

DIGITAL CAMERA

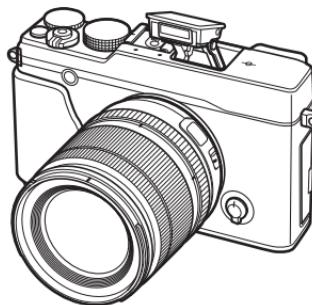
X-E2S

Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM X-E2S digital camera. Be sure that you have read and understood its contents before using the camera.

■ Product website:

<http://fujifilm-x.com/x-e2s/>



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

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

**Before You Begin****First Steps****Basic Photography
and Playback****Basic Movie Recording
and Playback****The Q (Quick Menu) Button****More on Photography
and Playback****Menus****Connections****Technical Notes****Troubleshooting****Appendix**

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.

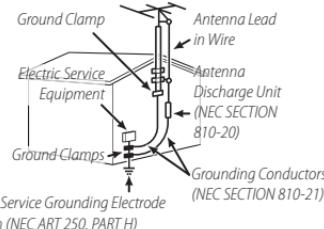


Antennas

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 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.

Service

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").



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

WARNING

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 disassemble.



Do not touch internal parts.



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	 WARNING	 CAUTION
 <i>Do not touch any metal parts of the camera during a thunderstorm.</i> This can cause an electric shock due to induced current from the lightning discharge.	 <i>Keep memory cards, hot shoes, and other small parts out of the reach of small children.</i> Children may swallow small parts; keep out of reach of children. Should a child swallow a small part, seek medical attention or call emergency.	 <i>Do not use this camera in locations affected by oil fumes, steam, humidity or dust.</i> This can cause a fire or electric shock.
 <i>Do not use the battery except as specified.</i> Load the battery as shown by the indicator.	 <i>Keep out of reach of small children.</i> 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.	 <i>Do not leave this camera in places subject to extremely high temperatures.</i> Do not leave the camera in locations such as a sealed vehicle or in direct sunlight. This can cause a fire.
 <i>Do not heat, change or take apart the battery. Do not drop or subject the battery to impacts. Do not store the battery with metallic products.</i> Any of these actions can cause the battery to burst or leak and cause fire or injury as a result.	 <i>Follow the directions of airline and hospital personnel.</i> This product generates radio-frequency emissions that could interfere with navigational or medical equipment.	 <i>Do not place heavy objects on the camera.</i> This can cause the heavy object to tip over or fall and cause injury.
 <i>Use only batteries or AC power adapters specified for use with this camera. Do not use voltages other than the power supply voltage shown.</i> The use of other power sources can cause a fire.	 <i>If the battery leaks any 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.</i>	 <i>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.</i> This can damage the power cord or cables and cause a fire or electric shock.
 <i>Do not use the charger to charge batteries other than those specified here.</i> 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.	 <i>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.</i> Failure to do so can cause a fire or electric shock.	 <i>Do not cover or wrap the camera or the AC power adapter in a cloth or blanket.</i> This can cause heat to build up and distort the casing or cause a fire.
 <i>Using a flash too close to a person's eyes may cause visual impairment.</i> Take particular care when photographing infants and young children.	 <i>When charging ends, unplug the charger from the power socket.</i> Leaving the charger plugged into the power socket can cause a fire.	 <i>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.</i> Injury could result to those struck by the ejected card.
 <i>Do not use in the presence of flammable objects, explosive gases, or dust.</i>	 <i>Request regular internal testing and cleaning for your camera.</i> 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.	 <i>Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.</i>
 <i>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.</i> Contact with other metallic objects or batteries could cause the battery to ignite or burst.		

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 at 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°C (+50°F) or above +35°C (+95°F). Do not attempt to charge the battery at temperatures above 40°C (+104°F); at temperatures below 0°C (+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°C to +25°C (+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  are trademarks of FUJIFILM Corporation. The typefaces included herein are solely developed by DynaComware Taiwan Inc. Macintosh, QuickTime, and Mac OS are trademarks of Apple Inc. in the U.S.A. and other countries. *The Windows logo is a trademark of the Microsoft group of companies*. Wi-Fi® and Wi-Fi Protected Setup® are registered trademarks of the Wi-Fi Alliance. Adobe and Adobe Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the U.S.A. and/or other countries. The SDHC and SDXC logos are trademarks of SD-3C, LLC. The HDMI logo is a trademark. YouTube is a trademark of Google Inc. 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>.

