

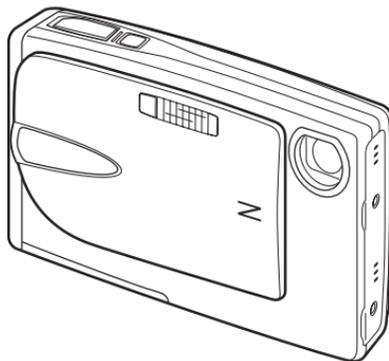
FUJIFILM

DIGITAL CAMERA

FINEPIX Z20 *fd*

Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM FinePix Z20fd 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/index.htm>



BL00708-700(1) **E**

Before You Begin

First Steps

Basic Photography and Playback

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IMPORTANT SAFETY INSTRUCTIONS

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

Installation

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

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

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

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

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

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

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

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

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

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

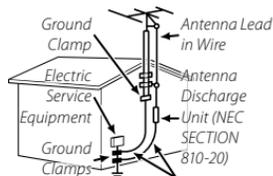
An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Antennas

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

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



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

Grounding Conductors (NEC SECTION 810-21)

Power Lines: An outside antenna system should not be located in the vicinity of overhead power lines or

other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Use

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

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

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

Service

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

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

- When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the video product.
 - If the video product has been exposed to rain or water.
 - If the video product has been dropped or the cabinet has been damaged.
- If the video product does not operate normally follow the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.

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

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

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

Be sure to read these notes before use

Safety Notes

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

About the Icons

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



WARNING

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



CAUTION

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

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



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



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



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

WARNING



Unplug from power socket

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.



Do not allow water or foreign objects to enter the camera. If water or foreign objects get inside the camera, turn the camera off, remove the battery and disconnect and unplug the AC power adapter. Continued use of the camera can cause a fire or electric shock. Contact your FUJIFILM dealer.

! WARNING

Do not use in the bathroom or shower

Do not use the camera in the bathroom or shower. This can cause a fire or electric shock.



Do not disassemble

Never attempt to change or take apart the camera. (Never open the 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 shown by the indicator.



Do not heat, change or take apart the battery. Do not drop or subject the battery to impacts. Do not store the battery with metallic products. 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.



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



Do not use the charger to charge batteries other than those specified here. The supplied BC-45 battery charger is for use with FUJIFILM NP-45 rechargeable batteries only. 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.

! WARNING

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.



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 two years. Please note that this service is not free of charge.

The Battery and Power Supply

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

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

Notes on the Battery

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

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

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

Charging the Battery

Charge the battery in the supplied battery charger (pg. 4). Charging times will increase at ambient temperatures below +10°C (+50°F) or above +35°C (+95°F). Do not attempt to charge the battery at temperatures above 40°C (+104°F); at temperatures below 0°C (+32°F), the battery will not charge.

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

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

Battery Life

About 300 shots can be taken with a fully-charged battery at room temperature. A noticeable decrease in the length of time the battery will hold a charge indicates that it has reached the end of its service life and should be replaced.

Storage

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

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

Cautions: Handling the Battery

- Do not transport or store with metal objects such as necklaces or hairpins.
- Do not expose to flame or heat.
- Do not disassemble or modify.
- Use with designated chargers only.
- Dispose of used batteries promptly.

- Do not drop or subject to strong physical shocks.
- Do not expose to water.
- Keep the terminals clean.
- The battery and camera body may become warm to the touch after extended use. This is normal. Use the AC adapter to power the camera for extended periods.

AC Adapters (Available Separately)

Use only FUJIFILM AC adapters designated for use with this camera. Other adapters could damage the camera.

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

Using the Camera

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

Electrical Interference

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

Liquid Crystal

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

- **If liquid crystal comes in contact with your skin**, clean the area with a cloth and then wash thoroughly with soap and running water.
- **If liquid crystal enters your eyes**, flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- **If liquid crystal is swallowed**, rinse your mouth thoroughly with water. Drink large quantities of water and induce vomiting, then seek medical assistance.

Take Test Shots

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

NOTICES

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

Please read the "Safety Notes" (pages iii-iv) and make sure you understand them before using the camera.

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

For Customers in the U.S.A.

Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

FCC Statement

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

CAUTION

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

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

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

Notes on the Grant

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

For Customers in Canada

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

EC Declaration of Conformity

We

Name: FUJIFILM Electronic Imaging Europe GmbH
Address: Benzstrasse 2
47533 Kleve, Germany

declare that the product

Product Name: FUJIFILM DIGITAL CAMERA FinePix Z20fd
Manufacturer's Name: FUJIFILM Corporation
Manufacturer's Address: 7-3, AKASAKA 9-CHOME, MINATO-KU, TOKYO,
107-0052 JAPAN

conforms to the following Standards:

Safety: EN60065:2002 + A1
EMC: EN55022:1998 + A1:2000 + A2:2003 Class B
EN55024:1998 + A1:2001 + A2:2003
EN61000-3-2:2000 + A2:2005
EN61000-3-3:1995 + A1:2001 + A2:2003

following the provision of the EMC Directive (2004/108/EC) and Low Voltage Directive (2006/95/EC).



Kleve, Germany September 1, 2007

Place

Date

Signature, Managing Director



This product comes with batteries. When these are empty, you shouldn't throw them away but deliver them as domestic chemical refuse.

