

DIGITAL CAMERA

FINEPIX HS10

Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM FinePix HS10 digital camera and the supplied software. Be sure that you have read and understood its contents before using the camera.



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

Before You Begin

First Steps

Basic Photography and Playback

More on Photography

More on Playback

Movies

Connections

Menus

Technical Notes

Troubleshooting

Appendix



IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions:** All the safety and operating instructions should be read before the appliance is operated.
- **Retain Instructions:** The safety and operating instructions should be retained for future reference.
- **Heed Warnings:** All warnings on the appliance and in the operating instructions should be adhered to.
- **Follow Instructions:** All operating and use instructions should be followed.

Installation

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

Grounding or Polarization: This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do

not defeat the safety purpose of the polarized plug.

Alternate Warnings: This video product is equipped with a 3-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 and 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 mount-

ing accessory recommended by the manufacturer.

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

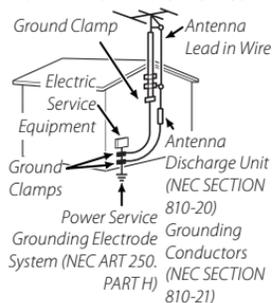


Antennas

Outdoor Antenna Grounding: If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

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.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



Use

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

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

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

Service

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

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

When the power-supply cord or plug is damaged.

If liquid has been spilled, or objects have fallen into the video product.

If the video product has been exposed to rain or water.

If the video product has been dropped or the cabinet has been damaged.

If the video product does not operate normally be following 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 this notes before using

Safety Notes

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

About the Icons

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

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

 **CAUTION** This icon indicates that personal injury or material damage can result if the information is ignored.

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

 Triangular icons tell you that this information requires attention ("important").

 Circular icons with a diagonal bar tell you that the action indicated is prohibited ("Prohibited").

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

WARNING

 **If a problem arises, turn the camera off, remove the battery, 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.

WARNING

Do not allow water or foreign objects to enter the camera.

If water or foreign objects get inside the camera, turn the camera off, remove the battery and disconnect and unplug the AC power adapter.

Continued use of the camera can cause a fire or electric shock.

- Contact your FUJIFILM dealer.

Do not use the camera in the bathroom or shower.

This can cause a fire or electric shock.

Never attempt to change or take apart the camera. (Never open the casing.) Do not use the camera when it has been dropped or the casing is damaged.

This can cause a fire or electric shock.

- Contact your FUJIFILM dealer.

Do not change, heat or unduly twist or pull the connection cord and do not place heavy objects on the connection cord.

These actions could damage the cord and cause a fire or electric shock.

- If the cord is damaged, contact your FUJIFILM dealer.

Do not place the camera on an unstable surface.

This can cause the camera to fall or tip over and cause injury.

Never attempt to take pictures while in motion.

Do not use the camera while 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.

Do not use the battery except as specified.

Load the battery as aligned with 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. Do not use chargers other than the specified model to charge the battery.

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.

! WARNING

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



Do not use the charger to charge batteries other than those specified here.
The Ni-MH battery charger is designed for Fujifilm HR-AA Ni-MH batteries. Using the charger to charge conventional batteries or other types of rechargeable batteries can cause the battery to leak fluid, overheat or burst.



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



Keep Memory Cards out of the reach of small children.
Because Memory Cards are small, they can be swallowed by children. Be sure to store Memory Cards out of the reach of small children. If a child swallows a Memory Card, seek medical attention or call an emergency number.

! CAUTION

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



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



Keep out of the reach of small children.
This product could cause injury in the hands of a child.



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



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

! CAUTION

Do not use the AC power adapter when the plug is damaged or the plug socket connection is loose.
This could cause a fire or electric shock.



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



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



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



Using a flash too close to a person's eyes may temporarily affect the eyesight.
Take particular care when photographing infants and young children.



When an xD-Picture Card is removed, the card could come out of the slot too quickly. Use your finger to hold it and gently release the card.



Request regular internal testing and cleaning for your camera.
Build-up of dust in your camera can cause a fire or electric shock.
• Contact your FUJIFILM dealer to request internal cleaning every 2 years.
• Please note this is not a free of charge service.

Power Supply and Battery

* Confirm your battery type before reading the following descriptions.

The following explains proper use of batteries and how to prolong their life. Incorrect use of batteries can cause shorter battery life, as well as leakage, excessive heat, fire or explosion.

1 Camera uses the Rechargeable Lithium-ion Battery

* When shipped, the battery is not fully charged. Always charge the battery before using it.

* When carrying the battery, install it in a digital camera or keep it in the soft case.

Battery Features

- The battery gradually loses its charge even when not used. Use a battery that has been charged recently (in the last day or two) to take pictures.
- To maximize the life of the battery, turn the camera off as quickly as possible when it is not being used.
- The number of available frames will be lower in cold locations or at low temperatures. Take along a spare fully charged battery. You can also increase the amount of power produced by putting the battery in your pocket or another warm place to heat it and then loading it into the camera just before you take a picture.

If you are using a heating pad, take care not to place the battery directly against the pad. The camera may not operate if you use a depleted battery in cold conditions.

Charging the Battery

- You can charge the battery using the battery charger (included).
 - The battery can be charged at ambient temperatures between 0°C and +40°C (+32°F and +104°F). Refer to the *Owner's Manual* for the time of charging battery.
 - You should charge the battery at an ambient temperature between +10°C and +35°C (+50°F and +95°F). If you charge the battery at a temperature outside this range, charging takes longer because the performance of the battery is impaired.
 - You cannot charge the battery at temperatures of 0°C (+32°F) or below.
- The Rechargeable Lithium-ion Battery does not need to be fully discharged or exhausted flat before being charged.
- The battery may feel warm after it has been charged or immediately after being used. This is perfectly normal.
- Do not recharge a fully charged battery.

Battery Life

At normal temperatures, the battery can be used at least 300 times. If the time for which the battery provides power shortens markedly, this indicates that the battery has reached the end of its effective life and should be replaced.

Notes on storage

- If a battery is stored for long periods while charged, the performance of the battery can be impaired. If the battery will not be used for some time, run the battery out before storing it.
- If you do not intend to use the camera for a long period of time, remove the battery from the camera.
- Store the battery in a cool place.
 - The battery should be stored in a dry location with an ambient temperature between +15°C and +25°C (+59°F and +77°F).
 - Do not leave the battery in hot or extremely cold places.

Handling the Battery Cautions for Your Safety:

- Do not carry or store battery with metal objects such as necklaces or hairpins.
- Do not heat the battery or throw it into a fire.
- Do not attempt to take apart or change the battery.
- Do not recharge the battery with chargers other than those specified.

- Dispose of used battery promptly.
- Do not drop the battery or otherwise subject it to strong impacts.
- Do not expose the battery to water.
- Always keep the battery terminals clean.
- Do not store batteries in hot places. Also, if you use the battery for a long period, the camera body and the battery itself will become warm. This is normal. Use the AC power adapter if you are taking pictures or viewing images for a long period of time.

2 Camera uses AA-size alkaline or Ni-MH (nickel-metal hydride) rechargeable batteries

* For details on the batteries that you can use, refer to the *Owner's Manual* of your camera.

Cautions for Using Battery

- Do not heat the batteries or throw them into a fire.
- Do not carry or store batteries with metal objects such as necklaces or hairpins.
- Do not expose the batteries to water, and keep batteries from getting wet or stored in moist locations.
- Do not attempt to take apart or change the batteries, including battery casings.
- Do not subject the batteries to strong impacts.
- Do not use batteries that are leaking, deformed, discolored.

- Do not store batteries in warm or humid places.
- Keep the batteries out of reach of babies and small children.
- Make sure that the battery polarity (⊕ and ⊖) is correct.
- Do not use new with used batteries. Do not use charged and discharged batteries together.
- Do not use different types or brands of batteries at the same time.
- If you do not intend to use the camera for a long period of time, remove the batteries from the camera. Note if the camera is left with the batteries removed, the time and date settings are cleared.
- The batteries feel warm right after being used. Before removing the batteries, turn the camera off and wait for the batteries to cool down.
- Since batteries do not work well in cold weather or locations, warm the batteries by placing them inside your garments before use. Batteries do not work well when cold. They will work again when the temperature returns to normal.
- Soil (such as fingerprints) on the battery terminals makes the batteries charge less reducing the number of images. Carefully wipe the battery terminals with a soft dry cloth before loading.



If any liquid at all leaks from the batteries, wipe the battery compartment thoroughly and then load new batteries.



If any battery fluid comes into contact with your hands or clothing, flush the area thoroughly with water. Note that battery fluid can cause loss of eyesight if it gets into your eyes. If this occurs, do not rub your eyes. Flush the fluid out with clean water and contact your physician for treatment.

■ Using the AA-size Ni-MH batteries correctly

- Ni-MH batteries left unused in storage for long periods can become “deactivated”. Also, repeatedly charging Ni-MH batteries that are only partially discharged can cause them to suffer from the “memory effect”. Ni-MH batteries that are “deactivated” or affected by “memory” suffer from the problem of only providing power for a short time after being charged. To prevent this problem, discharge and recharge them several times using the camera’s “Discharging rechargeable batteries” function. Deactivation and memory are specific to Ni-MH batteries and are not in fact battery faults. See *Owner’s Manual* for the procedure for “Discharging rechargeable batteries”.

⚠ CAUTION

Do not use the “Discharging rechargeable batteries” function when alkaline batteries being used.

- To charge Ni-MH batteries, use the quick battery charger (sold separately). Refer to the instructions supplied with the charger to make sure that the charger is used correctly.
- Do not use the battery charger to charge other batteries.
- Note that the batteries feel warm after being charged.
- Due to the way the camera is constructed, a small amount of current is used even when the camera is turned off. Note in particular that leaving Ni-MH batteries in the camera for a long period will over-discharge the batteries and may render them unusable even after recharging.
- Ni-MH batteries will self-discharge even when not used, and the time for which they can be used may be shortened as a result.
- Ni-MH batteries will deteriorate rapidly if over-discharged (e.g. by discharging the batteries in a flashlight). Use the “Discharging rechargeable batteries” function provided in the camera to discharge the batteries.

- Ni-MH batteries have a limited service life. If a battery can only be used for a short time even after repeated discharge-charge cycles, it may have reached the end of its service life.

■ Disposing of Batteries

- When disposing of batteries, do so in accordance with your local waste disposal regulations.

3 Notes on both models (1, 2)

■ AC Power Adapter

Always use the AC Power Adapter with the camera. The use of an AC Power adapter other than FUJIFILM AC Power Adapter can be damaged to your digital camera.

For details on the AC power adapter, refer to the *Owner’s Manual* of your camera.

- Use the AC power adapter for indoor use only.
- Plug the connection cord plug securely into the DC input terminal.
- Turn off the FUJIFILM Digital camera before disconnecting the cord from the DC input terminal. To disconnect, pull out the plug gently. Do not pull on the cord.
- Do not use the AC power adapter with any device other than your camera.
- During use, the AC power adapter will become hot to the touch. This is normal.

- Do not take apart the AC power adapter. Doing so could be dangerous.
- Do not use the AC power adapter in a hot and humid place.
- Do not subject the AC power adapter to strong shocks.
- The AC power adapter may emit a humming. This is normal.
- If used near a radio, the AC power adapter may cause static. If this happens, move the camera away from the radio.

Before Using the Camera

■ Test Shots Prior to Photography

For important photographs (such as weddings and overseas trips), always take a test shot and view the image to make sure that the camera is working normally.

- FUJIFILM Corporation cannot accept liability for any incidental losses (such as the costs of photography or the loss of income from photography) incurred as a result of faults with this product.

■ Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner, unless intended only for personal use. 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 Card containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

■ Handling Your Digital Camera

To ensure that images are recorded correctly, do not subject the camera to impact or shock while an image is being recorded.

■ Liquid Crystal

If the LCD monitor is damaged, take particular care with the liquid crystal in the monitor. If any of the following situations arise, take the urgent action indicated.

- If liquid crystal comes in contact with your skin:
Wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye:
Flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed:
Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

■ Trademark Information

-  and *xD-Picture Card*™ are trademarks of FUJIFILM Corporation.
- IBM PC/AT is a registered trademark of International Business Machines Corp. of the U.S.A.

- Macintosh, QuickTime, and Mac OS are trademarks of Apple Inc. in the U.S.A. and other countries.
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- IrSS™ Trademark or IrSimpleShot™ Trademark is owned by the Infrared Data Association®.
- SDHC logo is a trademark.
- HDMI logo is a trademark.
- YouTube is a trademark of Google Inc.
- Other company or product names are trademarks or registered trademarks of the respective companies.

■ Notes on Electrical Interference

If the camera is to be used in hospitals or aircrafts, please note that this camera may cause interference to other equipment in the hospital or aircraft. For details, please check with the applicable regulations.

■ Explanation of Color Television System

NTSC: National Television System Committee, color television telecasting specifications adopted mainly in the U.S.A., Canada and Japan.

PAL: Phase Alternation by Line, a color television system adopted mainly by European countries and China.

■ Exif Print (Exif ver. 2.2)

Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

About This Manual

Before using the camera, read this manual and the warnings on pages ii–viii. For information on specific topics, consult the sources below.

✓ **Camera Q & Apg. x**

Know what you want to do but don't know the name for it? Find the answer in "Camera Q & A."

✓ **Troubleshooting pg. 117**

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

✓ **Glossary pg. 128**

The meanings of some technical terms may be found here.

✓ **Table of Contents pg. xiv**

The "Table of Contents" gives an overview of the entire manual. The principal camera operations are listed here.

✓ **Warning Messages and Displays pg. 124**

Find out what's behind that flashing icon or error message in the monitor or electronic viewfinder.

 **Memory Cards**

Pictures can be stored in the camera's internal memory or on optional SD and SDHC memory cards. In this manual, SD memory cards are referred to as "memory cards." For more information, see page 10.

Camera Q & A

Find items by task.

Camera Setup

Question	Key phrase	See page
How do I set the camera clock?	Date and time	14
Can I set the clock to local time when I travel?	Time difference	108
How do I keep the display from turning off automatically?	Auto power off	111
How do I make the display brighter or darker?	LCD brightness	111
How do I stop the camera beeping and clicking?	Operation and shutter volume	105
	Silent mode	18
What are the parts of the camera called?	Parts of the camera	2
What do the icons in the display mean?	Displays	5
How do I use the menus?	Menus	82
What's behind that flashing icon or error message?	Messages and displays	124
How much charge is left in the battery?	Battery level	15

Sharing Pictures

Question	Key phrase	See page
Can I print pictures on my home printer?	Printing pictures	71
Can I copy my pictures to my computer?	Viewing pictures on a computer	76

Taking Pictures

Question	Key phrase	See page
How many pictures can I take?	Memory capacity	129
Is there a quick and easy way to take snapshots?	 mode	21
How can I avoid blurred pictures?	IS mode	17
How can I make good portraits?	Intelligent Face Detection	88
Can I capture a moving object multiple times in a single photo?	Multi motion capture	23
Can I take photos that do not include moving objects?	Motion remover	24
Can I choose my own settings for different scenes?	Scene position	25
Can the camera automatically adjust settings for different scenes?	SRI AUTO mode	15
How do I shoot close-ups?	Macro mode (Close-ups)	37
How do I keep the flash from firing?	Flash mode	38
How do I stop my subjects' eyes glowing red when I use the flash?		
How do I "fill-in" shadows on back-lit subjects?		
How do I take a series of pictures in a single burst?	Continuous shooting	43
Can I capture photos before or after I press the shutter button?	Best frame capture	45
How do I turn off the lamp on the front of the camera?	AF-assist illuminator	35
How do I take a group portrait that includes the photographer?	Self-timer mode	40
How do I shoot a panorama?	Motion panorama	27
How do I frame pictures with the subject off to one side?	Focus lock	34
Can I take pictures using saved settings?	C mode	33
Can I choose shutter speed and aperture?	P , S , A , and M modes	29

Question	Key phrase	See page
How do I adjust exposure?	Exposure compensation	47
Can I film movies at a high frame rate?	High speed movie	64
Can I shoot other kinds of movie?	Recording movies	64
How do I frame pictures in the viewfinder?	EVF/LCD button	4

Viewing Pictures

Question	Key phrase	See page
How do I view my pictures?	Single-frame playback	20
How do I delete the current picture?	The  button	20
Can I select other pictures for deletion?	Deleting pictures	61
Can I zoom in on pictures during playback?	Playback zoom	56
How do I view a lot of pictures at once?	Multi-frame playback	57
How do I find pictures?	Image search	58
Can I protect my pictures from accidental deletion?	Protect	96
Can I hide the icons in the display when viewing my pictures?	The DISP/BACK button	17
Can I view my pictures in a slide show?	Slide show	94
Can I add a short voice memo to my pictures?	Voice memo	101
Can I crop unwanted elements out of my pictures?	Crop (trimming)	97
Can I make small copies of pictures?	Resize	98
Can I copy pictures from internal memory to a memory card?	Copy	99
How do I view my pictures on TV?	Viewing pictures on TV	69

Table of Contents

For Your Safety	ii
IMPORTANT SAFETY INSTRUCTIONS	ii
Safety Notes	iv
About This Manual	ix
Camera Q & A	x

Before You Begin

Introduction	1
Symbols and Conventions	1
Supplied Accessories	1
Parts of the Camera	2
Camera Displays	5
The Mode Dial	6

First Steps

The Strap and Lens Cap	7
Inserting the Batteries	8
Inserting a Memory Card	10
Turning the Camera on and Off	13
Basic Setup	14

Basic Photography and Playback

Taking Pictures in SR  (Scene Recognition) Mode	15
Viewing Pictures	20

More on Photography

Shooting Mode	21
 AUTO SCENE RECOGNITION	21
 AUTO	21
Adv. ADVANCED	21
SP1/SP2 SCENE POSITION	25
 MOTION PANORAMA	27
P PROGRAM AE	29
S SHUTTER PRIORITY AE	30
A APERTURE PRIORITY AE	31
M MANUAL	32
C CUSTOM	33
Focus Lock	34
The AE/AF LOCK Button	36
Locking Exposure	36
Locking Focus	36
 Macro Mode (Close-ups)	37
 Using the Flash (Intelligent Flash)	38
 Using the Self-Timer	40
 Instant Zoom	42
 Continuous Shooting (Burst Mode)	43
 Exposure Compensation	47
Sensitivity	48
Metering	49
Autofocus Mode	50
Focus Mode	51
White Balance	53