For Customers in the U.S.A.**Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE**

Contains IC: 7736B-02000002

Contains FCC ID: WZ2-02000002

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

CAUTION: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement: This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. *Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

Notes on the Grant: To comply with Part 15 of the FCC Rules, this product must be used with a Fujifilm-specified ferrite-core A/V cable, USB cable, and DC supply cord.



A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

For Customers in Canada**CAN ICES-3 (B)/NMB-3(B)**

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

Industry Canada statement: This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios. The County Code Selection feature is disabled for products marketed in the US/ Canada.

Radiation Exposure Statement: The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health

effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. X-Pro2 has been tested and found to comply with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules.

Disposal of Electrical and Electronic Equipment in Private Households**In the European Union, Norway, Iceland and Liechtenstein:**

This symbol on the product, or in the manual and in the warranty, and/or on its packaging indicates that this product shall not be treated as household waste. Instead it should be taken to an applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

This symbol on the batteries or accumulators indicates that those batteries shall not be treated as household waste.



If your equipment contains easy removable batteries or accumulators please dispose these separately according to your local requirements.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

In Countries Outside the European Union, Norway, Iceland and Liechtenstein: If you wish to discard this product, including the batteries or accumulators, please contact your local authorities and ask for the correct way of disposal.

In Japan: This symbol on the batteries indicates that they are to be disposed of separately.



Li-ion

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

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").



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

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.

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 open the case).

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.

European Union regulatory notice

This product complies with the following EU Directives:

- RoHS Directive 2011/65/EU
- R & TTE Directive 1999/5/EC

Compliance with these directives implies conformity to applicable harmonized European standards (European Norms) which are listed on the EU Declaration of Conformity issued by FUJIFILM Corporation for this product or product family.

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



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

Regarding the Declaration of Conformity, visit http://www.fujifilm.com/products/digital_cameras/x/fujifilm_x_e2s/pdf/index/fujifilm_x_e2s_cod.pdf.

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.



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” (☞ ii). For information on specific topics, consult the sources below.

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Find out what’s behind that flashing icon or error message in the display.

Troubleshooting **135**

Having a specific problem with the camera? Find the answer here.

Restrictions on Camera Settings **151**

See page 151 for restrictions on the options available in each shooting mode.

Memory Cards

Pictures are stored on optional SD, SDHC, and SDXC memory cards (☞ 20), 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  **SENSOR CLEANING** option in the setup menu (说明书 110).

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 use.

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Before You Begin

Symbols and Conventions

The following symbols are used in this manual:

- ➊ This information should be read before use to ensure correct operation.
- ❖ Additional information that may be helpful when using the camera.
- BOOK Other pages in this manual on which related information may be found.

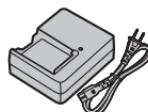
Menus and other text in the displays are shown in **bold**. In the illustrations in this manual, displays may be simplified for explanatory purposes.

Supplied Accessories

The following items are included with the camera:



