FUJ¦FILM

digital camera

Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM digital camera and the supplied software. Be sure that you have read and understood its contents and the warnings in "For Your Safety" (ii) before using the camera.

For information on related products, visit our website at http://www.fujifilm.com/products/digital_cameras/index.html

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BL01758-200



IMPORTANT SAFETY INSTRUCTIONS

- <u>Read Instructions</u>: All the safety and operating instructions should be read before the appliance is operated.
- <u>Retain Instructions</u>: The safety and operating instructions should be retained for future reference.
- <u>Heed Warnings</u>: 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 alternatingcurrent 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.

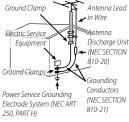


For Your Safety

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 builtup static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper 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 powerline 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 nor-

mally 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 lcons

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.



This icon indicates that death or serious injury can result if the information is ignored.



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").

 \bigcirc

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").





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.

🕂 WARNING

Do not use the camera in the bathroom or shower. This can cause

Do not use in the bathroom or shower



Never attempt to change or take apart the camera (never open the case). Failure to observe this precaution can cause fire or electric shock



Should the case break open as the result of a fall or other axident, do not touch the exposed parts. Fallure 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.

<u>Never attempt to take pictures while in motion</u>. Do not use the camera while you are walking or driving a vehicle. This can result in you falling down or being involved in a traffic accident.



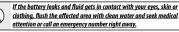
Do not touch any metal parts of the camera during a thunderstorm. This can cause an electric shock due to induced current from the lightning discharge.



<u>Do not use the battery except as specified.</u> Load the battery as shown by the indicator.

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. Any of these actions can cause the battery to burst or leak and cause fire or injury as a result.

Use only the battery 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.



For Your Safety

| | WARNING | CAUTION | |
|-----------------------|---|--------------|--|
| | Do not use the charger to charge batteries other than those specified <u>here</u> . The supplied battery charger is for use only with the type of | \bigcirc | Do not place heavy objects on the camera. This can cause the heavy object to tip over or fall and cause injury. |
| \bigcirc | battery supplied with the camera. Using the charger to charge conventional batteries or other types of rechargeable batteries can cause the battery to leak fluid, overheat or burst. | \bigcirc | 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 |
| 4 | Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. | | a fire or electric shock. Do not use the AC power adapter when the plug is damaged or the |
| Ŏ | Do not use in the presence of flammable objects, explosive gases, or dust. | 0 | plug socket connection is loose. This could cause a fire or electric shock. |
| <u> </u> | 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. | \bigcirc | 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 cas- ing or cause a fire. |
| | Contact with other metallic objects or batteries could cause the battery to ignite or burst. | | When you are cleaning the camera or you do not plan to use the camera for an extended period, remove the battery and disconnect |
| _ | Keep memory cards out of the reach of small children. Because memory cards are small, they can be swallowed by children. | | and unplug the AC power adapter. Failure to do so can cause a fire or electric shock. |
| 0 | Be sure to store memory cards out of the reach of small chil- dren. If a child swallows a memory card, seek medical atten- tion or call an emergency number. | Unplug from | When charging ends, unplug the charger from the power socket. Leaving the charger plugged into the power socket can cause a fire. |
| 0 | Turn the camera off in crowds. The camera emits radio-frequency radiation that may interfere with pacemakers. | power socket | Using a flash too close to a person's eyes may temporarily affect the eyesight. Take particular care when photographing infants and |
| ~ | Turn the camera off in the vicinity of automatic doors, public address | | young children. |
| U | systems, and other automatically controlled devices. The camera emits radio-frequency radiation that may cause these devices to malfunction. | 0 | 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. |
| 0 | Keep the camera at least 22 cm away from people wearing pace- makers. The camera emits radio-frequency radiation that may interfere with pacemakers. | | 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 clean- |
| | | | ing every two years. Please note that this service is not free of charge. |
| $\overline{\bigcirc}$ | Do not use this camera in locations affected by oil fumes, steam, hu- midity or dust. This can cause a fire or electric shock. | \bigcirc | Remove your fingers from the flash window before the flash fires. Failure to observe this precaution could result in burns. |
| $\overline{\bigcirc}$ | Do not leave this camera in places subject to extremely high temper- dures. Do not leave the camera in locations such as a sealed vehicle or in direct sunlight. This can cause a fire. | \bigcirc | Keep the flash window clean and do not use the flash if the window is obstructed. Failure to observe these precautions could cause smoke or discoloration. |
| 0 | Keep out of the reach of small children. This product could cause injury in the hands of a child. | | |

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 $+15^{\circ}C$ to $+25^{\circ}C$ ($+59^{\circ}F$ to $+77^{\circ}F$). 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.
- 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.

AA Alkaline/Rechargeable Ni-MH Batteries

Read this section if your camera uses AA alkaline or rechargeable AA Ni-MH batteries. Information on compatible battery types may be found elsewhere in the camera manual.

Cautions: Handling the Batteries

- Do not expose to water, flame, or heat, or store in warm or humid conditions.
- Do not transport or store with metal objects such as necklaces or hairpins.
- Do not disassemble or modify the batteries or battery casing.
- · Do not subject to strong physical shocks.
- Do not use batteries that are leaking, deformed, or discolored.
- Keep out of reach of infants and small children.
- · Insert in the correct orientation.

- Do not mix old and new batteries, batteries with different charge levels, or batteries of different types.
- If the camera will not be used for an extended period, remove the batteries. Note that the camera clock will be reset.
- The batteries may be warm to the touch immediately after use. Turn the camera off and allow the batteries to cool before handling.
- Battery capacity tends to decrease at low temperatures. Keep spare batteries in a pocket or other warm place and exchange as necessary. Cold batteries may recover some of their charge when warmed.
- Fingerprints and other stains on the battery terminals can impair battery performance. Thoroughly clean the terminals with a soft, dry cloth before inserting them in the camera.



If the batteries leak, clean the battery compartment thoroughly before inserting new batteries.



If fluid from the battery comes into contact with skin or clothing, flush the affected area with water. If fluid enters your eyes, immediately flush the affected area with water and seek medical attention. Do not rub your eyes. Failure to observe this precaution could result in permanent visual impairment.

Ni-MH Batteries

The capacity of Ni-MH batteries may be temporarily reduced when new, after long periods of disuse, or if they are repeatedly recharged before being fully discharged. This is normal and does not indicate a malfunction. Capacity can be increased by repeatedly discharging the batteries using the discharge option in the camera setup menu and recharging them using a battery charger.

① CAUTION: Do not use the discharge option with alkaline batteries.

The camera draws a small amount of current even when off. Ni-MH batteries that have been left in the camera for an extended period may be drawn down to the point that they no longer hold a charge. Battery performance may also drop if the batteries are run down in a device such as a flashlight. Use the discharge option in the camera setup menu to discharge Ni-MH batteries. Batteries that no longer hold a charge even after repeatedly being discharged and recharged have reached the end of their service life and must be replaced.

Ni-MH batteries can be recharged in a battery charger (sold separately). Batteries may become warm to the touch after charging. Refer to the instructions provided with the charger for more information. Use the charger with compatible batteries only.

Ni-MH batteries gradually lose their charge when not in use.

Disposal

Dispose of used batteries in accord with local regulations.

AC Power Adapters (Available Separately)

This section applies to all camera models. 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.

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 result in the LCD monitor 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 LCD monitor 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

xD-Picture Card and _____ are trademarks of FUJIFILM Corporation. The typefaces included herein are solely developed by Dyna-Comware Taiwan Inc. Macintosh, OuickTime, and Mac OS are trademarks of Apple Inc. in the U.S.A. and other countries. Windows 7. Windows Vista, and the Windows logo are trademarks of the Microsoft group of companies. 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 (Phases 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.

For Your Safety

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

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.
- You are cautioned that any changes or modifications not expressly approved in this manual could void the user's authority to operate the equipment.

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.

For Customers in Canada

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

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.

About This Manual

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

Memory Cards

Pictures can be stored in the camera's internal memory or on optional SD, SDHC, and SDXC memory cards (🕮 18), referred to in this manual as "memory cards."

Temperature Warning

The camera will turn off automatically before its temperature or the temperature of the battery rise above safe limits. Pictures taken when a temperature warning is displayed may exhibit higher levels of "noise" (mottling). Turn the camera off and wait for it to cool before turning it on again.

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Appendix

| Memory Card Capacity | 146 |
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Before You Begin

Symbols and Conventions

The following symbols are used in this manual:

- ① This information should be read before use to ensure correct operation.
- Additional information that may be helpful when using the camera.
- I : 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

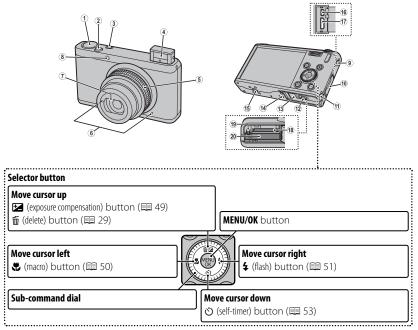
The following items are included with the camera:



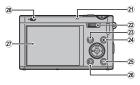
* Shape of adapter varies with region of sale.

Parts of the Camera

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



* The illustrations in this manual have been simplified for explanatory purposes.



| 1 | Mode dial | 30 |
|---|-----------------------------|------------|
| 2 | Shutter button | 27 |
| 3 | Fn (function) button | 54 |
| 4 | Flash | 51 |
| 5 | Zoom ring | |
| | ON/OFF switch | 22 |
| 6 | Microphone | 81, 120 |
| 7 | Lens cover | 22 |
| 8 | AF-assist illuminator | 128 |
| | Self-timer lamp | 53 |
| 9 | Strap eyelet | 1 |
| 10 | Terminal cover | 85, 87, 96 |
| 11 | DC coupler cable cover | 133 |
| 12 | Battery-chamber cover latch | 15 |
| 13 | Battery-chamber cover | 15 |
| 14 | Speaker | 84, 120 |
| 1 Press and hold the F-Fn button for monitor sunlight mode | | |

2 Press and hold the **DISP/BACK** button until 44 is displayed.

| Tripod mount | |
|------------------------------------|---------------------|
| USB multi-connector | 85, 87, 96 |
| Connector for HDMI cable | 86 |
| Memory card slot | |
| Battery latch | 15, 17 |
| Battery chamber | 15 |
| Indicator lamp | 5 |
| Main-command dial | |
| ▶ (playback) button | 29, 71 |
| ● (movie recording) button | |
| E-Fn (extended function) button | 55 |
| Monitor sunlight mode ¹ | 8 |
| DISP (display)/BACK button | 9, 24, 79 |
| (silent mode) button ² | 5 |
| LCD monitor | |
| 🗲 (flash pop-up) Switch | |
| | USB multi-connector |

Main-command dial/Sub-command dial

Rotate the main/sub-command dial to set the aperture value or shutter speed. You can also select items using the main/sub-command dial for the selector button. To adjust focus for **MANUAL**, rotate the sub-command dial (🖽 62).



Control Lock

To lock the selector button (☑ / ≰ / ७ / ♥) and the E-Fn button, press MENU/OK until ℜ is displayed. This prevents accidental operation during shooting. The controls can be unlocked by pressing MENU/OK until ℜ is no longer displayed.

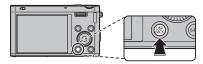
The Indicator Lamp

The indicator lamp shows camera status as follows:

| Indicator lamp | Camera status |
|-------------------------|---|
| Glows 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. |
| Glows orange | Recording pictures. No additional pictures can be taken at this time. |
| Blinks orange (fast) | Flash charging; flash will not fire when picture is taken. |
| Blinks orange (slow) | The zoom ring is positioned between 25 and STANDBY . Picture cannot be taken. |
| Blinks red | Lens or memory error. |

Silent Mode

In situations in which camera sounds or lights may be unwelcome, hold the **DISP/ BACK** button down until **#** is displayed.

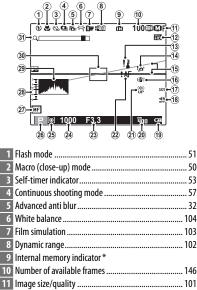


The camera speaker, flash, and AF-assist illuminator/self-timer lamp turn off and flash and volume settings can not be adjusted (note that the flash will still fire when \clubsuit is selected in scene mode). To restore normal operation, press the **DISP/BACK** button until the \ddagger icon is no longer displayed.

<u>Camera Displays</u>

The following types of indicator may be displayed during shooting and playback. Indicators vary with camera settings.

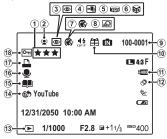
Shooting



| 12 | Movie mode | 83 |
|----|--------------------------|---------|
| 13 | Temperature warning | x, 142 |
| | Blur warning | |
| 15 | Electronic level | 109 |
| 16 | IS mode | 127 |
| 17 | Date stamp | 130 |
| 18 | Silent mode indicator | 5, 124 |
| 19 | Battery level | 8 |
| | Sensitivity | |
| | Monitor sunlight mode | |
| 22 | Focus warning | 27, 142 |
| 23 | Aperture | 42, 44 |
| 24 | Shutter speed | 42, 44 |
| | Metering | |
| | Shooting mode | |
| 27 | Manual focus indicator | 62 |
| 28 | Exposure indicator | 49 |
| 29 | Histogram | |
| | Focus frame | |
| | Intelligent digital zoom | |
| | | |

* 🚯 : indicates that no memory card is inserted and that pictures will be stored in the camera's internal memory (💷 16).

Playback



| Favorites | 71 |
|--------------------------------------|--|
| Intelligent Face Detection indicator | 66, 107 |
| Red-eye removal indicator | 117 |
| Pro focus mode, pro low-light mode | 36, 37 |
| Motion panorama 📾 | 34, 78 |
| 3D image | |
| Portrait enhancer | 41 |
| Advanced Filter | |
| Frame number | 129 |
| Gift image | 71 |
| Dynamic range | 102 |
| EXR mode | |
| Playback mode indicator | 29, 71 |
| Mark for upload to | 113 |
| Photobook assist | 76 |
| Voice memo indicator | 120 |
| DPOF print indicator | 89 |
| Protected image | 117 |
| | Intelligent Face Detection indicator Red-eye removal indicator Pro focus mode, pro low-light mode Motion panorama |

Battery Level

Battery level is shown as follows:

| Indicator | Description | |
|----------------|--|--|
| (white) | Battery partially discharged. | |
| (white) | Battery more than half discharged. | |
| 4 (red) | Low battery. Charge as soon as possible. | |
| d (blinks red) | Battery exhausted. Charge battery. | |

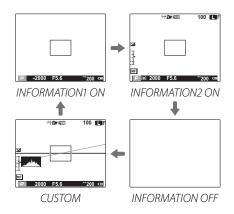
Bright Ambient Lighting

Reflections and glare caused by bright ambient lighting may make it hard to see the display in the monitor, particularly when the camera is used outdoors. This can be addressed by holding the **E-Fn** button to trigger outdoor mode. Outdoor mode can also be enabled using the **E** SCREEN SET-UP > MONITOR SUNLIGHT MODE option (\blacksquare 125).

<u>Display mode</u>

Press **DISP/BACK** to cycle through display modes as follows:

Shooting



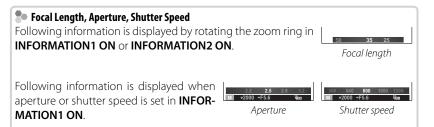
INFORMATION1 ON

INFORMATION1 ON can be displayed in a shooting mode which is **P**, **A**, **S**, **M**, **C1** or **C2**. The icons are displayed on the left side of shutter speed and aperture to change them quickly (💷 109).

