SETTING

Choose items for the standard display (🔲 33).

■ 🔧 BUTTON/DIAL SETTING

FOCUS LEVER SETTING

Choose the functions performed by the focus stick (focus lever).

Option	Description
LOCK (OFF)	The focus stick can not be used during shooting.
PUSH ◉ TO UNLOCK	Press the stick to view the focus-point display and tilt the stick to select a focus point.
ON	Tilt the stick to view the focus-point display and select a focus point.

EDIT/SAVE QUICK MENU

Choose the options displayed in the quick menu (📖 49).

FUNCTION (Fn) SETTING

Choose the roles played by the function buttons (📖 51).

COMMAND DIAL SETTING

Choose the roles played by the command dials.

◲◱ S.S OPERATION

Select **OFF** to disable shutter-speed fine-tuning using the command dials.

ISO DIAL SETTING (H)

Choose the ISO sensitivity assigned to the **H** position on the ISO dial.

ISO DIAL SETTING (L)

Choose the ISO sensitivity assigned to the **L** position on the ISO dial.

SHOOT WITHOUT LENS

Choose whether shutter release is enabled when no lens is attached.

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SHOOT WITHOUT CARD

Choose whether the shutter can be released without a memory card inserted in the camera.

Option	Description
ON	When no memory card is inserted, the shutter can be released to test camera function and the shooting and setup menus can be displayed.
OFF	The shutter is disabled if no memory card is inserted, preventing accidental loss of pictures taken without a memory card.

FOCUS RING

Choose the direction in which the focus ring is rotated to increase the focus distance.

AE-L/AF-L BUTTON SETTING

Switch the roles of the **AF-L** and **AE-L** buttons.

AE/AF-LOCK MODE

If **AE & AF ON WHEN PRESSING** is selected, exposure and/or focus will lock while the **AE-L** or **AF-L** button is pressed (🔲 77). If **AE & AF ON/OFF SWITCH** is selected, exposure and/or focus will lock when the **AE-L** or **AF-L** button is pressed and remain locked until the button is pressed again.

AF-LOCK MODE

Choose the role played by the **AF-L** button (🔲 77).

APERTURE SETTING

Choose the method used to adjust aperture when using lenses with no aperture rings.

- **AUTO + ⌂ MANUAL**: Rotate the rear command dial to choose the aperture. Rotate past minimum aperture to choose **A** (auto).
- **AUTO**: Aperture is selected automatically; camera functions in exposure mode **P** (program AE) or **S** (shutter-priority AE).
- **MANUAL**: Rotate the rear command dial to choose the aperture; camera functions in exposure mode **A** (aperture-priority AE) or **M** (manual).

■ 🔁 POWER MANAGEMENT

AUTO POWER OFF

Choose the length of time before the camera turns off automatically when no operations are performed. Shorter times increase battery life; if **OFF** is selected, the camera must be turned off manually. Note that in some situations the camera turns off automatically even when **OFF** is selected.

POWER MANAGEMENT

Adjust power management settings.

Option	AF performance (speed)	LCD/EVF display quality	Battery endurance
HIGH PERFORMANCE	Fast	Very high	Low
STANDARD	Fast	High	Normal
ECONOMY	Normal	Normal	High

◆ When **ECONOMY** is selected, the frame rate will drop when no operations are being performed. Operating camera controls returns the frame rate to normal.

AUTO POWER SAVE

A power-saving option has been added for the LCD/EVF displays.

Option	Description
ON	When **HIGH PERFORMANCE** or **STANDARD** is selected for **POWER MANAGEMENT**, the LCD and EVF will switch to a standard-quality display if no operations are performed for a set period. Operating camera controls restores the high-quality display
OFF	Display quality does not change when no operations are performed.

Menus

■ *E* SAVE DATA SETTING

FRAME NO.

New pictures are stored in image files named using a four-digit file number assigned by adding one to the last file number used. The file number is displayed during playback as shown at right. **FRAME NO.** controls whether file numbering is reset to 0001 when a new memory card is inserted or the current memory card is formatted.

Frame number

100-0001

Directory   *File*
number   *number*
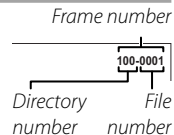
Option	Description
CONTINUOUS	Numbering continues from the last file number used or the first available file number, whichever is higher. Choose this option to reduce the number of pictures with duplicate file names.
RENEW	Numbering is reset to 0001 after formatting or when a new memory card is inserted.

◆ If the frame number reaches 999-9999, the shutter release will be disabled (🕮 157).

◆ Selecting *E* **USER SETTING** > **RESET** (🕮 115) sets **FRAME NO.** to **CONTINUOUS** but does not reset the file number.

◆ Frame numbers for pictures taken with other cameras may differ.

SAVE ORG IMAGE

Choose **ON** to save unprocessed copies of pictures taken using *F* **FLASH SETTING** > **RED EYE REMOVAL** (🕮 101).

EDIT FILE NAME

Change the file name prefix. sRGB images use a four-letter prefix (default "DSCF"), Adobe RGB images a three-letter prefix ("DSF") preceded by an underscore.

CARD SLOT SETTING (STILL IMAGE)

Choose the role played by the card in the second slot.

Option	Description
SEQUENTIAL	The card in the second slot is used only when the card in the first 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 L **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.

◆ Regardless of the option selected for **CARD SLOT SETTING (STILL IMAGE)**, movies will be recorded to the card in the first slot; if **SEQUENTIAL** is selected, movies will be recorded to the card in the first slot even after recording has moved on to the card in the second slot.

SWITCH SLOT (SEQUENTIAL)

Choose the card that is recorded to first when **SEQUENTIAL** is selected for **CARD SLOT SETTING (STILL IMAGE)**.

COPYRIGHT INFO

Copyright information, in the form of Exif tags, can be added to new images as they are taken. Changes to copyright information are reflected only in images taken after the changes are made.

Option	Description
DISP COPYRIGHT INFO	View the current copyright information.
ENTER AUTHOR'S INFO	Enter the creator's name.
ENTER COPYRIGHT INFO	Enter the name of the copyright holder.
DELETE COPYRIGHT INFO	Delete the current copyright information. This change applies only to images taken after this option is selected; copyright information recorded with existing images is not affected.

Menus

■ 🔁 CONNECTION SETTING

For more information on wireless connections, visit *http://fujifilm-dsc.com/wifi/*

WIRELESS SETTINGS

Adjust settings for connection to wireless networks.

Option	Description
GENERAL SETTINGS	Choose a name (**NAME**) to identify the camera on the wireless network (the camera is assigned a unique name by default) or select **RESET WIRELESS SETTINGS** to restore default settings.
RESIZE IMAGE FOR SMARTPHONE 3M	Choose **ON** (the default setting, recommended in most circumstances) to resize larger images to 3M for upload to smartphones, **OFF** to upload images at their original size. Resizing applies only to the copy uploaded to the smartphone; the original is not affected.
PC AUTO SAVE SETTINGS	Choose **DELETE REGISTERED DESTINATION PC** to remove selected destinations, **DETAILS OF PREVIOUS CONNECTION** to view computers to which the camera has recently connected.

PC AUTO SAVE SETTING

Choose an upload destination. Choose **SIMPLE SETUP** to connect using WPS, **MANUAL SETUP** to configure network settings manually.

GEOTAGGING SET-UP

View location data downloaded from a smartphone and choose whether to save the data with your pictures.

Option	Description
GEOTAGGING	Choose whether location data downloaded from a smartphone are embedded in pictures as they are taken.
LOCATION INFO	Display the location data last downloaded from a smartphone.

instax PRINTER CONNECTION SETTING

Adjust settings for connection to optional FUJIFILM instax SHARE printers (📖 135).

"My Menu"

Selecting the ▥ (**MY MENU**) tab displays a personalized custom menu of frequently-used options (国 105).

Editing "My Menu"

1 In the setup menu **D USER SETTING** tab, highlight **MY MENU SETTING** and press **MENU/OK** to display the following options (国 113).

> **MY MENU SETTING**
>
> **ADD ITEMS** ▶
> **RANK ITEMS**
> **REMOVE ITEMS**
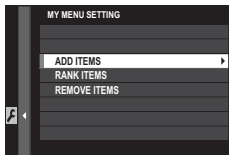
2 Press the selector up or down to highlight **ADD ITEMS** and press **MENU/OK**. Options that can be added to "my menu" are highlighted in blue.

❧ Options currently in "my menu" are indicated by check marks.

> **MY MENU SETTING** 1/3
> **IMAGE SIZE** ▶
> IMAGE QUALITY
> RAW RECORDING
> FILM SIMULATION
> GRAIN EFFECT
> DYNAMIC RANGE
> WHITE BALANCE
> HIGHLIGHT TONE
> **OK** SELECT **MY** CANCEL
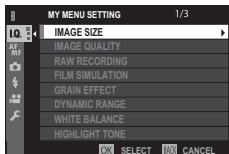
3 Highlight an item and press **MENU/OK** to add it to "my menu".

> **MY MENU SETTING**
> 1 **IMAGE SIZE**
>
> **↕** MOVE **OK** SAVE

4 Press **MENU/OK** to return to the edit display.

5 Repeat Steps 3 and 4 until all the desired items have been added.

❧ "My menu" can contain up to 16 items.