NP-W126 rechargeable battery



BC-W126 battery charger



Body cap



Clip attaching tool



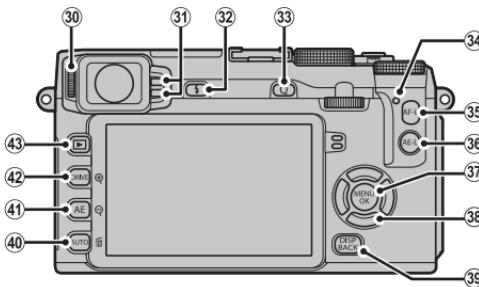
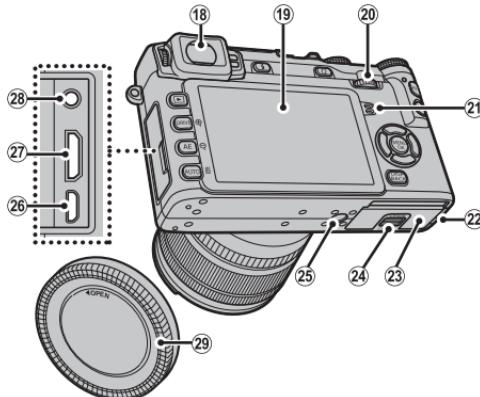
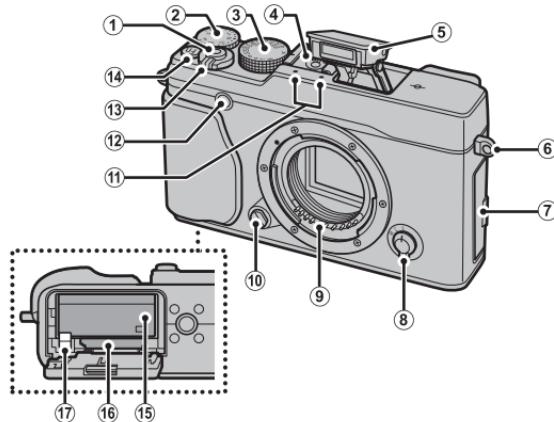
Metal strap clips (x2)

- Protective covers (x 2)
- Shoulder strap
- Owner's Manual (*this manual*)

❖ If you purchased a lens kit, check that a lens is included.

Parts of the Camera

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



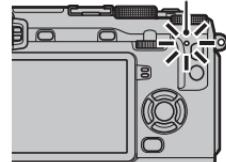
① Shutter button	30	⑯ LCD monitor	24	⑯ MENU/OK button	5
② Exposure compensation dial	55	⑰ Command dial.....	5	⑰ (control lock) button (press and hold).....	4
③ Shutter speed dial.....	47, 48, 49, 50	⑱ Speaker	40	⑯ Function button (Fn3—Fn6).....	000
④ Hot shoe.....	37, 132	⑲ Cable channel cover for DC coupler		Selector.....	5
⑤ Flash	36	⑳ Battery-chamber cover	17	⑯ DISP (display)/BACK button.....	26
⑥ Strap eyelet.....	13	㉑ Battery-chamber cover latch.....	17	⑯ Function button (Fn2)	000
⑦ Connector cover	54, 000, 121, 128	㉒ Tripod mount		AUTO (auto mode) button	000
⑧ Focus mode selector.....	000 68	㉓ Micro USB connector	54, 000 121	⑯ (delete) button (playback mode)	35
⑨ Lens signal contacts	10	㉔ HDMI mini connector	128	⑯ Function button (Fn1)	000
⑩ Lens release button	15	㉕ Microphone/remote release connector	39, 54	AE (autoexposure) button.....	58
⑪ Microphone	38	㉖ Body cap	15	⑯ (playback zoom out) button	33, 34
⑫ AF-assist illuminator	000	㉗ Diopter adjustment control	25	⑯ DRIVE button	38, 61, 63, 66, 67
Self-timer lamp.....	79	㉘ Eye sensor	24	⑯ (playback zoom in) button	33, 34
⑯ ON/OFF switch	21	㉙ (flash pop-up) button	36	⑯ (playback) button.....	31
⑯ Function button (Fn7)	000	㉚ (quick menu) button*	41		
Movie-record button	38	Quick menu edit/custom settings button (press and hold)*	41, 84		
Wi-Fi button (playback mode).....	117	RAW conversion button (playback mode)	78		
⑯ Battery chamber	17	㉛ Indicator lamp.....	4		
⑯ Memory card slot	18	㉜ AF-L (focus lock) button.....	68, 56, 95		
⑯ Battery latch	17	㉝ AE-L (exposure lock) button.....	56, 95		
⑯ Electronic viewfinder (EVF)	24				

* 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.