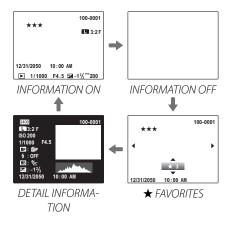


Custom Display

Choose items for display using **© DISP. CUSTOM SETTING** in the shooting menu (**©** 109).

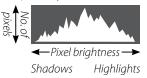


Playback



Histograms

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



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

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

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



First Steps

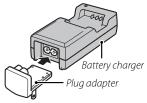
Charging the Battery

The battery is not charged at shipment. Charge the battery before use.

1 Attach the plug adapter.

Attach the plug adapter as shown, making sure that it is fully inserted and clicks into place on the charger terminals.

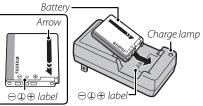
① The plug adapter is exclusively for use with the supplied battery charger. Do not use it with other devices.



2 Place the battery in the supplied battery charger.

Insert the battery in the orientation indicated by the $\bigcirc \oplus \oplus$ labels.

The camera uses an NP-50A rechargeable battery.



3 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. |
| OII | Battery fully charged. | Remove the battery. |
| On | Battery charging. | |
| Blinks | Battery fault. | Unplug the charger and remove the battery. |

4 Charge the battery.

Remove the battery when charging is complete. See the specifications (
151) for charging times (note that charging times increase both at high temperatures and at low temperatures).

① Unplug the charger when it is not in use.

Inserting the Battery and a Memory Card

Although the camera can store pictures in internal memory, optional SD, SDHC, and SDXC *memory cards* (sold separately) can be used to store additional pictures. After charging the battery, insert the battery and memory card as described below.

1 Open the battery-chamber cover.

- Be sure the camera is off before opening the battery-chamber cover.
- ① Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could result in damage to image files or memory cards.



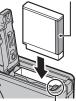
 ${\scriptstyle \oplus}$ Do not use excessive force when handling the battery-chamber cover.

2 Insert the battery.

Align the orange stripe on the battery with the orange battery latch and slide the battery into the camera, keeping the battery latch pressed to one side. Confirm that the battery is securely latched.

 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.



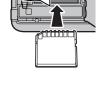


Battery latch

3 Insert the memory card.

Holding the memory card in the orientation shown at right, 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. If the memory card is not correctly inserted or no memory card is inserted, 1 will appear in the LCD monitor and internal memory will be used for recording and playback.
- ① SD/SDHC/SDXC memory cards can be locked, making it impossible to format the card or to record or delete images. Before inserting an SD/SDHC/SDXC memory card, slide the write-protect switch to the unlocked position.
- **4** Close the battery-chamber cover.



Click



Write-protect switch





Using an AC Power Adapter

The camera can be powered by an optional AC power adapter and DC coupler (sold separately). See the manuals provided with the AC power adapter and DC coupler for details.

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





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 SD/SDHC/SDXC 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 " FORMAT" (
 131).
- 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** card or better when shooting HD or high-speed movies.

- The data in internal memory may be erased or corrupted when the camera is repaired. Please note that the repairer will be able to view pictures in internal memory.
- Formatting a memory card or internal memory 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 from memory cards and internal memory; before editing or renaming files, copy them to a computer and edit or rename the copies, not the originals.

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" (🕮 vi).
- 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.

<u>Camera Mode</u>

The camera has three characteristic modes (status). Choose a camera mode according to the purpose.

| Mode | Power | Indicator |
|---|-------|-----------|
| Portable mode The lens is housed and locked to carry the cam- era by a camera case or a bag (💷 21). | Off | |
| Standby mode The camera becomes turned off temporarily in this mode (🕮 21). | Off | |
| Shooting mode The camera turns on and can take pictures (🖽 22). | On | |

..... The factory default is Rotate the zoom ring until Portable mode portable mode. it stops as shown. STANDBY Standby mode Rotate the zoom ring to Pull the zoom ring until it STANDBY. clicks. Switching from standby mode to portable mode STANDBY STANDBY When the camera is in Rotate the zoom ring until it Standby mode stops as shown. shooting mode, rotate the zoom ring to STANDBY. Rotate the zoom ring until Press the zoom ring until Portable mode fitting the red marks. it stops.

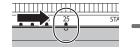
Switching from portable mode to standby mode

First Steps

 ${\ensuremath{\textcircled{}}}$ If the lens is not locked correctly, it may protrude.

<u>Switching from standby mode to shooting mode (Turning the camera on)</u>





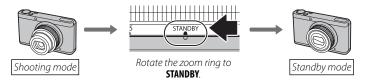
Rotate the zoom ring to **25**. The camera turns on and the lens cover opens.



Switching to Playback Mode

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

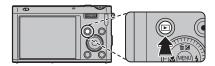
Switching from shooting mode to standby mode (Turning the camera off)



- ${f D}$ Fingerprints and other marks on the lens can affect pictures. Keep the lens clean.
- ① Do not touch the lens cover during pressing or pulling the zoom ring. Failure to observe this precaution could result in damage to the camera.
- ${\scriptstyle \textcircled{O}}$ Make sure that the camera turns off before housing the lens and the zoom ring.

Playback Mode

To turn the camera on and begin playback, press the \blacktriangleright button for about a second.



Press the 🕨 button again to turn the camera off.

Auto Power Off

The camera will turn off automatically if no operations are performed for the length of time selected for **POWER MANAGEMENT** > **AUTO POWER OFF** (\blacksquare 126).

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 **O DATE/TIME** or **O 言語/LANG**. options in the setup menu; for information on displaying the setup menu, see page 122).

1 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 The date and time will be displayed. 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** when settings are complete.
- **3** Power management options will be displayed. Press the selector up or down to highlight one of the following options and then press **MENU/OK**:
 - Dia POWER SAVE: Save battery power.
 - 🗇 CLEAR DISPLAY: Choose for a brighter, higher quality display.

The Camera Clock

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.



BACKONO

O 言語/I ANO

Basic Photography and Playback

Taking Pictures

This section describes how to take pictures in 🔛 (EXR AUTO) mode.

1 Select EXR mode.

Turn the camera on and rotate the mode dial to **EXR**. The **SSR** display will appear in the LCD monitor.

🗣 Scene Icon (🕮 31)

The camera automatically selects the appropriate scene.



🐤 The 🖺 Icon

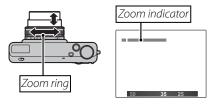
In Example mode, the camera continuously adjusts focus and searches for faces, increasing the drain on the battery. 💁 is displayed in the LCD monitor.

♦ The camera analyses the scene and selects the preferred EXR mode when the shutter button is pressed halfway (☺ 32).

To raise the flash when lighting is poor, slide the flash pop-up switch (🕮 51).

2 Frame the picture.

Use the zoom ring to frame the picture in the display. The zoom indicator appears.



Holding the Camera

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

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





3 Focus.

Press the shutter button halfway to focus.

The lens may make a noise when the camera focuses; this is normal. If the subject is poorly lit, the AF-assist illuminator may light; see" AFILLUMINATOR" (III 128) for information on disabling the illuminator.



If the camera is able to focus, it will beep twice and the indicator lamp will glow green.

If the camera is unable to focus, the focus frame will turn red, **!AF** will be displayed, and the indicator lamp will blink green. Change the composition or use focus lock (🗐 47).

4 Shoot.

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



The Shutter Button

The shutter button has two positions. Pressing the shutter button halfway sets focus and exposure; to shoot, press the shutter button the rest of the way down.

Viewing Pictures

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

1 Press the 🕨 button.

The most recent picture will be displayed.

2 View additional pictures.

Press the selector right to view pictures in the order recorded, left to view pictures in reverse order.

Press the shutter button to exit to shooting mode.

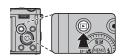
Deleting Pictures

To delete the picture currently displayed in the monitor, press the selector up ($\overline{\mathbf{m}}$), and choose from the options.

To exit without deleting the picture, highlight **CANCEL** and press **MENU/OK**.

Pictures can also be deleted from the playback menu (I 74).

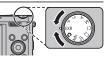


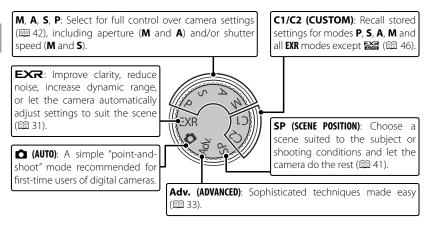


More on Photography

Shooting Mode

Choose a shooting mode according to the scene or type of subject. To select a shooting mode, align the mode icon with the mark next to the mode dial.





EXR (EXR AUTO/EXR Priority)

Optimize settings for your current subject or improve clarity, reduce noise, or enhance dynamic range. Rotate the mode dial to **EXR** and choose one of the following **EXR** modes in the shooting menu.

■ 🔛 (**EXR** AUTO)

The camera automatically selects the scene and **EXR** mode according to shooting conditions (\blacksquare 25).

If Imm is selected for Image SIZE in Image mode, the camera will automatically select the optimal image size.

The Scene Icon

The camera selects from the following scenes:

| | Scene | | LAND- | | NIGHT | | | | | | | SKY & |
|---------------|---------|----------|-------|-------|----------|-------|-------|--------|------|-----|----------|----------|
| Main subject | | AUTO | SCAPE | NIGHT | (TRIPOD) | MACRO | BEACH | SUNSET | SNOW | SKY | GREENERY | GREENERY |
| Non-portrait | | (| 0 | ©` | ®, | Ø | ۲ | ۲ | 0 | 0 | 0 | Ø |
| Portrait | Normal | 0 | 00 | 00 | 00 | — | 00 | 00 | 00 | 00 | 00 | 00 |
| | Backlit | 6 | 60 | _ | — | — | 80 | 6 | 60 | 6 | ®0 | 6) 📀 |
| Moving object | | 0 | 00 | 00 | 00 | 00 | 00 | 0 ♥ | 00 | 00 | 00 | 00 |
| Portrait and | Normal | 0 | 00 | 00 | 00 | — | 00 | 00 | 00 | 00 | 00 | 00 |
| motion | Backlit | 8 | 80 | — | — | — | 80 | 89 | 00 | 80 | 90 | 90 |

* If 💿 is displayed, the camera will take a series of shots (advanced anti-blur; 🕮 32).

① The mode selected may vary with shooting conditions. If the mode and subject do not match, select
 ▲ mode (
 □ 30) or choose SP (
 □ 41) and select a scene manually.



Scene icon

Advanced Anti Blur

When 💿 is displayed, the camera will take a series of exposures and combine them to form a single image, reducing "noise" (mottling) and blur.

- Is available when ON is selected for I ADVANCED ANTI BLUR (■ 107) and the flash (■ 51) is off or set to auto.
- ${\rm \Phi}$ Some time may be required to combine the exposures into a single image. A single combined image may not be created if the subject or camera moves during shooting. Keep the camera steady during shooting and do not move the camera until shooting is complete.
- $\ensuremath{\textcircled{}}$ Frame coverage is reduced.

The EXR Icon

When the shutter button is pressed halfway, the camera chooses the preferred \mathbf{EXR} mode:

- 🚯 (**RESOLUTION PRIORITY**): Produces crisp, clear shots.
- 🐼 (HIGH ISO & LOW NOISE): Reduces noise in pictures taken at high sensitivities.
- • (D-RANGE PRIORITY): Increases the amount of detail visible in highlights.

EXR Priority

Select this mode to manually choose from the following **EXR** modes:

- 🚯 (**RESOLUTION PRIORITY**): Choose for crisp, clear shots.
- (HIGH ISO & LOW NOISE): Reduce noise in pictures taken at high sensitivities.
- ♀ (D-RANGE PRIORITY): Increase the amount of detail visible in highlights. Im DYNAMIC RANGE (I 102) can be set to Im (1600%) and Im (800%).

Adv. ADVANCED

This mode combines "point-and-shoot" simplicity with sophisticated photographic techniques. The **Adv. MODE** option can be used to choose from the following advanced modes:

ADVANCED FILTER

Take photos with filter effects. Choose from the following filters.

| Filter | Description |
|------------------------------|---|
| 🖓 TOY CAMERA | Choose for a retro toy camera effect. |
| 😂 MINIATURE | The tops and bottoms of pictures are blurred for a diorama effect. |
| 🙉 POP COLOR | Create high-contrast images with saturated colors. |
| 🕼 HIGH-KEY | Create bright, low-contrast images. |
| A DYNAMIC TONE | Dynamic tone expression is used for a fantasy effect. |
| 🕰 PARTIAL COLOR (RED) | |
| labor (Antial Color (Orange) | |
| ARTIAL COLOR (YELLOW) | Areas of the image that are the selected color are recorded in that |
| 🕰 PARTIAL COLOR (GREEN) | color. All others areas of the image are recorded in black-and-white. |
| 🕰 PARTIAL COLOR (BLUE) | |
| A PARTIAL COLOR (PURPLE) | |

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



MOTION PANORAMA 360

Follow an on-screen guide to take photos that will automatically be joined to form a panorama. The camera zooms all the way out and remains fixed at the widest angle until shooting is complete.

- **1** Rotate the zoom ring until the zoom indicator turns white (\blacksquare 26).
- **2** To select the angle through which you will pan the camera while shooting, press the selector down. Press the selector left or right to highlight an angle and press **MENU/OK**.
- **3** Press the selector right to view a choice of pan directions. Press the selector left or right to highlight a pan direction and press **MENU/OK**.
- **4** Press the shutter button all the way down to start recording. There is no need to keep the shutter button pressed during recording.
- **5** Pan the camera in the direction shown by the arrow. Shooting ends automatically when the progress bar is full and the panorama is complete.
 - Shooting ends if the shutter button is pressed all the way down during shooting. No panorama will be recorded if the shutter button is pressed before the camera has been panned through 120°.





Progress bar

More on Photography



- ① Panoramas are created from multiple frames. The camera may in some cases record an greater or lesser angle than selected or be unable to stitch the frames together perfectly. The last part of the panorama may not be recorded if shooting ends before the panorama is complete.
- ${\rm \@}$ Shooting may be interrupted if the camera is panned too quickly or too slowly. Panning the camera in a direction other than that shown cancels shooting.
- ① The desired results may not be achieved with moving subjects, subjects close to the camera, unvarying subjects such as the sky or a field of grass, subjects that are in constant motion, such as waves and waterfalls, or subjects that undergo marked changes in brightness. Panoramas may be blurred if the subject is poorly lit.

.

Choose 📾 for seamless 360° panoramas that can be played back in a loop (🕮 78).

- The SAVE DATA SET-UP > SAVE ORG IMAGE option can be used to record a mag panorama in addition to a seamless mag panorama (Ell 129).
- ① Depending on the subject and shooting conditions, the camera may produce distorted results or a panorama. The top and bottom of the area visible in the shooting display are cropped out and white strips may appear at the top and bottom of the display.

For Best Results

For best results, move the camera in a small circle at a steady speed, keeping the camera horizontal and being careful only to pan in the direction shown by the guides. If the desired results are not achieved, try panning at a different speed.

🔳 📧 PRO FOCUS

The camera takes up to three shots each time the shutter button is pressed, softening the background to emphasize the main subject. The amount of softening can be adjusted before shooting by rotating the sub-command dial. Use for portraits or photos of flowers similar to those produced by SLR cameras.



Softening can not be applied to background objects that are too close to the main subject. If a message stating that the camera can not create the effect is displayed when the camera focuses, try backing away from your subject and zooming in. The camera may also be unable to soften the background if the subject is moving; if prompted, check the results and try again.

🛛 🌆 PRO LOW-LIGHT

Each time the shutter button is pressed, the camera makes four exposures and combines them into a single photograph. Use to reduce noise and blur when photographing poorly lit subjects or static subjects at high zoom ratios.