▶ **Editing "My Menu"**
To reorder or delete items, select **RANK ITEMS** or **REMOVE ITEMS** in Step 1.

Menus

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Factory Defaults

The factory default settings for the options in the shooting and setup menus are listed below. These settings can be restored using **Ẑ USER SETTING** > **RESET** (🕮 115).

■ Shooting Menu

Menu	Default
🖸 IMAGE QUALITY SETTING	
IMAGE SIZE	**🖿 3:2**
IMAGE QUALITY	**FINE**
RAW RECORDING	**UNCOMPRESSED**
FILM SIMULATION	**PROVIA/STANDARD**
GRAIN EFFECT	**OFF**
DYNAMIC RANGE	**100%**
WHITE BALANCE	**AUTO**
HIGHLIGHT TONE	**0**
SHADOW TONE	**0**
COLOR	**0**
SHARPNESS	**0**
NOISE REDUCTION	**0**
LONG EXPOSURE NR	**ON**
LENS MODULATION OPTIMIZER	**ON**
COLOR SPACE	**sRGB**
SELECT CUSTOM SETTING	**CUSTOM 1**

Menu	Default
🖽 AF/MF SETTING	
AF MODE	**SINGLE POINT**
AF-C CUSTOM SETTINGS	**SET 1**
AF POINT DISPLAY ▣ ▢	**OFF**
NUMBER OF FOCUS POINTS	**91 POINTS (7×13)**
PRE-AF	**OFF**
AF ILLUMINATOR	**ON**
FACE/EYE DETECTION SETTING	**FACE OFF/EYE OFF**
AF+MF	**OFF**
MF ASSIST	**STANDARD**
FOCUS CHECK	**OFF**
INTERLOCK SPOT AE & FOCUS AREA	**ON**
INSTANT AF SETTING	**AF-S**
DEPTH-OF-FIELD SCALE	**PIXEL BASIS**
RELEASE/FOCUS PRIORITY	
· **AF-S PRIORITY SELECTION**	**RELEASE**
· **AF-C PRIORITY SELECTION**	**RELEASE**
CORRECTED AF FRAME	**OFF**

Menu	Default
SHOOTING SETTING	
SELF-TIMER	**OFF**
FILM SIMULATION BKT	
· FILM 1	**PROVIA/STANDARD**
· FILM 2	**Velvia/VIVID**
· FILM 3	**ASTIA/SOFT**
PHOTOMETRY	**MULTI**
SHUTTER TYPE	**MECHANICAL SHUTTER**
IS MODE	**CONTINUOUS**
ISO AUTO SETTING	**AUTO1**
MOUNT ADAPTOR SETTING	
· BRIGHT FRAME BRIGHTNESS	**0**
· LENS REGISTRATION	**LENS 5 (50mm)**
FLASH SETTING	
RED EYE REMOVAL	**OFF**
TTL-LOCK MODE	**LOCK WITH LAST FLASH**
MOVIE SETTING	
MOVIE MODE	**HD 1080/60P**
MIC LEVEL ADJUSTMENT	**3**
MIC/REMOTE RELEASE	**MIC**

■ Setup Menu

Menu	Default
USER SETTING	
TIME DIFFERENCE	**HOME**
SENSOR CLEANING	
· WHEN SWITCHED ON	**OFF**
· WHEN SWITCHED OFF	**ON**
SOUND SETTING	
AF BEEP VOL.	🔊•)
SELF-TIMER BEEP VOL.	🔊•)
OPERATION VOL.	**OFF**
SHUTTER VOLUME	🔊•)
SHUTTER SOUND	**SOUND 1**
PLAYBACK VOLUME	**7**
SCREEN SETTING	
EVF BRIGHTNESS	**AUTO**
EVF COLOR	**0**
LCD BRIGHTNESS	**0**
LCD COLOR	**0**
IMAGE DISP.	**OFF**
EVF AUTOROTATE DISPLAYS	**ON**
PREVIEW EXP./WB IN MANUAL MODE	**PREVIEW EXP./WB**
PREVIEW PIC. EFFECT	**ON**
FRAMING GUIDELINE	**GRID 9**
AUTOROTATE PB	**OFF**
FOCUS SCALE UNITS	**METERS**
DISP. CUSTOM SETTING	See page 33.

Menus

Menu	Default
⚙ BUTTON/DIAL SETTING	
FOUCS LEVER SETTING	**ON**
EDIT/SAVE QUICK MENU	See page 47.
FUNCTION (Fn) SETTING	See page 50.
COMMAND DIAL SETTING	**▲ S.S. ▼ F**
▲ ▼ S.S OPERATION	**ON**
ISO DIAL SETTING (H)	**25600**
ISO DIAL SETTING (L)	**100**
SHOOT WITHOUT LENS	**OFF**
SHOOT WITHOUT CARD	**ON**
FOCUS RING	**↻ CW**
AE-L/AF-L BUTTON SETTING	**AE-L/AF-L**
AE/AF-LOCK MODE	**AE&AF ON WHEN PRESSING**
AF-LOCK MODE	**AF LOCK ONLY**
APERTURE SETTING	**AUTO + MANUAL**
⚙ POWER MANAGEMENT	
AUTO POWER OFF	**2 MIN**
POWER MANAGEMENT	**STANDARD**
AUTO POWER SAVE	**OFF**

Menu	Default
⚙ SAVE DATA SETTING	
FRAME NO.	**CONTINUOUS**
SAVE ORG IMAGE	**OFF**
CARD SLOT SETTING (STILL IMAGE)	**SEQUENTIAL**
⚙ CONNECTION SETTING	
WIRELESS SETTINGS	
· RESIZE IMAGE FOR SMARTPHONE 3M	**ON**
PC AUTO SAVE SETTING	**SIMPLE SETUP**
GEOTAGGING SET-UP	
· GEOTAGGING	**ON**
· LOCATION INFO	**ON**

Connections

Wireless Transfer (FUJIFILM Camera Remote/FUJIFILM PC AutoSave)

Access wireless networks and connect to computers, smartphones, or tablets. For downloads and other information, visit *http://fujifilm-dsc.com/wifi/*.

fujifilm Wi-Fi app $\boxed{Q}$

Wireless Connections: Smartphones

Install the "FUJIFILM Camera Remote" app on your smartphone to browse the images on the camera, download selected images, control the camera remotely, or copy location data to the camera. To connect to the smartphone, set the camera to playback mode and press the function button (**Fn1**).
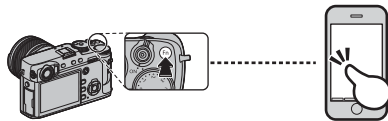
❧ You can also connect using **☉ SHOOTING SETTING**/**▣ PLAY BACK MENU** > **WIRELESS COMMUNICATION** (📖 100, 111).

Wireless Connections: Computers

Once you have installed the "FUJIFILM PC AutoSave" application and configured your computer as a destination for the images copied from the camera, you can upload pictures from the camera using **▣ PLAY BACK MENU** > **PC AUTO SAVE** (📖 112) or by pressing and holding the function button (**Fn1**) in playback mode.
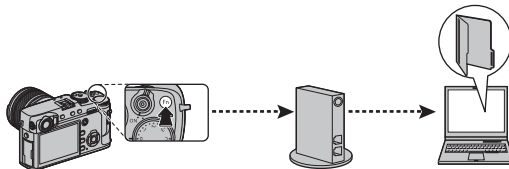
Viewing Pictures on a Computer (MyFinePix Studio/RAW FILE CONVERTER EX 2.0)

Read this section for information on copying pictures to a computer.

Windows

Use MyFinePix Studio to copy pictures to your computer, where they can be stored, viewed, organized, and printed. MyFinePix Studio is available for download from the following website:
http://fujifilm-dsc.com/mfs/

| fujifilm mfs | $\mathbb{Q}$ |

Once download is complete, double-click the downloaded file ("MFPS_Setup.EXE") and follow the on-screen instructions to complete installation. Proceed to "Connecting the Camera" (📖 131) when installation is complete.

Mac OS X/macOS

Pictures can be copied to your computer using Image Capture (supplied with your computer) or other software. Proceed to "Connecting the Camera" (📖 131).

Viewing RAW Files

To view RAW files on your computer, use the RAW FILE CONVERTER EX 2.0, available for download from:
http://fujifilm-dsc.com/rfc/

| fujifilm rfc | $\mathbb{Q}$ |

Connecting the Camera

1 Find a memory card containing pictures you want to copy to the computer and insert the card into the camera.

- ⚁ Loss of power during transfer could result in loss of data or damage to the memory card. Insert a fresh or fully-charged battery before connecting the camera.

2 Turn the camera off and connect a USB cable (available separately from third-party suppliers) as shown, making sure the connectors are fully inserted. Connect the camera directly to the computer; do not use a USB hub or keyboard.

- ⚁ The USB cable must be no more than 1.5 m (4.9 ft.) long and be suitable for data transfer.
- ⚁ Connect to camera Micro USB (Micro-B) connector.
- ⚁ The camera uses a Micro-B USB 2.0 connector.