Disposal of Electrical and Electronic Equipment in Private Households**Disposal of Used Electrical and Electronic Equipment (Applicable in the European Union and Other European Countries with Separate Collection Systems)**

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



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

If your equipment contains easy removable batteries or accumulators please dispose these separately according to your local requirements. The recycling of materials will help to conserve natural resources. For more detailed information about recycling this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

In Countries Outside the EU:

If you wish to discard this product, please contact your local authorities and ask for the correct way of disposal.

Notes on Copyright

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

Trademark Information

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Note: The "Designed for Microsoft® Windows® XP" logo applies only to the camera and camera hardware driver.

About This Manual

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

✓ **Camera Q & Apg. ix**

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

✓ **Troubleshootingpg. 94**

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

✓ **Glossarypg. 105**

The meanings of some technical terms may be found here.

✓ **Table of Contentspg. xii**

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

✓ **Warning Messages and Displayspg. 101**

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

 **Memory Cards**

Pictures can be stored in the camera's internal memory or on optional *xD-Picture Cards* and SD and SDHC memory cards. In this manual, both *xD-Picture Cards* and SD memory cards are referred to as "memory cards." For more information, see page 8.

Camera Q & A

Find items by task.

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IMPORTANT NOTICE: Read Before Using the Software

BEFORE OPENING THE CD-ROM PROVIDED BY FUJIFILM CORPORATION, PLEASE READ THIS END USER LICENSE AGREEMENT CAREFULLY. YOU SHOULD USE THE SOFTWARE ON THE CD-ROM ONLY IF YOU CONSENT TO THIS AGREEMENT. BY OPENING THE PACKAGE, YOU ACCEPT AND AGREE TO BE BOUND BY THIS AGREEMENT.

End User License Agreement

This End User License Agreement ("Agreement") is an agreement between FUJIFILM Corporation ("FUJIFILM") and you, which sets forth the terms and conditions of the license granted for you to use the software provided by FUJIFILM.

The CD-ROM contains third-party software. In case a separate agreement is provided by a third party supplier for its software, the provisions of such separate agreement shall apply to the use of such third party software, prevailing over those of this Agreement.

1. Definitions.

- (a) "Media" means the CD-ROM titled "Software for FinePix" which is provided to you together with this Agreement.
- (b) "Software" means the software which is recorded on Media.
- (c) "Documentation" means the operation manuals of Software and other related written materials which are provided to you together with Media.
- (d) "Product" means Media (including Software) and Documentation collectively.

2. Use of Software.

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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:



NP-45 rechargeable
battery



BC-45 battery charger
with power cable



A/V cable



USB cable



FinePix software CD
**(IMPORTANT: read
license agreement
on page xiv before
opening)**



Strap

Attaching the Strap

Attach the strap as shown.

1



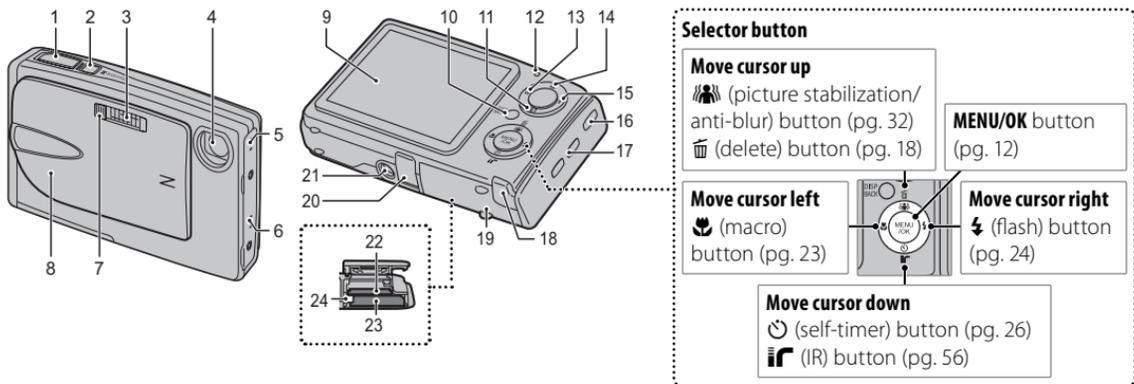
2



- Owner's Manual CD (contains this manual)
- Basic Manual

Parts of the Camera

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

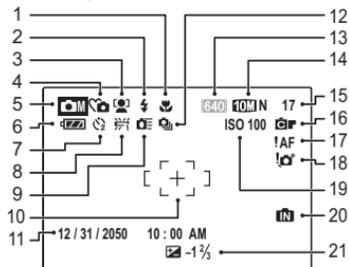


1	Shutter button.....	17	10	DISP (display)/BACK button.....	16, 34	18	DC coupler cable cover.....	92
2	(movie recording) button.....	40	11	(silent mode) button.....	25	19	Battery-chamber cover.....	6
3	Flash.....	24	12	(playback) button.....	34	20	Connector for multi-connector adapter.....	44
4	Lens		13	Indicator lamp.....	17	21	Tripod mount	
5	Speaker.....	80	14	W (zoom out) button.....	15, 36	22	Memory card slot.....	9
6	Microphone.....	79	15	(Intelligent Face Detection) button.....	19	23	Battery chamber.....	6
7	Shooting indicator.....	85	16	T (zoom in) button.....	15, 35	24	Battery latch.....	6
	Self-timer lamp.....	27	17	Infrared port.....	57			
8	On/off switch and lens cover.....	11		Strap eyelet.....	1			
9	Monitor.....	3						

The Monitor

The following indicators may appear in the monitor during shooting and playback:

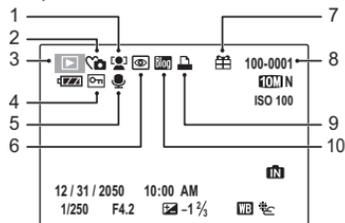
Shooting



1	Macro (close-up) mode.....	23	12	Continuous mode.....	66
2	Flash mode.....	24	13	Movie quality.....	40
3	Intelligent Face Detection indicator.....	19	14	Image quality.....	69
4	Silent mode.....	25	15	Number of exposures remaining.....	107
5	Shooting mode.....	28	16	FinePix COLOR.....	70
6	Battery level.....	14	17	Focus warning.....	16
7	Self timer indicator.....	26	18	Blur warning.....	24
8	White balance.....	69	19	Sensitivity.....	70
9	High speed mode.....	66	20	Internal memory indicator*.....	8
10	Focus frame.....	16	21	Exposure compensation.....	68
11	Date and time.....	12			

* Indicates that no memory card is inserted and that pictures will be stored in the camera's internal memory (pg. 8).

Playback



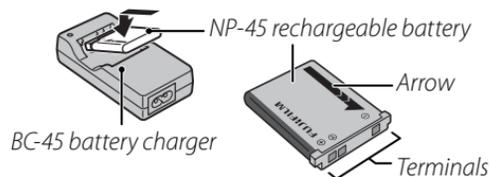
1	Intelligent Face Detection indicator.....	35	6	Red-eye removal indicator.....	20
2	Silent mode indicator.....	25	7	Gift image.....	34
3	Playback mode indicator.....	34	8	Frame number.....	85
4	Protected image.....	75	9	DPOF print indicator.....	49
5	Voice memo indicator.....	79	10	Blog image.....	61

Charging the Battery

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

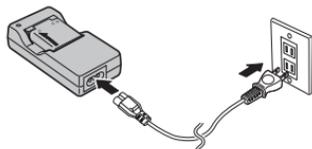
1 Place the battery in the charger.

Insert the battery into the supplied BC-45 battery charger as shown, making sure that the battery is in the correct orientation.



2 Plug the charger in.

Connect the power cable and plug the charger into a power outlet. The red charging indicator will light.



The Charging Indicator

The charging indicator shows battery charge status as follows:

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

3 Charge the battery.

Charging is complete when the charging indicator turns off. A fully exhausted battery takes about 180 minutes to charge.

 **Cautions: Caring for the Battery**

- Do not affix stickers or other objects to the battery. Failure to observe this precaution could make it impossible to remove the battery from the camera.
- Do not short the battery terminals. The battery could overheat.
- Read the cautions on page v.
- Use only NP-45 batteries. Failure to observe this precaution could result in product malfunction.
- Do not remove the labels from the battery or attempt to split or peel the outer casing.
- The battery gradually loses its charge when not in use. Charge the battery one or two days before use.

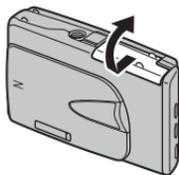
 **Cautions: Using the Battery Charger**

- Unplug the charger when it is not in use.
- Remove dirt from the battery terminals with a clean, dry cloth. Failure to observe this precaution could prevent the battery from charging.
- Charging times increase at low temperatures.

Inserting the Battery

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

1 Open the battery-chamber cover.



Note

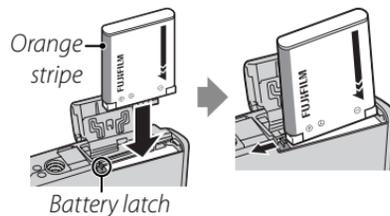
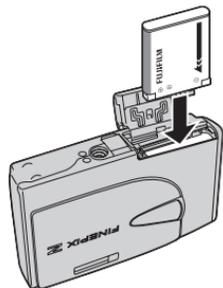
Be sure the camera is off before opening the battery-chamber cover.

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 battery.

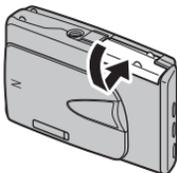
Align the orange stripe on the battery with the orange battery latch and slide the battery into the camera, keeping the battery latch pressed to the side. Confirm that the battery is securely latched.



Caution

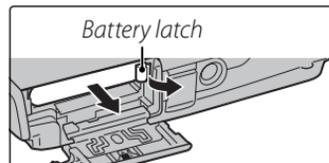
Insert the battery in the correct orientation. **Do not use force or attempt to insert the battery upside down or backwards.** The battery will slide in easily in the correct orientation.

3 Close the battery-chamber cover.



Removing the Battery

After turning the camera off, open the battery-chamber cover, press the battery latch to the side, and slide the battery out of the camera as shown.



Caution

Turn the camera off before removing the battery.

Tip: Using an AC Adapter

The camera can be powered by an optional AC-5VX AC adapter equipped with a CP-45 DC coupler (available separately). See the AC-5VX and CP-45 manuals for details.

Inserting a Memory Card

Although the camera can store pictures in internal memory, optional *xD-Picture Cards* or SD memory cards 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 76). To prevent internal memory from becoming full, be sure to delete pictures when they are no longer needed.

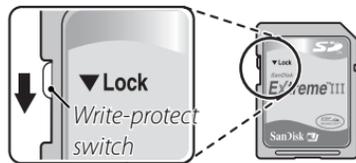
When a memory card is inserted as described below, the card will be used for recording and playback.

■ *Compatible Memory Cards*

xD-Picture Cards and SanDisk SD and SDHC memory cards have been tested and approved for use in the Z20fd. 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 multimedia cards.