A single combined photograph may not be created with some scenes or if the subject or camera moves during shooting. Do not move the camera until shooting is complete.

PRO FOCUS/PRO LOW-LIGHT

To save unprocessed copies of pictures taken in these modes, select **ON** for **SAVE DATA SET-UP** > **SAVE ORG IMAGE** (🕮 129).

- ${\scriptstyle \textcircled{O}}$ Keep the camera steady during shooting.
- ① Frame coverage is reduced.

🔳 🖻 MULTIPLE EXPOSURE

Create a photograph that combines two exposures.

- 1 Take the first shot.
- **2** Press **MENU/OK**. The first shot will be shown superimposed on the view through the lens as a guide to taking the second shot.
 - To return to Step 1 and retake the first shot, press the selector left. To save the first shot and exit without creating a multiple exposure, press DISP/BACK.
- 3 Take the second shot.
- **4** Press **MENU/OK** to create the multiple exposure, or press the selector left to return to Step 3 and retake the second shot.

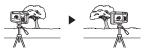
39

🛾 🔒 INDIVID. SHUTTER 3D

Take two shots from different angles to create a 3D image.

- **1** To choose the order in which the pictures are taken, press the selector right to display the current order and then press the selector left or right to choose from the options below.
 - $\blacksquare \longrightarrow \blacksquare: Take the left shot first.$
 - 1 Take the right shot first.
- 2 Press the shutter button to take the first shot.
 - To exit without recording a picture, press DISP/BACK.
- **3** The first shot will be shown superimposed on the view through the lens. Using it as a guide, frame the second shot and press the shutter release button.
 - The 3D effect may not be visible with some subjects or under some shooting conditions. For best results, the distance the camera is moved between shots should be about 1/30th to 1/50th of the distance to the subject.
 - The camera will turn off automatically if no operations performed for the time selected for 2 POWER MANAGEMENT > AUTO POWER OFF (126). The first shot will not be saved if the second shot is not taken before the camera turns off.





Viewing and Printing 3D Images

- The camera displays images in 2D. Press the selector down to toggle between the first and second shots.
- Devices equipped for 3D display, such as the FINEPIX REAL 3D V3 digital photo frame or FINEPIX REAL 3D W3 digital camera, will display the images in 3D. Note that the FINEPIX REAL 3D W3 only displays images of size M or smaller.
- **3D prints** can be ordered from *http://www.fujifilm.com/3d/print/*
- The supplied software displays 3D anaglyph images. 3D photos can also be viewed using other applications that support the MP format.
- **3D TVs** that support the MP format can display images in 3D. See the manual for your TV for details.
- ① Images are not output in 3D when printed directly from the camera.
- $\oplus\,$ 3D images are displayed in 2D in slide shows and when output on a conventional TV.
- $\oplus\,$ 3D images can not be edited or retouched.

Note: The MP (Multi-Picture) format is a CIPA standard for files containing multiple still images. Files in MP format are referred to as "MP files" and have the extension "*.MPO". The camera uses this format for 3D images.

SP SCENE POSITION

More on Photography

The camera offers a choice of "scenes," each adapted to particular shooting conditions or a specific type of subject. Use the SCENE **POSITION** option to choose the scene assigned to the SP position on the mode dial.

| Scene | Description | | | |
|-----------------------------|---|--|--|--|
| ©\$ NATURAL & \$ | The camera takes two shots: one without the flash and one with. | | | |
| NATURAL LIGHT | Capture natural lighting under low-light conditions. | | | |
| PORTRAIT | Choose for portraits. | | | |
| PORTRAIT ENHANCER | Choose for a smooth skin effect when shooting portraits. | | | |
| LANDSCAPE | Choose for daylight shots of buildings and landscapes. | | | |
| 🛠 SPORT | Choose when photographing moving subjects. | | | |
| C NIGHT | Choose this mode for poorly lit twilight or night scenes. | | | |
| [®] NIGHT (TRIPOD) | Choose this mode for slow shutter speeds when shooting at night. | | | |
| FIREWORKS | Slow shutter speeds are used to capture the expanding burst of light from a firework. | | | |
| 🛎 SUNSET | Choose this mode to record the vivid colors in sunrises and sunsets. | | | |
| *∰× SNOW | Choose for crisp, clear shots that capture the brightness of scenes dominat- ed by shining white snow. | | | |

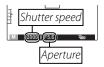


| Scene | Description | | | |
|---------------|--|--|--|--|
| ▲Ĩ BEACH | Choose for crisp, clear shots that capture the brightness of sunlit beaches. | | | |
| ✓► UNDERWATER | Reduces the blue cast typically associated with underwater lighting. | | | |
| Y PARTY | Capture indoor background lighting under low-light conditions. | | | |
| ✤ FLOWER | Choose for vivid close-ups of flowers. | | | |
| TEXT TEXT | Take clear pictures of text or drawings in print. | | | |

M MANUAL

In this mode, you choose both shutter speed and aperture. If desired, exposure can be altered from the value suggested by the camera.

Rotate the main-command dial to set the shutter speed or aperture. Press the main-command dial to change the setting item between shutter speed and aperture.



- ① Noise in the form of randomly-spaced bright pixels may occur in long exposures.
- ${\scriptstyle \oplus}\,$ The shutter speed is restricted depending on the ISO setting.
- ${\rm I\!O}\,$ If the shutter speed is displayed in red at the selected aperture, photos will be taken without the selected shutter speed.

Sub-command dial

When an option other than **MANUAL** is selected for focus mode (E 62), you can use the sub-command dial to set aperture or shutter speed.

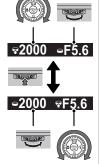
- Rotating the sub-command dial changes the setting that is marked with ?
- Press the main-command dial to change the setting item.

The Exposure Indicator

The amount the picture will be under- or over-exposed at current settings is shown by the exposure indicator.







A APERTURE PRIORITY AE

Choose the aperture using the main/sub-command dial, while the camera adjusts shutter speed for optimal exposure.

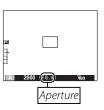
S SHUTTER PRIORITY AE

Choose the shutter speed using the main/sub-command dial, while the camera adjusts aperture for optimal exposure.

- ${\rm I\!O}$ If the shutter speed is displayed in red at the selected aperture, photos will be taken without the selected shutter speed.









P PROGRAM AE

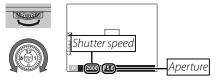
The camera sets exposure automatically.



 \oplus If the subject is outside the metering range of the camera, the shutter speed and aperture displays will show "---". Press the shutter button halfway to measure exposure again.

🐌 Program Shift

Rotate the main/sub-command dial to choose the desired combination of shutter speed and aperture. The default values can be restored by raising the flash or turning the camera off. To use program shift, turn the flash off. Furthermore, an option other than **AUTO** must be selected for **MM DYNAMIC RANGE** and **MM ISO**.



C1/C2 CUSTOM MODE

In **P**, **S**, **A**, **M** and all **EXR** modes except **SS**, the **CUSTOM SET** option in the shooting menu can be used to save current camera and menu settings. These settings are recalled whenever the mode dial is rotated to **C1/C2** (custom mode).



| Menu/setting | Settings saved |
|--------------|---|
| | 🔟 ISO, 💽 IMAGE SIZE, 🔛 IMAGE QUALITY, 🌆 DYNAMIC RANGE, |
| | 📭 FILM SIMULATION, 🌆 WB SHIFT, 🔤 COLOR, 🔤 SHARPNESS, |
| Shooting | 溫 HIGHLIGHT TONE, 🔜 SHADOW TONE, 📼 NOISE REDUCTION, |
| menu | 😰 INTELLIGENT DIGITAL ZOOM, 🖾 FACE DETECTION, |
| | 🗊 FOCUS MODE, 🛃 FLASH, 🞯 PHOTOMETRY, 🔟 WHITE BALANCE, |
| | |
| Setup menu | 🚾 AF ILLUMINATOR, 🚥 RAW |
| Other | Macro mode (💭), flash mode (🗲), program shift, shutter speed, aperture, monitor |
| | display options (DISP/BACK), exposure compensation (🔀) |

① Once the camera is turned off, 🖾 INTELLIGENT DIGITAL ZOOM is deactivated.

Focus Lock

To compose photographs with off-center subjects:

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

3 Shoot: Press the button all the way down.



Focus Lock

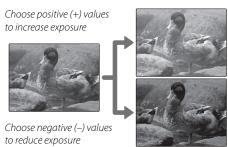
Autofocus

Although the camera boasts a high-precision autofocus system, it may be unable to focus on the subjects listed below. If the camera is unable to focus, focus on another subject at the same distance and use focus lock to recompose the photograph.

| Very shiny subjects such as mirrors or car bodies. | • Subjects that show little contrast with the background |
|--|---|
| Fast-moving subjects. | (for example, subjects in clothing that is the same color |
| • Subjects photographed through a window or other re- | as the background). |
| flective object. | • Subjects positioned in front of or behind a high-contrast |
| • Dark subjects and subjects that absorb rather than reflect | object that is also in the focus frame (for example, a |
| light, such as hair or fur. | subject photographed against a backdrop of highly con- |
| Insubstantial subjects, such as smoke or flame. | trasting elements). |

🔁 Exposure Compensation

To adjust exposure compensation when photographing very bright, very dark, or high-contrast subjects, press the selector up (2). Rotate the main/sub-command dial to choose an exposure compensation value and then press **MENU/OK**.



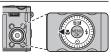
- A Image icon and exposure indicator are displayed at settings other than ±0. Exposure compensation is not reset when the camera is turned off; to restore normal exposure control, choose a value of ±0.
- Turn the flash off when using exposure compensation.

For close-ups, press the selector left (C) and select C. Rotate the zoom ring to compose pictures (C 26).

To exit macro mode, press the selector left (\clubsuit) and select **OFF**.

- Use of a tripod is recommended to prevent blur caused by camera shake.
- The shadow cast by the lens may appear in photographs taken with the flash at very short ranges. Zoom out or increase the distance to the subject.
- Macro mode can be performed only when autofocus is used.

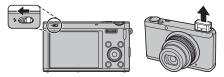




4 Using the Flash (Super-Intelligent Flash)

When the flash is used, the camera's *Super-Intelligent Flash* system instantly analyzes the scene based on such factors as the brightness of the subject, its position in the frame, and its distance from the camera. Flash output and sensitivity are adjusted to ensure that the main subject is correctly exposed while preserving the effects of ambient background lighting, even in dimly-lit indoor scenes. Use the flash when lighting is poor, for example when shooting at night or indoors under low light.

1 Slide the flash pop-up switch to raise the flash.

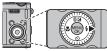


2 Press the selector right (4) and choose from the following flash modes:

| Option | Description | | | | | |
|------------------------|--|---|--|--|--|--|
| | The flash fires when required. Recommended in most situations. | | | | | |
| 4 /@ 4 * | The flash fires whenever a picture is taken. Use for backlit subjects or for natural coloration when shooting in bright light. | | | | | |
| | Capture both the main subject and the background under low light (note that brightly lit scenes may be overexposed). | l | | | | |

* • icon indicates that Intelligent Face Detection and red-eye removal are on and will be used to minimize "red-eye" caused by the flash reflecting from the retinas of portrait subjects.

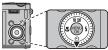
- Lower the flash where flash photography is prohibited or to capture natural lighting under dim light. We also recommend that you lower the flash when the camera is off.
- If the flash will fire, 2 will be displayed when the shutter button is pressed halfway. At slow shutter speeds, 2 will appear in the display to warn that pictures may be blurred; use of a tripod is recommended.
- The flash may fire several times with each shot. Do not move the camera until shooting is complete.
- The flash may cause vignetting.

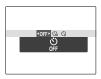




👏 Using the Self-Timer

To use the self-timer, press the selector down (\circlearrowright) and choose from the following options:

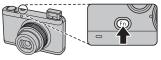




| Option | Description |
|-------------|---|
| SFF (OFF) | Self-timer off. |
| ്പ (10 SEC) | The shutter is released ten seconds after the shutter button is pressed. Use for self-portraits. The self-timer lamp on the front of the camera lights when the timer starts and begins to blink shortly before the photo is taken. |
| 🍪 (2 SEC) | The shutter is released two seconds after the shutter button is pressed. Use to reduce blur caused by the camera moving when the shutter button is pressed. The self-timer lamp will blink as the timer counts down. |

The Fn Button

The role played by the **Fn** button can be selected using the **Fn BUTTON** option.

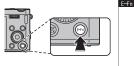


The following options are available: ISO (100)/IMAGE SIZE (101)/IMAGE QUALITY (101)/ RAW (128)/DYNAMIC RANGE (102)/FILM SIMULATION (103)/ PHOTOMETRY (107)/FOCUS MODE (62)/ FACE RECOGNITION (107)/FACE DETECTION (66)/ INTELLIGENT DIGITAL ZOOM (106)

The In Fn BUTTON menu can also be displayed by pressing and holding the Fn button.

The E-Fn Button

Press the **E-Fn** button to use the **E-Fn** (extended function) menu.





The each role played by the \blacktriangleright button, the \odot button and the selector up, down, left and right can be used in the **E-Fn** menu.

Press the E-Fn button again to return to shooting mode.

Using the E-Fn BUTTON CUSTOM SETTING Menu

The following options are available:

 Select ESE E-Fn BUTTON CUSTOM SETTING in the shooting menu. The ESE E-Fn BUTTON CUSTOM SET-TING menu is displayed.



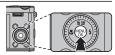
2 Press the button to adjust.



3 Highlight items and press the selector up or down to view options, then highlight an option and press **MENU/OK**.

Continuous Shooting

To capture motion in a series of pictures, press **MENU/OK**, select **OK CONTINUOUS** in the shooting menu, and choose from the options listed in this section.



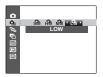
| Option | |
|------------------------|----|
| STILL IMAGE | _ |
| 💁 TOP n | 58 |
| ිතු BEST FRAME CAPTURE | 58 |
| 🔁 AE BKT | 60 |
| 🖾 ISO BKT | 60 |
| E FILM SIMULATION BKT | 60 |
| 📧 DYNAMIC RANGE BKT | 61 |

- The flash turns off automatically. The previously selected flash mode is restored when is selected for in continuous.
- Frame rate varies with shutter speed.
- Focus and exposure are determined by the first frame in each series.
- The number of pictures that can be taken in a single burst varies with the scene and camera settings. The number of pictures that can be recorded depends on the memory available.

🔳 👜 TOP n

The camera takes photographs while the shutter button is pressed. To choose the frame rate:

1 Press the selector left or right to choose a frame rate and press **MENU/OK** to select and return to shooting mode.



🗖 🖻 BEST FRAME CAPTURE

The camera takes a series of pictures, starting before and ending after the shutter button is pressed.

- **1** Press the selector right when the camera is in shooting mode.
- **2** Highlight the current frame rate and press the selector right, then press selector up or down to choose a new value and press **MENU/OK** to select.

 ${\scriptstyle \oplus}\,$ Some frame rates may reduce the number of shots available.

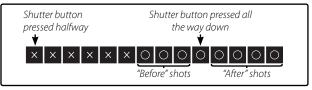
3 Highlight the number of shots and press the selector right. Press the selector up or down to choose the number of shots in each burst and left or right to choose their distribution (the number on the left is taken *before* and the number on the right *after* the shutter button is pressed). Press **MENU/OK** when settings are complete and press **DISP/BACK** to return to shooting mode.

Shots per burst



Distribution

4 Take photographs. The camera begins recording while the shutter button is pressed halfway, and completes the burst when the shutter button is pressed all the way down. The illustration shows a burst of eight shots, three before the shutter button is pressed and four after.