3 Turn the camera on.

4 Copy pictures to the computer using MyFinePix Studio or applications provided with your operating system.
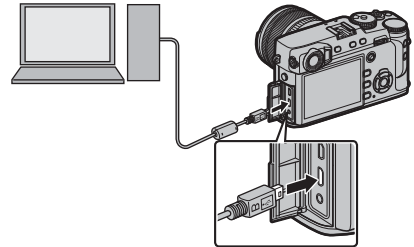
For more information on using the software, start the application and select the appropriate option from the **Help** menu.

Connections

- ① If a memory card containing a large number of images is inserted, there may be a delay before the software starts and you may be unable to import or save images. Use a memory card reader to transfer pictures.
- ① Make sure that the computer does not display a message stating that copying is in progress and that the indicator lamp is out before turning the camera off or disconnecting the USB cable (if the number of images copied is very large, the indicator lamp may remain lit after the message has cleared from the computer display). Failure to observe this precaution could result in loss of data or damage to the memory card.
- ① Disconnect the camera before inserting or removing memory cards.
- ① In some cases, it may not be possible to access pictures saved to a network server using the software in the same way as on a standalone computer.
- ① The user bears all applicable fees charged by the phone company or Internet service provider when using services that require an Internet connection.

Disconnecting the Camera
After confirming that the indicator lamp is out, turn the camera off and disconnect the USB cable.

Creating a DPOF Print Order

The **▣ PLAY BACK MENU** > **PRINT ORDER (DPOF)** (P 112) option can be used to create a digital "print order" for DPOF-compatible printers.

✦ DPOF

DPOF (**D**igital **P**rint **O**rder **F**ormat) is standard that allows pictures to be printed from "print orders" stored on the memory card. The information in the order includes the pictures to be printed and the number of copies of each picture.

■ WITH DATE 🕒 / WITHOUT DATE

To modify the DPOF print order, select **▣ PLAY BACK MENU** > **PRINT ORDER (DPOF)** (P 106) and press the selector up or down to highlight **WITH DATE 🕒** or **WITHOUT DATE**.
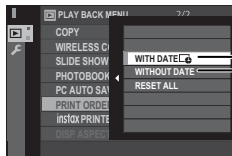
WITH DATE 🕒: *Print date of recording on pictures.*

WITHOUT DATE: *Print pictures without date.*

Press **MENU/OK** and follow the steps below.

1 Press the selector left or right to display a picture you wish to include in or remove from the print order.

2 Press the selector up or down to choose the number of copies (up to 99). To remove a picture from the order, press the selector down until the number of copies is 0.
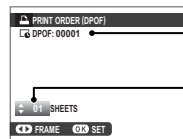
Total number of prints

Number of copies

Connections

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3 Repeat steps 1–2 to complete the print order. Press **MENU/OK** to save the print order when settings are complete, or **DISP/BACK** to exit without changing the print order.

4 The total number of prints is displayed in the monitor. Press **MENU/OK** to exit.

The pictures in the current print order are indicated by a ▲ icon during playback.
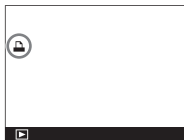
■ RESET ALL

To cancel the current print order, select **RESET ALL** for ▶ **PLAY BACK MENU** > **PRINT ORDER (DPOF)** (🗐 106). The confirmation shown at right will be displayed; press **MENU/OK** to remove all pictures from the order.

RESET DPOF OK?

OK YES DISP/BACK CANCEL
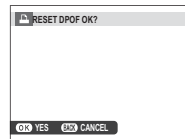
◆ Print orders can contain a maximum of 999 pictures.

◆ If a memory card is inserted containing a print order created by another camera, the message shown at right will be displayed. Pressing **MENU/OK** cancels the print order; a new print order must be created as described above.

RESET DPOF OK?

OK YES DISP/BACK NO
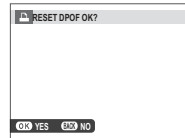
instax SHARE Printers

Print pictures from your digital camera to instax SHARE printers.

Establishing a Connection

Select D **CONNECTION SETTING** > **instax PRINTER CONNECTION SETTING** (P 124) and enter the instax SHARE printer name (SSID) and password.

> **The Printer Name (SSID) and Password**
> The printer name (SSID) can be found on the bottom of the printer; the default password is "1111". If you have already chosen a different password to print from a smartphone, enter that password instead.
>
>
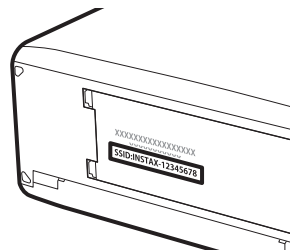
Printing Pictures

1 Turn the printer on.
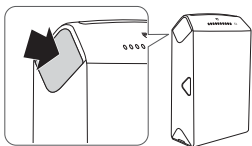
2 Select **PLAY BACK MENU** > **instax PRINT-ER PRINT** (📖 106). The camera will connect to the printer.
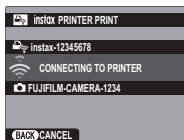
◆ To print a frame from a burst sequence, display the frame before selecting **instax PRINTER PRINT**.

3 Use the selector to display the picture you want to print, then press **MENU/OK**.
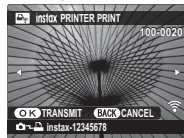
◆ Pictures taken with other cameras can not be printed.
◆ The area printed is smaller than the area visible in the LCD monitor.

4 The picture will be sent to the printer and printing will start.

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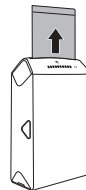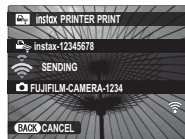
Viewing Pictures on TV

To show pictures to a group, connect the camera to a TV using an HDMI cable (available separately from third-party suppliers; note that the TV can only be used for playback, not shooting).

1 Turn the camera off.

2 Connect the cable as shown below, making sure the connectors are fully inserted in the correct orientation.

Insert into HDMI connector

Insert into Micro HDMI (Type D) connector
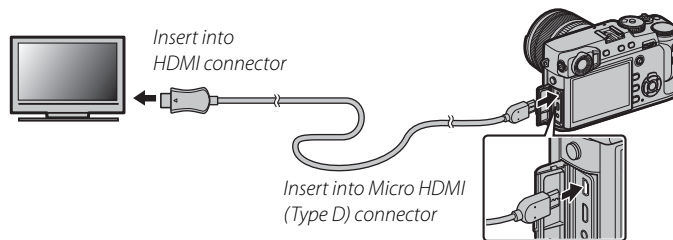
- ① Use an HDMI cable no more than 1.5 m (4.9 ft.) long with a type D (HDMI Micro) connector for connection to the camera.
- ◆ Be sure the connectors are fully inserted.

3 Tune the television to the HDMI input channel. See the documentation supplied with the television for details.

4 Turn the camera on and press ▶ button. The camera monitor turns off and pictures and movies are played back on the TV. Note that the camera volume controls have no effect on sounds played on the TV; use the television volume controls to adjust the volume.

- ◆ The USB cable can not be used while an HDMI cable is connected.
- ◆ Some televisions may briefly display a black screen when movie playback begins.

Technical Notes

Optional Accessories

The camera supports a wide range of accessories from FUJIFILM and other manufacturers.

Accessories from FUJIFILM

The following optional accessories are available from FUJIFILM. For the latest information on the accessories available in your region, check with your local FUJIFILM representative or visit *http://www.fujifilm.com/products/digital_cameras/index.html*.

Rechargeable Li-ion batteries

NP-W126/NP-W126S: Additional large-capacity NP-W126/NP-W126S rechargeable batteries can be purchased as required.

Battery chargers

BC-W126: Replacement battery chargers can be purchased as required. At +20°C/+68°F, the BC-W126 charges an NP-W126/NP-W126S in about 150 minutes.
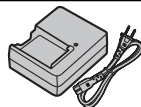
AC power adapters

AC-9V (requires CP-W126 DC coupler): Use for extended shooting and playback or when copying pictures to a computer.

DC couplers

CP-W126: Connect the AC-9V to the camera.

Remote releases

RR-90: Use to reduce camera shake or keep the shutter open during a time exposure.
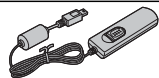
Stereo microphones

MIC-ST1: An external microphone for movie recording.

FUJINON lenses

XF-series lenses: Interchangeable lenses for use exclusively with the FUJIFILM X-mount.

XC-series lenses: Interchangeable lenses for use exclusively with the FUJIFILM X-mount.

Technical Notes

Shoe-mounted flash units

EF-X500: This clip-on flash unit has a Guide Number of 50/164 (ISO 100, m/ft.) and supports FP (high-speed sync), allowing it to be used at shutter speeds that exceed the flash sync speed. Powered by four AA batteries or an optional BF-BP1 battery pack, it supports manual and TTL flash control and auto power zoom in the range 24–105 mm (35 mm format equivalent) and features FUJIFILM optical wireless flash control, allowing it to be used as a master or remote flash unit for remote wireless flash photography. The flash head can be rotated 90° up, 10° down, 135° left, or 180° right for bounce lighting.