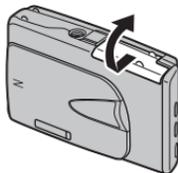
Caution

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.



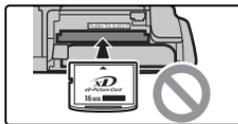
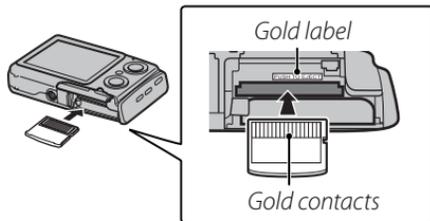
■ Inserting a Memory Card

1 Open the battery-chamber cover.



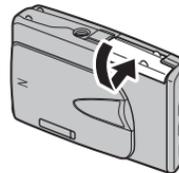
2 Insert the memory card.

Holding the memory card so that the gold contacts face the gold label, slide the memory card all the way in.



Be sure card is in correct orientation; do not insert at an angle or use force. Illustration shows *xD-Picture Card*.

3 Close the battery-chamber cover.



● Removing Memory Cards

Press the card in and then release it slowly. The card can now be removed by hand.

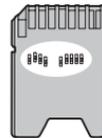


⚠ Cautions

- 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

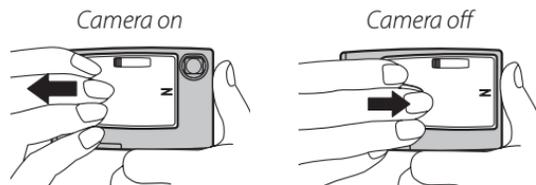
- Format SD memory cards before first use, and be sure to reformat all memory cards after using them in a computer or other device. For more information on formatting memory cards, see page 87.
- Memory cards are small and can be swallowed; keep out of reach of children. If a child swallows a memory card, seek medical assistance immediately.
- Do not use miniSD or microSD adapters that expose the back of the card. Failure to observe this precaution may cause damage or malfunction. 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 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.
- Do not affix labels to memory cards. Peeling labels can cause camera malfunction.
- FUJIFILM **xD-Picture Cards** are recommended. Results can not be guaranteed with **xD-Picture Cards** from other manufacturers. The camera can be used with both type M and type H **xD-Picture Cards**; note, however, that type H cards are not compatible with the optional DPC-UD1 **xD-Picture Card** USB drive. The card type can be determined from the model number: for example, "DPC-M2GB" indicates a type M card.
- Movie recording may be interrupted with some types of SD memory card.
- 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

Shooting Mode

To turn the camera on, open the lens cover fully. The camera turns off when the lens cover is closed.



Tip: Switching to Playback Mode

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

Cautions

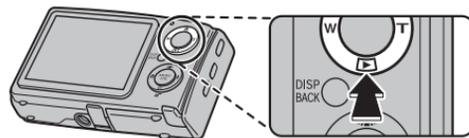
- Pictures can be affected by fingerprints and other marks on the lens. Keep the lens clean.
- Closing the cover does not completely cut power to the camera.

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 (see page 87). To turn the camera on, close and reopen the lens cover or press the  button for about a second.

Playback Mode

If the lens cover is closed, the camera can be turned on in playback mode by pressing the  button for about a second.



If the lens cover is closed, pressing the  button during playback will turn the camera off.

Tip: Switching to Shooting Mode

To exit to shooting mode, open the lens cover fully. Press the  button to return to playback.

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 82).

1 Choose a language.



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



1.2 Press **MENU/OK**.



2 Set the date and time.



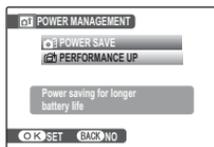
2.1 Press the selector left or right to highlight the year, month, day, hour, or minute and press up or down to change. To change the order in which the year, month, and day are displayed, highlight the date format and press the selector up or down.



2.2 Press **MENU/OK**.



3 Choose power management options.



3.1 Press the selector up or down to highlight one of the following options:



- **POWER SAVE:** Save battery power.
- **PERFORMANCE UP:** Intelligent Face Detection (pg. 19) turns on and **LCD MODE** (pg. 86) is set to **STANDARD** for improved display quality.

3.2 Press **MENU/OK**.



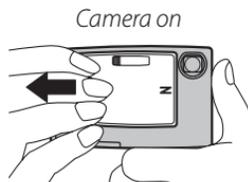
Tip: The Camera Clock

If the battery is removed for an extended period, the camera clock will be reset and the language-selection dialog will be displayed when the camera is turned on. If the battery is left in the camera or an optional AC adapter connected for about ten hours, the battery can be removed for about 24 hours without resetting the clock, language selection, or power management options.

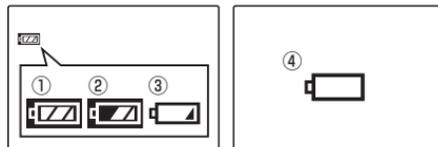
Taking Pictures in AUTO Mode

This section describes how to take pictures in AUTO mode. AUTO mode is automatically selected the first time the camera is turned on; for information on restoring AUTO mode after shooting in other modes, see page 28.

- 1 Turn the camera on.**
Fully open the lens cover.



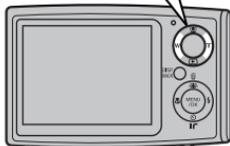
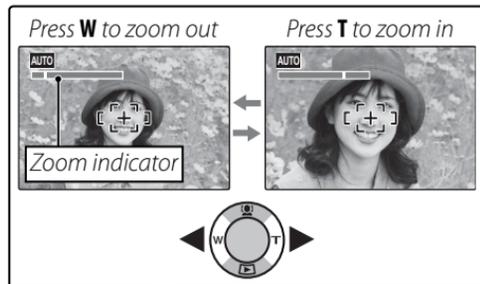
- 2 Check the battery level.**
Check the battery level in the monitor.