- ① If the shutter button is pressed all the way down before the number of frames selected for the "before" portion is recorded, the remaining frames will be taken after the shutter button is pressed all the way down.
- ${\rm I\!O}\,$ If the shutter button is pressed halfway for an extended period, the camera may record the burst before the shutter button is pressed all the way down.

🔳 🖷 AE BKT

Each time the shutter button is pressed, the camera takes three shots: one using the metered value for exposure, the second overexposed by the amount selected for the selector left or right, and the third underexposed by the same amount (the camera may not be able to use the selected bracketing increment if the amount of over- or under- exposure exceeds the limits of the exposure metering system).

ISO BKT

Press the selector left or right to highlight a bracketing amount. Each time the shutter is released, the camera will take a picture at the current sensitivity (💷 100) 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 1600 or fall below ISO 200).

FILM SIMULATION BKT

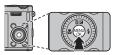
Each time the shutter button is pressed, the camera takes one shot and processes it to create three copies with different T FILM SIMULATION settings (III 103): PROVIA/STANDARD for the first, Velvia/VIVID for the second, and F ASTIA/SOFT for the third.

DYNAMIC RANGE BKT

Each time the shutter button is pressed, the camera takes three shots at different **DYNAMICRANGE** settings (**E** 102): **100%** for the first, **200%** for the second, and **400%** for the third (**ISO ISO** can not exceed 3200; values less than 400 are not available when **I** is selected for **IMAGE SIZE**).

🖪 Focus Mode

To choose how the camera focuses, press **MENU/OK** to display the shooting menu and choose from the **FOCUS MODE** options.



The following options are available:

| Mode | Description | | | |
|-----------|---|--|--|--|
| ME MANUAL | Focus manually using the sub-command dial. Rotate the sub-command dial left to reduce the focus distance, right to increase. Choose for manual control of focus or in situations in which the camera is unable to focus using autofocus (III 47). Intelligent Face Detection turns off automatically. <i>Reduce focus distance focus distance focus distance</i> | | | |
| 🐼 AREA | Choose the focus area manually (🕮 65). | | | |
| + MULTI | When the shutter button is pressed halfway, the camera detects high-contrast subjects near the center of the frame and selects the focus area automatically. | | | |

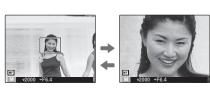
| Mode | Description | | |
|-----------------|---|--|--|
| CONTINU- OUS | The camera continually adjusts focus to reflect changes in the distance to the subject even when the shutter button is not pressed halfway (note that this increases the drain on the battery). Choose for moving subjects. | | |
| 🖳 TRACKING | Position the subject in the center focus area and press the selector left. Focus will track the subject as it moves through the frame. | | |

Manual Focus

- Use of a tripod is recommended. Focus may be affected if the camera moves.
- Use the **TFOCUS CONTROL DIAL** option in the setup menu (**EE** 130) to reverse the direction of rotation of the sub-command dial.
- The camera will not focus if the sub-command dial is rotated past infinity.
- While the **TFOCUS MODE** is selected to **FFMANUAL**, macro mode cannot be used.
- To focus using autofocus, press the selector left. This can be used to quickly focus on a chosen subject in manual focus mode.
- Note that in □ and □ modes, the camera focuses continuously, increasing the drain on the battery, and that the sound of the camera focusing may be audible.
- If a face is detected when is selected, a selected, a selected, a selected, a selected will be displayed and the camera will continuously adjust focus to maintain focus on the face.

FOCUS CHECK

If **ON** is selected for **TP FOCUS CHECK** in the setup menu (**PP** 125), rotating the sub-command dial magnifies the view in the LCD monitor.



Focus Frame Selection

When 🐼 **AREA** is selected for **T FOCUS MODE** in the shooting menu, focus position can be changed. Press MENU/OK to select **T FOCUS AREA** in the shooting menu and then press the selector up, down, left or right. The setting takes effect when you press the **MENU/OK** button again.

When framing a picture in the LCD monitor, you can choose the size of the focus frame. Press **MENU/OK**, select **FOCUS AREA** in the shooting menu and then rotate the main-command dial. The frame size can be reduced up to 50% or enlarged up to 150% (returned to 100% by pressing the main-command dial). The setting takes effect when you press the **MENU/OK** again.

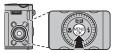


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| + | + | + | + | + | + | + | |
| + | + | + | + | + | + | + | |
| | | | | | | | |

🛛 🖾 Intelligent Face Detection

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.

To use Intelligent Face Detection, press **MENU/OK** to display the shooting menu and select **ON** for **P FACE DETECTION SET-UP** > **FACE DETECTION**. 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.





- ${\rm \Phi}\,$ In some modes, the camera may set exposure for the frame as a whole rather than the portrait subject.
- ${\rm I}$ If the subject moves as the shutter button is pressed, their face may not be in the area indicated by the green border when the picture is taken.

I Face Recognition

The camera can store information on the face and personal details (name, relationship, and birth date) of portrait subjects and assign these subjects priority for Intelligent Face Detection or display their names and other information during playback.

Adding New Faces

Follow the steps below to add faces to the face recognition database.

1 Select REGISTER.

Select **REGISTER** for **P** FACE DETECTION SET-UP > FACE RECOGNI-TION.

> To disable face recognition, select OFF.

2 Take a photograph.

After checking that the subject is facing the camera, frame the subject using the guides and take the photograph.

If an error is displayed, take the photograph again.





3 Enter face recognition data.

Press **MENU/OK** to display face recognition data and enter the following information:

- NAME: Enter a name of up to 14 characters and press MENU/OK.
- BIRTHDAY: Enter the subject's date of birth and press MENU/OK.
- **CATEGORY**: Choose the option that describes your relationship to the subject and press **MENU/OK**.
- If you attempt to zoom in on the face of a person indicated by a green border in the face recognition database on their birthday, the camera will display their name and the message "Happy Birthday!"

Viewing, Editing, and Deleting Existing Data

Follow the steps below to view, edit, or delete face recognition data.

1 Select VIEW & EDIT for 🖾 FACE RECOGNITION.

2 Select a face.

3 View or edit face recognition data.

The name, category, or birth date can be edited as described in Step 3 of "Adding New Faces" (🕮 68). To retake the photo, select **REPLACING IMAGE** and shoot a new portrait as described above.

To delete face recognition data for the selected subject, select **ERASE**.

Adding Faces Automatically

To automatically add frequently-photographed subjects to the face recognition database, select **ON** for **AUTO REGISTRATION** in the face recognition menu. If the camera detects a face that has been photographed many times without being added to the database, it will display a message prompting you to create a new face recognition entry. Press **MENU/OK** and enter face recognition data.

The camera may sometimes fail to recognize new faces automatically. If necessary, faces can be added manually using the **REGISTER** option.

Face Recognition

The camera can store up to eight faces. If you attempt to add a ninth face, a confirmation dialog will be displayed; use **ERASE** to make room for new faces by deleting existing data. **AUTO REGISTRATION** is disabled if there are already data for eight faces.

When Intelligent Face Detection (🕮 66) is on and the frame contains multiple subjects from the face recognition database, the camera displays the name of the subject that will be used to set focus and exposure (the subject shown by the green frame). If no name is entered, the camera will show "---". Subjects identified using face recognition but not used to set focus and exposure are shown by orange frames, other subjects by white frames.

① The camera may fail to identify subjects in the face recognition database if they are not facing the camera or are only partly in the frame, or if details of the subjects' faces or expressions differ markedly from those in the database.

More on Playback

Playback Options

To view the most recent picture in the LCD monitor, press the \blacktriangleright button.



Press the selector 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 indicated by a # ("gift image") icon during playback.

<u>Continuous Shooting</u>

In the case of pictures taken in continuous shooting mode, only the first frame of each series will be displayed. Press the selector down to view the other pictures in the series.

★ Favorites: Rating Pictures

To rate the picture currently displayed in full-frame playback, press **DISP/BACK** and press the selector up and down to select from zero to five stars.

Playback Zoom

Rotate the main-command dial to zoom on pictures displayed in single-frame playback. When the picture is zoomed in, the selector can be used to view areas of the image not currently visible in the display.



Zoom indicator

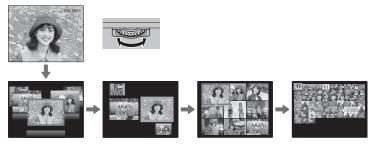
Navigation window shows portion of image currently displayed in LCD monitor

Press DISP/BACK to exit zoom.

- If the pictures before or after the current picture are the same size as the current picture, you can rotate the sub-command dial to view the other pictures without changing the zoom ratio. This option is not available if the pictures are not the same size as the current picture.
- The maximum zoom ratio varies with image size. Playback zoom is not available with cropped or resized copies saved at a size of M or smaller.

Multi-Frame Playback

To change the number of images displayed, rotate the main-command dial. Rotate the main-command dial to the left to increase the number of images displayed to two, nine, or one hundred, and rotate it to the right to view fewer images.



When two or more images are displayed, use the selector to highlight images and press **MENU/OK** to view the highlighted image full frame. In the nine- and hundred-frame displays, use the selector to view more pictures.

Deleting Pictures

To delete individual pictures, multiple selected pictures, or all pictures, press **MENU/OK**, select **III ERASE**, 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 II). 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 (if a memory card is inserted, only the pictures on the memory card will be affected; the pictures in internal memory are only deleted if no memory card is inserted). 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 (E 117).

If a message appears stating that the selected images are part of a DPOF print order, press MENU/OK to delete the pictures.

🐼 Image Search

Search for pictures.

- 1 Select Select IMAGE SEARCH in the playback menu, highlight one of the following search criteria, and press MENU/OK:
 - BY DATE: Search by date.
 - **BY FACE**: Search for faces from the face recognition database.
 - **BY** ★ **FAVORITES**: Search by rating.
 - BY SCENE: Search by scene.
 - BY TYPE OF DATA: Find all still pictures or all movies.
 - **BY UPLOAD MARK**: Find all pictures selected for upload to a specified destination.
- 2 Select a search condition. Only pictures that match the search condition will be displayed. To delete or protect selected pictures or to view the search results in a slide show, press MENU/OK and choose I ERASE (■ 74),
 I PROTECT (■ 117), or SLIDE SHOW (■ 114).

🛄 PhotoBook Assist

Create books from your favorite photos.

Creating a PhotoBook

- **1** Select **NEW BOOK** for **PHOTOBOOK ASSIST** in the playback menu and choose from the following options:
 - SELECT FROM ALL: Choose from all available pictures.

 - Movies, 3D photos, and photographs M or smaller can not be selected for photobooks.
- 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.
 - The first picture selected becomes the cover image. Press the selector down to select a different image for the cover.
- **3** Select **COMPLETE PHOTOBOOK** (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.
- ${\scriptstyle \textcircled{O}}$ 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" (🕮 76).
- ERASE: Delete the book.

Photobooks

Photobooks can be copied to a computer using the supplied MyFinePix Studio software.

Viewing Panoramas

If you press the selector down when a panorama is displayed full frame, the camera will play back the picture from left to right or from bottom to top. To pause playback, press the selector down; press the selector down again to resume. To exit to full-frame playback, press the selector up while panorama playback is in progress. Once displayed in full-frame playback, panoramas can be zoomed in or out using the main-command dial or deleted by pressing the selector up (\mathbf{m}).



Impanoramas play back in an endless loop (I 35); the playback direction can be controlled by pressing the selector left or right. The camera will not turn off automatically while playback is in progress (I 126).

Viewing Photo Information

Photo information can be viewed by pressing **DISP/BACK** to cycle through indicators (I) 7) until the following display appears:



Dynamic range
 Image size and quality
 Sensitivity
 Shutter speed/aperture
 Film simulation
 Flash mode
 White balance
 Exposure compensation
 Frame number
 Picture (overexposed areas blink on and off)
 Histogram

Additional photo information

Additional photo information can be viewed by pressing the **E-Fn** button. Press the **E-Fn** button to cycle the display.

| D-RANGE | : AUTO |
|---------------|----------|
| COLOR | : STD |
| HIGHLIGHTTONE | : STD |
| SHADOWTONE | : STD |
| SHARPNESS | |
| FILM SIM. | : Velvia |
| WHITE BALANCE | : AUTO |
| | |
| | |

The active focus point is shown by a "+" icon.

Zooming in on the Focus Point

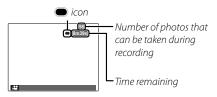
Press the main-command dial to zoom in on the focus point. Press **DISP/BACK** or **MENU/OK** to return to full-frame playback.



Movies

Recording Movies

Press \odot to shoot a movie. During recording, the following indicators will be displayed and sound will be recorded via the built-in microphone (be careful not to cover the microphone during recording).



To end recording, press \odot again. Recording ends automatically when the movie reaches maximum length or memory is full. For information on the maximum footage that can be recorded, see page 146.

Automatic Scene Selection

In Sim mode, the camera selects the scene according to shooting conditions and the type of subject: ③ (portraits), ④ (poorly-lit landscapes), ④ (poorly-lit portraits), ④ (landscapes), ⑤ (close-ups), ④ (backlit portraits), or ጫ (other subjects).



Scene icon

Taking Photographs During Recording

Press the shutter button to take a photograph during recording.

- The method used to record photographs can be selected using the MOVIE SET-UP > STILL SHOOTING IN MOVIE option (E 110).
- The photo is saved separately from the movie and does not appear as part of the movie.
- ① Photos can not be taken while a high-speed movie is being recorded.
- ① The number of photos that can be taken is limited.
- Soom can be adjusted while recording is in progress.
- Focus, exposure, and white balance are adjusted automatically throughout recording. The color and brightness of the image may vary from that displayed before recording begins.
- Sounds made by the camera may be recorded.
- ① The indicator lamp lights while movies are being recorded. Do not open the battery chamber during shooting or while the indicator lamp is lit. Failure to observe this precaution could prevent the movie from being played back.
- ① Vertical or horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.
- ${\rm \oplus}~{\rm The}$ temperature of the camera may rise if it is used to record movies for an extended period or if the ambient temperature is high. This is normal and does not indicate a malfunction.
- ${\scriptstyle \textcircled{O}}$ The mode selected may vary with shooting conditions.

Movie Frame Size

Before recording, select a frame size using the **MOVIE SET-UP** > **MOVIE MODE** option.

| Option | Description | | |
|-------------------------------|---|--|--|
| 🛅 1920×1080 | Full HD (H igh D efinition). | | |
| 1280×720 | High Definition. | | |
| 640×480 | Standard definition. | | |
| 15 640 × 480 (70 fps) | High speed movie. Sound is not recorded, and focus, exposure, and white | | |
| IS 320 × 240 (120 fps) | balance are not adjusted automatically. Black bands appear at the top and | | |
| 320 × 112 (200 fps) | bottom of movies recorded at 🔢 320 × 112. | | |

Playback Speed Press the selector left or right to adjust playback speed. Speed is Arrow shown by the number of arrows (\triangleright or \triangleleft).

① Do not cover the speaker during playback.

Viewing Movies

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

| Option | 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/ delete | Press the selector up to end playback. | | | |
| Adjust speed | Press the selector left or right to adjust playback speed dur- ing playback. | | | |
| Adjust volume | Press MENU/OK to pause playback and display volume con- trols. Press the selector up or down to adjust the volume and press MENU/OK to exit. Volume can also be adjusted using the SOUND SET-UP > PLAYBACK VOLUME op- tion (124). | | | |





Connections

Viewing Pictures on TV

Connect the camera to a TV to show pictures to a group.