EF-42: This clip-on flash unit (powered by four AA batteries) has a Guide Number of 42/137 (ISO 100, m/ft.) and supports TTL flash control and auto power zoom in the range 24–105 mm (35 mm format equivalent). The flash head can be rotated 90° up, 180° left, or 120° right for bounce lighting.
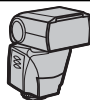
EF-X20: This clip-on flash unit has a Guide Number of 20/65 (ISO 100, m/ft.).

EF-20: This clip-on flash unit (powered by two AA batteries) has a Guide Number of 20/65 (ISO 100, m/ft.) and supports TTL flash control. The flash head can be rotated upwards 90° for bounce lighting.

Grips

MHG-XPRO2: Features an improved grip. Batteries and memory cards can be removed with the grip in place, and the grip is equipped with a rail for quick-shoe camera mounts. The tripod mount can be aligned with the lens optical axis.

Leather cases

BLC-XPRO2: This case combines practicality with the luxury of leather and comes with a cloth that can be used to wrap the camera before putting it in the case and on other occasions. Pictures can be taken and batteries inserted or removed with the camera still in its case.

Grip belt

GB-001: GB-001 enhances the camera's hold, allowing users to carry the camera firmly with just one hand.

Macro extension tubes

MCEX-11/16: Attach between the camera and the lens to shoot at high reproduction ratios.

Protective filters

PRF-39/PRF-43/PRF-52/PRF-58/PRF-62/PRF-67/PRF-72/PRF-77: Use to protect the lens.

Teleconverters

XF1.4X TC WR: Increases the focal length of the lens by about 1.4×.

Mount adapters

FUJIFILM M MOUNT ADAPTER: Allows the camera to be used with a wide selection of M-mount lenses.

Front lens caps

FLCP-39/FLCP-43/FLCP-52/FLCP-58/FLCP-62/FLCP-67/FLCP-72/FLCP-72 II/FLCP-77: Protect the front lens element when the lens is not in use.

Rear lens caps

RLCP-001: Protect the rear lens element when the lens is not attached to the camera.

Body caps

BCP-001: Cover the camera lens mount when no lens is attached.

instax SHARE printers

SP-1/SP-2: Connect via wireless LAN to print pictures on instax film.

Technical Notes

Connecting the Camera to Other Devices

■ **Remote Shutter Release**

RR-90 remote release*

■ **External Microphones**

MIC-ST1 stereo microphone*

■ **Flash Photography**

Shoe mount flash*

EF-X500   EF-42   EF-X20   EF-20

X-Pro2

■ **Printing**

instax SHARE printer*

Wireless LAN

SP-2   SP-1

SD/SDHC/SDXC memory card†

■ **Lens**

XF-series lenses*   XC-series lenses*

■ **Macro Extension Tube**

MCEX-11/16*

■ **M Mount Adapter**

FUJIFILM M MOUNT ADAPTER*

■ **Computer Related**

USB cable†

Computer†

* Available separately from FUJIFILM.
† Available separately from third-party suppliers. USB cables must be no more than 1.5 m (4.9 ft.) long, HDMI cables no more than 1.5 m (4.9 ft.) long.

■ **Audio/Visual**

HDMI cable†

HDTV†

Using Shoe-Mounted Flash Units

External flash units are more powerful than their built-in counterparts. Some support high-speed sync (FP) and can be used at shutter speeds faster than the flash sync speed, while others can function as master flash units controlling remote units via optical wireless flash control.

① Test firing may sometimes be unavailable, for example when the camera setup menu is displayed.

Connect the flash unit and select **E FLASH SETTING** > **FLASH FUNCTION SETTING** in the camera shooting menu to display flash options. The options available vary with the status of the connected unit.
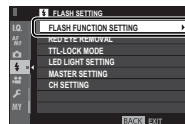
Option	Description
SYNC TERMINAL	Available with units connected via the sync terminal and with third-party and other units that use only the X-contact on the hot shoe. Also displayed if no flash unit is connected (🔲 144).
SHOE MOUNT FLASH	Displayed when an optional flash unit is mounted on the hot shoe and turned on (🔲 144).
MASTER (OPTICAL)	Displayed if an optional flash unit functioning as a master flash for FUJIFILM optical wireless remote flash control is connected and turned on (🔲 146).
SUPPLIED FLASH	Displayed when the EF-X8 flash unit supplied with FUJIFILM X-T1 and X-T2 cameras is connected and raised (🔲 148).

❧ **SYNC TERMINAL** will also be displayed if the flash is attached but not raised.

Technical Notes

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■ SYNC TERMINAL

The following options are available when a flash unit is connected via the sync terminal.
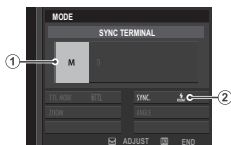
MODE
SYNC TERMINAL

1. **Flash control mode**: Choose from the options below.
   - **M**: A trigger signal is transmitted from the sync terminal and hot shoe when a picture is taken. Choose a shutter speed slower than the sync speed; even slower speeds may be required if the unit uses long flashes or has a slow response time.
   - **⑤OFF (OFF)**: The sync terminal and hot shoe do not transmit a trigger signal.

2. **Sync**: Choose whether the flash is timed to fire immediately after the shutter opens (**🗲/1ST CURTAIN**) or immediately before it closes (**🗲/2ND CURTAIN**). **1ST CURTAIN** is recommended in most circumstances.

🔦 The Sync Terminal

Use the sync terminal to connect flash units that require a sync cable.
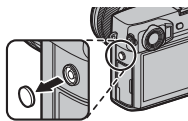
■ SHOE MOUNT FLASH

The following options are available when an optional shoe-mounted flash unit is attached and turned on.

MODE
SHOE MOUNT FLASH
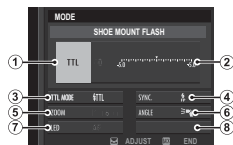
1. **Flash control mode**: The flash control mode selected with the flash unit. This can in some cases be adjusted from the camera; the options available vary with the flash.
   - **TTL**: TTL mode. Adjust flash compensation (**②**).
   - **M**: The flash fires at the selected output regardless of subject brightness or camera settings. Output in some cases can be adjusted from the camera (**②**).
   - **MULTI**: Repeating flash. Compatible shoe-mounted flash units will fire multiple times with each shot.
   - **⑤OFF (OFF)**: The flash does not fire. Some flash units can be turned off from the camera.

2. **Flash compensation/output**: The options available vary with flash control mode.
   - **TTL**: Adjust flash compensation (the full value may not be applied if the limits of the flash control system are exceeded). In the cases of the EF-X20, EF-20, and EF-42, the selected value is added to the value selected with the flash unit.
   - **M/MULTI**: Adjust flash output (compatible units only). Choose from values expressed as fractions of full power, from $\frac{1}{1}$ (mode **M**) or $\frac{1}{4}$ (**MULTI**) down to $\frac{1}{512}$ in increments equivalent to $\frac{1}{3}$ EV. 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.

C **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.

- **$\frac{TTL}{AUTO}$ (FLASH AUTO)**: The flash fires only as required; flash level is adjusted according to subject brightness. A $\blacksquare$ icon displayed when the shutter button is pressed halfway indicates that the flash will fire when the photo is taken.
- **$\frac{TTL}$ (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.
- **$\frac{TTL}{SLOW}$ (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.

D **Sync**: Control flash timing.

- **$\frac{4}{FRONT}$ (1ST CURTAIN)**: The flash fires immediately after the shutter opens (generally the best choice).
- **$\frac{4}{REAR}$ (2ND CURTAIN)**: The flash fires immediately before the shutter closes.
- **$\frac{4}{FP}$ (AUTO FP(HSS))**: High-speed sync (compatible units only). The camera automatically engages front-curtain high-speed sync at shutter speeds faster than the flash sync speed. Equivalent to **1ST CURTAIN** when **MULTI** is selected for flash control mode.

E **Zoom**: The angle of illumination (flash coverage) for units that support flash zoom. Some units allow the adjustment to be made from the camera. If **AUTO** is selected, zoom will automatically be adjusted to match coverage to lens focal length.

F **Lighting**: If the unit supports this feature, choose from the options below.

- **$=$ (FLASH POWER PRIORITY)**: Gain range by slightly reducing coverage.
- **$\geq$ (STANDARD)**: Match coverage to picture angle.
- **$>$ (EVEN COVERAGE PRIORITY)**: Slightly increase coverage for more even lighting.

G **LED light**: Choose how the built-in LED light functions during still photography (compatible units only). It can function as a catchlight (**$\bigodot$/CATCHLIGHT**), as an AF-assist illuminator (**AF/AF ASSIST**), or as both a catchlight and an AF-ASSIST illuminator (**$\frac{AF}{+}$/AF ASSIST+CATCHLIGHT**). Choose **OFF** to disable the LED during photography.

G **Number of flashes**: Choose the number of times the flash fires each time the shutter is released in **MULTI** mode. *

H **Frequency**: Choose the frequency at which the flash fires in **MULTI** mode. *

* Full value may not be applied if limits of flash control system are exceeded.

Technical Notes

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■ MASTER (OPTICAL)

The options at right will be displayed if the unit is currently functioning as master flash for FUJIFILM optical wireless remote flash control.