• The Indicator Lamp

The indicator lamp shows camera status as follows:

Indicator lamp	Camera status
Glow green	Focus locked.
Blinks green	Blur, focus, or exposure warning. Picture can be taken.
Blinks green and orange	Recording pictures. Additional pictures can be taken.
Glow 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

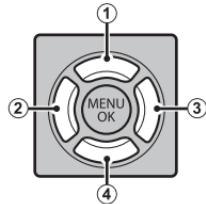
- ◆ Warnings may also appear in the display (140).
- ◆ The indicator lamp remains off while the viewfinder is in use (24).

• Control Lock

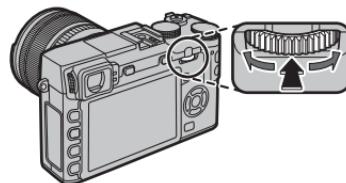
To prevent accidental operation of the selector and **AE-L** and **AF-L** buttons during shooting, press **MENU/OK** until  is displayed. The controls can be unlocked by pressing **MENU/OK** until  is no longer displayed.

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 **Fn3** (AF mode; [000](#)), **Fn4** (film simulation; [000](#)), **Fn5** (flash mode; [000](#)), and **Fn6** (focus-frame selection; [000](#)) buttons, respectively ([000](#)).



The Command Dial



Rotate the command dial to select options in the quick menu display ([000](#)), view pictures ([000](#)), adjust the size of the focus area ([000](#)), or choose a shutter speed ([000](#), [000](#), [000](#), [000](#), [000](#)) or combination of shutter speed and aperture (program shift, [000](#)).

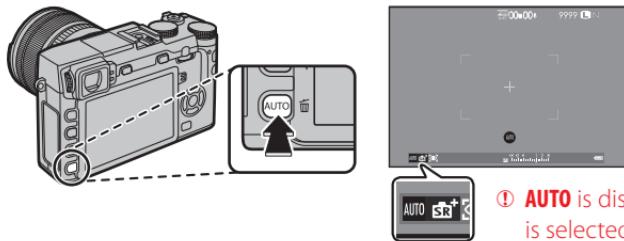


Press the center of the command dial to zoom in on the active focus area during shooting ([000](#)) or playback ([000](#)), or press and hold the center of the command dial to choose a manual focus assist option ([000](#)).



The AUTO (Auto Mode) Button

Press a function button (by default, **Fn2/AUTO**) button to select **SR⁺ ADVANCED SR AUTO** mode or an auto mode in which you can choose the scene. Press the button again to exit auto mode.

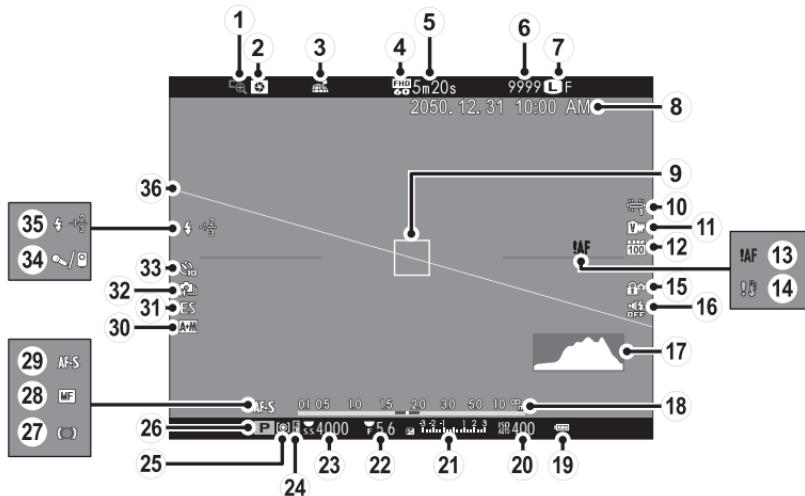


- ◆ At default settings, **AUTO MODE ON/OFF** is assigned to the **AUTO (Fn2)** button, but it can be assigned to other function buttons as desired (阅 000).
- ◆ The options available vary with the shooting mode and shooting conditions. See “Restrictions on Camera Settings” (阅 000) for more information.