More on Playback

Playback Options.....	55
Playback Zoom.....	56
Multi-Frame Playback.....	57
Image Search.....	58
Viewing Panoramas.....	59
Viewing Pictures Taken in a Single Burst	60
 Deleting Pictures.....	61
Viewing Photo Information.....	63

Movies

 Recording Movies	64
 Viewing Movies	66
Trimming Movies.....	67
Splicing Movies	68

Connections

Viewing Pictures on TV.....	69
Printing Pictures via USB	71
Connecting the Camera	71
Printing Selected Pictures	71
Printing the DPOF Print Order	73
Creating a DPOF Print Order.....	74
Viewing Pictures on a Computer.....	76
Installing the Software.....	76
Connecting the Camera	80

Menus

Using the Menus: Shooting Mode.....	82
Using the Shooting Menu.....	82
Shooting Menu Options.....	83
 IMAGE SIZE.....	85
 IMAGE QUALITY	86
 DYNAMIC RANGE	86
 FINEPIX COLOR.....	87
 WB FINE TUNE.....	87
 FACE DETECTION.....	88
 AE BKT EV STEPS.....	89
 FLASH.....	89
 EXTERNAL FLASH	89
 HIGH-SPEED SHOOTING	91
Using the Menus: Playback Mode.....	92
Using the Playback Menu	92
Playback Menu Options.....	93
 SLIDE SHOW	94
 RED EYE REMOVAL.....	95
 PROTECT	96
 CROP	97
 RESIZE	98
 IMAGE ROTATE.....	98
 COPY	99
 VOICE MEMO.....	101
 DISP ASPECT.....	103

The Setup Menu	104	Technical Notes	
Using the Setup Menu	104	Optional Accessories	114
Setup Menu Options.....	105	Accessories from FUJIFILM	115
🕒 TIME DIFFERENCE	108	Caring for the Camera	116
🗑️ FORMAT.....	109		
🖼️ IMAGE DISP.	109	Troubleshooting	
📄 FRAME NO.	110	Troubleshooting	117
🔊 PLAYBACK VOLUME	111	Warning Messages and Displays	124
⚙️ LCD BRIGHTNESS	111		
📷 AUTO POWER OFF	111	Appendix	
RAW RAW	112	Glossary	128
📷 FOCUS CHECK	112	Internal Memory/Memory Card Capacity	129
🔋 DISCHARGE (Ni-MH Batteries Only)	113	Specifications	130

Introduction

Symbols and Conventions

The following symbols are used in this manual:

 **Caution:** This information should be read before use to ensure correct operation.

 **Note:** Points to note when using the camera.

 **Tip:** Additional information that may be helpful when using the camera.

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

Supplied Accessories

The following items are included with the camera:



AA alkaline (LR6) batteries (x4)



USB cable



A/V cable



Lens cap

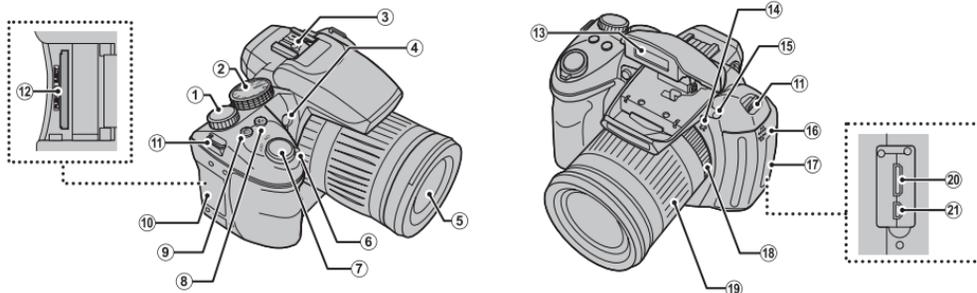


CD-ROM

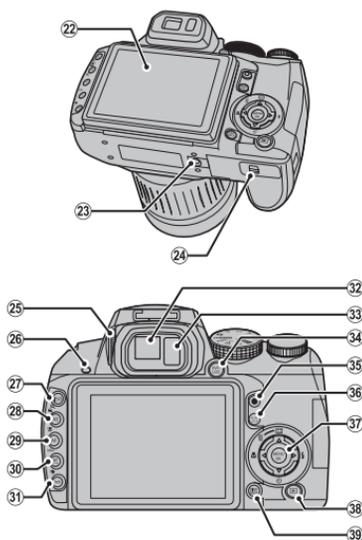
• *Strap*

Parts of the Camera

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



1	Command dial.....	23, 29, 43, 48	8	(exposure compensation) button.....	47	16	Speaker.....	66, 102
2	Mode dial.....	6, 21	9	(continuous shooting) button.....	43	17	Terminal cover	
3	Hot shoe.....	89–90	10	Memory card slot cover.....	11	18	Focus ring.....	51
4	AF-assist illuminator.....	35	11	Strap eyelet.....	7	19	Zoom ring.....	16
	Self-timer lamp.....	41	12	Memory card slot.....	11	20	Connector for HDMI cable.....	69
5	Lens		13	Flash.....	38	21	A/V and USB cable connector.....	69, 71, 80
6	ON/OFF switch.....	13	14	Microphone.....	64, 101			
7	Shutter button.....	19	15	(flash pop-up) button.....	38			



22	Monitor	5	31	WB (white balance) button	53
23	Tripod mount			(image search) button	58
24	Battery-chamber cover	8	32	Electronic viewfinder	4
25	Diopter adjustment control	4	33	Eye sensor	4
26	Indicator lamp	19	34	EVF/LCD (display selection) button	4
27	ISO (sensitivity) button	48	35	(movie record) button	64
	(playback zoom in) button	56	36	AE/AF LOCK (autoexposure/autofocus lock) button	36
28	AE (autoexposure) button	49	37	Selector button (see below)	
	(playback zoom out) button	56	38	(playback) button	55
29	AF (autofocus) button	50	39	DISP (display)/ BACK button	17, 18, 55
	(Intelligent Face Detection) button	56, 74			
30	AF C/S/M (focus mode) button	51			
	info button	63			

The Selector Button

Move cursor up

- (instant zoom) button (pg. 42)/
- (delete) button (pg. 20)

MENU/OK button (pg. 14)

Move cursor left

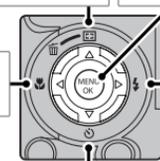
- (macro) button (pg. 37)

Move cursor right

- (flash) button (pg. 38)

Move cursor down

- (self-timer) button (pg. 40)



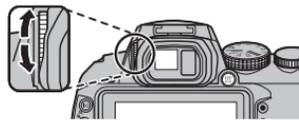
The Electronic Viewfinder (EVF)

The electronic viewfinder provides the same information as the monitor, and can be used when bright lighting conditions make the display in the monitor difficult to see. If **ON** is selected for **EVF/LCD AUTO SWITCH** in the setup menu (pg. 105), the electronic viewfinder turns on automatically when you put your eye to the viewfinder, and the monitor turns on when you take your eye away (note that the eye sensor may not respond if you are wearing glasses or your head is at an angle to the camera). To switch between the monitor and electronic viewfinder when **OFF** is selected for **EVF/LCD AUTO SWITCH**, press the **EVF/LCD** button.

The camera is equipped with diopter adjustment to accommodate individual differences in vision. Slide the diopter adjustment control up and down until the viewfinder display is in sharp focus.



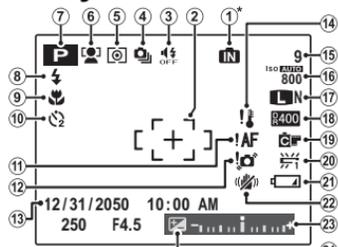
Eye sensor



Camera Displays

The following indicators may appear during shooting and playback: The indicators displayed vary with camera settings.

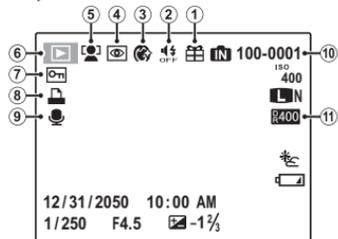
Shooting



* **IN**: indicates that no memory card is inserted and that pictures will be stored in the camera's internal memory (pg. 10).

1	Internal memory indicator*	10	13	Date and time	14
2	Focus frame	34, 50	14	Temperature warning	120
3	Silent mode	18	15	Number of available frames	129
4	Continuous shooting mode	43	16	Sensitivity	48
5	Metering	49	17	Image quality and size	85-86
6	Intelligent Face Detection indicator	88	18	Dynamic range	86
7	Shooting mode	21	19	FINEPIX color	87
8	Flash mode	38	20	White balance	53
9	Macro (close-up) mode	37	21	Battery level	15
10	Self-timer indicator	40	22	IS mode	17
11	Focus warning	18, 124	23	Exposure indicator	32, 47
12	Blur warning	38, 124	24	Exposure compensation	47

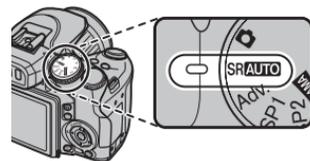
Playback



1	Gift image	55	7	Protected image	96
2	Silent mode indicator	18	8	DPOF print indicator	73
3	Portrait enhancer	26	9	Voice memo indicator	101
4	Red-eye removal indicator	95	10	Frame number	110
5	Intelligent Face Detection indicator	56, 97	11	Dynamic range	86
6	Playback mode indicator	55			

The Mode Dial

To select a shooting mode, align the mode icon with the mark next to the mode dial.



📷 (AUTO): A simple “point-and-shoot” mode recommended for first-time users of digital cameras (pg. 21).

SR AUTO (SCENE RECOGNITION): A “point-and-shoot” mode in which the camera automatically adjust settings to suit the scene (pg. 15).

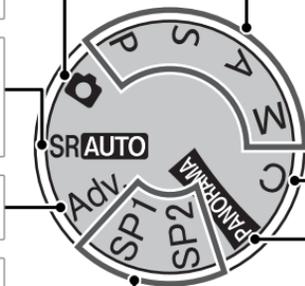
Adv. (ADVANCED): Sophisticated techniques made easy (pg. 21).

SP1, SP2 (SCENE POSITION): Choose a scene suited to the subject or shooting conditions and let the camera do the rest (pg. 25).

P, S, A, M (pg. 29): Select for full control over camera settings, including aperture (**M** and **A**) and/or shutter speed (**M** and **S**).

C (CUSTOM): Recall stored settings for **P, S, A,** and **M** modes (pg. 33).

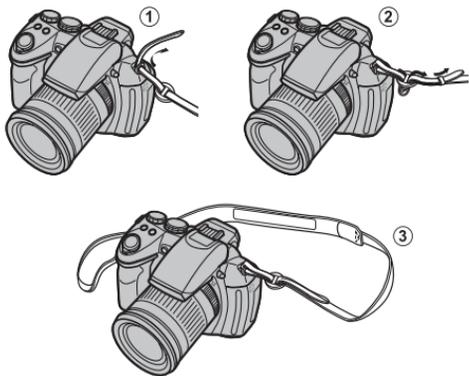
📷 PANORAMA (MOTION PANORAMA): Create sweeping panoramas (pg. 27).



The Strap and Lens Cap

Attaching the Strap

Attach the supplied strap to the two strap eyelets as shown below.



Caution

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

The Lens Cap

When removing or replacing the lens cap, press the latch as shown.



To avoid losing the lens cap, pass the supplied string through the eyelet and secure the lens cap to the strap.

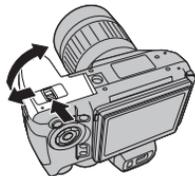


Inserting the Batteries

The camera takes four AA alkaline, lithium, or rechargeable Ni-MH batteries. A set of four alkaline batteries is supplied with the camera. Insert the batteries in the camera as described below.

1 Open the battery-chamber cover.

Slide the battery-chamber latch in the direction shown and open the battery-chamber cover.



⚡ Note

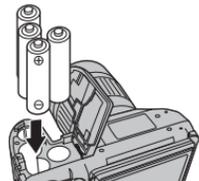
Be sure the camera is off before opening the battery-chamber cover.

⚠ Cautions

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

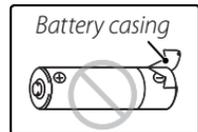
2 Insert the batteries.

Insert the batteries in the orientation shown by the “+” and “-” marks inside the battery chamber.



⚠ Cautions

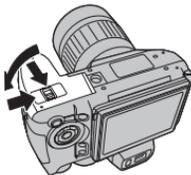
- Insert the batteries in the correct orientation.
- **Never use batteries with peeling or damaged casing or mix old and new batteries, batteries with different charge levels, or batteries of different types.** Failure to observe these precautions could result in the batteries leaking or overheating.



- **Never use manganese or Ni-Cd batteries.**
- The capacity of alkaline batteries varies with the manufacturer and drops at temperatures below 10°C/50°F; Ni-MH batteries are recommended.
- Fingerprints and other soil on the battery terminals can shorten battery life.

3 Close the battery-chamber cover.

Close the battery-chamber cover and slide it in until the latch clicks into place.



Caution

Do not use force. If the battery-chamber cover does not close, check that the batteries are in the correct orientation and try again.

Choosing the Battery Type

After replacing the batteries with batteries of a different type, select the battery type using the

 **BATTERY TYPE** option in the setup menu (pg. 107) to ensure that the battery level is displayed correctly and the camera does not turn off unexpectedly.



Tip: 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.

Inserting a Memory Card

Although the camera can store pictures in internal memory, optional SD memory cards (sold separately) can be used to store additional pictures.

When no memory card is inserted,  appears in the monitor and internal memory is used for recording and playback. Note that because camera malfunction could cause internal memory to become corrupted, the pictures in internal memory should periodically be transferred to a computer and saved on the computer hard disk or on removable media such as CDs or DVDs. The pictures in internal memory can also be copied to a memory card (see page 99). To prevent internal memory from becoming full, be sure to delete pictures when they are no longer needed.

When a memory card is inserted as described below, the card will be used for recording and playback.

■ **Compatible Memory Cards**

SD and SDHC memory cards manufactured by FUJIFILM and SanDisk have been approved for use in the camera. A complete list of approved memory cards is available at http://www.fujifilm.com/products/digital_cameras/index.html. Operation is not guaranteed with other cards. The camera can not be used with *xD-Picture Cards* or with MultiMediaCard (MMC) devices.

Caution

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



Write-protect
switch

■ Inserting a Memory Card

1 Open the memory card slot cover.

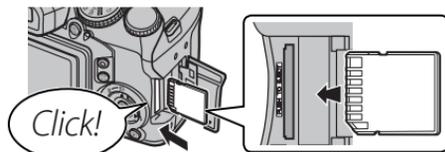
⬅ Note

Be sure the camera is off before opening the memory card slot cover.



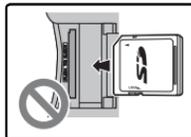
2 Insert the memory card.

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

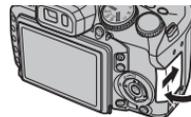


⚠ Caution

Be sure card is in correct orientation; do not insert at an angle or use force. If the card is not correctly inserted, pictures will be recorded to internal memory.

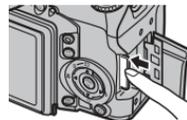


3 Close the memory card slot cover.



● Removing Memory Cards

After confirming that the camera is off, press the card in and then release it slowly. The card can now be removed by hand.



⚠ Cautions

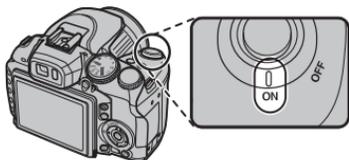
- The memory card may spring out if you remove your finger immediately after pushing the card in.
- Memory cards may be warm to the touch after being removed from the camera. This is normal and does not indicate a malfunction.

⚠ Cautions

- **Do not turn the camera off or remove the memory card while the memory card is being formatted or data are being recorded to or deleted from the card.** Failure to observe this precaution could damage the card.
- Format memory cards before first use or after using them in a computer or other device. For more information on formatting memory cards, see page 109.
- 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 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 memory card. Use a card with a class 4 write speed (4 MB/s) or better when shooting HD 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.

Turning the Camera on and Off

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



Select **OFF** to turn the camera off.

Tip: Switching to Playback Mode

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

Caution

Pictures can be affected by fingerprints and other marks on the lens. Keep the lens clean.

Tip: Auto Power Off

The camera will turn off automatically if no operations are performed for the length of time selected in the  **AUTO POWER OFF** menu (pg. 111). To reactivate the camera after it has turned off automatically, turn the **ON/OFF** switch to **OFF** and then back to **ON**.

Basic Setup

A language-selection dialog is displayed the first time the camera is turned on. Set up the camera as described below (for information on resetting the clock or changing languages, see page 105).

1 Choose a language.



1.1 Press the selector up or down to highlight a language.



1.2 Press **MENU/OK**.



2 Set the date and time.



2.1 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.



2.2 Press **MENU/OK**. A battery type message will be displayed; if the type differs from the type inserted in the camera, use the setup menu  **BATTERY TYPE** option (pg. 107) to specify the correct type.



Tip: The Camera Clock

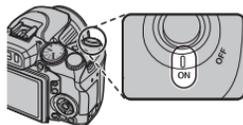
If the batteries are removed for an extended period, the camera clock will be reset and the language-selection dialog will be displayed when the camera is turned on. If the batteries are left in the camera or an optional AC power adapter connected for about ten hours, the batteries can be removed for about a week without resetting clock or language selection.

Taking Pictures in **SRAUTO** (Scene Recognition) Mode

This section describes how to take pictures in **SRAUTO** mode (for other shooting modes, see page 21).

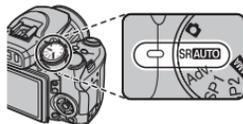
1 Turn the camera on.

Rotate the **ON/OFF** switch to **ON**.