The master and remote units can be placed in up to three groups (A, B, and C) and flash mode and flash level adjusted separately for each group. Four channels are available for communication between the units; separate channels can be used for different flash systems or to prevent interference when multiple systems are operating in close proximity.
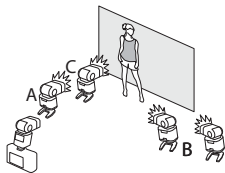
1 **Flash control mode (group A)**/2 **Flash control mode (group B)**/3 **Flash control mode (group C)**: Choose flash control modes for groups A, B, and C. **TTL%** is available for groups A and B only.

- **TTL**: The units in the group fire in TTL mode. Flash compensation can be adjusted separately for each group.
- **TTL%**: If **TTL%** is selected for either group A or B, you can specify the output of the selected group as a percentage of the other and adjust overall flash compensation for both groups.
- **M**: In mode **M**, the units in the group fire at the selected output (expressed as a fraction of full power) regardless of subject brightness or camera settings.
- **MULTI**: Choosing **MULTI** for any group sets all the units in all groups to repeating flash mode. All units will fire multiple times with each shot.
- **⑤OFF (OFF)**: If **OFF** is selected, the units in the group will not fire.

4 **Flash compensation/output (group A)**/5 **Flash compensation/output (group B)**/6 **Flash compensation/output (group C)**: Adjust flash level for the selected group according to option selected for flash control mode. Note that the full value may not be applied if the limits of the flash control system are exceeded.

- **TTL**: Adjust flash compensation.
- **M/MULTI**: Adjust flash output.
- **TTL%**: Choose the balance between groups A and B and adjust overall flash compensation.

⑦ **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.

- **$\frac{4TTL}{AUTO}$ (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.
- **$\frac{4TTL}{}$ (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.
- **$\frac{4TTL}{SLOW}$ (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.

⑧ **Sync**: Control flash timing.

- **$\frac{4}{FRONT}$ (1ST CURTAIN)**: The flash fires immediately after the shutter opens (generally the best choice).
- **$\frac{4}{REAR}$ (2ND CURTAIN)**: The flash fires immediately before the shutter closes.
- **$\frac{4}{FP}$ (AUTO FP(HSS))**: High-speed sync (compatible units only). The camera automatically engages front-curtain high-speed sync at shutter speeds faster than the flash sync speed. Equivalent to **1ST CURTAIN** when **MULTI** is selected for flash control mode.

⑨ **Zoom**: The angle of illumination (flash coverage) for units that support flash zoom. Some units allow the adjustment to be made from the camera. If **AUTO** is selected, zoom will automatically be adjusted to match coverage to lens focal length.

⑩ **Lighting**: If the unit supports this feature, choose from the options below.

- **$=\blacksquare$ (FLASH POWER PRIORITY)**: Gain range by slightly reducing coverage.
- **$\geq\blacksquare$ (STANDARD)**: Match coverage to picture angle.
- **$>\blacksquare$ (EVEN COVERAGE PRIORITY)**: Slightly increase coverage for more even lighting.

⑪ **Master**: Assign the master flash to group A (**Gr A**), B (**Gr B**), or C (**Gr C**). If **OFF** is selected, output from the master flash will be held to a level that does not affect the final picture. Available only if the unit is mounted on the camera hot shoe as a master flash for FUJIFILM optical wireless remote flash control in **TTL**, **TTL%**, or **M** mode.

⑪ **Number of flashes**: Choose the number of times the flash fires each time the shutter is released in **MULTI** mode.

⑫ **Channel**: Choose the channel used by the master flash for communication with the remote flash units. Separate channels can be used for different flash systems or to prevent interference when multiple systems are operating in close proximity.

⑫ **Frequency**: Choose the frequency at which the flash fires in **MULTI** mode.

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■ SUPPLIED FLASH

Displayed when the EF-X8 flash unit supplied with FUJIFILM X-T1 and X-T2 cameras is connected and raised.

(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 $1/1$ to $1/64$. 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 flash 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.

(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 (**1ST CURTAIN**) or immediately before it closes (**2ND CURTAIN**). **1ST CURTAIN** is recommended in most circumstances.

Caring for the Camera

To ensure continued enjoyment of the product, observe the following precautions.

Use and Storage Precautions

If the camera will not be used for an extended period, remove the battery and memory card. Do not store or use the camera in locations that are:

- exposed to rain, steam, or smoke
- very humid or extremely dusty
- exposed to direct sunlight or very high temperatures, such as in a closed vehicle on a very hot day
- extremely cold
- subject to strong vibration
- exposed to strong magnetic fields, such as near a broadcasting antenna, power line, radar emitter, motor, transformer, or magnet
- in contact with volatile chemicals such as pesticides
- in contact with rubber or vinyl products

■ Water and Sand

Exposure to water and sand can also damage the camera and its internal circuitry and mechanisms. When using the camera at the beach or seaside, avoid exposing the camera to water or sand. Do not place the camera on a wet surface.

■ Condensation

Sudden increases in temperature, such as occur when entering a heated building on a cold day, can cause condensation inside the camera. If this occurs, turn the camera off and wait an hour before turning it on again. If condensation forms on the memory card, remove the card and wait for the condensation to dissipate.

Traveling

Keep the camera in your carry-on baggage. Checked baggage may suffer violent shocks that could damage the camera.

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Cleaning the Image Sensor

Multiple photographs marred by spots or blotches in identical locations may indicate the presence of dust on the camera image sensor. Clean the sensor using **D USER SETTING** > **SENSOR CLEANING** (📖 115); if the problem persists, you can clean the sensor manually as described below. Note that there will be a charge to repair or replace the image sensor if it is damaged during cleaning.

 1 Use a blower (not a brush) to remove dust from the sensor.
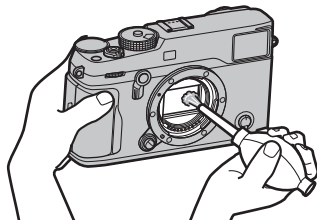
 ① Do not use a brush or blower brush. Failure to observe this precaution could damage the sensor.

 2 Check whether the dust has been successfully removed.

 ◆ Repeat Steps 1 and 2 as necessary.

 3 Replace the body cap or lens.

Troubleshooting

Problems and Solutions

■ **Power and Battery**

Problem	Solution
The camera does not turn on.	• **The battery is exhausted**: Charge the battery (🔲 19) or insert a fully-charged spare battery (🔲 20). • **The battery is inserted incorrectly**: Reinsert in the correct orientation (🔲 20). • **The battery-chamber cover is not latched**: Latch the battery-chamber cover (🔲 20).
The monitor does not turn on.	The monitor may not turn on if the camera is turned off and then on again very quickly. Press the shutter button halfway to activate the monitor.
The battery runs down quickly.	• **The battery is cold**: Warm the battery by placing it in a pocket or other warm place and reinsert it in the camera immediately before taking a picture. • **There is dirt on the battery terminals**: Clean the terminals with a soft, dry cloth. • **ON is selected for 🗗 AF/MF SETTING > PRE-AF**: Turn **PRE-AF** off (🔲 95). • **The battery has been charged many times**: The battery has reached the end of its charging life. Purchase a new battery.
The camera turns off suddenly.	**The battery is exhausted**: Charge the battery (🔲 19) or insert a fully-charged spare battery (🔲 20).
Charging does not start.	Reinsert the battery in the correct orientation and make sure that the charger is plugged in (🔲 19).
Charging is slow.	Charge the battery at room temperature (🔲 v).
The charging lamp blinks, but the battery does not charge.	• **There is dirt on the battery terminals**: Clean the terminals with a soft, dry cloth. • **The battery has been charged many times**: The battery has reached the end of its charging life. Purchase a new battery. If the battery still fails to charge, contact your FUJIFILM dealer.

■ **Menus and Displays**

Problem	Solution
Display is not in English.	Select **ENGLISH** for 🗗 **USER SETTING** > 言語/**LANG.** (🔲 27, 115).

■ Shooting

Problem	Solution
No picture is taken when the shutter button is pressed.	• **The memory card is full**: Insert a new memory card or delete pictures (🔲 22, 43). • **The memory card is not formatted**: Format the memory card (🔲 114). • **There is dirt on the memory card contacts**: Clean the contacts with a soft, dry cloth. • **The memory card is damaged**: Insert a new memory card (🔲 22). • **The battery is exhausted**: Charge the battery (🔲 19) or insert a fully-charged spare battery (🔲 20). • **The camera has turned off automatically**: Turn the camera on (🔲 25).
Mottling ("noise") appears in the monitor or viewfinder when the shutter button is pressed halfway.	Gain is increased to aid composition when the subject is poorly lit and aperture is stopped down, which may result in noticeable mottling when images are previewed in the displays. Images taken with the camera are unaffected.
The camera does not focus.	**The subject is not suited to autofocus**: Use focus lock (🔲 77) or manual focus (🔲 64).
Intelligent Face Detection is not available.	**Intelligent Face Detection is not available in the current shooting mode**: Choose a different shooting mode (🔲 167).
No face is detected.	• **The subject's face is obscured by sunglasses, a hat, long hair, or other objects**: Remove the obstructions. • **The subject's face occupies only a small area of the frame**: Change the composition so that the subject's face occupies a larger area of the frame (🔲 95). • **The subject's head is tilted or horizontal**: Ask the subject to hold their head straight. • **The camera is tilted**: Keep the camera level. • **The subject's face is poorly lit**: Shoot in bright light.
Wrong subject is selected.	The selected subject is closer to the center of the frame than the main subject. Recompose the picture or turn face detection off and frame the picture using focus lock (🔲 77).