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: Viewfinder/LCD Monitor



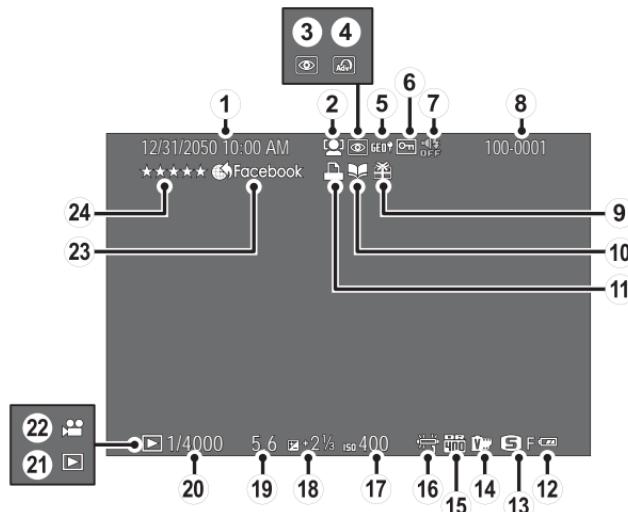
① Focus check.....	000	⑯ Temperature warning	142	㉖ Shooting mode.....	000
② Depth-of-field preview	49	⑯ Control lock.....	4	㉗ Focus indicator.....	69
③ Location data download status.....	000	⑯ Sound and flash indicator	106	㉘ Manual focus indicator	000
④ Movie mode.....	000	⑯ Histogram.....	28	㉙ Focus mode	68
⑤ Time remaining	000	⑯ Distance indicator	68	㉚ AF+MF indicator	000
⑥ Number of available frames.....	143	⑯ Battery level	21	㉛ Shutter type.....	000
⑦ Image quality and size	93	㉚ Sensitivity	75	㉜ Continuous mode	61
⑧ Date and time	000	㉚ Exposure compensation/exposure indicator	50, 55	㉝ Self-timer indicator	79
⑨ Focus frame	56	㉚ Aperture	47, 49, 50	㉞ Microphone/remote release	39, 54, 000
⑩ White balance.....	82	㉚ Shutter speed	47, 48, 50	㉞ Flash mode	36
⑪ Film simulation.....	59	㉚ AE lock indicator	000	㉞ Flash compensation.....	000
⑫ Dynamic range	93	㉚ Metering.....	58	㉞ Virtual horizon.....	000
⑬ Focus warning	4, 137, 140				

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

Control Lock

Pressing a locked control (4) displays a  icon.

■ Playback

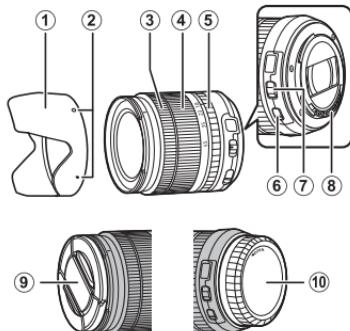


① Date and time	000	⑨ Gift image	31	⑯ White balance	75
② Intelligent face detection indicator	000	⑩ Photobook assist indicator	87	⑯ Exposure compensation	50
③ Red-eye removal indicator	102	⑪ DPOF print indicator	123	⑯ Aperture	47, 49, 50
④ Advanced filter	67	⑫ Battery level	21	⑯ Shutter speed	47, 48, 50
⑤ Location data	000	⑬ Image quality and size	93	㉑ Playback mode indicator	31
⑥ Protected image	101	⑭ Film simulation	59	㉒ Movie icon	000
⑦ Sound and flash indicator	106	⑮ Dynamic range	93	㉓ Mark for upload to	103
⑧ Frame number	000	⑯ White balance	82	㉔ Rating	31

Lenses

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

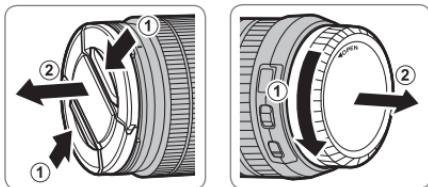
Parts of the Lens



- 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

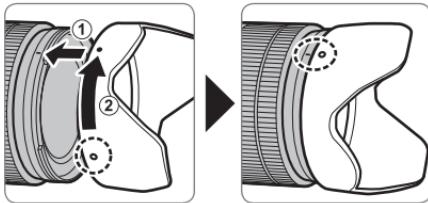
Remove the caps as shown.