Indicator	Description
① (white)	Battery partially discharged.
② (white)	Battery more than half discharged.
③ (red)	Low battery. Charge as soon as possible.
④ (blinks red)	Battery exhausted. Turn camera off and charge battery.

3 Frame the picture.

Position the main subject in the focus area and use the zoom buttons to frame the picture in the monitor.



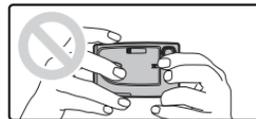
Zoom in up to 3× using optical zoom, or use digital zoom (pg. 86) to zoom in closer.

● 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.

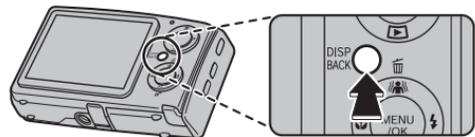


Tip: Focus Lock

Use focus lock (pg. 21) to focus on subjects that are not in the focus frame.

The Framing Grid

To display a framing grid or to view or hide other indicators in the monitor, press the **DISP/BACK** button.



Indicators
displayed



Indicators
hidden

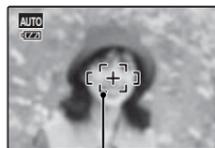


Framing grid
displayed

To use the framing grid, position the main subject at the intersection of two lines or align one of the horizontal lines with the horizon. Use focus lock (pg. 21) to focus on subjects that will not be in the center of the frame in the final photograph.

4 Focus.

Press the shutter button halfway to focus on the main subject in the focus frame.



Focus frame



Camera selects small
focus frame and
focuses on subject

Press
halfway

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, a **!AF** indicator will appear in the monitor, and the indicator lamp will blink green. Change the composition or use focus lock (pg. 21).

Note

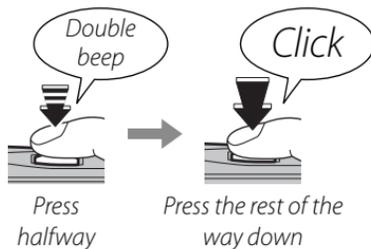
The lens may make a noise when the camera focuses. This is normal.

5 Shoot.

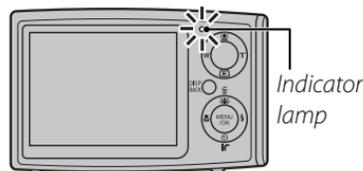
Smoothly press the shutter button the rest of the way down to take the picture.

**Tip: The Shutter Button**

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

**Note**

If the subject is poorly lit, the flash may fire when the picture is taken. To take pictures without the flash, choose another flash mode (pg. 24).

The Indicator Lamp

The indicator lamp shows camera status as follows:

Indicator lamp	Camera status
Glows green	Focus locked.
Blinks green	Camera unable to focus. 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; shutter disabled.
Blinks red	Recording or lens error.

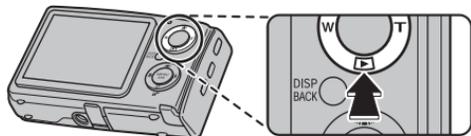
Tip: Warnings

Detailed warnings appear in the monitor. See pages 101–104 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.

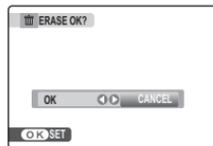
Press the selector right to view pictures in the order recorded, left to view pictures in reverse order.



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, press the selector left to 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. 38).

👤 Intelligent Face Detection and Red-Eye Removal

Intelligent Face Detection allows the camera to automatically detect human faces and set focus and exposure for a face anywhere in the frame for shots that emphasize portrait subjects. Choose for group portraits to prevent the camera from focusing on the background. It can be used in tall and wide orientations and is available in **AUTO**, **N**, **N**, **N**, **C**, **W**, **T**, **OFF**, **Y**, **W**, **W**, **W**, and **W** modes (pp. 28–33). Intelligent Face Detection also offers a red-eye removal option for removing “red-eye” effects caused by the flash.

1 Turn Intelligent Face Detection on.

Press the 👤 button to cycle through settings as shown below.



Option	Description
👤 OFF	Intelligent Face Detection and red-eye removal off.
👤 FACE DETECTION 👁️ REMOVAL ON	Intelligent Face Detection and red-eye removal on. Use with the flash.
👤 FACE DETECTION 👁️ REMOVAL OFF	Intelligent Face Detection on; red-eye removal off.

👉 Note

👤 OFF is not available in 🗨️ mode.

2 Frame the picture.

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.



Green border

3 Focus.

Press the shutter button halfway to set focus and exposure for the subject in the green border.



4 Shoot.

Press the shutter button all the way down to shoot.



If  **FACE DETECTION**  **REMOVAL ON** is selected, the picture will be processed to reduce red-eye before it is recorded.



Intelligent Face Detection

Intelligent Face Detection is recommended when using the self-timer for group portraits or self-portraits (pg. 26).



When a picture taken with Intelligent Face Detection is displayed, the camera can automatically select faces for playback zoom (pg. 35), slide shows (pg. 73), printing (pg. 48), and cropping (pg. 81).