2 Select **SRAUTO** mode.

Rotate the mode dial to **SRAUTO**.



SRAUTO

In this mode, the camera automatically analyzes the composition and selects a scene according to shooting conditions and the type of subject:

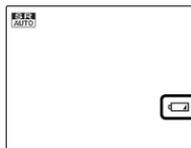


Selected scene

- (PORTRAIT): Human portrait subject.
- (LANDSCAPE): Man-made or natural landscape.
- (NIGHT): Poorly-lit landscape.
- (MACRO): Subject close to camera.
- (NIGHT PORTRAIT): Poorly-lit portrait subject.
- (BACKLIT PORTRAIT): Back-lit portrait subject.
- (AUTO) is selected if none of the above are detected.

3 Check the battery level.

Check the battery level in the display.



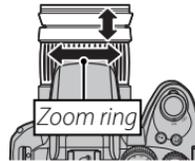
Indicator	Description
—	Batteries are partially discharged.
 (red)	Batteries are low. Charge as soon as possible.
 (blinks red)	Batteries are exhausted. Turn camera off and replace batteries.

Note

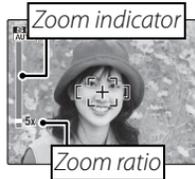
A battery warning may not be displayed before the camera turns off, particularly if batteries are reused after having once been exhausted. Power consumption varies greatly from mode to mode; the low battery warning () may not be displayed or may be displayed only briefly before the camera turns off in some modes or when switching from shooting to playback mode.

4 Frame the picture.

Use the zoom ring to frame the picture in the display.



Rotate left to zoom out



Rotate right to zoom in



● 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.



Tip: Focus Lock

Use focus lock (pg. 34) to focus on subjects that are not in the center of the frame.

Best Framing

To choose the shooting information and guides displayed, press the **DISP/BACK** button.

Indicators displayed



Indicators hidden



HD framing



Best framing

- **Best framing:** To use the best framing, position the main subject at the intersection of two lines or align one of the horizontal lines with the horizon. Use focus lock (pg. 34) to focus on subjects that will not be in the center of the frame in the final photograph.
- **HD framing:** Displays the High Definition (HD) 16:9 crop. Not displayed during instant zoom.

Avoiding Blurred Pictures

If the subject is poorly lit, blurring caused by camera shake can be reduced using the **IS MODE** option in the setup menu (pg. 106).



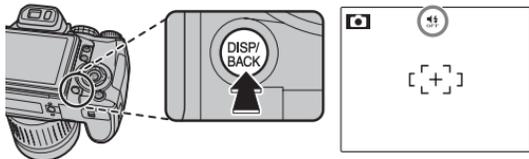
Sensitivity is raised when IS is in effect. Note that blurring may still occur depending on the scene. We recommend that you turn IS off when using a tripod.

Filters

The camera can be used with a $\phi 58$ mm thin-frame PL (polarizing) filters. The edges of pictures taken with the standard PL filters will be blacked out.

Silent Mode

In situations in which camera sounds or lights may be unwelcome, hold the **DISP/BACK** button down for a few seconds or select **ON** for **SILENT MODE** in the setup menu (note that silent mode is not available during movie or voice memo playback).



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  is selected in scene mode). To restore normal operation, press the **DISP/BACK** button until the  icon is no longer displayed.

5 Focus.

Press the shutter button halfway to focus.



Note

The lens may make a noise when the camera focuses; this is normal. In **SRAUTO** mode, the camera continuously adjusts focus and searches for faces, increasing the drain on the batteries.  is displayed in the monitor.

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 (pg. 34).

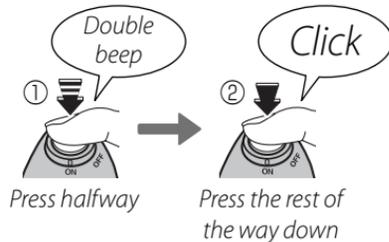
6 Shoot.

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



Tip: The Shutter Button

The shutter button has two positions. Pressing the shutter button halfway (①) sets focus and exposure; to shoot, press the shutter button the rest of the way down (②).



Note

If the subject is poorly lit, the AF-assist illuminator may light to assist focus (pg. 35). For information on using the flash when lighting is poor, see page 38.

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	Flash charging; flash will not fire when picture is taken.
Blinks red	Lens or memory error.

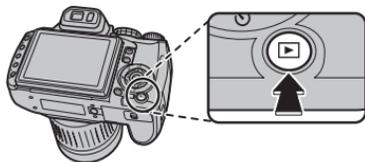
Tip: Warnings

Detailed warnings appear in the display. See pages 124–127 for more information.

Viewing Pictures

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

- 1 Press the  button.



The most recent picture will be displayed in the monitor.



- 2 View additional pictures.

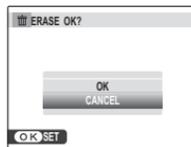
Press the selector right to view pictures in the order recorded, left to view pictures in reverse order.



Press the shutter button to exit to shooting mode.

Deleting Pictures

To delete the picture currently displayed in the monitor, press the selector up () . The following dialog will be displayed.



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

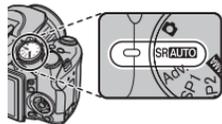


Tip: The Playback Menu

Pictures can also be deleted from the playback menu (pg. 61).

Shooting Mode

Choose a shooting mode according to the scene or type of subject. To choose a shooting mode, rotate the mode dial to the desired setting (pg. 6). The following modes are available:



SRAUTO SCENE RECOGNITION

The camera automatically analyzes the composition and selects the appropriate scene mode according to the subject and shooting conditions (pg. 15).

📷 AUTO

Choose for crisp, clear snapshots. This mode is recommended in most situations.

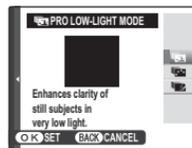
Adv. ADVANCED

This mode combines “point-and-shoot” simplicity with sophisticated photographic techniques.

1 Rotate the mode dial to **Adv.**



2 Press **MENU/OK** to display the following menu.



← Note

If the shooting menu is displayed, highlight **📷 Adv. MODE** and press **MENU/OK**.

- 3 Highlight the desired option.
- 4 Press **MENU/OK** to select the highlighted option.
- 5 Press **DISP/BACK** to return to shooting mode.



PRO LOW-LIGHT

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

Note

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

Caution

Frame coverage is reduced in this mode.

MULTI MOTION CAPTURE

Capture a moving object multiple times in a single photograph.



Note

 can not be selected for  **IMAGE SIZE**. For best results, choose a moving subject that changes position. Note that the camera may be unable to locate the subject if the background has very little contrast (for example, if the background is a featureless wall). Mount the camera on a tripod or choose a background that contrasts with the subject.

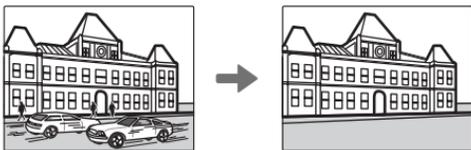
- 1 Rotate the command dial to choose the shooting time. Choose longer times if the objects to be removed are slow-moving.



- 2 Take pictures. Do not move the camera until shooting is complete.

MOTION REMOVER

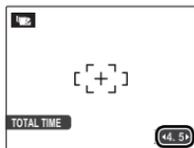
Remove moving objects from photographs.



Note

 can not be selected for  **IMAGE SIZE**. Note that the camera may be unable to locate the subject if the background has very little contrast (for example, if the background is a featureless wall). Mount the camera on a tripod or choose a background that contrasts with the subject.

- 1 Rotate the command dial to choose the shooting time. Choose longer times if the objects to be removed are slow-moving.



- 2 Take pictures. Do not move the camera until shooting is complete.

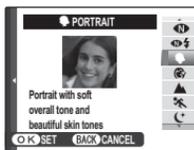
SP1/SP2 SCENE POSITION

The camera offers a choice of “scenes,” each adapted to particular shooting conditions or a specific type of subject, which can be assigned to the **SP1** and **SP2** positions on the mode dial. Each position can be assigned a different scene:

1 Rotate the mode dial to **SP1** or **SP2**.



2 Press **MENU/OK** to display the following menu.



← Note

If the shooting menu is displayed, highlight **SCENE POSITION** and press **MENU/OK**.

3 Press the selector up or down to highlight a scene (pg. 26).



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



5 Press **DISP/BACK** to return to shooting mode.



Scene	Description
 NATURAL & \AA	Get good results with backlit subjects and other difficult lighting. The camera takes two shots: one without the flash and one with.
 NATURAL LIGHT	Capture natural light indoors, under low light, or where the flash can not be used.
 PORTRAIT	Choose for soft-toned portraits with natural skin tones.
 PORTRAIT ENHANCER	Choose for a smooth skin effect in soft-focus portraits.
 LANDSCAPE	Choose for crisp, clear daylight shots of buildings and landscapes.
 SPORT	Choose when photographing moving subjects.  HIGH-SPEED SHOOTING turns on automatically and priority is given to faster shutter speeds.
 NIGHT	Choose this mode for poorly lit twilight or night scenes. Sensitivity is automatically raised to reduce blur caused by camera shake.
 NIGHT (TRIPOD)	Choose this mode for slow shutter speeds when shooting at night. Use a tripod to prevent blur.
 FIREWORKS	Slow shutter speeds are used to capture the expanding burst of light from a firework. Use a tripod to prevent blur.
 SUNSET	Record the vivid colors in sunrises and sunsets.
 SNOW	Choose for crisp, clear shots that capture the brightness of scenes dominated by shining white snow.
 BEACH	Choose for crisp, clear shots that capture the brightness of sunlit beaches.
 PARTY	Capture indoor background lighting under low-light conditions.
 FLOWER	Choose for vivid close-ups of flowers. The camera focuses in the macro range.
 TEXT	Take clear pictures of text or drawings in print. The camera focuses in the macro range.

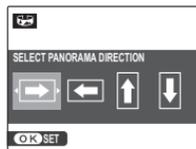
PANORAMA **MOTION PANORAMA**

Follow an on-screen guide to create a panorama.

- 1** Rotate the mode dial to **PANORAMA**.



- 2** 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**.

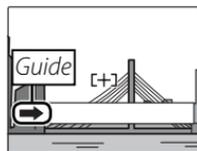


- 3** Press the shutter button all the way down to start the panorama.

**Note**

You can only create a panorama if the camera is zoomed all the way out.

- 4** Pan the camera as shown by the on-screen guide. Shooting ends automatically when the panorama is complete.

**Caution**

The camera may be unable to complete the panorama if the camera is panned too quickly or too slowly. Panning the camera in a direction other than that shown by the guide cancels shooting.

Tip

The completed panorama can be viewed on the camera (pg. 59).

⚠ Cautions

- Panoramas are created from multiple frames. The camera may in some cases be unable to stitch the frames together perfectly.
- Panoramas may not produce the desired results with moving subjects, subjects close to the camera, unvarying subjects such as the sky or a field of grass, or subjects that are in constant motion, such as waves and waterfalls. Panoramas may be blurred if the subject is poorly lit.

●● For Best Results

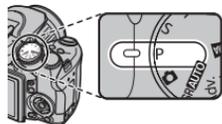
For best results, move the camera in a small circle at a steady speed, being careful only to pan in the direction shown by the guides. If the desired results are not achieved, try panning at a different speed.

●● Printing Panoramas

Depending on the page size and the size of the panorama, panoramas may print with their edges cropped out or with wide margins at the top and bottom or left and right.

P PROGRAM AE

In this mode, the camera sets exposure automatically. If desired, you can choose different combinations of shutter speed and aperture that will produce the same exposure (program shift).

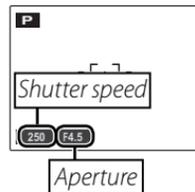


Caution

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

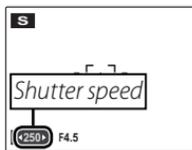
Rotate the command dial to choose the desired combination of shutter speed and aperture. The default values can be restored by raising the flash, rotating the mode dial to another setting, turning the camera off, or selecting playback mode. Program shift is available when the flash is off or an option other than **AUTO** is selected for **ISO ISO**. Program shift is not available when the flash is raised.



S SHUTTER PRIORITY AE

You choose the shutter speed while the camera adjusts aperture for optimal exposure.

- 1 Rotate the mode dial to **S**. Shutter speed will be displayed.



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



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

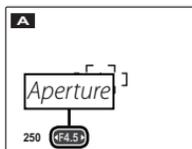
Caution

If the subject is outside the metering range of the camera, the aperture display will show "F--". Press the shutter button halfway to measure exposure again.

A APERTURE PRIORITY AE

You choose the aperture while the camera adjusts shutter speed for optimal exposure.

- 1 Rotate the mode dial to **A**. Aperture will be displayed.



- 2 Rotate the command dial to choose the aperture.



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

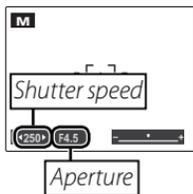
Caution

If the subject is outside the metering range of the camera, the shutter speed display will show “---”. Press the shutter button halfway to measure exposure again.

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.

- 1** Rotate the mode dial to **M**. Shutter speed and aperture will be displayed.



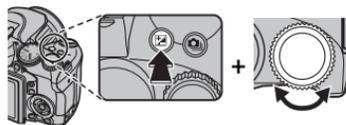
- 2** Rotate the command dial to choose the shutter speed.



Caution

Noise in the form of randomly-spaced bright pixels may occur in long exposures.

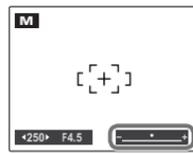
- 3** Press the  button and rotate the command dial to choose the aperture.



- 4** Take pictures.

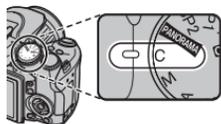
The Exposure Indicator

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



C CUSTOM

In **P**, **S**, **A**, and **M** modes, the **CUSTOM SET** option in the shooting menu (pg. 84) can be used to save current camera and menu settings. These settings are recalled whenever the mode dial is rotated to **C**.



CUSTOM SET

The **CUSTOM SET** option in the shooting menu stores the following settings:

- **Shooting menu:** **ISO** ISO, **IMAGE SIZE**, **IMAGE QUALITY**, **DYNAMIC RANGE**, **FINEPIX COLOR**, **WB FINE TUNE**, **COLOR** COLOR, **tone** TONE, **SHARPNESS**, **FACE DETECTION**, **AE BKT EV STEPS**, **FLASH**, **EXTERNAL FLASH**, **HIGH-SPEED SHOOTING**, **MOVIE QUALITY**, **MOVIE MODE SELECT**, **HS MOVIE SPEED**
- **Setup menu:** **AF** AF ILLUMINATOR, **RAW** RAW
- **Camera controls:** ISO, metering, autofocus mode, focus mode, white balance, burst mode, macro mode, instant zoom, flash mode, exposure compensation, monitor display options (**DISP/BACK** button)



Focus Lock

To compose photographs with off-center subjects:

1 Position the subject in the focus frame.



2 Focus.

Press the shutter button halfway to set focus and exposure. Focus and exposure remain locked while the shutter button is pressed halfway (AF/AE lock; note that if exposure is currently locked using the **AE/AF LOCK** button as described on page 36, pressing the shutter button halfway locks only focus).



Repeat steps 1 and 2 as desired to refocus before taking the picture.

3 Recompose the picture.

Keeping the shutter button pressed halfway, recompose the picture.



4 Shoot.

Press the shutter button the rest of the way down to take the picture.



Press the rest of the way down

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 using autofocus, use focus lock (pg. 34) to focus on another subject at the same distance and then recompose the photograph.

- Very shiny subjects such as mirrors or car bodies.
- Fast-moving subjects.



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

The AF-Assist Illuminator

If the subject is poorly lit, the AF-assist illuminator will light to assist the focus operation.



Notes

- Avoid shining the AF-assist illuminator directly into your subject's eyes. See page 106 for information on disabling the AF-assist illuminator.
- 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 (pg. 37), try increasing the distance to the subject.
- The AF-assist illuminator is not available in silent mode.

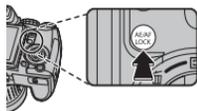
The AE/AF LOCK Button

The **AE/AF LOCK** button can be used to lock exposure or focus.

Locking Exposure

1 Meter exposure.

Position the subject in the focus frame and press the **AE/AF LOCK** button to meter exposure.



2 Focus.

Keeping the **AE/AF LOCK** button pressed, press the shutter button halfway to focus. Focus and exposure will remain locked while the shutter button is pressed halfway, even if you later release the **AE/AF LOCK** button.



Repeat steps 1 and 2 as desired to refocus before taking the picture.

3 Recompose the picture.

Keeping the shutter button pressed halfway, recompose the picture.

⚠ Caution

Adjusting zoom ends AE lock. AE lock is not available with Intelligent Face Detection.

4 Shoot.

Press the shutter button the rest of the way down to take the picture.



Locking Focus

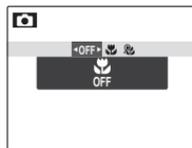
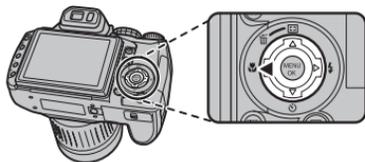
If **AF LOCK ONLY** is selected for **AE/AF-LOCK BUTTON** in the setup menu (pg. 106), pressing the **AE/AF LOCK** button locks focus. If **AE/AF LOCK** is selected, both focus and exposure will be locked.

👉 Note

If **R/A:RELEASE/AE/AF-LOCK** is selected for **AE-AE/AF-LOCK MODE** in the setup menu (pg. 106), exposure and/or focus will lock when the **AE/AF LOCK** button is pressed and remain locked until the button is pressed again.

Macro Mode (Close-ups)

For close-ups, press the selector left () to display macro close-up options. Press the selector left or right to highlight  or  and press **MENU/OK**.



Choose from  (macro mode),  (super macro mode), or **OFF** (macro mode off)

When macro mode is in effect, the camera focuses on subjects near the center of the frame. Use the zoom ring to compose pictures. The following restrictions apply in super macro mode: the lens must be zoomed all the way out (at other zoom positions,  is displayed) and the flash can not be used.