① Lens caps may differ from those shown.

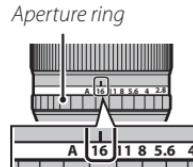
Attaching the Hood

When attached, lens hoods reduce glare and protect the front lens element.



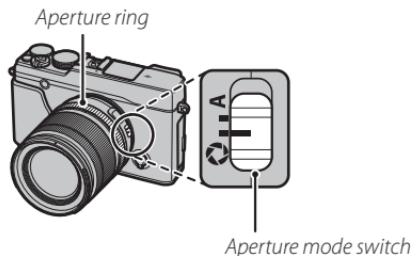
Lenses with Aperture Rings

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



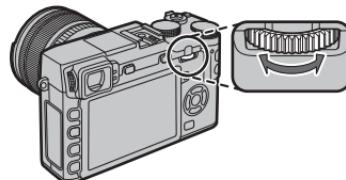
The Aperture Mode Switch

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



Lenses with No Aperture Rings

The method used to adjust aperture can be selected using the **• APERTURE SETTING** option (97) in the shooting menu. When an option other than **AUTO** is selected, aperture can be adjusted using the command dial.

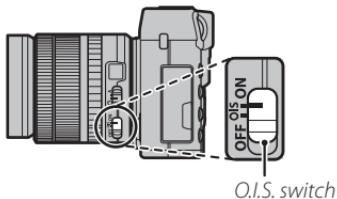


◆ Selecting **S.S** for **BUTTON/DIAL SETTING** > **COMMAND DIAL SETTING** (000) allows the command dial to be used to choose the shutter speed (000, 000, 000, 000), the exposure time for long time-exposures when the shutter-speed dial is rotated to **T** (time), or, in program AE mode (mode **P**), different combinations of shutter speed and aperture (program shift, 000).

◆ Assigning **COMMAND DIAL SETTING** to a function button makes it easy to switch between shutter speed and aperture (000).

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 switch to **ON**.



Manual Focus Lenses

Slide the focus ring to the front for autofocus.

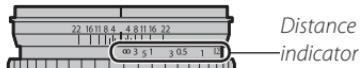


For manual focus, slide the focus ring to the back and rotate it while checking the results in the camera display. The focus distance and depth-of-field indicators can be used to assist manual focus. Note that manual focus may not be available in all shooting modes.



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).



① The camera does not display the focus distance when the lens is in manual focus mode.

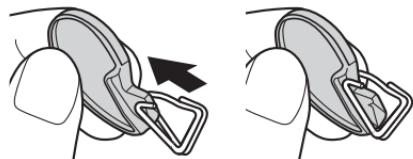
First Steps

Attaching the Strap

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

1 Open a strap clip.

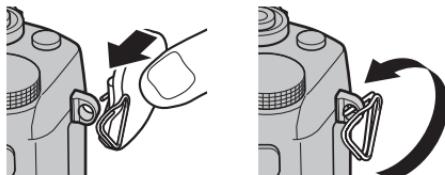
Use the clip attaching tool to open a strap clip, making sure that the tool and clip are in the orientations shown.



① 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.



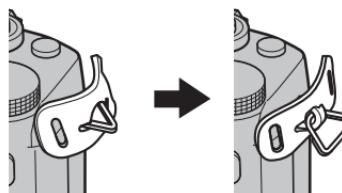
3 Pass the clip through the eyelet.

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



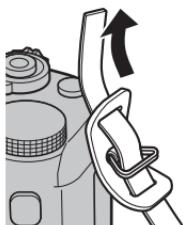
4 Attach a protective cover.

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.



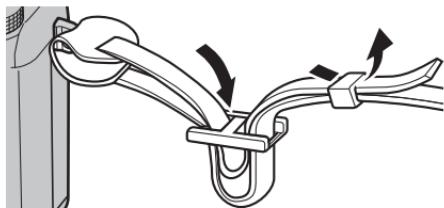
5 Insert the strap.

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.