Cautions

- If no face is detected when the shutter-release button is pressed halfway (pg. 96), the camera will focus on the subject at the center of the monitor and red-eye will not be removed. If the camera is unable to detect a face, turn Intelligent Face Detection off and use focus lock (pg. 21).
- If the subject moves as the shutter button is pressed, their face may not be in the area indicated by the green border when the picture is taken.
- In  and  modes, the camera will detect and focus on faces but exposure will be optimized for the entire scene rather than the selected portrait subject.

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 will remain locked while the shutter button is pressed halfway (AF/AE lock).



*Press
halfway*



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

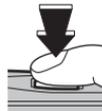
3 Recompose the picture.

Keeping the shutter button pressed halfway, recompose the picture.



4 Shoot.

Press the shutter-release 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. 21) to focus on another subject at the same distance and then recompose the photograph.

- Very shiny subjects such as mirrors or car bodies.



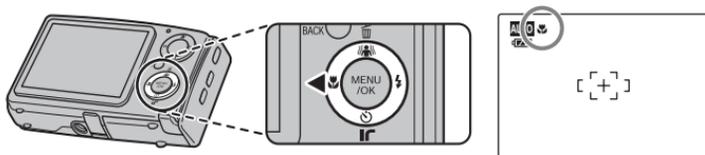
- Fast-moving subjects.



- 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).

Close-ups (Macro Mode)

Macro mode can be used for close-ups in **AUTO**, , , , , , , and  modes (pp. 28–33). To select macro mode, press the selector left ()



 icon appears in monitor when camera is in macro mode

When macro mode is in effect, the camera focuses on subjects near the center of the monitor. Use the zoom buttons to frame pictures.

To exit macro mode, press the selector left () . Macro mode can also be cancelled by turning the camera off or selecting another shooting mode.

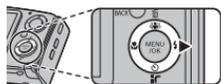
Note

Use of a tripod is recommended to prevent blur caused by camera shake.

⚡ 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.

To choose a flash mode, press the selector right (⏪). The flash mode changes each time the selector is pressed; in modes other than AUTO, the current mode is indicated by an icon in the monitor. Choose from the following options (some options are not available in all shooting modes; see pg. 106):



Mode	Description
AUTO (no icon)	The flash fires when required. Recommended in most situations.
⚡ (fill flash)	The flash fires whenever a picture is taken. Use for backlit subjects or for natural coloration when shooting in bright light.
⊘ (flash off)	The flash does not fire even when the subject is poorly lit.  will appear in the monitor at slow shutter speeds to warn that pictures may be blurred. Use of a tripod is recommended.
⚡ (slow sync)	Capture both the main subject and the background when shooting at night (note that brightly lit scenes may be overexposed). If  is selected for SHOOTING MODE , shutter speed may be as slow as 3 s. Use a tripod.

If the flash will fire,  will be displayed in the monitor when the shutter button is pressed halfway.

Caution

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

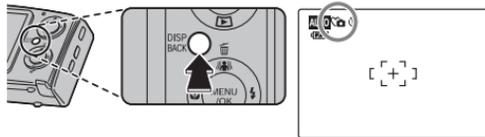
●● Red-Eye Removal

When **REMOVAL ON** is selected for Intelligent Face Detection (pg. 19), red-eye removal (👁) is available in AUTO (👁), fill flash (👁⚡), and slow sync (👁SLOW) 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.



●● 📷 Silent Mode

In situations in which camera sounds or light from the flash may be unwelcome, press the **DISP/BACK** button until 📷 is displayed in the monitor.



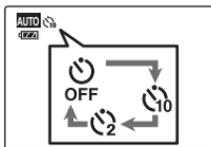
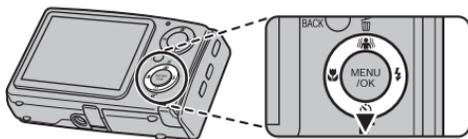
The camera speaker, shooting indicator, flash, and indicator and self-timer lamps turn off (note that the flash will still fire in 👁⚡ mode). Flash and volume settings (pg. 86) can not be adjusted while silent mode is in effect. To restore normal operation, press the **DISP/BACK** button until the 📷 icon is no longer displayed.

🕒 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.

The current self-timer mode is displayed in the monitor. To choose a different setting, press the selector down (🕒). The selection changes each time the selector is pressed.



Choose from 🕒 (self-timer off),
🕒 (10s delay), or 🕒 (2s delay)

2 Focus.

Press the shutter button halfway to focus.

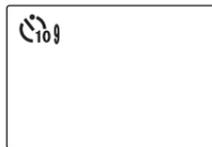
⚠️ Caution

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

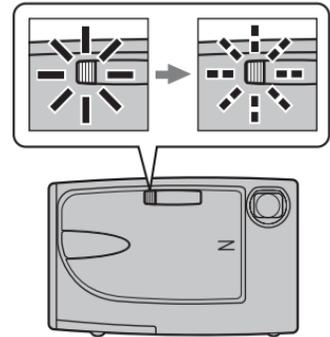


3 Start the timer.

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.



●● Intelligent Face Detection

Because it ensures that the faces of portrait subjects will be in focus, Intelligent Face Detection (pg. 19) is recommended when using the self-timer for group portraits or self-portraits. To use the self-timer with Intelligent Face Detection, 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. Be careful not to move until the picture has been recorded.

👉 Note

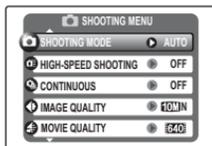
The self-timer turns off automatically when the picture is taken, a different shooting mode is selected, playback mode is selected, or the camera is turned off.