Problem	Solution
The flash does not fire.	**The battery is exhausted**: Charge the battery (📷 19) or insert a fully-charged spare battery (📷 20).
The flash does not fully light the subject.	• **The subject is not in range of the flash**: Position the subject in range of the flash. • **The flash window is obstructed**: Hold the camera correctly. • **Shutter speed is faster than ½₅₀ s**: Choose a slower shutter speed (📷 36, 38, 80).
Pictures are blurred.	• **The lens is dirty**: Clean the lens (📷 xi). • **The lens is blocked**: Keep objects away from the lens. • **!AF is displayed during shooting and the focus frame is displayed in red**: Check focus before shooting (📷 76).
Pictures are mottled.	• **Shutter speed is slow and the ambient temperature is high**: This is normal and does not indicate a malfunction. • **Pixel mapping is required**: Perform pixel mapping using 🖳 **IMAGE QUALITY SETTING** > **PIXEL MAPPING** (📷 92). • **The camera has been used continuously at high temperatures or a temperature warning is displayed**: Turn the camera off and wait for it to cool down.

Troubleshooting

■ **Playback**

Problem	Solution
Pictures are grainy.	The pictures were taken with a different make or model of camera.
Playback zoom is unavailable.	The pictures were created using **RESIZE** or with a different make or model of camera.
No sound in movie playback.	• **Playback volume is too low**: Adjust playback volume (🗐 46, 116). • **The microphone was obstructed**: Hold the camera correctly during recording (🗐 2, 44). • **The speaker is obstructed**: Hold the camera correctly during playback (🗐 2, 46).
Selected pictures are not deleted.	Some of the pictures selected for deletion are protected. Remove protection using the device with which it was originally applied (🗐 108).
File numbering is unexpectedly reset.	The battery-chamber cover was opened while the camera was on. Turn the camera off before opening the battery-chamber cover (🗐 20, 25).

■ **Connections/Miscellaneous**

For additional information on troubleshooting wireless connections, visit:

http://digital-cameras.support.fujifilm.com/app?pid=x

Problem	Solution
Problem connecting or uploading pictures to smartphone.	• **The smartphone is too far away**: Move the devices closer. • **Nearby devices are causing radio interference**: Move the camera and smartphone away from microwave ovens or cordless phones.
Can not upload images.	• **The smartphone is connected to another device**: The smartphone and camera can connect to only one device at a time. End the connection and try again. • **There are several smartphones in the vicinity**: Try connecting again. The presence of multiple smartphones can make connection difficult. • The current image is a movie or was created on another device and can not be uploaded to a smartphone.

Problem	Solution
Smartphone will not display pictures.	Select **ON** for D **CONNECTION SETTING** > **WIRELESS SETTING** > **RESIZE IMAGE FOR SMARTPHONE** **3M**. Selecting **OFF** increases upload times for larger images; in addition, some phones may not display images over a certain size.
No picture or sound on TV.	• **The camera is not properly connected**: Connect the camera properly (P 137). Note that once the camera is connected, pictures will be displayed on the TV instead of in the camera monitor. • **Input on the television is set to "TV"**: Set input to "HDMI". • **The volume on the TV is too low**: Use the controls on the television to adjust the volume.
The computer does not recognize the camera.	Be sure the camera and computer are correctly connected (P 131).
Can not transfer RAW or JPEG files to computer.	Use MyFinePix Studio to transfer pictures (Windows only; P 130).
The camera is unresponsive.	• **Temporary camera malfunction**: Remove and reinsert the battery (P 20). • **The battery is exhausted**: Charge the battery (P 19) or insert a fully-charged spare battery (P 20). • **The camera is connected to a wireless LAN**: End the connection.
The camera does not function as expected.	Remove and reinsert the battery (P 20). If the problem persists, contact your FUJIFILM dealer.
No sound.	Adjust the volume (P 116).

Troubleshooting

Warning Messages and Displays

The following warnings appear in the display.

Warning	Description
▭ (red)	Low battery. Charge the battery (📖 19) or insert a fully-charged spare battery (📖 20).
▭ (blinks red)	Battery exhausted. Charge the battery (📖 19) or insert a fully-charged spare battery (📖 20).
!AF (displayed in red with red focus frame)	The camera can not focus. Use focus lock to focus on another subject at the same distance, then recompose the picture (📖 77).
Aperture or shutter speed displayed in red	The subject is too bright or too dark and the picture will be over- or under-exposed. Use the flash for additional lighting when taking photographs of poorly-lit subjects (📖 79).
FOCUS ERROR	Camera malfunction. Turn the camera off and then on again. If the message persists, contact a FUJIFILM dealer.
TURN OFF THE CAMERA AND TURN ON AGAIN	
LENS CONTROL ERROR	
LENS ERROR	Turn the camera off, remove the lens, and clean the mounting surfaces, then replace the lens and turn the camera on. If the problem persists, contact a FUJIFILM dealer.
BUSY	The memory card is incorrectly formatted. Use the camera to format the card (📖 114).
CARD NOT INITIALIZED	• **The memory card is not formatted or the memory card has been formatted in a computer or other device**: Format the memory card using **🅩 USER SETTING** > **FORMAT** (📖 114). • **The memory card contacts require cleaning**: Clean the contacts with a soft, dry cloth. If the message is repeated, format the card (📖 114). If the message persists, replace the card. • **Camera malfunction**: Contact a FUJIFILM dealer.
PROTECTED CARD	The memory card is locked. Unlock the card.

Warning	Description
CARD ERROR	• **The memory card is not formatted for use in the camera**: Format the card (🔲 114). • **The memory card contacts require cleaning or the memory card is damaged**: Clean the contacts with a soft, dry cloth. If the message is repeated, format the card (🔲 114). If the message persists, replace the card. • **Incompatible memory card**: Use a compatible card (🔲 24). • **Camera malfunction**: Contact a FUJIFILM dealer.
⚏ MEMORY FULL	The memory card is full and pictures can not be recorded. Delete pictures (🔲 43) or insert a memory card with more free space (🔲 22).
NO CARD	The shutter can only be released when a memory card is inserted. Insert a memory card.
WRITE ERROR	• **Memory card error or connection error**: Reinsert the card or turn the camera off and then on again. If the message persists, contact a FUJIFILM dealer. • **Not enough memory remaining to record additional pictures**: Delete pictures (🔲 43) or insert a memory card with more free space (🔲 22). • **The memory card is not formatted**: Format the memory card (🔲 114).
READ ERROR	• **The file is corrupt or was not created with the camera**: The file can not be viewed. • **The memory card contacts require cleaning**: Clean the contacts with a soft, dry cloth. If the message is repeated, format the card (🔲 114). If the message persists, replace the card. • **Camera malfunction**: Contact a FUJIFILM dealer.
FRAME NO. FULL	The camera has run out of frame numbers (current frame number is 999-9999). Format the memory card and select **RENEW** for B **SAVE DATA SETTING** >**FRAME NO.**. Take a picture to reset frame numbering to 100-0001, then select **CONTINUOUS** for **FRAME NO.**.

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Warning	Description
PROTECTED FRAME	An attempt was made to delete or rotate to a protected picture. Remove protection and try again (⎙ 108).
CAN NOT CROP	The picture is damaged or was not created with the camera.
⊞ CANNOT EXECUTE	Red-eye removal can not be applied to pictures created with other devices.
⚫ CANNOT EXECUTE	Red-eye removal can not be applied to movies.
CAN NOT ROTATE	The selected picture can not be rotated.
⚫ CAN NOT ROTATE	Movies can not be rotated.
DPOF FILE ERROR	The DPOF print order on the current memory card contains more than 999 images. Copy the pictures to a computer and create a new print order.
CAN NOT SET DPOF	The picture can not be printed using DPOF.
⚫ CAN NOT SET DPOF	Movies can not be printed using DPOF.
!⫶ (yellow)	Turn the camera off and wait for it to cool. Mottling may increase in pictures taken when this warning is displayed.
!⫶ (red)	Turn the camera off and wait for it to cool. Display quality and burst rate will drop, and mottling may increase in pictures taken when this warning is displayed.

Appendix

Memory Card Capacity

The following table shows the recording time or number of pictures available at different image sizes. All figures are approximate; file size varies with the scene recorded, producing wide variations in the number of files that can be stored. The number of exposures or length remaining may not diminish at an even rate.

Capacity		8 GB		16 GB	
◆		**FINE**	**NORMAL**	**FINE**	**NORMAL**
Photographs	**L 3 : 2**	540	800	1110	1660
	RAW (UNCOMPRESSED)	150		320	
	RAW (LOSSLESS COMPRESSED)	300		630	
Movies[1]	**1080/60 P**[2] **1080/50 P**[2] **1080/30 P**[2] **1080/25 P**[2] **1080/24 P**[2]	26 min.		54 min.	
	720/60 P[3] **720/50 P**[3] **720/30 P**[3] **720/25 P**[3] **720/24 P**[3]	51 min.		105 min.	