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

Notes

- Use of a tripod is recommended to prevent blur caused by camera shake.
- Flash compensation may be required when using the flash.

⚡ Using the Flash (Intelligent Flash)

When the flash is used, the camera's *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 Raise the flash.

Press the flash pop-up button to raise the flash.

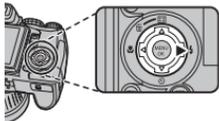
● ● Turning the Flash Off

Lower the flash where flash photography is prohibited or to capture natural lighting under dim light. At slow shutter speeds,  will be displayed to warn that pictures may be blurred; use of a tripod is recommended.



2 Choose a flash mode.

Press the selector right () and then press the selector left or right to highlight one of the following options and press **MENU/OK** (depending on camera settings, some modes may not be available).



Mode	Description
AUTO (AUTO FLASH, no icon)	The flash fires when required. Recommended in most situations.
⚡ (FORCED FLASH)	The flash fires whenever a picture is taken. Use for backlit subjects or for natural coloration when shooting in bright light.
S⚡ (SLOW SYNCHRO)	Capture both the main subject and the background under low light (note that brightly lit scenes may be overexposed).

3 Focus.

Press the shutter button halfway to focus. If the flash will fire,  will be displayed when the shutter button is pressed halfway. At slow shutter speeds,  will appear in the display to warn that pictures may be blurred; use a tripod.



4 Shoot.

Press the shutter button the rest of the way down to shoot.

Caution

The flash may fire several times with each shot. Do not move the camera until shooting is complete.



Red-Eye Removal

When **ON** is selected both for  **FACE DETECTION** in the shooting menu (pg. 88) and for  **RED EYE REMOVAL** in the setup menu (pg. 106), red-eye removal () is available in **AUTO FLASH** ()_(AUTO), **FORCED FLASH** ()_(ON), and **SLOW SYNCHRO** ()_(OFF) modes. Red-eye removal minimizes “red-eye” caused when light from the flash is reflected from the subject’s retinas as shown in the illustration at right.



Tip: **SAVE ORG IMAGE**

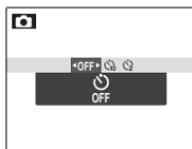
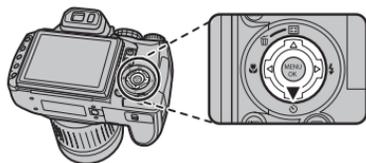
Unprocessed copies of pictures taken using red-eye removal can be saved using  **SAVE ORG IMAGE** in the setup menu (pg. 107).

⌚ Using the Self-Timer

The camera offers a ten-second timer that allows photographers to appear in their own photographs, and a two-second timer that can be used to avoid blur caused by the camera moving when the shutter button is pressed. The self-timer is available in all shooting modes.

1 Set the timer.

Press the selector down (⌚), and then press the selector left or right to highlight an option and press **MENU/OK**.



Choose from **OFF** (self-timer off),
⌚ (10 s delay), or ⌚ (2 s delay)

2 Focus.

Press the shutter button halfway to focus.

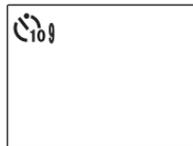
⚠ Caution

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

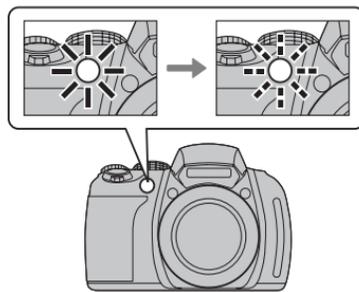


3 Start the timer.

Press the shutter button the rest of the way down to start the timer. The display in the monitor shows the number of seconds remaining until the shutter is released. To stop the timer before the picture is taken, press **DISP/BACK**.



The self-timer lamp on the front of the camera will blink immediately before the picture is taken. If the two-second timer is selected, the self-timer lamp will blink as the timer counts down. Be careful not to move until the picture has been recorded.



●● Intelligent Face Detection

Because it ensures that the faces of portrait subjects will be in focus, Intelligent Face Detection (pg. 88) is recommended when using the self-timer for group portraits or self-portraits. To use the self-timer with Intelligent Face Detection, turn Intelligent Face Detection on, set the timer as described in Step 1, and then press the shutter button all the way down to start the timer. The camera will detect faces while the timer is counting down and adjust focus and exposure immediately before the shutter is released.

← Note

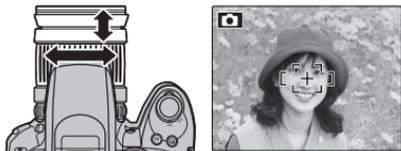
The self-timer turns off automatically when the picture is taken, a different shooting mode is selected, playback mode is selected, or the camera is turned off.

Instant Zoom

In instant zoom, the area surrounding the frame is visible in the display. Use to frame erratically moving subjects such as children, pets, and athletes at sporting events.

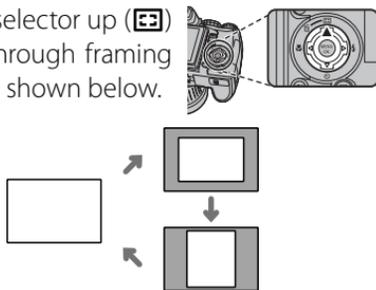
1 Position the subject in the focus frame.

Use the zoom ring to frame the subject in the center of the display.



2 Choose a frame.

Press the selector up () to cycle through framing options as shown below.



The frame is displayed as shown at right. The composition can be adjusted using the zoom ring.



3 Focus and shoot.

The framed area will be enlarged to create a full-sized picture.



Tip: Intelligent Face Detection

Intelligent Face Detection will not detect faces outside the selected frame.

Cautions

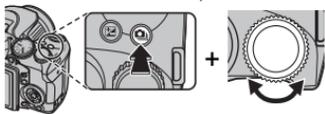
- Pictures taken using instant zoom are lower quality than pictures taken using normal zoom.
- Only horizontal (landscape-orientation) framing is available when , , or  is selected for continuous shooting mode.

Continuous Shooting (Burst Mode)

Capture motion or automatically vary selected settings over a series of pictures.

1 Choose a continuous shooting.

Press the  button and rotate the command dial to choose from the options below:



Mode	Page
OFF	44
 (TOP 7 (RAW 6))	44
 (BEST FRAME CAPTURE)	45
 (ZOOM BRACKETING)	46
 (AE BKT)	46

2 Focus.

Press the shutter button halfway to focus.



3 Shoot.

Shooting ends when the shutter button is released, memory is full, or the selected number of shots has been taken.



Notes

- Focus and exposure are determined by the first frame in each series. The flash turns off automatically (pg. 119); the previously-selected flash mode is restored when burst shooting is turned off.
- Frame rate varies with shutter speed.
- The number of pictures that can be recorded depends on the memory available. Some options are only available if there is sufficient memory available for all pictures in the sequence. Additional time may be required to record pictures when shooting ends; to cancel recording and take next pictures immediately, press **DISP/BACK**.
- The number of pictures that can be recorded depends on the option selected for **RAW RAW**.

	RAW RAW		
	RAW+JPG	RAW	OFF
	Up to 5	Up to 6	Up to 7
	5	6	7
	No pictures can be taken		3
	3		

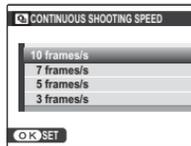
OFF

One picture is taken each time the shutter button is pressed.

TOP 7 (RAW 6)

The camera takes pictures while the shutter button is pressed.

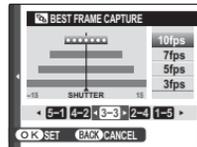
To choose the shooting speed, press the selector right when the camera is in shooting mode. Press the selector up or down to highlight an option and then press **MENU/OK**.



BEST FRAME CAPTURE

Each time you press the shutter button all the way down, the camera records pictures, “bracketing” the moment when the shutter button was pressed.

Pressing the selector right when the camera is in shooting mode displays the options shown at right. Press the selector left or right to choose the number of pictures recorded before or after the shutter button is pressed (the number of pictures recorded *before* the button is pressed is shown on the *left*, the number of pictures recorded *after* the button is pressed on the *right*), up or down to choose the shooting speed, and then press **MENU/OK**. To exit without changing settings, press **DISP/BACK**.

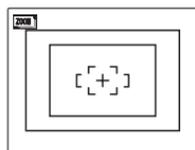


Note

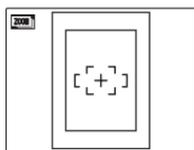
Recording does not begin until the shutter button is pressed halfway. If the shutter button is pressed the rest of the way down before the number of frames selected for the “before” portion is recorded, the remaining frames will be taken after the shutter button is pressed all the way down.

ZOOM BRACKETING

Each time the shutter button is pressed, the camera takes three pictures: one at the current zoom ratio with an image size of **L**, a second zoomed in 1.4× and cropped to **M**, and a third zoomed in 2× and cropped to **S**. Two frames are displayed to show the areas that will be included in the second and third pictures; the outer frame shows the area that will be recorded at 1.4× zoom, the inner frame the area that will be recorded at 2× zoom. Press the selector up to choose from wide and tall crops.



Wide



Tall

AE BKT

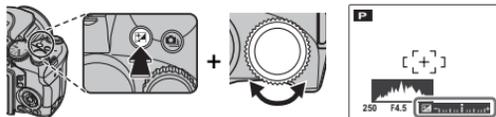
Each time the shutter button is pressed, the camera takes three shots: one using the metered value for exposure, the second overexposed by the amount selected for  **AE BKT EV STEPS** in the shooting menu (pg. 89), and the third underexposed by the same amount (the camera may not be able to use the selected bracketing increment if the amount of over- or under-exposure exceeds the limits of the exposure metering system).

Exposure Compensation

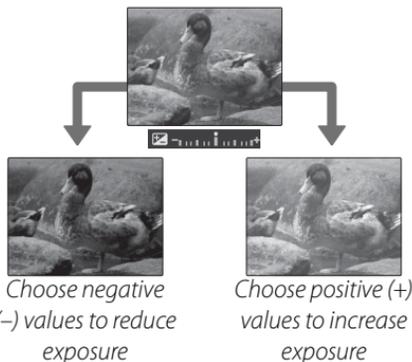
Use exposure compensation when photographing very bright, very dark, or high-contrast subjects.

1 Choose a value.

Press the  button and rotate the command dial until the exposure indicator shows the desired value.



The effect is also visible in the display.



2 Take pictures.

Choosing an Exposure Compensation Value

- **Backlit subjects:** choose values from $+\frac{2}{3}$ EV to $+1\frac{2}{3}$ EV (for an explanation of the term "EV", see the Glossary on page 128)
- **Highly reflective subjects or very bright scenes** (e.g., snowfields): +1 EV
- **Scenes that are mostly sky:** +1 EV
- **Spotlit subjects** (particularly if photographed against dark backgrounds): $-\frac{2}{3}$ EV
- **Subjects with low reflectivity** (pine trees or dark-colored foliage): $-\frac{2}{3}$ EV

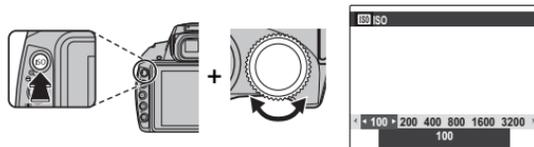


Note

A  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 .

Sensitivity

The camera's sensitivity to light can be adjusted by pressing the **ISO** button and rotating the command dial until the desired value is highlighted in the display.



Higher values can be used to reduce blur when lighting is poor; note, however, that mottling may appear in pictures taken at high sensitivities, particularly at settings above **1600**. If **AUTO** or an option such as **AUTO (3200)** is selected, the camera will adjust sensitivity automatically in response to shooting conditions. In the case of **AUTO (3200)**, **AUTO (1600)**, **AUTO (800)**, and **AUTO (400)**, the value in parentheses is the maximum sensitivity that will be selected when the subject is poorly lit.

Settings other than **AUTO** are shown by an icon in the display.

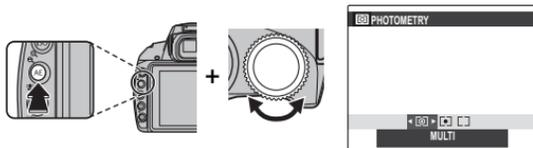
← Note

Sensitivity can also be adjusted in the shooting menu (pg. 83). Sensitivity is not reset when the camera is turned off.



Metering

To choose how the camera meters exposure when Intelligent Face Detection is off, press the **AE** button and rotate the command dial.

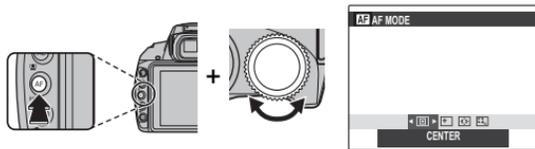


The following options are available:

Mode	Description
 (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. Recommended when the background is much brighter or darker than the main subject. Can be used with exposure lock (pg. 36) to meter off-center subjects.
 (AVERAGE)	Exposure is set to the average for the entire frame. Provides consistent exposure across multiple shots with the same lighting, and is particularly effective for landscapes and portraits of subjects dressed in black or white.

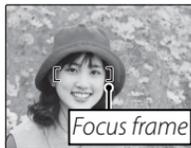
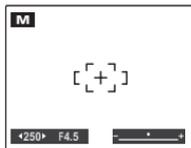
Autofocus Mode

To choose how the camera selects the focus area when **AF-S** is selected for focus mode (pg. 51), press the **AF** button and rotate the command dial. Note that regardless of the option selected, the camera will focus on the subject in the center of the monitor when macro mode is on (pg. 37).

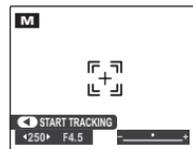
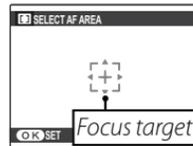


The following options are available:

- **[+]** (CENTER): The camera focuses on the subject in the center of the frame. This option can be used with focus lock.
- **[+]** (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.

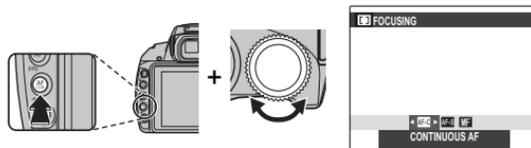


- **[+]** (AREA): The focus position can be chosen manually by pressing the selector up, down, left, or right and pressing **MENU/OK** when the focus brackets are in the desired position. Choose for precise focus when the camera is mounted on a tripod.
- **[+]** (TRACKING): Position the subject in the focus target and press the selector left. The camera will track the subject and adjust focus as it moves through the frame.



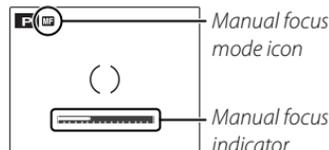
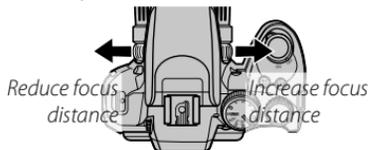
Focus Mode

To choose how the camera focuses, press the **AF C/S/M** button and rotate the command dial.



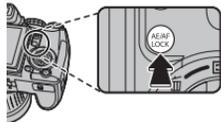
The following options are available:

Mode	Description
AF-S (single)	Focus locks while the shutter button is pressed halfway. Choose for stationary subjects.
AF-C (continuous)	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 batteries).  (CENTER) is automatically selected for autofocus mode (pg. 50); if Intelligent Face Detection is on, the camera will continually adjust focus for the selected face. Choose for moving subjects.
MF (manual)	Focus manually using the focus ring. Rotate the ring left to reduce the focus distance, right to increase. The manual focus indicator indicates how closely the focus distance matches the distance to the subject in the focus brackets. Choose for manual control of focus or in situations in which the camera is unable to focus using autofocus (pg. 35). Intelligent Face Detection turns off automatically.



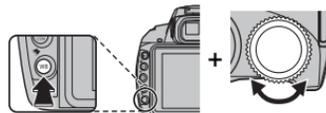
← Notes: Manual Focus

- Use of a tripod is recommended. Focus may be affected if the camera moves.
- If **ON** is selected for  **FOCUS CHECK** in the setup menu (pg. 112), the center of the display will be magnified to assist focus when the focus ring is rotated.
- The camera will not focus when the focus ring is rotated all the way to the right. To focus at infinity, focus on a distant object.
- To focus using autofocus (pg. 50), press the **AE/AF LOCK** button. This can be used to quickly focus on a chosen subject in manual focus mode.



White Balance

For natural colors, press the **WB** button and rotate the command dial until a setting that matches the light source is highlighted in the display (for an explanation of “white balance,” see the Glossary on page 128).



Option	Description
AUTO	White balance adjusted automatically.
	Measure a value for white balance (pg. 54).
	For subjects in direct sunlight.
	For subjects in the shade.
	Use under “daylight” fluorescent lights.
	Use under “warm white” fluorescent lights.
	Use under “cool white” fluorescent lights.
	Use under incandescent lighting.

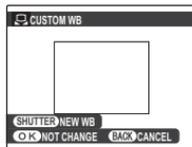
If **AUTO** does not produce the desired results (for example, when taking close-ups), choose the option that matches the light source or select and measure a value for white balance.

Notes

- At settings other than , auto white balance is used with the flash. Turn the flash off (pg. 38) to take pictures at other settings.
- Results vary with shooting conditions. Play pictures back after shooting to check colors in the monitor.

■ Custom White Balance

Choose  to adjust white balance for unusual lighting. The options at right 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. This value is stored even when the batteries are removed and can be reselected by pressing **MENU/OK** when custom white balance options are displayed.

If “UNDER” is displayed, raise exposure compensation (pg. 47) and try again.

If “OVER” is displayed, lower exposure compensation and try again.

Tip

To give a deliberate color cast to your photographs, measure a value for custom white balance using a colored instead of a white object.

Playback Options

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

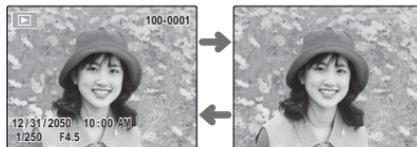
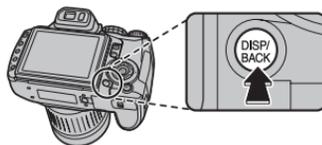


Press the selector right to view pictures in the order recorded, left to view pictures in reverse order. Keep the selector pressed to scroll rapidly to the desired frame.