① To avoid dropping the camera, be sure the strap is correctly secured.

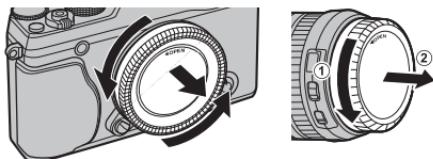
Attaching a Lens

Lenses attach as described below.

① Care is required to prevent dust entering the camera while attaching and removing lenses.

1 Remove the body and rear caps.

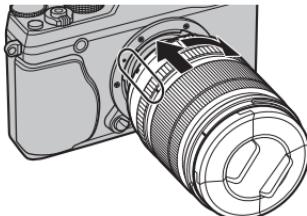
Remove the body cap from the camera and the rear cap from the lens.



① Do not touch the camera's internal parts.

2 Attach the lens.

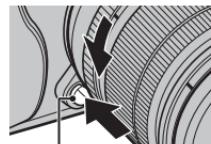
Place the lens on mount, keeping the marks on the lens and camera aligned, and then rotate the lens until it clicks into place.



① 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

① 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

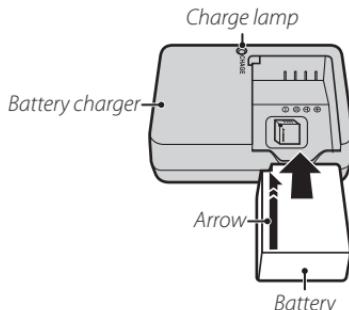
The camera can be used with lenses for the FUJIFILM X-mount and the other accessories listed from page 129.

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.



The camera uses an NP-W126 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 (149) for charging times (note that charging times increase at low temperatures).

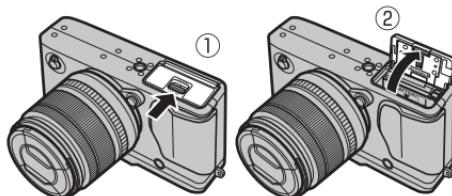
- ① Unplug the charger when it is not in use.

Inserting the Battery and a Memory Card

The camera has no internal memory; instead, pictures are stored on optional SD, SDHC, and SDXC memory cards (sold separately). After charging the battery, insert the battery and memory card as described below.

1 Open the battery-chamber cover.

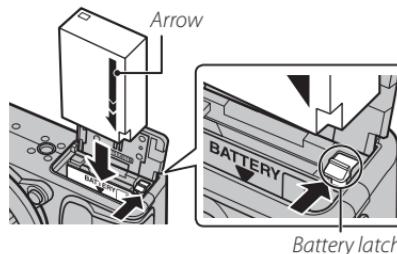
Slide the battery-chamber latch as shown and open the battery-chamber cover.



- ① Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could damage image files or memory cards.
- ② Do not use excessive force when handling the battery-chamber cover.

2 Insert the battery.

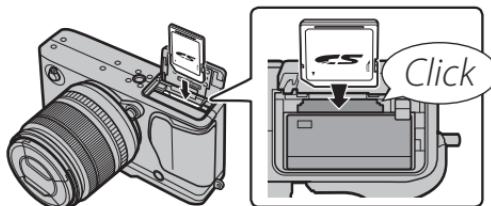
Using the battery to keep the battery latch pressed to one side, insert the battery contacts first in the direction shown by the arrow. Confirm that the battery is securely latched.



- ① Insert the battery in the correct orientation. ***Do not use force or attempt to insert the battery upside down or backwards.*** The battery will slide in easily in the correct orientation.

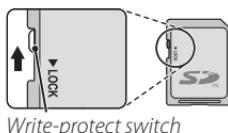
3 Insert the memory card.

Holding the memory card in the orientation shown, slide it in until it clicks into place at the back of the slot.



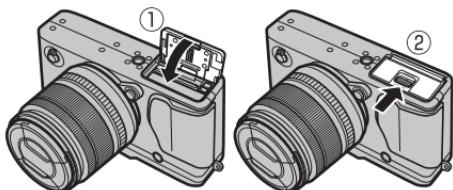
① Be sure card is in the correct orientation; do not insert at an angle or use force.