📷 Shooting Mode

Choose a shooting mode according to the scene or type of subject.

Selecting a Shooting Mode

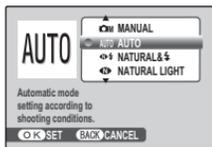
- 1 Press **MENU/OK** to display the shooting menu.



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



- 3 Press the selector right to display shooting mode options.



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



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



Shooting Modes

MANUAL

Choose this mode for complete control of shooting settings, including exposure compensation (pg. 68), white balance (pg. 69), and AF mode (pg. 71).

AUTO AUTO

Choose for crisp, clear snapshots (pg. 14). This mode is recommended in most situations.

Note

In modes other than **AUTO**, **MANUAL**, **AF-ON**, **AF-LOCK**, **AF-ASSIST**, and **AF-ON**, **AF-ON**, **AF-LOCK**, and **AF-ASSIST** can not be selected for the **FinePix COLOR** option in the shooting menu (pg. 70). In modes other than **MANUAL**, **ISO** is fixed at **AUTO** (pg. 70). See page 106 for restrictions on flash mode settings.

NATURAL & (Dual Shot Mode)

This mode helps ensure good results with backlit subjects and in other situations with difficult lighting. Each time the shutter button is pressed, the camera takes two shots: one shot without the flash to preserve natural lighting, followed immediately by a second shot with the flash. Do not move the camera until shooting is complete.



Notes

- Do not use where flash photography is prohibited. The flash fires even in silent mode (pg. 25).
- Only available if memory remains for two pictures.
- Continuous shooting is not available.

NATURAL LIGHT

Capture natural light indoors, under low light, or where the flash can not be used. The flash turns off and sensitivity is raised to reduce blur.



AUCTION MODE

Choose this mode to combine up to four consecutive shots in a single image 640×480 pixels in size (**03M**). This can be used to record an object from different angles when posting pictures to a web auction. To take pictures in auction mode:

- 1 Select  **AUCTION MODE** (pg. 28).
- 2 Press the selector up to display the following layout options:



- 3 Press the selector left or right to highlight an option.



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



5 Take a picture. The picture will appear in the first frame in layout.



6 Press **MENU/OK** to proceed to the next picture. Repeat steps 5 and 6 until all the frames are filled.



Notes

- Can not be used with anti-blur or face detection.
- Not available when the battery is low (🔋).

👤 PORTRAIT

Choose this mode for soft-toned portraits with natural skin tones.



▲ LANDSCAPE

Choose this mode for crisp, clear daylight shots of buildings and landscapes. The flash turns off automatically.



🏃 SPORT

Choose this mode when photographing moving subjects. High-speed shooting mode (Ⓢ) is selected automatically and priority is given to faster shutter speeds.



☾ NIGHT

Shutter speeds as slow as 3s are used to record night and twilight scenes. Use of a tripod is recommended to prevent camera shake.



SUNSET

Choose this mode to record the vivid colors in sunrises and sunsets.



SNOW

Choose for crisp, clear shots that capture the brightness of scenes dominated by shining white snow.



BEACH

Choose for crisp, clear shots that capture the brightness of sunlit beaches.



MUSEUM

Choose where flash photography is prohibited or the sound of the shutter may be unwelcome. The flash, speaker, and shooting indicator turn off automatically.



Note

Photography may be prohibited altogether in some settings. Obtain permission before shooting.

PARTY

Capture indoor background lighting under low-light conditions.



* FLOWER

Choose for vivid close-ups of flowers. The camera focuses in the macro range and the flash turns off automatically.



TEXT TEXT

Take clear pictures of text or drawings in print. The camera focuses in the macro range.



ANTI-BLUR (Picture Stabilization)

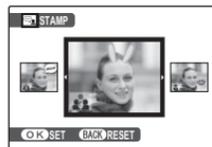
Choose this mode for fast shutter speeds that reduce blur caused by camera shake or subject movement. This mode can also be selected with the  button.

STAMP

Add speech bubbles and other effects (stamps) to the faces of portrait subjects in a picture 640×480 pixels in size (**03M**). To take pictures in  STAMP mode:



- 1 Select  **STAMP** mode (pg. 28).
- 2 Press **MENU/OK** to display a stamp selection dialog.



Tip: Custom Stamps

The stamp selection dialog also includes stamps added using the **ADD NEW STAMP** option in the setup menu (pg. 89).

- 3 Press the selector left or right to highlight a stamp file.



- 4 Press **MENU/OK**. The camera will automatically detect the faces of portrait subjects and display them with the selected template.



Tip: Red-Eye Removal

Intelligent Face Detection (pg. 19) is automatically enabled in stamp mode. Red-eye removal (pg. 20) can be turned on or off by pressing the  button. Turn red-eye removal on when using the flash.

- 5 Press the shutter button halfway to focus and display how the stamp will appear in the final photograph.



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



Notes

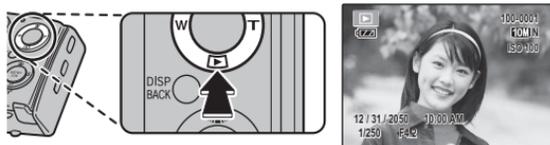
- If no face is detected, pictures will be taken in AUTO mode and no stamps will appear.
- The number of faces affected by the stamp varies with the template selected.
- Stamps are not rotated to match subject or camera orientation.
- Stamps are added to photographs when the pictures are taken and can not be removed after shooting.

SUCCESSIVE MOVIE

Join a series of movie clips into a single movie (pp. 41–42).