Choosing a Display Format

Press the **DISP/BACK** button and press the selector left or right to cycle through playback display formats as shown below.



Indicators displayed

Indicators hidden

Note

Pictures taken using other cameras are indicated by a  ("gift image") icon during playback.

Playback Zoom

Press  to zoom in on pictures displayed in single-frame playback;  to zoom out. 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

Press **DISP/BACK** or **MENU/OK** to exit zoom.

Note

The maximum zoom ratio varies with image size (pg. 85). Playback zoom is not available with copies that have been cropped or resized to **640**.

Intelligent Face Detection

Pictures taken with Intelligent Face Detection (pg. 88) are indicated by a  icon. Press the  button to zoom in on the subject selected with Intelligent Face Detection. You can then use the  and  buttons to zoom in and out.



Multi-Frame Playback

To change the number of images displayed, press **Q** in single-frame view.



Press **Q** to view more images.

Press **Q** to view fewer images.



Use the selector to highlight images and press **MENU/OK** to view the highlighted image full frame. In the nine- and hundred-frame displays, press the selector up or down to view more pictures.

Tip: Two-Frame Display

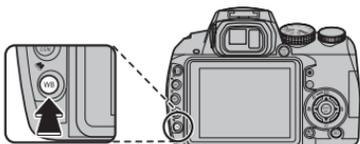
Two-frame display can be used to compare pictures taken in  mode.



Image Search

Search for pictures by date, subject, scene, and file type.

- 1 Press the  button during playback.



- 2 Highlight one of the following options and press **MENU/OK**:

Option	Description
BY DATE	Find all pictures taken on a selected date.
BY FACE	Find all pictures based on specified face information.
BY SCENE	Find all pictures that match a selected scene.
BY TYPE OF DATA	Find all still pictures or all movies.

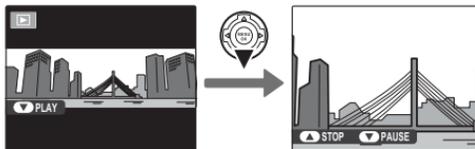
- 3 Select a search condition. Only pictures that match the search condition will be displayed. To delete or protect selected pictures or to view the selected pictures in a slide show, press **MENU/OK** and choose from the following options:

Option	See page
 ERASE	61
 PROTECT	96
 SLIDE SHOW	94

- 4 To end the search, select **EXIT SEARCH**.

Viewing Panoramas

To view a panorama, display in single-frame view and press the selector down.



Horizontal panoramas are displayed from left to right, vertical panoramas from top to bottom. The following operations can be performed during playback:

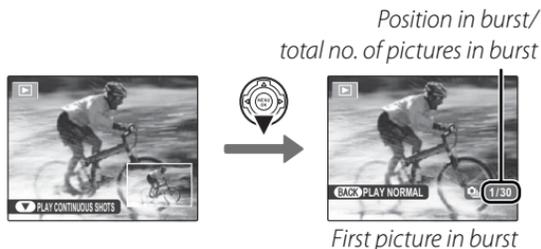
Operation	Button	Description
Start/pause playback		Press the selector down to start playback. Press again to pause.
End playback/delete		Press the selector up to end playback. To delete the panorama, press the selector up (🗑️) while playback is paused.
Pan		Press the selector left or right to pan through the panorama. The pan rate slows when playback is paused.

Tip: Playback Zoom

You can zoom in on panoramas during playback (pg. 56).

Viewing Pictures Taken in a Single Burst

When a picture taken in continuous shooting mode is displayed in single-frame view, the first picture in the current burst can be viewed by pressing the selector down (burst mode playback).



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. To exit, press **DISP/BACK**.

Tip: Bursts That Cross Folders

If a single burst is spread across multiple folders, the pictures in each folder will be treated as separate bursts.

Notes

- The display format (pg. 55) can not be changed during burst mode playback.
- Pressing the selector right when the last picture in the burst is displayed displays the first picture in the burst; similarly, pressing the selector left when the first picture is displayed displays the last picture.
- Deletion (pg. 61), rotation (pg. 98), protect (pg. 96), and copy (pg. 99) operations applied during burst mode playback apply only to the current picture. In contrast, if these operations are performed when a picture taken in continuous shooting mode is displayed in single-frame playback, all images in the same burst will be affected.

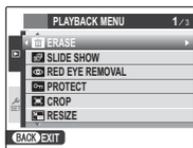
Tip: Viewing Photo Information

To view photo information for a picture taken in continuous shooting mode, display it in burst mode playback and press the **info** button. Photo information for pictures taken in continuous shooting mode can not be viewed during single-frame playback.

Deleting Pictures

The **ERASE** option in the playback menu can be used to delete still pictures and movies, increasing the amount of space available on the memory card or in internal memory (for information on deleting pictures in single-frame playback, see page 20). *Note that deleted pictures can not be recovered. Copy important pictures to a computer or other storage device before proceeding.*

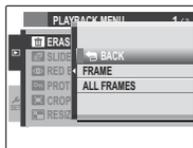
- 1** Press **MENU/OK** to display the playback menu.



- 2** Press the selector up or down to highlight  **ERASE**.



- 3** Press the selector right to display delete options.



- 4** Press the selector up or down to highlight **FRAME** or **ALL FRAMES**.



- 5** Press **MENU/OK** to display options for the selected item (pg. 62).

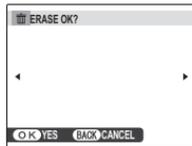


Tips: Deleting Pictures

- When a memory card is inserted, pictures will be deleted from the memory card; otherwise, pictures will be deleted from internal memory.
- Protected pictures can not be deleted. Remove protection from any pictures you wish to delete (pg. 96).
- If a message appears stating that the selected images are part of a DPOF print order, press **MENU/OK** to delete the pictures.

■ FRAME: *Deleting Selected Images*

Selecting **FRAME** displays the dialog shown at right.



Press the selector left or right to scroll through pictures and press **MENU/OK** to delete the current picture (the picture is deleted immediately; be careful not delete the wrong picture).



Press **DISP/BACK** to exit when all the desired pictures have been deleted.

■ ALL FRAMES: *Deleting All Images*

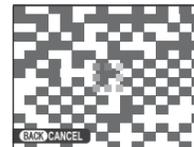
Selecting **ALL FRAMES** displays the confirmation shown at right.



Highlight **OK** and press **MENU/OK** to delete all unprotected pictures.

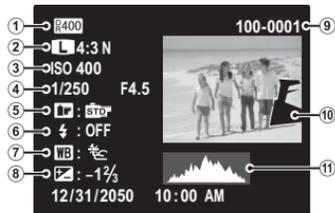
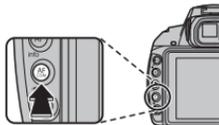


The dialog shown at right is displayed during deletion. Press **DISP/BACK** to cancel before all pictures have been deleted (any pictures deleted before the button was pressed can not be recovered).



Viewing Photo Information

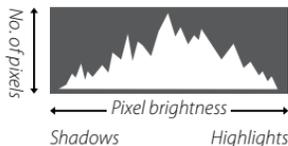
To view the photo information listed below in single-frame playback, press **info**.



- ① Dynamic range, ② Image size and quality,
- ③ Sensitivity, ④ Shutter speed/aperture,
- ⑤ FinePix color, ⑥ Flash mode, ⑦ White balance,
- ⑧ Exposure compensation, ⑨ Frame number,
- ⑩ Picture (overexposed areas blink on and off),
- ⑪ Histogram

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.

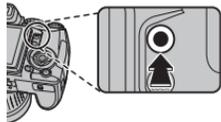


Underexposed: Pixels are clustered at the left side of the graph.



Recording Movies

Short movies can be recorded by pressing the **●** button. To end recording, press the **●** button again. Sound is recorded via the built-in microphone; do not cover the microphone during recording.



The type of movie recorded can be selected from the shooting menu. The following options are available:

- **MOVIE QUALITY:** Choose the frame size for movies shot with **NORMAL MOVIE** selected for **MOVIE MODE SELECT**.

Option	Frame size (pixels)	Description
	1920 × 1080	Film in full HD.
	1280 × 720	Film in HD.
	640 × 480	Higher quality than .
	320 × 240	Film longer movies.

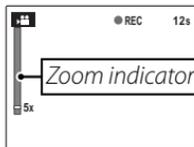
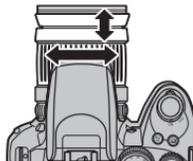
- **MOVIE MODE SELECT:** Choose **NORMAL MOVIE** to record movies that play back at normal speed, **HIGH SPEED MOVIE** to record at high frame rates.

- **HS MOVIE SPEED:** Choose the frame rate for **HIGH SPEED MOVIE** mode. Choose faster rates for higher recording speeds.

Frame rate (fps)	Frame size (pixels)	Frame rate (fps)	Frame size (pixels)
1000	224 × 64	120	640 × 480
480	224 × 168	60	960 × 720
240	442 × 332		

Zoom

Zoom can be adjusted while recording is in progress.



Notes

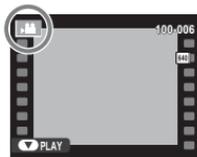
- Focus, exposure, and white balance are adjusted automatically throughout recording. The color and brightness of the image may vary from those displayed before recording begins.
- If the subject is poorly lit, the AF-assist lamp may light to assist the focus operation. To turn the AF-assist lamp off, select **OFF** for the **AF- AF ILLUMINATOR** option in the setup menu (pg. 106).

Cautions

- The indicator lamp lights while movies are being recorded. Do not open the battery chamber cover during shooting or while the indicator lamp is lit. Failure to observe this precaution could prevent the movie from being played back.
- The lens may make a noise when the camera focuses during recording.
- Vertical or horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.

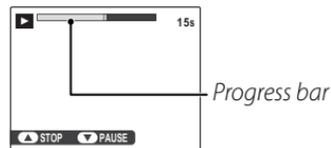
▶ Viewing Movies

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



Operation	Description
Start/pause playback	Press the selector down to start playback. Press again to pause.
End playback/delete	Press the selector up to end playback. To delete the movie, press the selector up (⏏) while playback paused.
Advance/rewind	Press the selector left or right during playback to choose the playback speed (the current speed is shown in the display). Press and hold the selector to scan forward or backward. If playback is paused, the movie will advance or rewind one frame each time the selector is pressed.
Adjust volume	Press MENU/OK to pause playback and display volume controls. Press the selector up or down to adjust the volume; press MENU/OK again to resume playback.

Progress is shown in the monitor during playback.



Tip: Viewing Movies on a Computer

Copy movies to the computer before viewing (pg. 76).

Caution

Do not cover the speaker during playback.

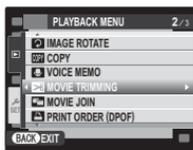
Trimming Movies

To create a copy of a movie from which the beginning or ending footage has been cut, select the movie during playback and follow the steps below.

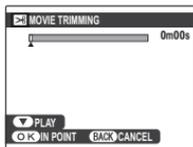
1 Press **MENU/OK** to display the playback menu.



2 Highlight **MOVIE TRIMMING**.



3 Press **MENU/OK**. The dialog shown below will be displayed.



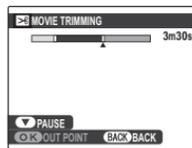
4 To choose the start point, press the selector down to begin playback and press the selector down again on reaching the desired frame.



5 Press **MENU/OK**.



6 To choose the end point, press the selector down to begin playback and press the selector down again on reaching the desired frame.



Note

To exit without creating an edited copy, press **DISP/BACK** at any time.

7 Press **MENU/OK** to save the edited copy to a separate file.



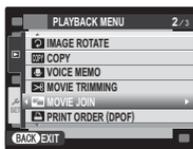
Splicing Movies

To add existing footage to the end of a movie, select the movie during playback and follow the steps below.

1 Press **MENU/OK** to display the playback menu.



2 Highlight **MOVIE JOIN**.



3 Press **MENU/OK**. The dialog shown below will be displayed.



4 Choose the footage that will be added to the end of the movie.



5 Press **MENU/OK** to save the edited copy to a separate file, or press **DISP/BACK** to exit without creating a copy.

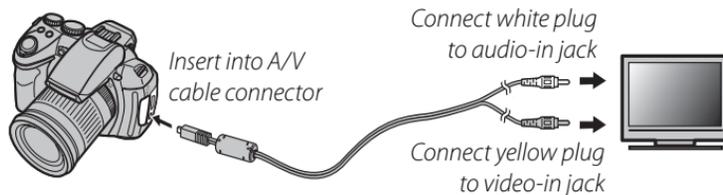


Caution

Both movies must have been recorded at the same frame size and frame rate and have a combined file size of no more than 4 GB.

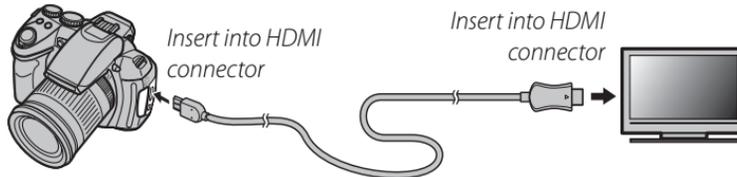
Viewing Pictures on TV

Connect the camera to a TV and tune the television to the video channel to show pictures to a group. The supplied A/V cable connects as shown below. Turn the camera off before connecting the cable.



HDMI

An HDMI cable (available from third-party suppliers; pg. 114) 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.



Turn the camera on and press the  button. The camera monitor turns off and pictures and voice memos 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.

 **Note**

Image quality drops during movie playback.

 **Caution**

When connecting the cable, be sure the connectors are fully inserted.

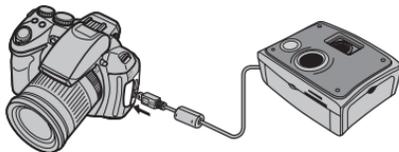
Printing Pictures via USB

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

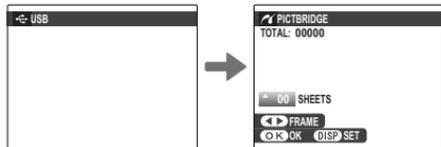


Connecting the Camera

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



- 2 Turn the camera on and press button. **USB** will be displayed in the monitor, followed by the PictBridge display shown below at right.



Printing Selected Pictures

- 1 Press the selector left or right to display a picture you wish to print.



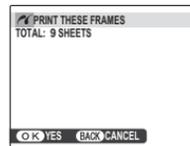
Note

To print one copy of the current picture, proceed directly to Step 3.

- 2 Press the selector up or down to choose the number of copies (up to 99). Repeat steps 1–2 to select additional pictures.



- 3 Press **MENU/OK** to display a confirmation dialog.



- 4 Press **MENU/OK** to start printing.



Tip: Printing the Date of Recording

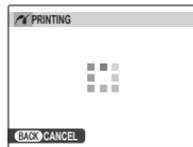
To print the date of recording on pictures, press **DISP/BACK** in steps 1–2 to display the PictBridge menu (see “Printing the DPOF Print Order,” below). Press the selector up or down to highlight **PRINT WITH DATE**  and press **MENU/OK** to return to the PictBridge display (to print pictures without the date of recording, select **PRINT WITHOUT DATE**). To ensure that the date is correct, set the camera clock before taking pictures. Note that the **PRINT WITH DATE**  option is only available with printers that support date printing.

Notes

- Print pictures from internal memory or a memory card that has been formatted in the camera.
- Default printer page size, border, and print quality settings are used when printing via direct USB connection.

During Printing

The message shown at right is displayed during printing. Press **DISP/BACK** to cancel before all pictures are printed (depending on the printer, printing may end before the current picture has printed).



If printing is interrupted, turn the camera off and then on again.

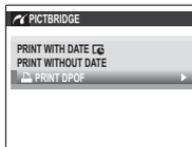
Disconnecting the Camera

Confirm that the above message is not displayed and turn the camera off. Disconnect the USB cable.

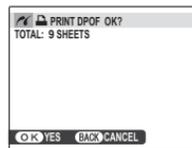
Printing the DPOF Print Order

To print the print order created with  **PRINT ORDER (DPOF)** in the playback menu (pg. 93):

- 1 In the PictBridge display, press **DISP/BACK** to open the PictBridge menu.
- 2 Press the selector up or down to highlight  **PRINT DPOF**.



- 3 Press **MENU/OK** to display a confirmation dialog.



- 4 Press **MENU/OK** to start printing.



Creating a DPOF Print Order

The  **PRINT ORDER (DPOF)** option in the playback menu can be used to create a digital “print order” for PictBridge-compatible printers or devices that support DPOF.

DPOF

DPOF (Digital Print Order Format) is 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.



■ WITH DATE /WITHOUT DATE

To modify the DPOF print order, select  **PRINT ORDER (DPOF)** in the playback menu and press the selector up or down to highlight **WITH DATE ** or **WITHOUT DATE**.



WITH DATE : Print date of recording on pictures.

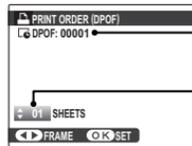
WITHOUT DATE: Print pictures without date.

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

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



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



Total number of prints

Number of copies

Tip: Intelligent Face Detection

If the current picture was created with Intelligent Face Detection, pressing  sets the number of copies to the number of faces detected.

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



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

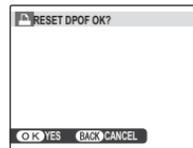


The pictures in the current print order are indicated by a  icon during playback.



■ RESET ALL

To cancel the current print order, select **RESET ALL** in the  **PRINT ORDER (DPOF)** menu. The confirmation shown at right will be displayed; press **MENU/OK** to remove all pictures from the order.



← Notes

- 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, the message shown at right will be displayed. Pressing **MENU/OK** cancels the print order; a new print order must be created as described above.



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.**

Installing the Software

Two applications are supplied: MyFinePix Studio for Windows and FinePixViewer for the Macintosh. Installation instructions for Windows are on pages 76–77, those for the Macintosh on pages 78–79.