② SD/SDHC/SDXC memory cards can be locked, making it impossible to format the card or to record or delete images.



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

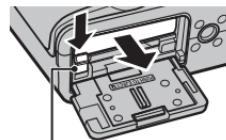
4 Close the battery-chamber cover.



Removing the Battery and Memory Card

Before removing the battery or memory card, **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

To remove the 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.



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.

■ Compatible Memory Cards

FUJIFILM and SanDisk SD, SDHC, and SDXC memory cards have been approved for use in the camera. 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 **MultiMediaCard** (MMC) devices.

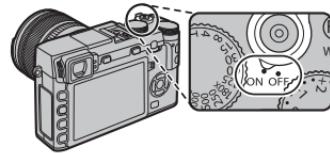
① Memory Cards

- **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 113.
- 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 **CLASS 10** 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 halfway to return to shooting mode.
 - ◆ The camera will turn off automatically if no operations are performed for the length of time selected for **POWER MANAGEMENT > AUTO POWER OFF** (109). To reactivate the camera after it has turned off automatically, press the shutter button halfway or turn the **ON/OFF** switch to **ON** and then back to **ON**.
 - ◆ For information on startup options, see page 109.
- 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
 (white)	Battery partially discharged.
 (white)	Battery about two-thirds charged.
 (white)	Battery about one-third charged. Charge as soon as possible.
 (red)	Low battery. Charge battery.
 (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. Set up the camera as described below (you can reset the clock or change languages at any time using the **DATE/TIME** or **言語/LANG.** options in the setup menu; for information on displaying the setup menu, see page 106).

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.



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  **言語/LANG.** to change the language or  **DATE/TIME** to reset the clock (105).

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.

Choosing a Display

The camera is equipped with an electronic viewfinder (EVF) and an LCD monitor (LCD). Follow the steps below to choose a display.

1 Display the setup menu.

1.1 Press **MENU/OK** to display the menu for the current mode.



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



1.3 Press the selector down to highlight the setup menu tab containing **EVF EVF/LCD SETTING**.



1.4 Press the selector right to place the cursor in the setup menu.



2 Select **EVF EVF/LCD SETTING**.

Highlight **EVF EVF/LCD SETTING** and press **MENU/OK**.



The Eye Sensor

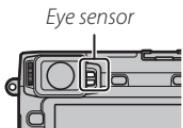
The eye sensor turns the viewfinder on when you put your eye to the viewfinder and turns it off when you take your eye away (note that the eye sensor may respond to objects other than your eye or to light shining directly on the sensor). If automatic display selection is enabled, the LCD monitor will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

3 Choose a display.

Highlight one of the following options and press **MENU/OK**.

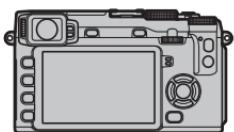


Option	Description
EYE SENSOR	Automatic display selection using eye sensor
LCD	LCD monitor only
EVF	Viewfinder only
EVF ONLY + SENSOR	Viewfinder only; eye sensor turns display on or off

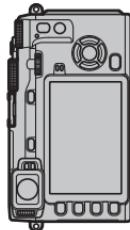


The Viewfinder Display

When **ON** is selected for **SCREEN SET-UP > EVF AUTORotate DISPLAYS** in the setup menu (000), the indicators in the viewfinder automatically rotate to match camera orientation.



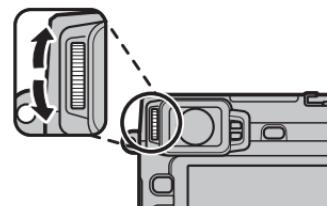
Orientation changed from "wide" to "tall"



① The display in the LCD monitor is unaffected.

Focusing the Viewfinder

The camera is equipped with diopter adjustment in the range -4 to $+2 \text{ m}^{-1}$ 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 of the viewfinder and LCD monitor can be adjusted using the options under **SCREEN SET-UP**. Choose **EVF BRIGHTNESS** to adjust viewfinder brightness (000) or **LCD BRIGHTNESS** to do the same for the LCD monitor (000).