1 Use a UHS speed class 1 card or better.
2 Individual movies can not exceed 14 minutes in length.
3 Individual movies can not exceed 28 minutes in length.

Links

For more information on FUJIFILM digital camera, visit the websites listed below.

FUJIFILM X-Pro2 Product Information

Optional accessories and support information can be found on the following website.

| fujifilm X-Pro2 | 🔍 |

Firmware Updates

Updates to product firmware may result in changes not described in the manual. For more information, visit:

http://www.fujifilm.com/support/digital_cameras/software

| fujifilm firmware | 🔍 |

🐾 **Checking the Firmware Version**

① The camera will only display the firmware version if a memory card is inserted.

1 Turn the camera off and check that a memory card is inserted.

2 Turn the camera on while pressing the **DISP/BACK** button. The current firmware version will be displayed; check the firmware version.

3 Turn the camera off.

Specifications

System	
Model	FUJIFILM X-Pro2 digital camera
Effective pixels	Approx. 24.3 million
Image sensor	23.5 mm × 15.6 mm (APS-C), X-Trans CMOS III sensor with primary color filter
Storage media	FUJIFILM-recommended SD/SDHC/SDXC memory cards
Memory card slots	Two SD memory card slot
File system	Compliant with **D**esign Rule for **C**amera **F**ile System (DCF), Exif 2.3, and **D**igital **P**rint **O**rder **F**ormat (DPOF)
File format	• **Still pictures**: Exif 2.3 JPEG (compressed); RAW (original RAF format, uncompressed or compressed using a lossless algorithm; special purpose software required); RAW+JPEG available • **Movies**: H.264 standard with stereo sound (MOV)
Image size	• **L** **3:2**: 6,000×4,000 • **L** **16:9**: 6,000×3,376 • **L** **1:1**: 4,000×4,000 • **M** **3:2**: 4,240×2,832 • **M** **16:9**: 4,240×2,384 • **M** **1:1**: 2,832×2,832 • **S** **3:2**: 3,008×2,000 • **S** **16:9**: 3,008×1,688 • **S** **1:1**: 2,000×2,000
Lens mount	FUJIFILM X mount
Sensitivity	Standard output sensitivity equivalent to ISO 200–12800; AUTO; extended output sensitivity equivalent to ISO 100, 125, 160, 25600, or 51200
Metering	256-segment **t**hrough-**t**he-**l**ens (TTL) metering; MULTI, SPOT, AVERAGE, CENTER WEIGHTED
Exposure control	Programmed AE (with program shift); shutter-priority AE; aperture-priority AE; manual exposure
Exposure compensation	−5 EV – +5 EV in increments of ⅓ EV

Shutter speed	• MECHANICAL SHUTTER
	  - **P mode**: 4 sec. to 1/8,000 sec. - **Time**: 15 min. to 1/8,000 sec.
	  - **Bulb**: Max. 60 min. - **All other modes**: 15 min. to 1/8,000 sec.
	• ELECTRONIC SHUTTER
	  - **P, S, A, and M modes**: 1 sec. to 1/32,000 sec. - **Time**: 1 sec. to 1/32,000 sec.
	  - **Bulb**: Fixed at 1 sec.
	• MECHANICAL + ELECTRONIC
	  - **P mode**: 4 sec. to 1/32,000 sec. - **Time**: 15 min. to 1/32,000 sec.
	  - **Bulb**: Max. 60 min. - **All other modes**: 15 min. to 1/32,000 sec.

System			
Continuous	**Mode**		**Frame rate (fps)**	**Frames per burst**

	Mode	**Frame rate (fps)**	**Frames per burst**
📷	**8.0 fps**	8.0	Up to approximately 53
	3.0 fps	3.0	Up to approximately 62

> ❧ The frame rate and number of frames per burst may vary depending on the type of memory card used. The figures above are for UHS speed class 1 cards.
> ❧ The frame rate varies with shooting conditions and the number of images recorded.

Focus	• **Mode**: Single or continuous AF; manual focus with focus ring • **Focus-area selection**: SINGLE POINT, ZONE, WIDE/TRACKING • **Autofocus system**: Intelligent hybrid AF (TTL contrast-detect/phase-detection AF) with AF-assist illuminator
White balance	Custom 1, Custom 2, Custom 3, color temperature selection, auto, direct sunlight, shade, daylight fluorescent, warm white fluorescent, cool white fluorescent, incandescent, underwater
Self-timer	Off, 2 sec., 10 sec.
Flash	Accessory shoe with TTL contacts and sync contact (X contact) that supports sync speeds as fast as $1/_{250}$ s
Mode	Auto, fill flash, off, slow sync, rear-curtain sync, commander (red-eye removal off); auto with red-eye removal, fill flash with red-eye removal, off, slow sync with red-eye removal, rear-curtain sync with red-eye removal, commander (red-eye removal on)
Hot shoe	Accessory shoe with TTL contacts
Sync terminal	Provided
Hybrid viewfinder	• **Optical viewfinder (OVF)**: Reverse Galilean viewfinder with electronic bright frame display and approx. 0.36×/0.6× magnification; frame coverage approx. 92% • **Electronic viewfinder (EVF)**: 0.48-in., 2,360k-dot color LCD viewfinder with diopter adjustment (-4 to $+2\,m^{-1}$); magnification 0.59× with 50 mm lens (35 mm format equivalent) at infinity and diopter set to $-1.0\,m^{-1}$; diagonal angle of view approximately 29.1° (horizontal angle of view approximately 24.4°); eye point approx. 16 mm
LCD monitor	Fixed 3.0-in/7.6 cm, 1620k-dot color LCD monitor

System	
Movies	• **1080/60P**: Frame size 1,920 × 1,080 (1080p); 60 fps; stereo sound
	• **1080/50P**: Frame size 1,920 × 1,080 (1080p); 50 fps; stereo sound
	• **1080/30P**: Frame size 1,920 × 1,080 (1080p); 30 fps; stereo sound
	• **1080/25P**: Frame size 1,920 × 1,080 (1080p); 25 fps; stereo sound
	• **1080/24P**: Frame size 1,920 × 1,080 (1080p); 24 fps; stereo sound
	• **720/60P**: Frame size 1,280 × 720 (720p); 60 fps; stereo sound
	• **720/50P**: Frame size 1,280 × 720 (720p); 50 fps; stereo sound
	• **720/30P**: Frame size 1,280 × 720 (720p); 30 fps; stereo sound
	• **720/25P**: Frame size 1,280 × 720 (720p); 25 fps; stereo sound
	• **720/24P**: Frame size 1,280 × 720 (720p); 24 fps; stereo sound

Input/output terminals	
HDMI output	Micro HDMI connector (Type D)
Digital input/output	Micro USB connector (USB 2.0 High-Speed)
Microphone/ remote release connector	φ2.5 mm mini-stereo jack

Power supply/other	
Power supply	NP-W126/NP-W126S rechargeable battery
Battery life (approximate number of frames that can be taken with a fully-charged battery in mode **P**, XF 35 mm f/1.4 R lens)	• **Battery type**: NP-W126/NP-W126S (type supplied with camera) • **Approximate number of frames**:

	LCD	EVF	OVF
HIGH PERFORMANCE	250	210	350
STANDARD	280	250	350
ECONOMY	330	330	380

CIPA standard, measured using battery supplied with camera and SD memory card.

Note: Number of shots that can be taken with battery varies with battery charge level and will decline at low temperatures.

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Power supply/other	
Camera size ($W \times H \times D$)	140.5 mm $\times$ 82.8 mm $\times$ 45.9 mm (34.8 mm excluding projections, measured at thinnest part)/5.5 in. $\times$ 3.3 in. $\times$ 1.8 in. (1.4 in.)
Camera weight	Approx. 445 g/15.7 oz., excluding battery, accessories, and memory card
Shooting weight	Approx. 495 g/17.5 oz., including battery and memory card
Operating conditions	• **Temperature**: $-10\,°C$ to $+40\,°C/+32\,°F$ to $+104\,°F$ • **Humidity**: 10% – 80% (no condensation)

Wireless transmitter	
Standards	IEEE 802.11b/g/n (standard wireless protocol)
Operating frequency	• **U. S. A., Canada, Taiwan**: 2,412 MHz–2,462 MHz (11 channels) • **Other countries**: 2,412 MHz–2,472 MHz (13 channels)
Access protocols	Infrastructure

NP-W126/NP-W126S rechargeable battery	
Nominal voltage	7.2 V DC
Nominal capacity	1,260 mAh
Operating temperature	0 ℃ to +40 ℃/+32 ℉ to +104 ℉
Dimensions (W × H × D)	36.4 mm × 47.1 mm × 15.7 mm/1.4 in. × 1.9 in. × 0.6 in.
Weight	Approx. 47 g/1.7 oz.