Windows: Installing MyFinePix Studio

1 Confirm that the computer meets the following system requirements:

	Windows 7 ¹	Windows Vista ¹	Windows XP ¹
CPU	3 GHz Pentium 4 or better (2.4GHz Core 2 Duo or better) ²		2 GHz Pentium 4 or better (2.4GHz Core 2 Duo or better) ²
RAM	1 GB or more		512 MB or more (1 GB or more) ²
Free disk space	15 GB or more		2 GB or more
Video	<ul style="list-style-type: none">• 1024 × 768 pixels or more with 24-bit color or better• A graphics processing unit (GPU) that supports DirectX 7 or later		
Other	<ul style="list-style-type: none">• Built-in USB port recommended. Operation is not guaranteed with other USB ports.• Internet connection (56 kbps or faster recommended) required for software updates and other services provided via the Internet; Internet connection and e-mail software required to use e-mail option.		

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.

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 on-screen 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. The version number is printed at the top of the CD label for reference when updating the software or contacting customer support.

Installation is now complete. Proceed to “Connecting the Camera” on page 80.

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 versions of Mac OS X version 10.3.9–10.6 (for the latest information, visit http://www.fujifilm.com/)
RAM	256 MB or more (1GB or more)*
Free disk space	A minimum of 200MB required for installation with 400 MB available when FinePixViewer is running
Video	800×600 pixels or more with thousands of colors or better
Other	<ul style="list-style-type: none"> • Built-in USB port recommended. Operation is not guaranteed with other USB ports. • Internet connection (56 kbps or faster recommended) required for software updates and other services provided via the Internet; Internet connection and e-mail software required to use e-mail option.

* 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**.

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. The version number is printed at the top of the CD label for reference when updating the software or contacting customer support.
- 5 **Mac OS X 10.5 or earlier:** 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 **Open**. Quit Image Capture.

Installation is now complete. Proceed to “Connecting the Camera” on page 80.

Connecting the Camera

- 1 If the pictures you wish to copy are stored on a memory card, insert the card into the camera (pg. 11). If no card is inserted, pictures will be copied from internal memory.

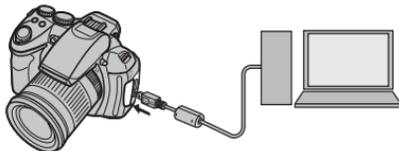
← Note

Windows users may require the Windows CD when starting the software for the first time.

⚠ Caution

Loss of power during transfer could result in loss of data or damage to internal memory or the memory card. Insert fresh or fully-charged batteries 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 Turn the camera on and press the **▶** button. MyFinePix Studio or FinePixViewer will start automatically; follow the on-screen instructions to copy pictures to the computer. To exit without copying pictures, click **Cancel**.

⚠ Caution

If the software does not start automatically, it may not be correctly installed. Disconnect the camera and reinstall the software.

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

⚠ Cautions

- 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.
- 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.
- Disconnect the camera before inserting or removing memory cards.
- 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.
- The user bears all applicable fees charged by the phone company or Internet service provider when using services that require an Internet connection.

●● Disconnecting the Camera

After confirming that the indicator lamp is out, follow the on-screen instructions to 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**.

Using the Menu: Shooting Mode

The shooting menu is used to adjust settings for a wide range of shooting conditions.

Using the Shooting Menu

- 1** Press **MENU/OK** to display the shooting menu.



- 2** Press the selector up or down to highlight the desired menu item.



- 3** Press the selector right to display options for the highlighted item.



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



- 5** Press **MENU/OK** to select the high-lighted option.



- 6** Press **DISP/BACK** to exit.



Menu item	Description	Options	Default
 AE BKT EV STEPS	Choose the size of the bracketing increment when  is selected in continuous shooting mode (pg. 89).	$\pm 1/3$ EV / $\pm 2/3$ EV / ± 1 EV	$\pm 1/3$ EV
 FLASH	Adjust flash brightness (pg. 89).	$-2/3$ EV – $+2/3$ EV in steps of $1/3$ EV	0
 EXTERNAL FLASH	Choose when using a optional flash (pg. 89).	ON/OFF	OFF
 HIGH-SPEED SHOOTING	Choose for quick shutter response (pg. 91).	ON/OFF	OFF
 CUSTOM SET	Save settings for P , S , A , and M modes (pg. 33).	—	—

☰ IMAGE SIZE

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

Option	Prints at sizes up to
L 4:3	31 × 23 cm (12 × 9 in.)
L 3:2	31 × 21 cm (12 × 8 in.)
L 16:9	31 × 17 cm (12 × 7 in.)
M 4:3	22 × 16 cm (9 × 6.5 in.)
M 3:2	22 × 15 cm (9 × 6 in.)
M 16:9	22 × 12 cm (9 × 5 in.)
S 4:3	17 × 13 cm (7 × 5 in.)
S 3:2	17 × 12 cm (7 × 4.5 in.)
S 16:9	17 × 9 cm (7 × 3.5 in.)

The number of pictures that can be taken at current settings (pg. 129) is shown to the right of the image quality icon in the display.

☰ Aspect Ratio

Pictures with an aspect ratio of 4:3 have the same proportions as the camera display. Pictures with an aspect ratio of 3:2 have the same proportions as a frame of 35-mm film, while an aspect ratio of 16:9 is suited to display on High Definition (HD) devices.



4:3



3:2



16:9

☰ Note

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

IMAGE QUALITY

Choose how much image files are compressed. Select **FINE** (low compression) for higher image quality, **NORMAL** (high compression) to increase the number of pictures that can be stored.

DYNAMIC RANGE

Control contrast. Higher values are recommended for scenes that include both sunlight and deep shade or for increased contrast when photographing such subjects as sunlight on water, brightly-lit autumn leaves, and portraits taken against a blue sky; note, however, that mottling may appear in pictures taken at higher values.

FINEPIX COLOR

Enhance contrast and color saturation or take pictures in sepia or black and white.

Option	Description
 F-STANDARD	Standard contrast and saturation. Recommended in most situations.
 F-CHROME	Vivid contrast and color. Choose for vivid shots of flowers or enhanced greens and blues in landscapes.
 F-B&W	Take pictures in black and white.
 SEPIA	Take pictures in sepia.

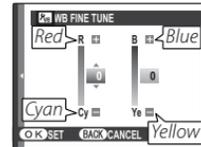
Settings other than  **F-STANDARD** are shown by an icon in the display.

Notes

- **FINEPIX COLOR** is not reset when the camera is turned off or another shooting mode is selected.
- The effects of  **F-CHROME** vary from scene to scene and may be difficult to discern with some subjects. Depending on the subject, the effects of  **F-CHROME** may not be visible in the display.

WB FINE TUNE

Press the selector up or down to fine-tune white balance on the selected color axis (Red–Cyan or Blue–Yellow) by +3 to –3 in increments of one. Press **MENU/OK** to select.



FACE DETECTION

If **ON** is selected, the camera automatically detects human faces anywhere in the frame and sets focus and exposure for shots that emphasize portrait subjects. Choose to prevent the camera from focusing on the background when taking group portraits 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 (some time may be required if the number of faces is very large). If no face is detected, the camera will focus on the subject at the center of the display.



Green border

Caution

In some modes, the camera may set exposure for the frame as a whole rather than the portrait subject. If the subject moves just before the shutter is released, their face may not be in the area indicated by the green border when the picture is taken.

Intelligent Face Detection

Intelligent Face Detection is recommended when using the self-timer for group- or self-portraits (pg. 41).



When a picture taken with Intelligent Face Detection is displayed, the camera can automatically select faces for red-eye removal (pg. 95), playback zoom (pg. 56), slide shows (pg. 94), printing (pg. 71), and cropping (pg. 97).

AE BKT EV STEPS

Choose the size of the exposure bracketing increment used when  (AE BKT) is selected in continuous shooting. Choose from increments of $\pm\frac{1}{3}$ EV, $\pm\frac{2}{3}$ EV, and ± 1 EV (for an explanation of the term “EV,” see the Glossary on page 128).

FLASH

Adjust flash brightness. Choose from values between $+\frac{2}{3}$ EV and $-\frac{2}{3}$ 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.

EXTERNAL FLASH

Choose **ON** when using an optional flash unit mounted on the camera hot shoe.

Cautions

- Maximum shutter speed is $\frac{1}{4000}$ s. The flash may not fully light the subject at speeds faster than $\frac{1}{1000}$ s.
- Use auto or custom white balance (pg. 53).
- If the built-in flash is raised when **ON** is selected for  **EXTERNAL FLASH**, the built-in flash will fire once to provide a signal for the optional flash unit to fire.

Note

The camera can be used with flash units that provide aperture adjustment, external metering, and sensitivity control. Some flash units that are designed specifically for other cameras can not be used.

■ Using an Optional Flash Unit

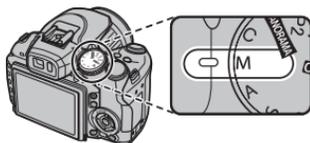
- 1** Select **ON** for **EXTERNAL FLASH**.



- 2** Lower the built-in flash and mount the optional flash unit on the camera hot shoe. Tighten the locking screw.



- 3** Rotate the mode dial to **P**, **S**, **A**, **M**, or **C**.



- 4** Adjust flash settings as described in the manual provided with the optional flash unit. TTL mode is not supported; choose external flash sync mode and set sensitivity (pg. 48) and aperture to the values selected with the camera.

HIGH-SPEED SHOOTING

Selecting **ON** reduces focusing time, ensuring a quick shutter response.

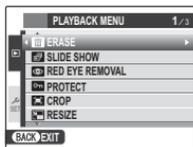
Using the Menus: Playback Mode

Using the Playback Menu

1 Press  to enter playback mode.



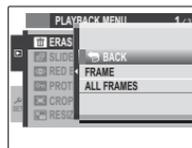
2 Press **MENU/OK** to display the playback menu.



3 Press the selector up or down to highlight the desired menu item.



4 Press the selector right to display options for the highlighted item.



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



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



7 Press **DISP/BACK** to exit.



Playback Menu Options

The following options are available:

Option	Description
 ERASE	Delete all or selected pictures (pg. 61).
 SLIDE SHOW	View pictures in a slide show (pg. 94).
 RED EYE REMOVAL	Create copies with reduced red eye (pg. 95).
 PROTECT	Protect pictures from accidental deletion (pg. 96).
 CROP	Create cropped copies of pictures (pg. 97).
 RESIZE	Create small copies of pictures (pg. 98).
 IMAGE ROTATE	Rotate pictures (pg. 98).
 COPY	Copy pictures between internal memory and a memory card (pg. 99).
 VOICE MEMO	Add voice memos to pictures (pg. 101).
 MOVIE TRIMMING	Create copies of movies from which the opening or closing footage has been removed (pg. 67).
 MOVIE JOIN	Splice two movies together to create a longer copy (pg. 68).
 PRINT ORDER (DPOF)	Select pictures for printing on DPOF- and PictBridge-compatible devices (pg. 73).
 DISP ASPECT	Choose a display mode for viewing photographs on an HDTV (pg. 103; available only when an HD cable is connected).

 **SLIDE SHOW**

View pictures in an automated slide show. After choosing the background music and display format, press **MENU/OK** to start. Press **DISP/BACK** at any time during the show to view on-screen help. When a movie is displayed, movie playback will begin automatically, and the slide show will continue when the movie ends. The show can be ended at any time by pressing **MENU/OK**.

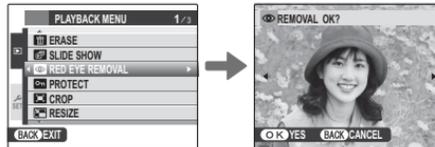
Option	Displayed in
NORMAL	Press selector left or right to go back or skip ahead one frame. Select FADE-IN for fade transitions between frames.
FADE-IN	
NORMAL 	As above, except that camera automatically zooms in on faces selected with Intelligent Face detection.
FADE-IN 	
MULTIPLE	Display several pictures at once.
SCRAP BOOK VIEW	Display multiple pictures in random positions and sizes.
SELECT BGM	Choose background music.

 **Note**

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

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. Press **MENU/OK**. The camera will analyze the image; if red-eye is detected, the image will be processed to create a copy with reduced red-eye.



Notes

- Red eye may not be removed if the camera is unable to detect a face or the face is in profile. Results may differ depending on the scene. Red eye can not be removed from pictures that have already been processed using red-eye removal or pictures created with other devices.
- The amount of time needed to process the image varies with the number of faces detected.
- Copies created with  **RED EYE REMOVAL** are indicated by a  icon during playback.
- Red eye removal can not be performed on RAW images.

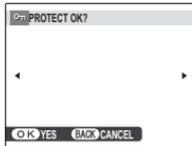
PROTECT

Protect pictures from accidental deletion. The following options are available.

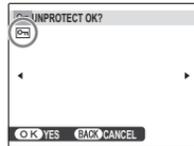
FRAME

Protect selected pictures.

- 1 Press the selector left or right to display the desired picture.



Picture not protected



Protected picture

- 2 Press **MENU/OK** to protect the picture. If the picture is already protected, pressing **MENU/OK** will remove protection from the image.



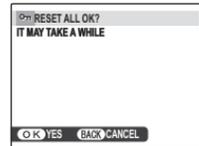
- 3 Repeat steps 1–2 to protect additional images. Press **DISP/BACK** to exit when the operation is complete.

**SET ALL**

Press **MENU/OK** to protect all pictures, or press **DISP/BACK** to exit without changing picture status.

**RESET ALL**

Press **MENU/OK** to remove protection from all pictures, or press **DISP/BACK** to exit without changing picture status.



If the number of pictures affected is very large, the display at right will appear in the monitor while the operation is in progress. Press **DISP/BACK** to exit before the operation is complete.

**Caution**

Protected pictures will be deleted when the memory card or internal memory is formatted (pg. 109).

CROP

To create a cropped copy of a picture, play the picture back and select  **CROP** in the playback menu (pg. 92).

- 1 Use the  and  buttons to zoom the image in and out and use the selector to scroll the picture until the desired portion is displayed (to exit to single-frame playback without creating a cropped copy, press **DISP/BACK**).



Navigation window shows portion of image currently displayed in monitor

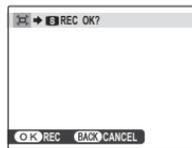
If the size of the final copy will be **640**, **OK** will be displayed in yellow.

Tip: Intelligent Face Detection

If the picture was shot with Intelligent Face Detection (pg. 88),  will be displayed in the monitor. Press the  button to zoom in on the selected face.



- 2 Press **MENU/OK**. A confirmation dialog will be displayed.



Copy size (**M**, **S**, or **640**) is shown at the top. Larger crops produce larger copies; all copies have an aspect ratio of 4:3.

- 3 Press **MENU/OK** to save the cropped copy to a separate file.



RESIZE

To create a small copy of a picture, play the picture back and select  **RESIZE** in the playback menu (pg. 92).

- 1 Press the selector up or down to highlight the desired size.
- 2 Press **MENU/OK** to select the highlighted option.
- 3 Press **MENU/OK** to copy the picture at the selected size.



IMAGE ROTATE

By default, pictures taken in tall orientation are displayed in wide orientation. Use this option to display pictures in the correct orientation in the monitor. It has no effect on pictures displayed on a computer or other device.

Notes

- Protected pictures can not be rotated. Remove protection before rotating pictures (pg. 96).
- The camera may not be able to rotate pictures created with other devices.

To rotate a picture, play the picture back and select **IMAGE ROTATE** in the playback menu.

- 1 Press the selector down to rotate the picture 90° clockwise, up to rotate the picture 90° counterclockwise.



- 2 Press **MENU/OK** to confirm the operation (to exit without rotating the picture, press **DISP/BACK**).



The next time the picture is played back, it will automatically be rotated.

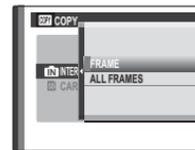
COPY COPY

Copy pictures between internal memory and a memory card.

- 1 Press the selector up or down to highlight **INTERNAL MEMORY** → **SD CARD** (copy pictures from internal memory to the memory card) or **SD CARD** → **INTERNAL MEMORY** (copy pictures from a memory card to internal memory).



- 2 Press the selector right to display options for the highlighted item.

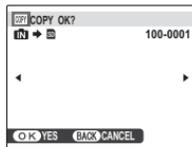


- 3 Press the selector up or down to highlight **FRAME** or **ALL FRAMES**.
- 4 Press **MENU/OK**.



■ FRAME

Copy selected frames.

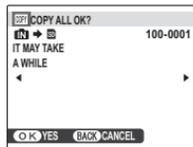


- 1 Press the selector left or right to display the desired picture.
- 2 Press **MENU/OK** to copy the picture.
- 3 Repeat steps 1–2 to copy additional images. Press **DISP/BACK** to exit when the operation is complete.



■ ALL FRAMES

Press **MENU/OK** to copy all pictures, or press **DISP/BACK** to exit without copying pictures.



⚠ Cautions

- Copying ends when the destination is full.
- DPOF print information is not copied (pg. 74).

📖 Tip: Copying Pictures Between Memory Cards

To copy pictures between two memory cards, insert the source card and copy the pictures to internal memory, then remove the source card, insert the destination card, and copy the pictures from internal memory.

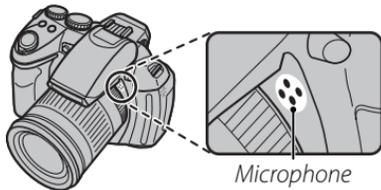
VOICE MEMO

To add a voice memo to a still picture, select  **VOICE MEMO** after displaying the picture in playback mode.

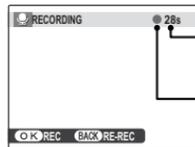
Note

Voice memos can not be added to movies or protected pictures. Remove protection from pictures before recording voice memos (pg. 96).

- 1 Hold the camera at a distance of about 20 cm (8 in.) and face the microphone.



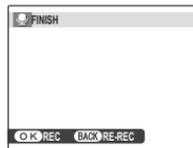
- 2 Press **MENU/OK** to start recording.