1 Turn the camera off and connect an optional A/V cable as shown below.

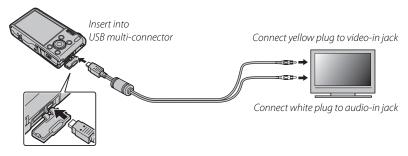
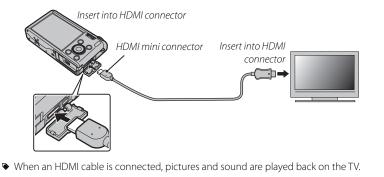


Image quality drops during movie playback.

Connecting the Camera to High Definition (HD) TVs

An HDMI cable (available from third-party suppliers) can be used to connect the camera to High Definition (HD) devices (playback only). The USB and A/V cables can not be used while an HDMI cable is connected.



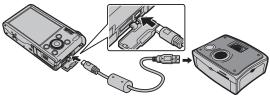
- ① When connecting cables, be sure the connectors are fully inserted.
- **2** Tune the television to the video or HDMI input channel. See the documentation supplied with the television for details.
- 3 Press the button for about a second to turn the camera on. The camera monitor turns off and pictures 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.

Connections

Printing Pictures via USB

If the printer supports PictBridge, the camera can be connected directly to the printer as shown below and pictures can be printed without first being copied to a computer. Note that depending on **PictBridge** the printer, not all the functions described below may be supported.

1 Connect the supplied USB cable as shown and turn the printer on.



- **2** Turn the camera on.
- **3** Press the selector left or right to display a picture you wish to print.
- **4** Press the selector up or down to choose the number of copies (up to 99).
- **5** Repeat steps 3–4 to select additional pictures. Press **MENU/OK** to display a confirmation dialog when settings are complete.

- 6 Press MENU/OK to start printing. Printing can be interrupted by pressing **DISP/BACK**, but note that some printers may not respond immediately. If the printer stops before printing is complete, turn the camera off and then on again.
- **7** After confirming that **PRINTING** has cleared from the camera display, turn the camera off and disconnect the USB csable.
- Pictures can be printed from internal memory or a memory card that has been formatted in the camera.
- If no pictures are selected, the camera will print one copy of the current picture.
- Page size, print quality, and border selections are made using the printer.

Printing the Date of Recording

To print the date of recording on pictures, press **DISP/BACK** in the PictBridge display and select **PRINT WITH DATE** in the PictBridge menu (to print pictures without the date of recording, select **PRINT WITHOUT DATE**). Some printers do not support date printing. See the printer manual for details.

Printing the DPOF Print Order

The PRINT ORDER (DPOF) option can be used to create a digital "print order" for PictBridge-compatible printers (28) 87) or devices that support DPOF.

DPOF

DPOF (Digital Print Order Format) is a standard that allows pictures to be printed from "print orders" stored in internal memory or on a memory card. The information in the order includes the pictures to be printed and the number of copies of each picture.

- **1** Select playback mode and press **MENU/OK** to display the playback menu.
- 2 Highlight PRINT ORDER (DPOF) and press MENU/OK.
- 3 Highlight one of the following options and press MENU/OK:
 - WITH DATE C: Print the date of recording on pictures.
 - WITHOUT DATE: Do not print the date of recording on pictures.
 - Some printers do not support date printing. See the printer manual for details.
- **4** Press the selector left or right to display a picture you wish to add to or remove from the print order.

- **5** Press the selector up or down to choose the number of copies (up to 99). To remove a picture from the print order, press the selector down until the number of copies is zero.
- **6** Repeat Steps 4–5 to complete the print order and press **MENU/OK** when settings are complete.
- **7** A confirmation dialog will be displayed. Press **MENU/OK** to save the print order.
 - Remove the memory card to create or modify a print order for the pictures in internal memory.
 - Print orders can contain a maximum of 999 pictures.
 - If a memory card is inserted containing a print order created by another camera, a message will be displayed. Create a new print order as described above.

Viewing Pictures on a Computer

The supplied software can be used to copy pictures to a computer, where they can be stored, viewed, organized, and printed. Before proceeding, install the software as described below. **Do NOT connect the camera to the computer until installation is complete**.

Windows: Installing MyFinePix Studio

1 Confirm that the computer meets the following system requirements:

| | Windows 7 (SP 1)/Windows Vista (SP 2) ¹ | Windows XP (SP 3) ¹ | | |
|-----------------|---|--|--|--|
| CPU | 3 GHz Pentium 4 or better | 2 GHz Pentium 4 or better | | |
| Cr U | (2.4 GHz Core 2 Duo or better) ² | (2.4 GHz Core 2 Duo or better) ² | | |
| RAM | 1 GB or more | 512 MB or more | | |
| nam | | (1 GB or more) ² | | |
| Free disk space | 2 GB or more | | | |
| GPU | Supports DirectX 9 or later | Supports DirectX 7 or later | | |
| | (recommended) | (required; performance not guaranteed with other GPUs) | | |
| Video | 1,024×768 pixels or more with 24- | bit color or better | | |
| | Built-in USB port recommended. | Operation is not guaranteed with other | | |
| | USB ports. | | | |
| | • .NET Framework 3.5 Service Pack 1 required when uploading images or us- | | | |
| Other | Other ing Map Viewer. | | | |
| | Internet connection (broadband recommended) required to install | | | |
| | .NET Framework (if necessary), to use auto update feature, and when per- forming such tasks as sharing pictures on-line or via e-mail. | | | |
| | | | | |

1 Other versions of Windows are not supported. Only pre-installed operating systems are supported; operation is not guaranteed on home-built computers or computers that have been upgraded from earlier versions of Windows.

2 Recommended when displaying HD movies.

- **2** Start the computer. Log in to an account with administrator privileges before proceeding.
- **3** Exit any applications that may be running and insert the installer CD in a CD-ROM drive.

Windows 7/Windows Vista

If an AutoPlay dialog is displayed, click **SETUP.EXE**. A "User Account Control" dialog will then be displayed; click **Yes** (Windows 7) or **Allow** (Windows Vista).

The installer will start automatically; click **Install MyFinePix Studio** and follow the on-screen instructions to install MyFinePix Studio and RAW FILE CONVERTER.

If the Installer Does Not Start Automatically

If the installer does not start automatically, select **Computer** or **My Computer** from the Start menu, then double-click the **FINEPIX** CD icon to open the FINEPIX CD window and double-click **setup** or **SETUP.EXE**.

- **4** If prompted to install Windows Media Player or DirectX, follow the onscreen instructions to complete installation.
- **5** Remove the installer CD from the CD-ROM drive when installation is complete. Store the installer CD in a dry location out of direct sunlight in case you need to re-install the software.

Installation is now complete. Proceed to "Connecting the Camera" (🕮 96).

Macintosh: Installing FinePixViewer

1 Confirm that the computer meets the following system requirements:

| CPU | PowerPC or Intel (Core 2 Duo or better)* | | |
|-----------------|---|--|--|
| OS | Pre-installed copies of Mac OS X version 10.5–10.6 (visit <i>http://www.fujifilm.</i> <i>com/support/digital_cameras/compatibility/</i> for more information). Mac OS X version 10.7 and later not supported. | | |
| RAM | 256 MB or more (1 GB or more)* | | |
| Froo dick charo | A minimum of 200 MB required for installation with 400 MB available when FinePixViewer is running | | |
| Video | 800 × 600 pixels or more with thousands of colors or better | | |
| Other | Built-in USB port recommended. Operation is not guaranteed with other USB ports. | | |

* Recommended when displaying HD movies.

2 After starting the computer and quitting any applications that may be running, insert the installer CD in a CD-ROM drive and double-click **Installer for Mac OS X**.

Viewing RAW Images

RAW FILE CONVERTER software is required to view RAW images on a computer. To install RAW FILE CONVERTER, double-click **SILKYRFCEXInstaller**. RAW FILE CONVERTER is supported under Mac OS X versions 10.5 to 10.7.

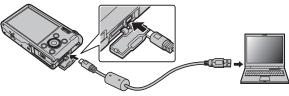
- **3** An installer dialog will be displayed; click **Installing FinePixViewer** to start installation. Enter an administrator name and password when prompted and click **OK**, then follow the on-screen instructions to install FinePixViewer. Click **Exit** to quit the installer when installation is complete.
- **4** Remove the installer CD from the CD-ROM drive. Note that you may be unable to remove the CD if Safari is running; if necessary, quit Safari before removing the CD. Store the installer CD in a dry location out of direct sunlight in case you need to re-install the software.
- 5 Mac OS X 10.5: Open the "Applications" folder, start Image Capture, and select Preferences... from the Image Capture application menu. The Image Capture preferences dialog will be displayed; choose Other... in the When a camera is connected, open menu, then select FPVBridge in the "Applications/FinePixViewer" folder and click Open. Quit Image Capture.

Mac OS X 10.6: Connect the camera and turn it on. Open the "Applications" folder and start Image Capture. The camera will be listed under **DEVICES**; select the camera and choose **FPVBridge** from the **Connecting this camera opens** menu and click **Choose**. Quit Image Capture.

Installation is now complete. Proceed to "Connecting the Camera" (🕮 96).

Connecting the Camera

- **1** If the pictures you wish to copy are stored on a memory card, insert the card into the camera.
 - Windows users may require the Windows CD when starting the software for the first time.
 - ${\rm I}$ Loss of power during transfer could result in loss of data or damage to internal memory or the memory card. Charge the battery before connecting the camera.
- **2** Turn the camera off and connect the supplied USB cable as shown, making sure the connectors are fully inserted. Connect the camera directly to the computer; do not use a USB hub or keyboard.



3 Press the ► button for about a second to turn the camera on and follow the on-screen instructions to copy pictures to the computer. To exit without copying pictures, click **Cancel**.

For more information on using the supplied software, start the application and select the appropriate option from the **Help** menu.

- 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 internal memory or the memory card.
- ${\scriptstyle \textcircled{O}}$ Disconnect the camera before inserting or removing memory cards.
- \oplus In some cases, it may not be possible to access pictures saved to a network server using the supplied software in the same way as on a standalone computer.

Disconnecting the Camera

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

Uninstalling the Supplied Software

Only uninstall the supplied software when it is no longer required or before beginning reinstallation. After quitting the software and disconnecting the camera, drag the "FinePixViewer" folder from "Applications" into the Trash and select **Empty Trash** in the **Finder** menu (Macintosh), or open the control panel and use "Programs and Features" (Windows 7/Windows Vista) or "Add or Remove Programs" (Windows XP) to uninstall MyFinePix Studio. Under Windows, one or more confirmation dialogs may be displayed; read the contents carefully before clicking **OK**.

Menus

Using the Menus: Shooting Mode

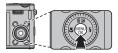
<u>Using the Shooting Menu</u>

- **1** Display the shooting menu.
 - **1.1** Press **MENU/OK** during shooting to display the shooting menu.
 - **1.2** Press the selector left to highlight the current tab.
 - **1.3** Press the selector up or down to highlight the tab containing the desired option.
 - 1.4 Press the selector right to place the cursor in the menu.

2 Adjust settings.

Highlight items and press the selector right to view options, then highlight an option and press **MENU/OK**. Press **DISP/BACK** to exit when settings are complete.





| <u>Shooting Menu Options</u> |
|------------------------------|
|------------------------------|

SCENE POSITION

Choose a scene for SP mode (🕮 41).

EXR MODE

Choose an option for **EXR** mode (🕮 31).

Adv. MODE

Choose an advanced shooting mode (🕮 33).

ISO ISO

Control the camera's sensitivity to light. Higher values can reduce blur; note, however, that mottling may app

| 100 | | ISO | \longrightarrow | 12800 |
|-----------------|---|------------------|-------------------|-----------------|
| Bright | ← | Scene | | Dark |
| Less noticeable | ← | Noise (mottling) | | More noticeable |

| Option | Description |
|-----------------------------|---|
| AUTO | Sensitivity is adjusted automatically in response to shooting conditions. |
| AUTO (3200) / AUTO (1600) / | As above, except that sensitivity will not be raised above the value in |
| AUTO (800) / AUTO (400) | parentheses. |
| 12800/6400/5000/ | |
| 4000/3200/2500/2000/ | |
| | Sensitivity is set to the specified value, which is shown in the display. |
| 640/500/400/320/250/ | |
| 200/100 | |

| pear in pic | tures taken at h | igh sensitivities. | | | |
|-------------|------------------|--------------------|-------------------|-----------------|--|
| 00 | ← | ISO | \longrightarrow | 12800 | |
| ght | ← | Scene | | Dark | |
| ticophlo | | Noise (mottling) | \longrightarrow | More noticeable | |

(default: 🔛)

(default: AUTO)

(default: 🗣)

(default: ADVANCED FILTER)

Choose the image size and aspect ratio at which pictures are recorded. Large pictures can be printed at large sizes with no drop in quality, while small pictures require less memory, allowing more pictures to be recorded.

| Size Versus Aspect Ratio | | | |
|--------------------------|------------------------|---|--|
| | Size | | |
| Option | Prints at sizes up to | _ | |
| 0 | 34×25 cm (13.5×10 in.) | | |
| Μ | 24×18 cm (9.5×7 in.) | | |
| 8 | 17×13 cm (7×5 in.) | | |
| | Aspect ratio | | |

- 4:3: Pictures have the same proportions as the camera display.
- 3:2: Pictures have the same proportions as a frame of 35 mm film.
- 16:9: Suited for display on High Definition (HD) devices.
- 1:1: Pictures are square.

🔛 IMAGE QUALITY

IMAGE SIZE

8

Choose how much image files are compressed.

| Option | Description |
|--------|--|
| FINE | Low compression. Select for higher image quality. |
| NORMAL | High compression. Select this option to store more pictures. |

(default: FINE)



Size Aspect ratio

DYNAMIC RANGE

Control contrast. Higher values are recommended for scenes that include both sunlight and deep shade or for increased contrast with such subjects as sunlight on water, brightly-lit autumn leaves, portraits taken against a blue sky, and 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 select values between 100% and 400% in response to shooting conditions.

| Option | Description |
|-----------|--|
| R100 100% | Increase contrast when shooting indoors or under overcast skies. |
| R200 200% | A |
| R400 400% | ert |
| 0% | Reduce loss of detail in highlights and shadows when photographing high- |
| 00% | contrast scenes. |
| | k100 100% k200 200% k400 400% |

Image: Image:

FILM SIMULATION

Simulate the effects of different types of film.

| Option | Description | | |
|----------------------------|--|--|--|
| केन (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 photo- graphs. | | |
| ST (ASTIA/SOFT) | A soft-toned palette of less saturated colors. | | |
| Br (MONOCHROME) | Take pictures in black and white. | | |
| (MONOCHROME + Ye FILTER) | Take black-and-white pictures with slightly increased contrast. This setting also slightly tones down the brightness of the sky. | | |
| BR (MONOCHROME + R FILTER) | Take black-and-white pictures with increased contrast. This setting also tones down the brightness of the sky. | | |
| ₿7 (MONOCHROME + G FILTER) | Soften skin tones in black-and-white portraits. | | |
| seer (SEPIA) | Take pictures in sepia. | | |

(default: 🗤)

WHITE BALANCE

(default: AUTO)

If **AUTO** does not produce natural colors (for example, when taking close-ups), select \square and measure a value for white balance or choose the option that matches the light source.

| Option | Description |
|--------|---|
| AUTO | White balance adjusted automatically. |
| | Measure a value for white balance. |
| К | Selecting this option displays a list of color temperatures; highlight a temperature and press MENU/OK . |
| * | For subjects in direct sunlight. |
| を | For subjects in the shade. |
| ₩i | Use under "daylight" fluorescent lights. |
| ₩2 | Use under "warm white" fluorescent lights. |
| 影 | Use under "cool white" fluorescent lights. |
| -Å- | Use under incandescent lighting. |
| | For underwater photography |

WHITE BALANCE (Continued)

🐌 📮 : Custom White Balance

Choose \square 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.