BC-W126 battery charger	
Rated input	100 V – 240 V AC, 50/60 Hz
Input capacity	13 – 21 VA
Rated output	8.4 V DC, 0.6 A
Supported batteries	NP-W126/NP-W126S rechargeable batteries
Charging time	Approx. 150 minutes (+20 ℃/+68 ℉)
Operating temperature	5 ℃ to +40 ℃/+41 ℉ to +104 ℉
Dimensions (W × H × D)	65 mm × 91.5 mm × 28 mm/2.6 in. × 3.6 in. × 1.1 in., excluding projections
Weight	Approx. 77 g/2.7 oz., excluding battery

Weight and dimensions vary with the country or region of sale. Labels, menus, and other displays may differ from those on the actual camera.

Appendix

■ **Notices**

• Specifications subject to change without notice; for the latest information, visit *http://www.fujifilm.com/products/ digital_cameras/index.html*. FUJIFILM shall not be held liable for damages resulting from errors in this manual.

• Although the viewfinder and LCD monitor are manufactured using advanced high-precision technology, small bright points and anomalous colors may appear, particularly in the vicinity of text. This is normal for this type of LCD display and does not indicate a malfunction; images recorded with the camera are unaffected.

• Digital cameras may malfunction when exposed to strong radio interference (e.g., electric fields, static electricity, or line noise).

• Due to the type of lens used, some distortion may occur at the periphery of images. This is normal.

Restrictions on Camera Settings

The options available in each shooting mode are listed below. Some options may not be available for the items that are supported in any given mode, and function may be restricted depending on shooting conditions.

Shooting mode/scene position		P	S	A	M	⚟	BKT	▣	Adv	🎥	📶[3]
F		✔[1]	✔[1]	✔	✔	✔	✔	✔	✔	✔	✔
S.S.		✔[1]	✔[4]	✔[1]	✔[4]	✔	✔	✔	✔	✔[3]	✔
Program shift		✔				✔	✔	✔	✔		✔[7]
Exposure compensation		✔	✔	✔	✔[5]	✔	✔	✔	✔	✔[2]	✔
Focus mode	S	✔	✔	✔	✔	✔	✔	✔	✔[1]	✔	✔[7]
	C	✔	✔	✔	✔	✔	✔	✔		✔	✔[1]
	M	✔	✔	✔	✔	✔	✔	✔		✔	✔[7]
Sensitivity	AUTO	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	H (51200)/H (25600)	✔	✔	✔	✔	✔	✔[3]	✔			✔
	12800 – 1000	✔	✔	✔	✔	✔	✔	✔		✔[9]	✔
	800	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
	640 – 200	✔	✔	✔	✔	✔	✔[3]	✔	✔	✔	✔
	L (100)/L (125)/L (160)	✔	✔	✔	✔	✔	✔[3]	✔			✔
IMAGE SIZE	🄻	✔	✔	✔	✔	✔	✔	✔	✔		✔[7]
	🄼	✔	✔	✔	✔	✔	✔	✔	✔		✔[7]
	🄼	✔	✔	✔	✔	✔	✔	✔	✔		✔[7]
IMAGE QUALITY	FINE/NORMAL	✔	✔	✔	✔	✔	✔	✔	✔		✔[7]
	RAW	✔	✔	✔	✔	✔	✔[3]				✔[7]
FILM SIMULATION	🄢🄣🄓	✔	✔	✔	✔	✔	✔	✔	✔[1]	✔	✔
	🄥/🄢/🄒	✔	✔	✔	✔	✔	✔	✔		✔	✔
	🄝🄷/🄝🄴	✔	✔	✔	✔	✔	✔	✔		✔	✔
	🄐/🄐🄥/🄐🄡/🄐🄒	✔	✔	✔	✔	✔	✔	✔		✔	✔
	🄑🄵/🄑🄵/🄑🄵/🄑🄶	✔	✔	✔	✔	✔	✔	✔		✔	✔
	🄔🄿🄿	✔	✔	✔	✔	✔	✔	✔		✔	✔
GRAIN EFFECT		✔	✔	✔	✔	✔	✔	✔			✔[7]

Shooting mode/scene position		P	S	A	M	Qᵢ	BKT	▣	A⊕	🎥	📶³
DYNAMIC RANGE	AUTO	✔	✔	✔	✔	✔	✔		✔	✔¹	✔⁷
	100/200/400	✔	✔	✔	✔	✔	✔	✔	✔		✔⁷
WHITE BALANCE		✔	✔	✔	✔	✔	✔	✔	✔¹	✔	✔
HIGHLIGHT TONE		✔	✔	✔	✔	✔	✔	✔			✔⁷
SHADOW TONE		✔	✔	✔	✔	✔	✔	✔			✔⁷
COLOR		✔	✔	✔	✔	✔	✔	✔			✔⁷
SHARPNESS		✔	✔	✔	✔	✔	✔	✔			✔⁷
NOISE REDUCTION		✔	✔	✔	✔	✔	✔	✔			✔⁷
LONG EXPOSURE NR		✔	✔	✔	✔	✔	✔	✔	✔		✔⁷
LENS MODULATION OPTIMIZER		✔	✔	✔	✔	✔	✔	✔	✔		✔⁷
COLOR SPACE		✔	✔	✔	✔	✔	✔	✔	✔	✔⁶	✔⁷
SELECT CUSTOM SETTING EDIT/SAVE CUSTOM SETTING		✔	✔	✔	✔	✔	✔	✔			
AF MODE	▪	✔	✔	✔	✔	✔	✔	✔	✔		✔¹
	▦	✔	✔	✔	✔	✔	✔	✔	✔	✔¹	
	▢	✔	✔	✔	✔	✔	✔	✔	✔		
AF ILLUMINATOR		✔	✔	✔	✔	✔	✔	✔	✔		✔⁷
FACE DETECTION		✔	✔	✔	✔	✔	✔	✔	✔	✔	
EYE DETECTION AF		✔	✔	✔	✔	✔	✔	✔	✔		
AF+MF		✔	✔	✔	✔	✔	✔	✔			
MF ASSIST	STANDARD	✔	✔	✔	✔	✔	✔	✔¹			
	DIGITAL SPLIT IMAGE	✔	✔	✔	✔	✔	✔				
	FOCUS PEAK HIGHLIGHT	✔	✔	✔	✔	✔	✔				
FOCUS CHECK		✔	✔	✔	✔	✔	✔	✔			
SELF-TIMER		✔	✔	✔	✔	✔	✔	✔	✔		✔

Shooting mode/scene position		P	S	A	M	▣	BKT	▦	AUTO	🎬	🛜[3]
PHOTOMETRY	[▣]	✔	✔	✔	✔	✔	✔	✔	✔[1]	✔[1]	✔[7]
	[◉]	✔	✔	✔	✔	✔	✔	✔			✔
	[•]	✔	✔	✔	✔	✔	✔	✔			✔[7]
	[ ]	✔	✔	✔	✔	✔	✔	✔			✔[7]
SHUTTER TYPE	MS	✔	✔	✔	✔	✔	✔	✔	✔		✔[7]
	MS+ES	✔	✔	✔	✔	✔	✔	✔	✔		✔[7]
	ES	✔	✔	✔	✔	✔	✔	✔	✔	✔[1]	✔[7]
IS MODE	(⬤)₁	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔[7]
	(⬤)₂	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔[7]
	OFF	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔[7]
PREVIEW EXP./WB IN MANUAL MODE					✔	✔	✔	✔	✔		✔[7]

Shooting mode/scene position		P	S	A	M	⚙	BKT	▣	Aⓘ	🎥	⌘[3]
DISP. CUSTOM SETTING	**FRAMING GUIDELINE**	✔	✔	✔	✔	✔	✔	✔	✔		
	ELECTRONIC LEVEL	✔	✔	✔	✔	✔	✔	✔	✔	✔	
	FOCUS FRAME	✔	✔	✔	✔	✔	✔	✔	✔		
	AF DISTANCE INDICATOR	✔	✔	✔	✔	✔	✔	✔	✔		
	MF DISTANCE INDICATOR	✔	✔	✔	✔	✔	✔	✔		✔	
	HISTOGRAM	✔	✔	✔	✔	✔	✔	✔			
	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	✔	✔	✔	✔	✔	✔	✔	✔	✔	
	WHITE BALANCE	✔	✔	✔	✔	✔	✔	✔		✔	
	FILM SIMULATION	✔	✔	✔	✔	✔	✔	✔		✔	
	DYNAMIC RANGE	✔	✔	✔	✔	✔	✔	✔	✔		
	FRAMES REMAINING	✔	✔	✔	✔	✔	✔	✔	✔		
	IMAGE SIZE/QUALITY	✔	✔	✔	✔	✔	✔	✔	✔		
	MOVIE MODE & REC. TIME	✔	✔	✔	✔	✔	✔	✔	✔	✔	
	BATTERY LEVEL	✔	✔	✔	✔	✔	✔	✔	✔	✔	
AF-LOCK MODE	**AF-L**	✔	✔	✔	✔	✔	✔	✔	✔		✔[7]
	AE+AF	✔	✔	✔		✔	✔	✔	✔		✔[7]

1 Fixed automatically.

2 Restricted to range of ±2.0 EV during movie recording.

3 Options available vary with shooting mode.

4 **A** is not available.

5 Available only with auto ISO sensitivity.

6 sRGB selected automatically.

7 Still photography settings are used.

8 Wireless remote photography.

9 Maximum sensitivity for movies is ISO 6400.

Memo

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