Time remaining

Blinks red

- 3 Press **MENU/OK** again to end recording. Recording ends automatically after 30 seconds.



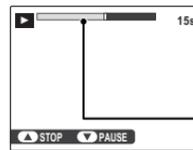
Notes

- If a voice memo already exists for the current picture, the options at right will be displayed. Select **RE-REC** to replace the existing memo.
- Voice memos are recorded as PCM-format WAV files (pg. 128).



Playing Voice Memos

Pictures with voice memos are indicated by a  icon during playback. To play the voice memo, press the selector down. To pause, press the selector down again; to end playback, press the selector up. Press the selector left to rewind, right to fast forward. Volume controls can be displayed by pressing the **MENU/OK** button; press the selector up or down to adjust the volume, and press **MENU/OK** again to resume playback.



Progress is shown in the monitor.

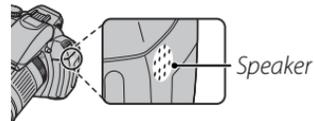
Progress bar

Note

The camera may not play voice memos recorded with other devices.

Caution

Do not cover the speaker during playback.



DISP ASPECT

Choose the aspect ratio used when photographs with at a 4:3 aspect ratio (pg. 85) are viewed on a High Definition device.

- **16:9:** The image fills the screen, with the top and bottom cropped out.
- **4:3:** The entire image is displayed, with black bands at the right and left sides.

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.

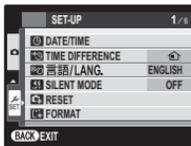
1.1 Press **MENU/OK** to display the menu for the current mode.



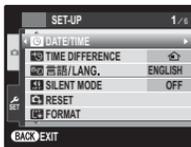
1.2 Press the selector left to highlight the tab for the current menu.



1.3 Press the selector down to highlight the setup menu tab (🔑).



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



2 Adjust settings.

2.1 Press the selector up or down to highlight a menu item.



2.2 Press the selector right to display options for the highlighted item.



2.3 Press the selector up or down to highlight an option.



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



3 Press **DISP/BACK** to exit.



Setup Menu Options

Menu item	Description	Options	Default
DATE/TIME	Set the camera clock.	—	—
TIME DIFFERENCE	Set the clock to local time (pg. 108).	/	
言語/LANG.	Choose a language.	See page 14	ENGLISH
SILENT MODE	Select ON in situations in which camera sounds or lights may be unwelcome (pg. 18).	ON / OFF	OFF
RESET	Reset all settings except DATE/TIME, TIME DIFFERENCE, BACKGROUND COLOR, and VIDEO SYSTEM to default values. A confirmation dialog will be displayed, highlight OK and press MENU/OK .	—	—
FORMAT	Format internal memory or memory cards (pg. 109).	—	—
IMAGE DISP.	Choose how long pictures are displayed after shooting (pg. 109).	3 SEC / 1.5 SEC / ZOOM / OFF	1.5 SEC
FRAME NO.	Choose how files are named (pg. 110).	CONT. / RENEW	CONT.
OPERATION VOL.	Adjust the volume of camera controls.	(high) / (mid) / (low) / OFF (mute)	
SHUTTER VOLUME	Adjust the volume of the shutter sound.		
SHUTTER SOUND	Choose the sound made by the shutter.	1 / 2	1
PLAYBACK VOLUME	Adjust the volume for movie and voice memo playback (pg. 111).	—	7
LCD BRIGHTNESS	Control the brightness of the display (pg. 111).	—	0
EVF/LCD MODE	Choose 30 fps to increase battery life, 60 fps for improved display quality.	30 fps / 60 fps	60 fps
EVF/LCD AUTO SWITCH	If ON is selected, the viewfinder will turn on automatically when you put your eye to the viewfinder (pg. 4).	ON / OFF	ON
AUTO POWER OFF	Choose the auto power off delay (pg. 111).	5 MIN / 2 MIN / OFF	2 MIN

Menu item	Description	Options	Default
 IS MODE	Choose whether image stabilization is performed at all times when the camera is in shooting mode ( CONTINUOUS), or only when the shutter button is pressed all the way down ( SHOOTING ONLY). Choose +D for digital image stabilization, OFF when using a tripod.	 1 /  2 /  1+D /  2+D / OFF	 1
 RED EYE REMOVAL	Create copies with reduced red eye (pg. 39).	ON / OFF	ON
 AF ILLUMINATOR	Turn the AF-assist illuminator on or off (pg. 35).	ON / OFF	ON
 AE/AF-LOCK MODE	If AE/AF-LOCK ONLY is selected, exposure and/or focus will lock while the AE/AF LOCK button is pressed. If R/A: RELEASE/AE/AF-LOCK is selected, exposure and/or focus will lock while the AE/AF LOCK button is pressed and remain locked until the button is pressed again (pg. 36).	A / R/A	A
 AE/AF-LOCK BUTTON	Choose whether the AE/AF LOCK button locks only exposure, only focus, or both exposure and focus.	AE-L / AF-L / AE+AF	AE-L
 RAW	Choose RAW+JPG or RAW to record RAW pictures (note that because RAW data are not processed on the camera, processing must be performed after the pictures are copied to a computer; pg. 112). If RAW+JPG is selected, JPEG copies will also be recorded. Choose OFF to record pictures in JPEG format only.	RAW+JPG / RAW / OFF	OFF
 FOCUS CHECK	If ON is selected, the center of frame will be magnified in the display to assist focus when the focus ring is rotated in manual focus mode (pg. 112). This option only takes effect when 30 fps is selected for  EVF/LCD MODE .	ON / OFF	ON

Menu item	Description	Options	Default
 SAVE ORG IMAGE	Choose whether to save unprocessed copies of pictures taken using red-eye removal, pro low-light, multi-motion capture, and motion remover.	ON / OFF	OFF
 AUTOROTATE PB	Choose ON to automatically rotate “tall” (portrait-orientation) pictures during playback.	ON / OFF	ON
 BACKGROUND COLOR	Choose a color scheme for menus and cursors.	BLUE / PURPLE / PINK / ORANGE / GREEN / BLACK	—
 GUIDANCE DISPLAY	Choose whether to display tool tips.	ON / OFF	ON
 VIDEO SYSTEM	Choose a video mode for connection to a TV (pg. 122).	NTSC / PAL	—
 CUSTOM RESET	Reset all settings for mode C .	—	—
 BATTERY TYPE	Specify the type of battery used in the camera (pg. 9).	[A] / [N] / [L]	[A]
 DISCHARGE	Discharge rechargeable Ni-MH batteries (pg. 113).	—	—

TIME DIFFERENCE

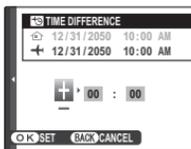
When traveling, use this option to switch the camera clock instantly from your home time zone to the local time at your destination.

1 Specify the difference between local time and your home time zone.

1.1 Press the selector up or down to highlight **← LOCAL**.



1.2 Press the selector right to display the time difference.



1.3 Press the selector left or right to highlight **+**, **-**, hours, or minutes; press up or down to edit. The minimum increment is 15 minutes.

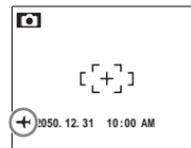


1.4 Press **MENU/OK** when settings are complete.



2 Switch between local time and your home time zone.

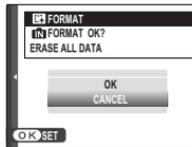
To set the camera clock to local time, highlight **← LOCAL** and press **DISP/BACK** button. To set the clock to the time in your home time zone, select **HOME**. If **← LOCAL** is selected, **←** will be displayed in the monitor for three seconds after the camera enters shooting mode, and the date will be displayed in yellow.



After changing time zones, check that the date and time are correct.

FORMAT

Format internal memory or a memory card. If a memory card is inserted in the camera,  will be displayed in the dialog shown at right and this option will format the memory card. If no memory card is inserted,  will be displayed and this option will format internal memory. Highlight **OK** and press **MENU/OK** to begin formatting.



Cautions

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

IMAGE DISP.

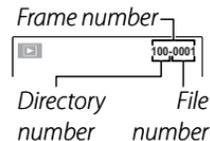
Choose an option other than **OFF** to display pictures in the monitor after shooting. Pictures can be displayed for 1.5 s (**1.5 SEC**), 3 s (**3 SEC**), or until the **MENU/OK** button is pressed (**ZOOM (CONTINUOUS)**). If **ZOOM (CONTINUOUS)** is selected, photos can be zoomed in to check focus and other fine details (see page 56). Note that **ZOOM (CONTINUOUS)** is disabled in continuous shooting (pg. 43) and  mode, and that the colors displayed at settings of **1.5 SEC** and **3 SEC** may differ from those in the final picture.

Note

Pictures taken in continuous shooting are always displayed after shooting.

FRAME NO.

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



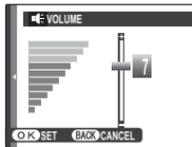
- **CONTINUOUS:** Numbering continues from the last file number used or the first available file number, whichever is higher. Choose this option to reduce the number of pictures with duplicate file names.
- **RENEW:** Numbering is reset to 0001 after formatting or when a new memory card is inserted.

Notes

- If the frame number reaches 999-9999, the shutter release will be disabled (pg. 126).
- Selecting **RESET** (pg. 105) resets **FRAME NO.** to **CONTINUOUS** but does not reset frame numbering.
- Frame numbers for pictures taken with other cameras may differ.

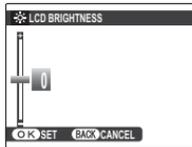
PLAYBACK VOLUME

Press the selector up or down to choose volume for movie and voice memo playback and press **MENU/OK** to select.



LCD BRIGHTNESS

Press the selector up or down to choose display brightness and press **MENU/OK** to select.



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 regardless of the option selected, the camera will not turn off automatically when connected to a printer (pg. 71) or computer (pg. 80) or when a slide show is in progress (pg. 94).

Tip: Reactivating the Camera

To reactivate the camera after it has turned off automatically, turn the **ON/OFF** switch to **OFF** and then back to **ON** (pg. 13).

RAW RAW

Choose whether to record raw, unprocessed image data directly from the image sensor. Select **RAW+JPG** to record both RAW and JPEG copies of all photographs taken, **RAW** to record only RAW data, or **OFF** to record pictures in JPEG format only.

Caution

The following playback options are not available when **RAW** is selected: red-eye removal, cropping, resize, and playback zoom ratios of over 2.5x.

Note

RAW images can be viewed on a computer using the RAW File Converter application installed together with the software on the supplied CD.

FOCUS CHECK

If **ON** is selected, the center of frame will be magnified in the display to assist focus when the focus ring is rotated in manual focus mode (pg. 51).

The view through the lens is restored when the shutter button is pressed or if no operations are performed for a set period.

Caution

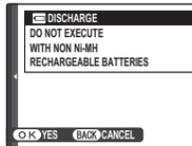
The camera must be in manual focus mode.



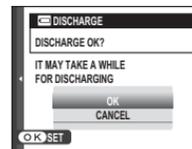
DISCHARGE (Ni-MH Batteries Only)

The capacity of rechargeable Ni-MH batteries may be temporarily reduced when new, after long periods of disuse, or if they are repeatedly recharged before being fully discharged. Capacity can be increased by repeatedly discharging the batteries using the  **DISCHARGE** option and recharging them in a battery charger (sold separately). Do not use  **DISCHARGE** with non-rechargeable batteries, and note that the batteries will not discharge if the camera is powered by an optional AC adapter and DC coupler.

- 1 Selecting  **DISCHARGE** displays the message shown above. Press **MENU/OK**.



- 2 Press the selector up or down to highlight **OK**.

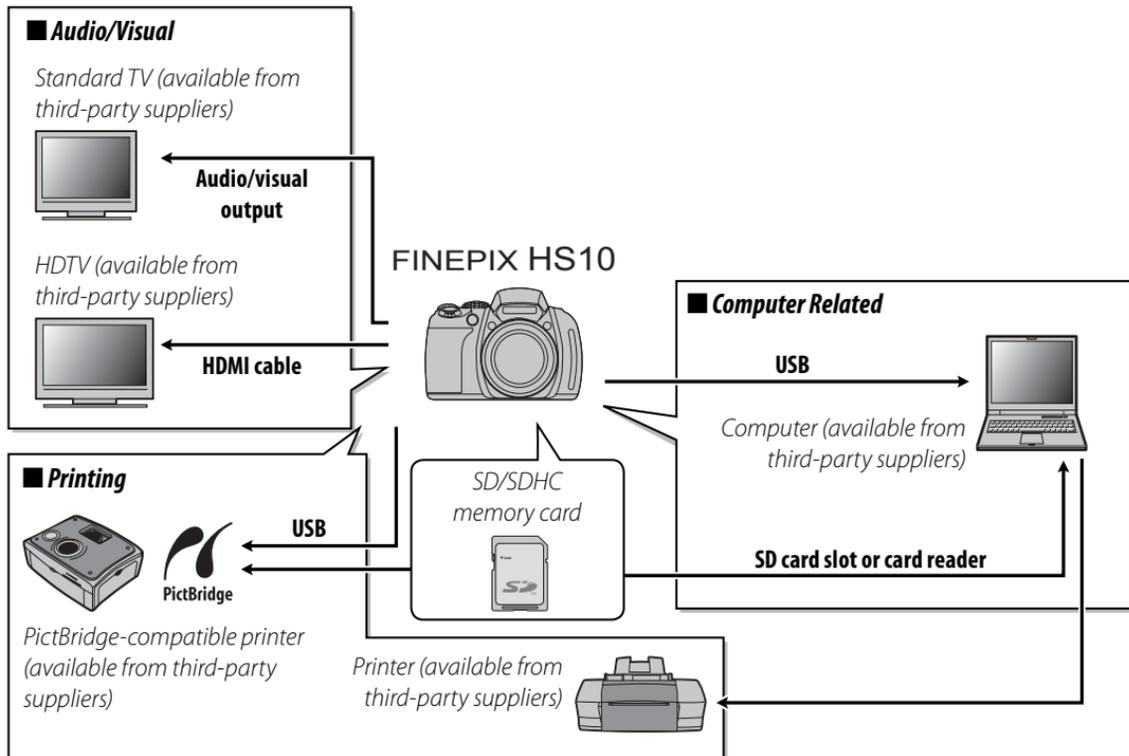


- 3 Press **MENU/OK** to begin discharging the batteries. When the batteries are fully discharged, the battery level indicator will blink red and the camera will turn off. To cancel the process before the batteries are fully discharged, press **DISP/BACK**.



Optional Accessories

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



Accessories from FUJIFILM

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

AC power adapters	AC-5VX (requires CP-04 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-04	Connect the AC-5VX to the camera.	

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 batteries 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.

Cleaning

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

Traveling

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

Troubleshooting

Power and Battery

Problem	Possible cause	Solution	Page
The camera does not turn on.	The batteries are exhausted.	Insert fresh or fully-charged spare batteries.	8
	The batteries are not in the correct orientation.	Re-insert the batteries in the correct orientation.	8
	The battery-chamber cover is not latched.	Latch the battery-chamber cover.	9
	The AC power adapter and DC coupler are not connected properly.	Make sure that the AC power adapter and DC coupler are properly connected.	—
	The batteries and the AC power adapter have been disconnected for some time.	After inserting batteries or connecting the AC power adapter, wait a few seconds before turning the camera on.	—
The batteries run down quickly.	The batteries are cold.	Warm the batteries by placing them in a pocket or other warm place and re-insert them in the camera immediately before taking a picture.	vi
	There is dirt on the battery terminals.	Clean the terminals with a soft, dry cloth.	—
	The camera is in SR/AUTO mode.	Select another shooting mode.	21
	The batteries are new, have been left unused for an extended period, or have been recharged without first being fully discharged (rechargeable Ni-MH batteries only).	Discharge Ni-MH batteries using the  DISCHARGE option and recharge them in a battery charger (sold separately). If the batteries do not hold a charge after repeated discharging and recharging, they have reached the end of their service life and must be replaced.	113
	 HIGH-SPEED SHOOTING is on.	Turn  HIGH-SPEED SHOOTING off to reduce the drain on the battery.	91
	 is selected for focus mode.	Select a different focus mode.	51
The camera turns off suddenly.	The batteries are exhausted.	Insert fresh or fully-charged spare batteries.	8
	The AC adapter or DC coupler has been disconnected.	Make sure that the AC adapter and DC coupler are properly connected.	—

Menus and Displays

Problem	Possible cause	Solution	Page
Menus and displays are not in English.	English is not selected for the  言語/LANG.	Select ENGLISH .	105

Shooting

Problem	Possible cause	Solution	Page
Taking pictures	Memory is full.	Insert a new memory card or delete pictures.	11, 61
	Memory is not formatted.	Format the memory card or internal memory.	109
	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.	11
	The batteries are exhausted.	Insert fresh or fully-charged spare batteries.	8
	The camera has turned off automatically.	Turn the camera on.	13
The monitor goes dark after shooting.	The flash has fired.	The monitor may darken while the flash charges. Wait for the flash to charge.	38
Focus	The subject is close to the camera.	Select macro mode.	37
	The subject is far away from the camera.	Cancel macro mode.	
	The subject is not suited to autofocus.	Use focus lock.	34
Close-ups	Macro mode is not available in the current shooting mode.	Choose a different shooting mode.	21

	Problem	Possible cause	Solution	Page
Intelligent Face Detection	Face detection not available.	Intelligent Face Detection is not available in the current shooting mode.	Choose a different shooting mode.	21
	No face is detected.	The subject's face is obscured by sunglasses, a hat, long hair, or other objects.	Remove the obstructions.	88
		The subject's face occupies only a small area of the frame.	Change the composition so that the subject's face occupies a larger area of the frame.	
		The subject's head is at an angle or the subject is not facing the camera.	Ask the subject to face the camera and hold their head straight.	
		The camera is tilted.	Hold the camera straight.	16
		The subject's face is poorly lit.	Shoot in bright light.	—
	Wrong subject selected.	The selected subject is closer to the center of the frame than the main subject.	Recompose the picture or turn face detection off and frame the picture using focus lock.	34, 88
Flash	The flash does not fire.	The flash is charging.	Wait for the flash to charge.	38
		The flash is not available in the current shooting mode.	Choose a different shooting mode.	21
		The flash is not raised.	Raise the flash.	38
		The camera is in super macro (M) mode.	Choose a different mode.	21, 37
		The batteries are exhausted.	Insert fresh or fully-charged spare batteries.	8
		An option other than OFF is selected for continuous shooting.	Turn continuous shooting off.	43
	Flash mode not available.	The camera is in silent mode.	Turn silent mode off.	18
		The desired flash mode is not available in the current shooting mode.	Choose a different shooting mode.	21
	The flash does not fully light the subject.	The camera is in silent mode.	Turn silent mode off.	18
		The subject is not in range of the flash.	Position the subject in range of the flash.	131
The flash window is obstructed.		Hold the camera correctly.	16	
	Fast shutter speed selected.	Choose a slower shutter speed.	30	