- If "COMPLETED!" is displayed, press MENU/OK to set white balance to the measured value.
- If "UNDER" is displayed, raise exposure compensation (🕮 49) and try again.
- If "OVER" is displayed, lower exposure compensation and try again.

For greater precision, adjust T FILM SIMULATION, IN ISO, and I DYNAMIC RANGE before measuring white balance.

- At settings other than 📮, auto white balance is used with the flash.
- Results vary with shooting conditions. Play pictures back after shooting to check colors in the display.

🐌 🔣 : 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 | |
| | | | |

(default: AUTO)

WB SHIFT

White balance can be fine-tuned. Adjust the selected color axis (R-Cy=Red-Cyan or B-Ye=Blue-Yellow) by +9 to -9 in increments of one.

| COLOR | (default: MID) |
|---|------------------------|
| Adjust color density. | |
| I SHARPNESS | (default: STD) |
| Choose whether to sharpen or soften outlines. | |
| III HIGHLIGHT TONE | (default: STD) |
| Adjust the appearance of highlights. | |
| E SHADOW TONE | (default: STD) |
| Adjust the appearance of shadows. | |
| III NOISE REDUCTION | (default: STD) |
| Choose the amount of noise reduction. | |
| INTELLIGENT DIGITAL ZOOM | (default: OFF) |

INTELLIGENT DIGITAL ZOOM

If ON is selected, intelligent digital zoom magnifies the image to 2× while processing it for sharp, high-resolution results.

- Intelligent digital zoom may end when another mode is selected.
- Intelligent digital zoom may sometimes produce lower quality images than optical zoom.
- The time needed to record images increases.
- The effects are not visible in the display during shooting.
- Intelligent digital zoom is not available in continuous mode or during movie recording.

CONTINUOUS

Capture motion in a series of pictures (🕮 57). Choose from 🙆, 💁, 💁, 🖷, 🞯, 🖃 and 國.

(default: 🖸)

ADVANCED ANTI BLUR

Select **ON** to enable advanced anti blur in 🔛 mode (🕮 32).

☑ FACE DETECTION SET-UP

Adjust face detection and face recognition options.

| Option | Description | |
|------------------|--|--|
| | Choose whether the camera automatically detects and sets focus and expo- sure for human portrait subjects (🕮 66). | |
| FACE RECOGNITION | Add portrait subjects to the face recognition database. These subjects will be given priority during Intelligent Face Detection, and their names and other information can be viewed during playback (📖 67). | |

D PHOTOMETRY

(default: 🔘)

Choose how the camera meters exposure when Intelligent Face Detection is off.

| Option | Description |
|------------|---|
| O MULTI | Automatic scene recognition is used to adjust exposure for a wide range of shooting conditions. |
| • SPOT | The camera meters lighting conditions at the center of the frame. Recom- mended when the background is much brighter or darker than the main subject. |
| [] AVERAGE | Exposure is set to the average for the entire frame. Provides consistent expo- sure across multiple shots with the same lighting, and is particularly effective for landscapes and portraits of subjects dressed in black or white. |

FOCUS MODE

This option controls how the camera focuses subjects (🕮 62).

(default: ON)

FOCUS AREA

This option controls how the camera selects the focus area for photographs (🕮 65). Regardless of the option selected, the camera will focus on the subject in the center of the frame when macro mode is on.

Fn Fn BUTTON

(default: ISO)

Choose the role played by the \mathbf{Fn} button (\mathbf{E} 54).

E-Fn BUTTON CUSTOM SETTING

Choose the role played by the \blacktriangleright button, the \odot button and the selector up, down, left and right (\blacksquare 55).

DISP. CUSTOM SETTING

Choose the items displayed in the LCD monitor. The following items can be displayed:

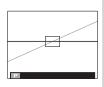
| FRAMING GUIDLINE* | ELECTRONIC LEVEL |
|--------------------|----------------------|
| WHITE BALANCE | APERTURE/S-SPEED/ISO |
| HISTOGRAM | FRAMES REMAINING |
| IMAGE SIZE/QUALITY | BATTERY LEVEL |
| PHOTOMETRY | FLASH |
| FILM SIMULATION | DYNAMIC RANGE |
| EXP. COMPENSATION | |

* You can also select the grid type (🕮 125).

See pages 6 – 7 for the locations of these items in the displays.

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.

🚰 FLASH

(default: ±0)

Adjust flash brightness. Choose from values between +2/3 EV and -2/3 EV. The default setting is ± 0 . Note that the desired results may not be achieved depending on shooting conditions and the distance to the subject.

MOVIE SET-UP

Adjust movie settings.

| Option | Description |
|----------------------------|---|
| MOVIE MODE | Choose a frame size for movies (🕮 83). |
| MOVIE AF MODE | This option controls how the camera selects the focus area for movies. Image: CENTER: When shooting starts, the camera focuses on the subject in the center of the frame. Image: CONTINUOUS: The camera continuously adjusts focus to reflect changes in the distance to subjects near the center of the frame. |
| | Note that in mode, the camera focuses continuously, increasing the drain on the battery, and that the sound of the camera focusing may be audible. If a face is detected when is selected, a icon will be displayed and the camera will continuously adjust focus to maintain focus on the face. |
| STILL SHOOTING IN MOVIE | Choose how the camera records photographs taken during movie recording. MOVIE PRIORITY: The camera takes a photograph without interrupting movie recording. Image size is determined by the option selected for MOVIE MODE. STILL IMAGE PRIORITY: The camera interrupts filming to take the photograph and resumes filming automatically when recording is complete. Image size is determined by the option selected for MAGE SIZE, but note that the photograph will be recorded at size M if I is selected. |

CUSTOM SET

Save settings for P, S, A, M and all EXR modes except 🔛 (🕮 46).

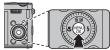
Using the Menus: Playback Mode

<u>Using the Playback Menu</u>

- **1** Display the playback menu.
 - **1.1** Press **MENU/OK** during playback to display the playback menu.
 - 1.2 Press the selector left to highlight the current tab. Tab
 - **1.3** Press the selector up or down to highlight the tab containing the desired option.
 - **1.4** Press the selector right to place the cursor in the menu.

2 Adjust settings.

Highlight items and press the selector right to view options, then highlight an option and press **MENU/OK**. Press **DISP/BACK** to exit when settings are complete.





Playback Menu Options

PHOTOBOOK ASSIST

Create books from your favorite photos (🕮 76).

IMAGE SEARCH

Search for pictures (🕮 75).

🖬 ERASE

Delete all or selected pictures (🕮 74).

MARK FOR UPLOAD TO

Select pictures for upload to YouTube or Facebook using MyFinePix Studio (Windows only).

Selecting Pictures for Upload

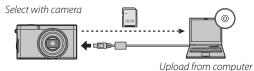
- 1 Select YouTube to choose movies for upload to YouTube, FACEBOOK to choose photos and movies for upload to Facebook.
- 2 Press the selector left or right to display pictures and press **MENU/OK** to select or deselect. Press **DISP/BACK** to exit when all the desired pictures are selected.
- Only movies can be selected for upload to YouTube.
- > During playback, selected pictures are indicated by SouTube or S FACEBOOK icons.

RESET ALL: Deselecting All Pictures

Choose **RESET ALL** to deselect all pictures. If the number of pictures affected is very large, a message will be displayed while the operation is in progress. Press **DISP/BACK** to exit before the operation is complete.

Uploading Pictures (Windows Only)

Selected pictures can be uploaded using the **YouTube/Facebook Upload** option in MyFinePix Studio.



For information on installing MyFinePix Studio and connecting the camera to a computer, see "Viewing Pictures on a Computer" (🗐 91).

SLIDE SHOW

(default: MULTIPLE)

View pictures in an automated slide show. Choose the type of show and 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**.

| Option | Description |
|-----------|---|
| NORMAL | Press selector left or right to go back or skip ahead one frame. Select FADE-IN |
| FADE-IN | for fade transitions between frames. |
| NORMAL 😫 | As above, except that camera automatically zooms in on faces selected with |
| FADE-IN 😫 | Intelligent Face detection. |
| MULTIPLE | Display several pictures at once. |

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

RAW CONVERSION

Create JPEG copies of RAW pictures. The original image data are unaffected, allowing a single RAW image to be processed in a multitude of different ways.

1 Select **RAW CONVERSION** in the playback menu.

- 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 E-Fn button to preview the JPEG copy. Press MENU/OK to save the copy or press DISP/BACK to return to Step 2.





RAW CONVERSION (Continued)

| 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 +1 EV in increments of $\frac{1}{3}$ EV (🕮 49). |
| DYNAMIC RANGE | Enhance details in highlights for natural contrast (💷 102). |
| FILM SIMULATION | Simulate the effects of different types of film (🕮 103). |
| WHITE BALANCE | Adjust white balance (🕮 104). |
| WB SHIFT | Fine-tune white balance (🕮 106). |
| COLOR | Adjust color density (💷 106). |
| SHARPNESS | Sharpen or soften outlines (💷 106). |
| NOISE REDUCTION | Process the copy to reduce mottling (💷 106). |
| HIGHLIGHT TONE | Adjust highlights (🕮 106). |
| SHADOW TONE | Adjust shadows (🕮 106). |

RED EYE REMOVAL

If the current picture is marked with a 🔄 icon to indicate that it was taken with Intelligent Face Detection, this option can be used to remove red-eye. 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.

■ PROTECT

Protect pictures from accidental deletion.

1 Select **PROTECT** in the playback menu.

2 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.
- \oplus Protected pictures will be deleted when the memory card or internal memory is formatted (\boxplus 131).

Using the Menus: Playback Mode

CROP

Create a cropped copy of the current picture.

- 1 Display the desired picture.
- 2 Select 🖾 CROP in the playback menu.
- **3** Rotate the main-command dial to zoom in and out and use the selector 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 4:3. If the size of the final copy will be MO, OK will be displayed in yellow.

E 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 to save the resized copy to a separate file.
- The sizes available vary with the size of the original image.

IMAGE ROTATE

Rotate pictures taken in tall orientation so that they are displayed in tall orientation in the LCD monitor.

- 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 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 (🕮 117).
- The camera may not be able to rotate pictures created with other devices.

COPY

Copy pictures from internal memory to a memory card.

- **1** Select **COPY** in the playback menu.
- 2 Highlight one of the following options and press the selector right:
 - 🚯 INTERNAL MEMORY → 🖻 CARD: Copy pictures from internal memory to a memory card.
 - ☑ CARD → INTERNAL MEMORY: Copy pictures from a memory card to internal memory.
- 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.
- DPOF print information is not copied (
 89).

VOICE MEMO

Add a voice memo to the current photograph. Holding the camera at a distance of about 20 cm, face the microphone and press **MENU/OK** to begin recording. Press **MENU/OK** again to end recording (recording ends automatically after 30 seconds).

- Voice memos can not be added to movies or protected pictures. Remove protection from pictures before recording voice memos.
- If a voice memo already exists for the current picture, the options will be displayed. Select RE-REC to replace the existing memo.

Playing Voice Memos

Pictures with voice memos are indicated by a \textcircled icon during playback. To play the voice memo back, select **PLAY** for **voice MEMO**.

- The camera may not play voice memos recorded with other devices.
- Do not cover the speaker during playback.

RASE FACE RECOG.

Remove face recognition links from the current image. When this option is selected, the camera will zoom in on an area in the current picture that it has matched with a face in the face recognition database. If the match is not correct, press **MENU/OK** to remove the link to the face recognition database.

Face recognition links can not be removed from copies with a size of M or smaller.

PRINT ORDER (DPOF)

Select pictures for printing on DPOF- and PictBridge-compatible devices (🕮 89).

DISP ASPECT

Choose how High Definition (HD) devices display pictures with an aspect ratio of 4:3 (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, **4:3** to display the entire image with black bands at either side.





Photographs with an aspect ratio of 16:9 are displayed full screen, those with an aspect ratio of 3:2 in a black frame.

The Setup Menu

Using the Setup Menu

- 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 tab containing the desired option.
 - **1.4** Press the selector right to place the cursor in the menu.

2 Adjust settings.

Highlight items and press the selector right to view options, then highlight an option and press **MENU/OK**. Press **DISP/BACK** to exit when settings are complete.



Tab



Setup Menu Options

O DATE/TIME

Set the camera clock (📖 24).

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 the selector right.

2 Use the selector to choose the time difference between local time and your home time zone.

3 Press MENU/OK.

To switch between local time and your home time zone, highlight **+ LOCAL** or **A HOME** and press **MENU/OK**.

| Option | Description |
|-----------------|--|
| 合 HOME | Switch to the time currently selected for O DATE/TIME (see above). |
| + LOCAL | Switch to local time. If this option is selected, 🕂 and the time and date will be displayed in yellow for three seconds each time the camera is turned on. |
| ■ 言語/LANG. | |
| Choose a langua | ge. |

(default: 🏠)

RESET

Reset all settings except (C) DATE/TIME, (C) TIME DIFFERENCE, (C) SCREEN SET-UP > BACK-GROUND COLOR, and (C) VIDEO SYSTEM to default values.

1 Highlight G RESET and press the selector right to display a confirmation dialog.

2 Highlight OK and press MENU/OK.

SILENT MODE

Select **ON** to disable the speaker, flash, and AF-assist illuminator in situations in which camera sounds or lights may be unwelcome (note that the flash will still fire in **O**f mode).

▶ SOUND SET-UP

Adjust sound settings.

| Option | Description | |
|-----------------|---|--|
| OPERATION VOL. | Adjust the volume of the sounds produced when camera controls are oper- ated. Choose •• OFF (mute) to disable control sounds. | |
| SHUTTER VOLUME | Adjust the volume of the sounds produced when the shutter is released. Choose 4 OFF (mute) to disable the shutter sound. | |
| SHUTTER SOUND | Choose the sound made by the shutter. | |
| PLAYBACK VOLUME | Adjust the volume for movie and voice memo playback. | |

(default: OFF)

SCREEN SET-UP

Adjust display settings.

| Option | Description | |
|--------------------------|---|--|
| | Choose how long pictures are displayed in the LCD monitor after shoot- | |
| | ing. | |
| | • 3 SEC, 1.5 SEC: Pictures are displayed for three seconds (3 SEC) or 1.5 sec- | |
| IMAGE DISP. | onds (1.5 SEC). Colors may differ slightly from those in the final image. | |
| | • ZOOM (CONTINUOUS): Pictures are displayed until the MENU/OK button is | |
| | pressed. | |
| | • OFF : Pictures are not displayed after shooting. | |
| LCD BRIGHTNESS | Control the brightness of the display. | |
| MONITOR SUNLIGHT MODE | Select ON to make the display in the monitor easier to read in bright light. | |
| | Choose the type of framing grid available in shooting mode. | |
| | • 🌐 GRID 9: For "rule of thirds" composition. | |
| FRAMING GUIDLINE | • 🌐 GRID 24: A six-by-four grid. | |
| | • ID HD FRAMING: 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 dur- | |
| AUTORUIATE PD | ing playback. | |
| BACKGROUND COLOR | Choose a color scheme. | |
| GUIDANCE DISPLAY | Choose whether to display tool tips. | |
| | If ON is selected for III FOCUS CHECK, the image will be magnified in the | |
| FOCUS CHECK | display to assist focus when the sub-command dial is rotated in manual | |
| | focus mode (🕮 62). The camera must be in manual focus mode. | |

DOWER MANAGEMENT

Adjust power management settings.

| Option | Description | |
|---------------------|---|--|
| 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 situa- tions the camera turns off automatically even when OFF is selected. | |
| QUICK START MODE | Allow the camera to restart in a fast manner after turned off (ON/OFF). This option will increase drain on the battery. | |
| POWER MANAGEMENT | Optimize camera performance for increased battery life or display quality. POWER SAVE: The display dims to save power if no operations are performed for a short period, but can be restored by operating camera controls. Select this option to save power. CLEAR DISPLAY: Choose this option for a brighter, higher quality display and for a longer delay before the monitor dims to save power. POWER SAVE does not take effect when Intelligent Face Detection is on. | |

IS MODE

(default: ()10)

Choose from the following image stabilization options:

| Option | Description | |
|---------------------------|--|--|
| () 10 CONTINUOUS + MOTION | Image stabilization on. If + MOTION is selected, the camera will adjust shutter speed to reduce motion blur when a moving objects | |
| | are detected. | |
| | As above, except that image stabilization is performed only when | |
| () ≥ SHOOTING ONLY | the shutter button is pressed halfway or the shutter is released. | |
| OFF | Image stabilization off. Choose this option when using a tripod. | |

+ MOTION has no effect when sensitivity is set to a fixed value, and may also be unavailable at some other combinations of settings. The effect may vary with lighting conditions and the speed at which the object is moving.