	Problem	Possible cause	Solution	Page
Problem images	Pictures are blurred.	The lens is dirty.	Clean the lens.	116
		The lens is blocked.	Keep objects away from the lens.	16
		!AF is displayed during shooting and the focus frame is displayed in red.	Check focus before shooting.	18
		☼ is displayed during shooting.	Use the flash or a tripod.	38
	Pictures are mottled.	Slow shutter speed selected and the subject is poorly lit.	Choose a faster shutter speed.	30
	Noise appears in pictures. A temperature warning is displayed.	Slow shutter speed selected at high temperatures.	This is normal and does not indicate a malfunction.	—
Recording	Pictures are not recorded.	Power was interrupted during shooting.	Turn the camera off before connecting the AC power adapter/DC coupler. Leaving the camera on can result in corrupted files or damage to the memory card or internal memory.	—

Playback

	Problem	Possible cause	Solution	Page
Pictures	The camera monitor remains blank.	The camera is connected to a TV.	Disconnect the camera from the TV.	69
	Pictures are grainy.	The pictures were taken with a different make or model of camera.	—	—
	Playback zoom unavailable.	The picture has been resized or cropped to 640 or is from another make or model of camera.	—	56
Audio	No sound in voice memo and movie playback.	Playback volume is too low.	Adjust playback volume.	111
		The microphone was obstructed.	Hold the camera correctly during recording.	64, 101
		The speaker is obstructed.	Hold the camera correctly during playback.	66, 102
Deletion	Selected pictures are not deleted.	Some of the pictures selected for deletion are protected.	Remove protection using the device with which it was originally applied.	96
Frame no.	File numbering is unexpectedly reset.	The battery-chamber cover was opened while the camera was on.	Turn the camera off before opening the battery-chamber cover.	13

Connections

	Problem	Possible cause	Solution	Page
TV	No picture or sound.	The camera is not properly connected.	Connect the camera correctly.	69
		An A/V cable was connected during movie playback.	Connect the camera once movie playback has ended.	66, 69
		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  VIDEO SYSTEM setting to the TV.	107
	The volume on the television is too low.	Adjust the volume.	—	
No color.	The camera is not set to the correct video standard.	Match the camera  VIDEO SYSTEM setting to the TV.	107	
Computer	The computer does not recognize the camera.	The camera is not properly connected.	Connect the camera correctly.	80
PictBridge	Pictures can not be printed.	The camera is not properly connected.	Connect the camera correctly.	71
		The printer is off.	Turn the printer on.	—
	Only one copy is printed. The date is not printed.	The printer is not PictBridge-compatible.	—	—

Miscellaneous

Problem	Possible cause	Solution	Page
The camera is unresponsive.	Temporary camera malfunction.	Remove and reinsert the batteries or disconnect and reconnect the AC power adapter/DC coupler.	8
	The batteries are exhausted.	Insert fresh or fully-charged spare batteries.	8
The camera does not function as expected.	Temporary camera malfunction.	Remove and reinsert the batteries or disconnect and reconnect the AC power adapter/DC coupler. If the problem persists, contact your FUJIFILM dealer.	8
The camera is silent.	The camera is in silent mode.	Turn silent mode off.	18
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 100–240V. Consult your travel agent for information on plug adapters.	—

Warning Messages and Displays

The following warnings are displayed in the monitor:

Warning	Description	Solution
 (red)	The batteries are low.	Insert fresh or fully-charged spare batteries.
 (blinks red)	The batteries are exhausted.	
	Slow shutter speed. Picture may be blurred.	Use the flash or mount the camera on a tripod.
!AF (displayed in red with red focus frame)	The camera can not focus.	<ul style="list-style-type: none"> • Use focus lock to focus on another subject at the same distance, then recompose the picture (pg. 34). • If the subject is poorly lit, try focusing at a distance of about 2 m (6.6 ft.). • Use macro mode to focus when taking close-ups.
Aperture or shutter speed shown in red	The subject is too bright or too dark. The picture will be over- or under-exposed.	If the subject is dark, use the flash.
FOCUS ERROR	Camera malfunction.	Turn the camera off and then on again, taking care not to touch the lens. If the message persists, contact a FUJIFILM dealer.
TURN OFF THE CAMERA AND TURN ON AGAIN		
LENS CONTROL ERROR		
NO CARD	No memory card inserted when  COPY is selected in the playback menu.	Insert a memory card.
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  FORMAT option in the camera setup menu (pg. 109).
	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 109). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.

Warning	Description	Solution
CARD ERROR	The memory card is not formatted for use in the camera.	Format the memory card (pg. 109).
	The memory card contacts require cleaning or the memory card is damaged.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 109). If the message persists, replace the memory card.
	Incompatible memory card.	Use a compatible memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.
 MEMORY FULL	The memory card or internal memory is full; pictures can not be recorded or copied.	Delete pictures or insert a memory card with more free space.
 MEMORY FULL		
INTERNAL MEMORY IS FULL INSERT A NEW CARD		
WRITE ERROR	Memory card error or connection error.	Re-insert the memory card or turn the camera off and then on again. If the message persists, contact a FUJIFILM dealer.
	Not enough memory remaining to record additional pictures.	Delete pictures 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 (pg. 109).
PROTECTED CARD	The memory card is locked.	Unlock the memory card (pg. 10).
BUSY	The memory card is incorrectly formatted.	Use the camera to format the memory card (pg. 109).

Warning	Description	Solution
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 the  FRAME NO. option in the SET-UP menu. Take a picture to reset frame numbering to 100-0001, then return to the  FRAME NO. menu and select CONTINUOUS .
READ ERROR	The file is corrupt or was not created with the camera.	The file can not be played back.
	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 109). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.
TOO MANY FRAMES	An attempt was made to search more than 30,000 images.	The maximum number of images on which searches can be performed is 30,000.
PROTECTED FRAME	An attempt was made to delete, rotate, or add a voice memo to a protected picture.	Remove protection before deleting, rotating, or adding voice memos to pictures (pg. 96).
 ERROR	Voice memo file is corrupt.	The voice memo can not be played back.
	Camera malfunction.	Contact a FUJIFILM dealer.
 NO IMAGE	The source device selected in the playback  COPY menu contains no pictures.	Select a different source.
 NO IMAGE		
CAN NOT CROP	The picture selected for cropping is damaged or was not created with the camera.	—
DPOF FILE ERROR	The DPOF print order on the current memory card contains more than 999 images.	Copy the pictures to another memory card and create a new print order.

Warning	Description	Solution
CAN NOT SET DPOF	The picture can not be printed using DPOF.	—
 CAN NOT SET DPOF	Movies can not be printed using DPOF.	—
CAN NOT ROTATE	The picture 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 or movie.	—
 CANNOT EXECUTE		
PRESS AND HOLD THE DISP BUTTON TO DEACTIVATE SILENT MODE	An attempt was made to adjust the volume with the camera in silent mode.	Exit silent mode before adjusting the volume.
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?		Check printer (see printer manual for details). If printing does not resume automatically, press MENU/OK to resume.
CAN NOT 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 was 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.

Glossary

DPOF (Digital Print Order Format): 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.



EV (Exposure Value): The exposure value is determined by the sensitivity of the image sensor and the amount of light that enters the camera while the image sensor is exposed. Each time the amount of light doubles, EV increases by one; each time the amount of light is halved, EV decreases by one. The amount of light entering the camera can be controlled by adjusting aperture and shutter speed.

Exif Print: A standard for storing information with pictures for optimal color reproduction during printing.

HDMI (High-Definition Multimedia Interface): An interface standard for the transmission of images and sound that adds audio input to the DVI interface used to connect computers to displays.

JPEG (Joint Photographic Experts Group): A compressed file format for color images. The higher the compression rate, the greater the loss of information and more noticeable drop in quality when the picture is displayed.

MOV: A movie file format (extension “.mov”) developed by Apple, Inc., and viewed using QuickTime Player. This format is popular on the Internet.

WAV (Waveform Audio Format): A standard Windows audio file format. WAV files have the extension “*.WAV” and may be compressed or uncompressed. The camera uses uncompressed WAV. WAV files can be played using Windows Media Player or QuickTime 3.0 or later.

White balance: The human brain automatically adapts to changes in the color of light, with the result that objects that appear white under one light source still appear white when the color of the light source changes. Digital cameras can mimic this adjustment by processing images according to the color of the light source. This process is known as “white balance.”

Internal Memory/Memory Card Capacity

The following table shows the recording time or number of pictures available at different image sizes. All figures are approximate; file size varies with the scene recorded, producing wide variations in the number of files that can be stored. The number of exposures or length remaining may not diminish at an even rate. A limited number of test pictures can be taken when no memory card is inserted.

	📷 IMAGE SIZE (photographs)				🎥 MOVIE QUALITY (NORMAL MOVIE)				🚀 HS MOVIE SPEED (HIGH SPEED MOVIE) ⁴				
	L ¹	M ¹	S ¹	RAW	HD ²	HD ²	640 ³	320 ³	1000	480	240	120	60
Internal memory (approx. 46 MB)	19	37	58	3	28 sec.	36 sec.	84 sec.	173 sec.	38 sec.				
1 GB	390	750	1180	60	9 min.	12 min.	28 min.	60 min.	13 min.				
2 GB	790	1550	2380	120	19 min.	25 min.	58 min.	123 min.	26 min.				
4 GB	1590	3100	4770	250	39 min.	50 min.	117 min.	246 min.	52 min.				
8 GB	3190	6220	9570	510	78 min.	101 min.	235 min.	494 min.	106 min.				
16 GB	6400	12480	19200	1020	157 min.	202 min.	472 min.	991 min.	212 min.				

1 **NORMAL** image quality, aspect ratio 4:3.

2 Individual movies can not exceed 29 minutes in length.

3 Individual movies can not exceed 4 GB in size.

4 Individual movies can not exceed 30 seconds in length.

Specifications

System	
Model	FinePix Digital Camera HS10
Effective pixels	10 million
Image sensor	½.3-in. BSI (backside illumination) CMOS primary color filter
Storage media	• Internal memory (approx. 46 MB) • SD/SDHC memory cards (see page 10)
File system	Compliant with Design Rule for Camera File System (DCF), Exif 2.2, and Digital Print Order Format (DPOF)
File format	• Still pictures: Exif 2.2 JPEG (compressed); RAW (original RAF format, special-purpose software required); RAW+JPG available • Movies: H.264 standard with stereo sound (MOV) • Audio: monaural WAV
Image size (pixels, file size)	• L 4:3: 3,648 × 2,736 (10 M) • L 3:2: 3,648 × 2,432 (9 M) • L 16:9: 3,648 × 2,056 (7 M) • M 4:3: 2,592 × 1,944 (5 M) • M 3:2: 2,592 × 1,728 (4 M) • M 16:9: 2,592 × 1,440 (4 M) • S 4:3: 2,048 × 1,536 (3 M) • S 3:2: 2,048 × 1,360 (3 M) • S 16:9: 1,920 × 1,080 (2 M)
Lens	Fujinon 30× optical zoom lens, F2.8 (wide angle) – 5.6 (telephoto)
Focal length	f=4.2 mm–126 mm (35-mm format equivalent: 24 mm–720 mm)
Aperture	F2.8–F11 (wide angle)/F5.6–F11 (telephoto) in increments of ⅓EV; can be set manually or automatically
Focus range (distance from front of lens)	• Approx. 50 cm (1.6 ft.)–infinity (wide angle); 3 m (9.8 ft.)–infinity (telephoto) • High-speed Shooting: approx. 2 m (6.6 ft.)–infinity (wide angle); 5 m (16.4 ft.)–infinity (telephoto) • Macro: approx. 10 cm–3 m/0.3 ft.–9.8 ft. (wide angle); 2 m–5 m/6.6 ft.–16.4 ft. (telephoto) • Super macro: approx. 1 cm–1 m/0.4 in.–3.3 ft.
Sensitivity	Standard output sensitivity equivalent to ISO 100, 200, 400, 800, 1600, 3200, 6400; AUTO, AUTO (400), AUTO (800), AUTO (1600), AUTO (3200)
Metering	256-segment through-the-lens (TTL) metering; MULTI, SPOT, AVERAGE
Exposure control	Programmed AE (with program shift); shutter-priority AE; aperture-priority AE; manual exposure
Exposure compensation	–2EV – +2EV in increments of ⅓EV (P, S, A, and C modes)

System	
Scene modes	(NATURAL & LIGHT), (NATURAL LIGHT), (PORTRAIT), (PORTRAIT ENHANCER), (LANDSCAPE), (SPORT), (NIGHT), (NIGHT (TRIPOD)), (FIREWORKS), (SUNSET), (SNOW), (BEACH), (PARTY), (FLOWER), (TEXT)
Picture stabilization	Optical stabilization (image sensor shift)
Intelligent Face Detection	Available
Shutter speed (combined mechanical and electronic shutter)	<ul style="list-style-type: none"> • : 1/8 s–1/1,000 s • : 4 s–1/1,000 s • : 4 s–1/2 s • P, S, A: 4 s–1/4,000 s • M: 30 s–1/4,000 s • Other modes: 1/4 s–1/4,000 s
Continuous	<ul style="list-style-type: none"> • : max. 7 frames (max. 5 frames when RAW+JPG is selected for RAW RAW; max. 6 frames when RAW is selected); frame rate can be selected from 10, 7, 5, and 3 fps • : 7 frames (5 frames when RAW+JPG is selected for RAW RAW; 6 frames when RAW is selected); frame rate can be selected from 10, 7, 5, and 3 fps • : 3 frames (one size L at current zoom ratio, one size M at 1.4× zoom, and one size S at 2× zoom) • : 3 frames (selected exposure, overexposure, underexposure)
Focus	<ul style="list-style-type: none"> • Mode: Single AF, continuous AF, manual focus with one-press AF • Focus-area selection: Center, multi, area, tracking • Autofocus system: Contrast-detect TTL AF with AF-assist illuminator
White balance	Automatic scene detection; six manual preset modes for direct sunlight, shade, daylight fluorescent, warm white fluorescent, cool white fluorescent, and incandescent lighting; custom white balance
Self-timer	Off, 2 sec., 10 sec.
Flash	Manual pop-up flash; effective range when sensitivity is set to AUTO is approx. 30 cm–8.0 m/1 ft.–26.2 ft. (wide angle), 2.0 m–4.0 m/6.6 ft.–13.1 ft. (telephoto)
Flash modes	Auto, fill flash, off, slow sync (red-eye removal off); auto with red-eye reduction, fill flash with red-eye reduction, off, slow sync with red-eye reduction (red-eye removal on)
Electronic viewfinder (EVF)	0.2-in., 200k-dot color LCD viewfinder; frame coverage approx. 97%
Monitor	3.0-in., 230k-dot color LCD monitor; frame coverage approx. 97%

System	
Movies	<ul style="list-style-type: none">• Normal movie: FHD (1,920×1,080) / HD (1,280×720) / 640i (640×480) / 320i (320×240); stereo sound; frame rate 30 fps• High speed movie: 1000 fps (224×64) / 480 fps (224×168) / 240 fps (442×332) / 120 fps (640×480) / 60 fps (960×720); no sound
Shooting options	Instant zoom, dynamic range, Intelligent Face Detection with red-eye removal, framing guides, frame number memory, FINEPIX color, high-speed shooting, and histogram display
Playback options	Intelligent Face Detection, red-eye removal, micro thumbnail, multi-frame playback, trimming, resize, slide show, image rotation, voice memo, histogram display, and exposure warning
Other options	PictBridge, Exif Print, language selection (Arabic, Simplified Chinese, Traditional Chinese, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Lithuanian, Norwegian, Polish, Portuguese, Russian, Slovak, Spanish, Swedish, Thai, Turkish, and Ukrainian), time difference, silent mode
Input/output terminals	
A/V OUT (audio/video output)	NTSC or PAL output with monaural sound
HDMI output	HDMI mini connector
Digital input/output	USB 2.0 High Speed; shares A/V OUT connector

Power supply/other**Power supply**

- AA alkaline batteries (x4)
- AA lithium batteries (x4; available from third-party suppliers)
- AA rechargeable nickel-metal hydride (Ni-MH) batteries (x4; available from third-party suppliers)
- AC-5VX AC power adapter and CP-04 DC coupler (sold separately)

Battery life (approximate number of frames that can be taken with fresh or fully charged batteries)

Battery type	Approximate number of frames
Alkaline (type supplied with camera)	300
Ni-MH	400
Lithium	700

CIPA standard, measured using SD memory card.

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

Camera dimensions

130.6 mm x 90.7 mm x 126.0 mm / 5.1 in. x 3.6 in. x 5.0 in. (W x H x D, excluding projections)

Camera weight

Approx. 636 g / 22.4 oz. (excluding batteries, accessories, and memory cards)

Shooting weight

Approx. 730 g / 25.7 oz. (including batteries and memory card)

Operating conditions

• **Temperature:** 0°C to +40°C / +32°F to +104°F • **Humidity:** 80% or less (no condensation)

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

Color Television Systems

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

Notices

- Specifications subject to change without notice. FUJIFILM shall not be held liable for damages resulting from errors in this manual.
- Although the 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 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 Corporation

7-3, AKASAKA 9-CHOME, MINATO-KU, TOKYO 107-0052, JAPAN

<http://www.fujifilm.com/products/index.html>