RED EYE REMOVAL

(default: ON)

Choose **ON** to remove red-eye effects caused by the flash when shooting with Intelligent Face Detection.

- Red-eye reduction is performed only when a face is detected.
- Red-eye removal is not available with RAW images.

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.

RAW RAW

Choose **RAW+JPEG** or **RAW** to record RAW pictures (note that RAW pictures are unprocessed data read from the image sensor). If **RAW+JPEG** is selected, JPEG copies will also be recorded. Choose **OFF** to record pictures in JPEG format only.

- To convert RAW files for display on the camera, use RAW CONVERSION in the playback menu (115).
- To convert RAW files for display on a computer, use the supplied RAW File Converter software.
- ① Crop, resize, and red-eye removal are not available with RAW images. The maximum zoom available when viewing RAW images is 3.2 x.

(default: OFF)

SAVE DATA SET-UP

Adjust file-management settings.

| Option | Description |
|----------------|---|
| 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 Directory File NO. controls whether file numbering is reset to 0001 number number when a new memory card is inserted or the current memory card or internal memory is formatted. 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 (1144). Selecting RESET (1124) 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 seamless a panoramas or pic- tures taken using RED EYE REMOVAL, R PRO LOW-LIGHT MODE, or R PRO FOCUS MODE. |

| SAVE DATA SET-UP (Continued) | |
|------------------------------|--|
| Option | Description |
| DATE STAMP | Stamp the time and/or date of recording on photographs as they are taken. • 폐+@: Stamp new photographs with the date and time of recording. • 페: Stamp new photographs with the date of recording. • OFF: Do not stamp the time and date on new photographs. |
| | ① Time and date stamps can not be deleted. Turn DATE STAMP off to prevent time and date stamps appearing on new photographs. ① If the camera clock is not set, you will be prompted to set the clock to the current date and time (\$\$\$24)\$. ① We recommend that you turn the DPOF "print date" option off when |
| | The recommendation of the process of the print date option of which printing images with a time and date stamp (■ 89). Time and date stamps do not appear on movies, panoramas, or 3D photos. |

D FOCUS CONTROL DIAL

(default: 🔿 CW)

Choose the direction in which the sub-command dial is rotated to increase the focus distance.

WIDEO SYSTEM

Choose a video mode for connection to a TV.

| Option | Description |
|--------|--|
| | Select this mode for connection to video devices in North America, the Caribbean, parts of Latin America, and some East Asian countries. |
| | Select this mode for connection to video devices in the United Kingdom and much of Europe, Australia, New Zealand, and parts of Asia and Africa. |

CUSTOM RESET

Reset all settings for mode C1/C2. A confirmation dialog will be displayed, press the selector up or down to highlight OK and press MENU/OK.

FORMAT

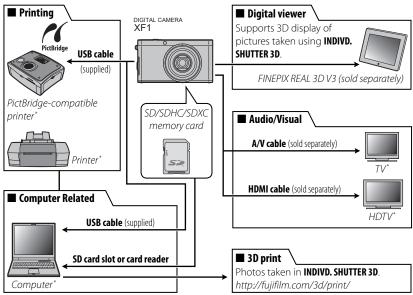
If a memory card is inserted in the camera, this option will format the memory card. If no memory card is inserted, this option will format internal memory.

- ① All data—including protected pictures—will be deleted from the memory card or internal memory. Be sure important files have been copied to a computer or other storage device.
- ① Do not open the battery-chamber cover during formatting.

Technical Notes

Optional Accessories

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



* Available separately.

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-50 : Additional large-capacity NP-50 rechargeable bat- teries can be purchased as required. Note that the NP-50 may record fewer photos per charge than the NP-50A. | |
|----------------------------------|---|---------------------------|
| Battery chargers | BC-45W : Replacement battery chargers can be purchased as required. The BC-45W charges an NP-50A/NP-50 battery in about 150 minutes at +20 °C (+68 °F). | |
| AC power adapters | AC-SVX (requires CP-50 DC coupler): Use for extended playback or when copying pictures to a computer (shape of adapter and plug vary with region of sale). | |
| DC couplers | CP-50 : Connect the AC-5VX to the camera. | Contraction of the second |
| A/V cable | AV-C1 : Use for viewing pictures on TV. | |
| Digital viewer | FINEPIX REAL 3D V3: View 3D images without 3D glasses. | |
| Camera case | SC-XF : The camera case and the strap are exclusively for use with the XF1. | NOV |

Caring for the Camera

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

Storage and Use

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 sunny 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
- next to 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.

<u>Cleaning</u>

Use a blower to remove dust from the lens and LCD monitor, 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. Care should be taken to avoid scratching the lens or LCD monitor. The camera body can be cleaned with a soft, dry cloth. Do not use alcohol, thinner, or other volatile chemicals.

<u>Traveling</u>

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

Troubleshooting

Problems and Solutions

Power and Battery

| Problem | Solution |
|-----------------------------------|---|
| The camera does not turn on. | The zoom ring (ON/OFF switch) is not correctly rotated: Rotate the zoom ring to STANDBY and then rotate the zoom ring again to the point between 25 and 100 (= 20). The battery is exhausted: Charge the battery or insert a fully-charged spare battery (= 13). The battery is inserted incorrectly: Reinsert in the correct orientation (= 15). The battery-chamber cover is not latched: Latch the battery-chamber cover (= 15). The AC power adapter and DC coupler are connected incorrectly: Reconnect the AC power adapter and DC coupler. |
| 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. C LEAR DISPLAY is selected for DOWER MANAGEMENT > POWER MANAGEMENT > POWER MANAGEMENT > POWER MANAGEMENT > POWER SAVE to reduce the drain on the battery (□ 126). ON is selected for SCREEN SET-UP > MONITOR SUNLIGHT MODE: Select OFF to reduce the drain on the battery (□ 30). CONTINUOUS or C TRACKING is selected for FOCUS MODE: Select a different AF mode (□ 62). 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 or insert a fully-charged spare battery (IIII 13). The AC power adapter or DC coupler has been disconnected: Reconnect the AC power adapter and DC coupler. |
| Charging does not start. | Reinsert the battery in the correct orientation and make sure that the charger is plugged in (\blacksquare 13). |

| Problem | Solution |
|--|--|
| Charging is slow. | Charge the battery at room temperature (💷 vi). |
| The charging lamp lights, 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. The battery is too hot or too cold: Wait for the battery temperature to stabilize (E 13). |

Menus and Displays

| Problem | Solution |
|------------------------|---|
| Menus and displays are | Select ENGLISH for 🔄 言語/LANG. (6章 24, 123). |
| not in English. | |

Shooting

| Problem | Solution |
|---|--|
| No picture is taken when the shutter button is pressed. | Memory is full: Insert a new memory card or delete pictures (= 16, 74). Memory is not formatted: Format the memory card or internal memory (= 131). 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 (= 16). The battery is exhausted: Charge the battery or insert a fully-charged spare battery (= 13). The camera has turned off automatically: Turn the camera on (= 23). The indicator lamp was orange when you attempted to record a panorama: Wait until the indicator lamps turns off (= 5). |
| The LCD monitor goes dark after shooting. | The LCD monitor may darken while the flash charges. Wait for the flash to charge (📖 51). |
| 3D images do not turn out as expected. | Use a tripod or change the distance the camera is moved between the first and second shots (\boxplus 39). |

| Problem | Solution |
|-------------------------------------|---|
| The camera does not focus. | The subject is close to the camera: Select macro mode (|
| | The subject is far away from the camera: Cancel macro mode (ED 50). |
| iocus. | The subject is not suited to autofocus: Use focus lock (|
| Pictures are not the | If 🎟 is selected for 💽 IMAGE SIZE in 🔛 mode, the camera will optimize not only sensi- |
| same size. | tivity and other settings, but also image size. To record all pictures at the same size, choose another |
| Same Size. | shooting mode or select another option for 💽 IMAGE SIZE (🗐 101). |
| Macro mode is not available. | Choose a different shooting mode (🕮 30). |
| Intelligent Face Detection | Intelligent Face Detection is not available in the current shooting mode: Choose a differ- |
| is not available. | ent shooting mode (🗐 30). |
| | • 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 |
| No face is detected. | the subject's face occupies a larger area of the frame (💷 47). |
| | • The subject's head is tilted or horizontal: Ask the subject to hold their head straight. |
| | The camera is tilted: Keep the camera level (III) 26). |
| | The subject's face is poorly lit: Shoot in bright light. |
| Wrong subject is | The selected subject is closer to the center of the frame than the main subject. Recompose the |
| selected. | picture or turn face detection off and frame the picture using focus lock (🗐 47). |
| | • The flash is not available in the current shooting mode: Choose a different shooting mode |
| | (🖽 30). |
| The flash does not fire. | • The battery is exhausted: Charge the battery or insert a fully-charged spare battery (🕮 13). |
| The hash uses not me. | • The camera is in continuous mode: Select 🗖 for 🔛 CONTINUOUS (💷 57). |
| | The camera is in silent mode: Turn silent mode off (124). |
| | • The flash is not raised: Raise the flash (🕮 51). |
| Some flash modes are not available. | The desired flash mode is not available in the current shooting mode: Choose a different |
| | shooting mode (🕮 30). |
| | The camera is in silent mode: Turn silent mode off (124). |

| Problem | Solution |
|---|---|
| The flash does not fully | • The subject is not in range of the flash: Position the subject in range of the flash (💷 149). |
| light the subject. | The flash window is obstructed: Hold the camera correctly (I 26). |
| light the subject. | Fast shutter speed selected: Choose a slower shutter speed (|
| | • The lens is dirty: Clean the lens (🕮 135). |
| | • The lens is blocked: Keep objects away from the lens (💷 26). |
| Pictures are blurred. | • !AF is displayed during shooting and the focus frame is displayed in red : Check focus |
| | before shooting (🕮 142). |
| | • 💭 is displayed during shooting: Use the flash or a tripod (💷 52). |
| | • A slow shutter speed is selected at high temperatures: This is normal and does not indi- |
| Pictures are mottled. | cated a malfunction. |
| FICTURES are motified. | • The camera has been used continuously at high temperatures or a temperature warn- |
| | ing is displayed: Turn the camera off and wait for it to cool down. |
| | Power was interrupted during shooting. Before connecting the AC power adapter or DC coupler, |
| Pictures are not recorded. | turn the camera off. Leaving the camera on can result in corrupted files or damage to the memory |
| | card or internal memory. |
| Sounds made by the camera are recorded with movies. | • □ CONTINUOUS is selected for ➡ MOVIE SET-UP > MOVIE AF MODE: |
| | Select a different AF mode (🕮 110). |
| | • Zoom was adjusted during shooting: Do not adjust zoom during shooting. |
| | Intelligent Face Detection is on: Turn Intelligent Face Detection off (66). |

Playback

| Problem | Solution |
|-------------------------------|--|
| Pictures are grainy. | The pictures were taken with a different make or model of camera. |
| Playback zoom unavailable. | The picture has been saved at 🖽 , or is from another make or model of camera (💷 72). |

| Problem | Solution |
|---------------------------|---|
| No sound in movie | • Playback volume is too low: Adjust playback volume (💷 124). |
| playback. | • The microphone was obstructed: Hold the camera correctly during recording (💷 2, 26). |
| | • The speaker is obstructed: Hold the camera correctly during playback (🗐 2, 26). |
| Selected pictures are not | Some of the pictures selected for deletion are protected. Remove protection using the device with |
| deleted. | which it was originally applied (📖 117). |
| File numbering is | The battery-chamber cover was opened while the camera was on. Turn the camera off before |
| unexpectedly reset. | opening the battery-chamber cover. |

Connections/Miscellaneous

| Problem | Solution |
|---|---|
| No picture or sound. | The camera is not properly connected: Connect the camera properly (== 85). An A/V cable was connected during movie playback: Connect the camera once movie playback has ended. Input on the television is set to "TV": Set input to "VIDEO". The camera is not set to the correct video standard: Match the camera B VIDEO SYSTEM setting to the TV (== 130). The volume on the TV is too low: Adjust the volume. |
| No color. | Match the camera 🚟 VIDEO SYSTEM setting to the TV (💷 130). |
| The computer does not recognize the camera. | Be sure the camera and computer are correctly connected (😂 96). |
| Can not transfer RAW or JPEG files to computer. | Use the bundled software to transfer pictures (💷 91). |

| Problem | Solution |
|--|--|
| Pictures can not be | • The camera is not properly connected: Connect the camera correctly (🗐 87). |
| printed. | The printer is off: Turn the printer on. |
| Only one copy is printed/ the date is not printed. | The printer is not PictBridge compatible. |
| The camera is unresponsive. | Temporary camera malfunction: Remove and reinsert the battery (== 15) or disconnect and reconnect the AC power adapter/DC coupler. The battery is exhausted: Charge the battery (== 13) or insert a fully-charged spare battery (== 15). |
| The camera does not function as expected. | Remove and reinsert the battery (🗐 15) or disconnect and reconnect the AC power adapter/DC coupler. If the problem persists, contact your FUJIFILM dealer. |
| I want to use an AC power adapter and DC coupler overseas. | Check the label on the AC power adapter. The AC power adapter can be used with voltages of 100 – 240 V. Consult your travel agent for information on plug adapters. |
| No sound. | Turn silent mode off (🕮 124). |
| Hue or content of display changes unexpectedly. | Choose OFF for 🖃 SCREEN SET-UP > MONITOR SUNLIGHT MODE (🕮 8). |
| Time and date stamps | Time and date stamps are not correct: Set the camera clock (== 24). Time and date stamps appear on photographs: Time and date stamps can not be deleted. To prevent stamps appearing on new photographs, select OFF for SAVE DATA SET- UP > DATE STAMP (== 130). |
| FinePixViewer can not be installed or does not start. | FinePixViewer does not support Mac OS X version 10.7 or later. Use one of the applications supplied with Mac OS X or purchase other software. |

Warning Messages and Displays

The following warnings are displayed in the LCD monitor:

| Warning | Description |
|--|---|
| ⊈ (red) | Low battery. Charge the battery (💷 13) or insert a fully-charged spare battery (💷 15). |
| d (blinks red) | Battery exhausted. Charge the battery (🕮 13) or insert a fully-charged spare battery (🕮 15). |
| ļ o r | Slow shutter speed. Pictures may be blurred; use the flash or a tripod. |
| PAF (displayed in red with red focus frame) | The camera can not focus. Try one of the following solutions: Use focus lock to focus on another subject at the same distance, then recompose the picture (== 47). Use macro mode to focus when taking close-ups (== 50). |
| Aperture or shutter speed displayed in red | The subject is too bright or too dark and the picture will be over- or under-exposed. If the subject is dark, use the flash (📖 51). |
| FOCUS ERROR | |
| TURN OFF THE CAMERA AND TURN ON AGAIN LENS CONTROL ERROR | Camera malfunction or moving parts of lens obstructed. Turn the camera off and then on again, taking care not to touch the lens. If the message persists, contact a FUJIFILM dealer. |
| CARD NOT INITIALIZED | The memory card or internal memory is not formatted or the memory card was formatted in a computer or other device: Format the memory card or internal memory using the ET FORMAT option in the camera setup menu (ET 131). The memory card contacts require cleaning: Clean the contacts with a soft, dry cloth. If the message is repeated, format the card (ET 131). If the message persists, replace the card. Camera malfunction: Contact a FUJIFILM dealer. |
| PROTECTED CARD | The memory card is locked. Unlock the card (🕮 16). |
| BUSY | The memory card is incorrectly formatted. Use the camera to format the card (💷 131). |
| ! | Turn the camera off and wait for it to cool. If no action is taken, the camera will turn off auto- matically. |

| Warning | Description |
|--------------------|--|
| | The memory card is not formatted for use in the camera. Format the card (💷 131). |
| | The memory card contacts require cleaning or the memory card is damaged. Clean the contacts |
| CARD FRROR | with a soft, dry cloth. If the message is repeated, format the card (💷 131). If the message per- |
| CAMP EMION | sists, replace the card. |
| | Incompatible memory card. Use a compatible card (🕮 18). |
| | Camera malfunction. Contact a FUJIFILM dealer. |
| MEMORY FULL | |
| INTERNAL MEMORY IS | The memory card or internal memory is full and pictures can not be recorded or copied. Delete |
| FULL | pictures or insert a memory card with more free space. |
| INSERT A NEW CARD | |
| | 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. |
| WRITE ERROR | • Not enough memory remaining to record additional pictures: Delete pictures or insert |
| | a memory card with more free space. |
| | • The memory card or internal memory is not formatted: Format the memory card or |
| | internal memory (🕮 131). |
| | • The file is corrupt or was not created with the camera: The file can not be viewed. |
| RFAD FRROR | • The memory card contacts require cleaning: Clean the contacts with a soft, dry cloth. If |
| | the message is repeated, format the card (🕮 131). If the message persists, replace the card. |
| | Camera malfunction: Contact a FUJIFILM dealer. |

| Warning | Description |
|--|--|
| 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 SAVE DATA SET-UP > FRAME NO . Take a picture to reset frame numbering to 100-0001, then select CONTINUOUS for FRAME NO . (Image 129). |
| PRESS AND HOLD THE DISP BUTTON TO DEACTIVATE SILENT MODE | An attempt was made to choose a flash mode or adjust the volume with the camera in silent mode. Exit silent mode before choosing a flash mode or adjusting the volume (💷 124). |
| TOO MANY FRAMES | A search has returned more than 30,000 results: Choose a search that returns fewer results. More than 999 images are selected for deletion: Choose fewer images. |
| PROTECTED FRAME | An attempt was made to delete, rotate, or add a voice memo to a protected picture. Remove protection and try again (🕮 117). |
| 640 CAN NOT CROP | 🖽 pictures can not be cropped. |
| CAN NOT CROP | The picture is damaged or was not created with the camera. |
| M CANNOT EXECUTE | |
| S CANNOT EXECUTE | An attempt was made to create a resized copy at a size equal to or larger than the original. Choose a smaller size |
| 640 CANNOT EXECUTE | כווטטגב מ גוומווכו גובב. |
| CAN NOT ROTATE | An attempt was made to rotate a picture that can not be rotated. |
| 😫 CAN NOT ROTATE | Movies can not be rotated. |
| 🛱 CANNOT EXECUTE | Red-eye removal can not be applied to the selected picture. |
| 😫 CANNOT EXECUTE | Red-eye removal can not be applied to movies. |
| NO CARD | No memory card inserted when I COPY is selected. Insert a memory card. |

| Warning | Description |
|--------------------------|--|
| NO IMAGE | The source selected for IMM COPY contains no images. Select a different source. |
| ! ERROR | The voice memo file is corrupt: The voice memo can not be played back. Camera malfunction: Contact a FUJIFILM dealer. |
| DPOF FILE ERROR | The DPOF print order on the current memory card contains more than 999 images. Copy the pictures to internal memory 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. |
| COMMUNICATION ERROR | A connection error occurred while pictures were being printed or copied to a computer or other device. Confirm that the device is turned on and that the USB cable is connected. |
| PRINTER ERROR | Printer out of paper or ink, or other printer error. Check printer (see printer manual for details). To resume printing, turn the printer off and then turn it back on. |
| PRINTER ERROR RESUME? | Printer out of paper or ink, or other printer error. Check printer (see printer manual for details). If printing does not resume automatically, press MENU/OK to resume. |
| CANNOT BE PRINTED | An attempt was made to print a movie, a picture not created with the camera, or a picture in a format not supported by the printer. Movies and some pictures created with other devices can not be printed; if the picture is a still picture created with the camera, check the printer manual to confirm that the printer supports the JFIF-JPEG or Exif-JPEG format. If it does not, the pictures can not be printed. |

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, and the number of exposures or length remaining may not diminish at an even rate. A limited number of test pictures can be taken when no memory card is inserted.

| / | Medium | | | | |
|-------------|---------------------------------|-------|--------|-------|--------|
| (| | 40 | GB | 8 | GB |
| | * | FINE | NORMAL | FINE | NORMAL |
| | 4:3 | 800 | 1,260 | 1,590 | 2,520 |
| ₽ | 1 6:9 | 1,060 | 1,670 | 2,120 | 3,320 |
| Photographs | M 4:3 | 1,280 | 2,460 | 2,550 | 4,890 |
| grap | 16:9 | 1,690 | 3,260 | 3,370 | 6,470 |
| sho | S 4:3 | 2,360 | 4,460 | 4,700 | 8,870 |
| | S 16:9 | 3,440 | 5,020 | 6,850 | 9,980 |
| | 1920×1080 ¹ | 37 | min. | 74 | min. |
| | 1280×720 ¹ | 47 | min. | 95 | min. |
| Movies | 640×480 ² | 112 | ?min. | 223 | min. |
| vies | IS 640 ×480 ³ | 83 | min. | 166 | imin. |
| | IS 320×240 ³ | 167 | 'min. | 332 | min. |
| | 112 320×112 ³ | 83 | min. | 166 | min. |

1 Use a **CASS** card or better. Individual movies can not exceed 29 minutes in length. 2 Individual movies can not exceed 120 minutes in length.

3 Use a CLASS (Card or better. Individual movies can not exceed 30 seconds in length.

Specifications

| System | |
|---------------------|--|
| Model | XF1 |
| Effective pixels | 12 million |
| Image sensor | ⅔ -in., EXR CMOS with primary color filter |
| Storage media | Internal memory (approx. 25 MB) SD/SDHC/SDXC memory cards |
| File system | Compliant with Design Rule for Camera File System (DCF), Exif 2.3, and Digital Print Order Format (DPOF) |
| File format | Still pictures: Exif 2.3 JPEG (compressed); RAW (original RAF format, special-purpose software required); RAW+JPG available Still pictures (3D): MPO Movies: MOV (H.264) Audio: WAV (stereo) |
| Image size (pixels) | L 4:3:4,000 × 3,000 L 3:2:4,000 × 2,664 L 16:9:4,000 × 2,248 L 1:1:2,992 × 2,992 M 4:3:2,816 × 2,112 M 3:2:2,816 × 1,864 M 16:9:2,816 × 1,584 M 1:1:2,112 × 2,112 S 4:3:2,048 × 1,536 S 3:2:2,048 × 1,360 S 16:9:1,920 × 1,080 S 1:1:1,536 × 1,536 MOTION PANORAMA E 1:1,624 × 11,520 (tall)/11,520 × 1,080 (wide) MOTION PANORAMA E 1:1,624 × 3,840 (tall)/3,840 × 1,080 (wide) MOTION PANORAMA E 1:1,624 × 11,520 (tall)/11,520 × 1,080 (wide) MOTION PANORAMA E 1:1,624 × 11,520 (tall)/11,520 × 1,080 (wide) MOTION PANORAMA E 1:1,624 × 11,520 (tall)/11,520 × 1,080 (wide) |
| Lens | Fujinon 4 × optical zoom lens, F1.8 (wide angle) – F4.9 (telephoto) |
| Focal length | f=6.4 mm-25.6 mm (35-mm format equivalent: 25 mm-100 mm) |
| Digital zoom | Up to about $2 \times$ with intelligent digital zoom (up to $8 \times$ when combined with optical zoom) |
| Aperture | F1.8-F11 (wide angle)/F4.9-F11 (telephoto) in increments of 1/3 EV |
| | |

Specifications

| System | |
|---|---|
| Focus range | Approx. 50 cm (1.6 ft.)-infinity (wide angle); 80 cm (2.6 ft.)-infinity (telephoto) |
| (distance from front of lens) | • Macro: approx. 3 cm-3.0 m/1.1 in9.8 ft. (wide angle); 50 cm-3.0 m/1.6 ft9.8 ft. (telephoto) |
| Sensitivity | Standard output sensitivity equivalent to ISO 100, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000 ¹ , 5000 ¹ , 6400 ¹ , 12800 ² ; AUTO , AUTO (400), AUTO (800), AUTO (1600), AUTO (3200) |
| | 1 image size M or S 2 image size S |
| Metering | 256-segment through-the-lens (TTL) metering; MULTI, SPOT, AVERAGE |
| Exposure control | Programmed AE; aperture-priority AE; shutter-priority AE; manual exposure |
| Exposure compensation | $-2 \text{ EV} - +2 \text{ EV}$ in increments of $\frac{1}{3} \text{ EV}$ |
| Picture stabilization | Optical stabilization (lens-shift type) |
| Shutter speed (combined mechanical and electronic | ・ (+: ½ s-½,000 s ・ 梁*: 3 s-½,000 s ・ 梁: 4 s-½ s ・ EXR、 向 , Adv., SP (except (+, また, and 帝): ½ s-½,000 s |
| shutter) | • P: 4s ⁻¹ / _{2,000} s • Other modes: 30 s ⁻¹ / _{2,000} s |
| Continuous | • • • • • • • • • • • • • • • • • • • |
| Focus | Mode: Single AF, continuous AF, manual focus Focus-area selection: Multi, area, tracking Autofocus system: Contrast-detect TTL AF |
| White balance | Automatic scene detection; 8 manual preset modes for direct sunlight, shade, daylight fluores- cent, warm white fluorescent, cool white fluorescent, incandescent lighting, underwater, color temperature ; custom white balance |
| Self-timer | Off, 2 sec., 10 sec. |

| System | |
|---------------------------|---|
| Flash | Manual pop-up flash; effective range when sensitivity is set to 800 is approx.50 cm-7.4 m/1.6 ft 24.2 ft. (wide angle; note that lens may block flash at short ranges), 80 cm-2.7 m/2.6 ft8.8 ft. (tele- photo) |
| Flash mode | Auto, fill flash, off, slow sync (red-eye removal off); auto with red-eye removal, fill flash with red- eye removal, off, slow sync with red-eye removal (red-eye removal on) |
| LCD monitor | 3.0-in., 460k-dot color LCD monitor; frame coverage approx. 100% |
| Movies | • 1920×1080: 1080p, 30 fps • 10 1280×720: 720p, 30 fps |
| | 600 640×480: VGA, 30 fps 15 640×480: 70 fps 15 320×240: 120 fps 15 320×240: 120 fps |
| | Note: 📅 , 🖽 , and 🚥 movies are recorded with stereo sound. |
| Input/output termina | ls |
| A/V OUT (audio/video outp | put) NTSC or PAL output with monaural sound |
| Digital input/output | USB 2.0 High-Speed; shares A/V OUT connector; MTP/PTP |
| HDMI output | HDMI mini connector |

Specifications

| Power supply/other | | | | | | | | | | | |
|---|---|---|--|--|--|--|--|--|--|--|--|
| Power supply | NP-50A rechargeable battery | | | | | | | | | | |
| | AC-5VX AC power adapter and CP-50 DC coupl | er (sold separately) | | | | | | | | | |
| Battery life (approximate | Battery type | Approximate number of frames | | | | | | | | | |
| number of frames that can | NP-50A (type supplied with camera) | 300 | | | | | | | | | |
| be taken with a fully-charged battery) | CIPA standard, measured in 🗖 (auto) mode using battery supplied with camera and SD memory card. | | | | | | | | | | |
| | Note: Number of shots that can be taken with I | battery varies with battery charge level and will | | | | | | | | | |
| | decline at low temperatures. | | | | | | | | | | |
| Dimensions ($W \times H \times D$) | 107.9 mm × 61.5 mm × 33.0 mm/4.2 in. × 2.4 i | n. × 1.2 in., excluding projections | | | | | | | | | |
| | (minimum depth 24.1 mm/0.9 in.) | | | | | | | | | | |
| Shooting weight | Approx. 225 g/7.9 oz., including battery and me | mory card | | | | | | | | | |
| Camera weight | Approx. 204 g/7.1 oz., excluding battery, access | ories, and memory card | | | | | | | | | |
| Operating conditions | • Temperature: 0 °C - +40 °C/+32 °F - +104 | °F | | | | | | | | | |
| | Humidity: 10-80% (no condensation) | | | | | | | | | | |

| NP-50A rechargeable bat | ttery |
|---|--|
| Nominal voltage | DC 3.7 V |
| Nominal capacity | 1000 mAh |
| Operating temperature | 0 °C - +40 °C/+32 °F - +104 °F |
| Dimensions ($W \times H \times D$) | $35.4 \text{ mm} \times 40.0 \text{ mm} \times 6.6 \text{ mm}/1.3 \text{ in.} \times 1.5 \text{ in.} \times 0.2 \text{ in.}$ |
| Weight | Approx. 20 g/0.7 oz. |
| BC-50B battery charger | |
| Rated input | 100 V-240 V AC, 50/60 Hz |
| Input capacity | • 100 V: 8.0 VA • 240 V: 12 VA |
| Rated output | 4.2 V DC, 600 mA |
| Supported batteries | NP-50A rechargeable batteries |
| Charging time | Approx. 110 minutes (+20 °C/+68 °F) |
| Operating temperature | 0°C-+40°C/+32°F-+104°F |
| Dimensions ($W \times H \times D$) | 90 mm \times 46 mm \times 28 mm/3.5 in. \times 1.8 in. \times 1.1 in., excluding projections |
| Weight | Approx. 63 g/2.2 oz., excluding battery |

Weight and dimensions vary with the country or region of sale.

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 LCD monitor is 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 monitor 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.

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FUJIFILM

FUJIFILM Corporation 7-3, AKASAKA 9-CHOME, MINATO-KU, TOKYO 107-0052, JAPAN http://www.fujifilm.com/products/digital cameras/index.html

The options available in each shooting mode are listed below.

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1 Automatically optimized for selected shooting mode.

- 2 Image sizes over S are set to S.
- 3 Image sizes over M are set to M.
- 4 Aspect ratio fixed at 4:3.
- 5 Fixed at settings before recording a movie.
- 6 Fixed at the center of the frame.