Single-Frame Playback

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

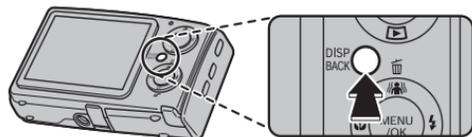


Press the selector right to view pictures in the order recorded, left to view pictures in reverse order. Keep the selector pressed to scroll rapidly to the desired frame.



Choosing a Display Format

Press the **DISP/BACK** button to cycle through playback display formats as shown below.



Indicators displayed

Indicators hidden



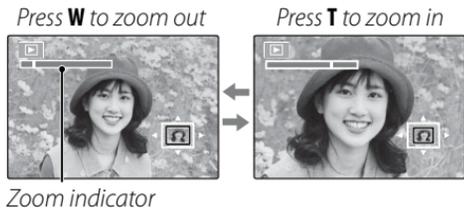
Sort by date

Note

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

Playback Zoom

Press **T** to zoom in on images displayed in single-frame playback; press **W** 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.



Navigation window shows portion of image currently displayed in monitor

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

Note

The maximum zoom ratio varies with image size. Playback zoom is not available with pictures taken in  or  mode or at an image size of **OSM**.

Intelligent Face Detection

If the current picture was taken using Intelligent Face Detection (pg. 19),  will appear in the monitor. Press the  button to cycle through the subjects detected by Intelligent Face Detection, or use the **W** and **T** buttons to zoom the current subject in and out as described above.



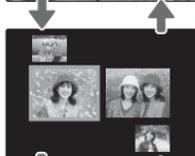
This option is not available with pictures taken in  mode.

Multi-Frame Playback

To change the number of images displayed, press **W** when a picture is shown full-frame in the monitor.



*Press the **W** button to increase the number of pictures displayed to two, nine, or a hundred.*



*Press **T** to reduce the number of images displayed.*

Use the selector to highlight images and press **MENU/OK** to view the highlighted image full frame. In the nine- and hundred-frame displays, 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  **NATURAL & ⚡** (dual shot) mode.



Sort by Date

Choose sort-by-date mode to view pictures taken on a selected date.

- 1** In single-frame playback, press **DISP/BACK** until the sort-by-date screen is displayed.



- 2** Use the selector to highlight the arrow (←) at the top left corner of the display.



- 3** Press the selector left to highlight the date.



- 4** Press the selector up or down to select a date.



- 5** Press the selector right to return to the sort-by-date display.



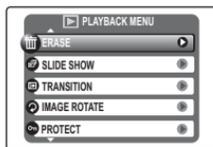
- 6** Use the selector to highlight images and press **MENU/OK** to view the highlighted image full frame.



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 18). *Note that deleted pictures can not be recovered. Copy important pictures to a computer or other storage device before proceeding.*

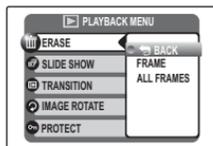
- 1** Press **MENU/OK** to display the playback menu.



- 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 (see pg. 39).

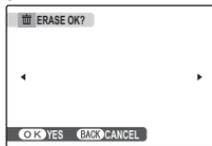


Tips: Deleting Pictures

- 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. 75).
- 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.



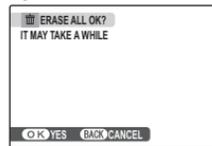
Press the selector left or right to scroll through pictures and press **MENU/OK** to delete the current picture (the picture is deleted immediately; be careful not delete the wrong picture).



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

■ ALL FRAMES: *Deleting All Images*

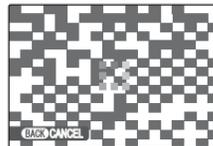
Selecting **ALL FRAMES** displays the confirmation shown at right.



Press **MENU/OK** to delete all unprotected pictures.



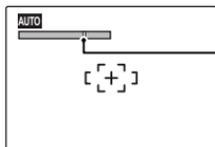
The dialog shown at right is displayed during deletion. Press **DISP/BACK** to cancel before all pictures have been deleted (any pictures deleted before the button was pressed can not be recovered).



Recording Movies

The  button can be used to shoot short movies in all shooting modes except  and . Sound is recorded via the built-in microphone; do not cover the microphone during recording.

- 1 Frame the scene using the zoom buttons.



Zoom indicator

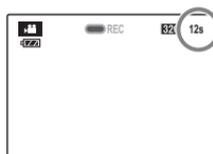
Optical zoom can not be adjusted once recording begins. Digital zoom can be used during recording if **ON** is selected for the **DIGITAL ZOOM** option in the setup menu (pg. 86).

Choosing the Frame Size

To choose the frame size, press **MENU/OK** and select  **MOVIE QUALITY**. Choose **640** (640×480 pixels) for better quality, **320** (320×240 pixels) for longer movies. Press **MENU/OK** to return to movie recording mode.



- 2 Press the  button to start recording.



REC
and time
remaining are
displayed in
monitor

- 3 Press the  button again to end recording. Recording ends automatically when the movie reaches maximum length or memory is full.



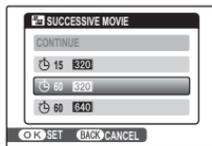
Notes

- See below for information on recording movies in  mode.
- Focus is set when recording begins; exposure and white balance are adjusted automatically throughout recording. The color and brightness of the image may vary from that displayed before recording begins.
- Movies are recorded as monaural MPEG-4 files with a maximum file size of 4GB and a minimum length of 1 s. See page 107 for more information on recording times.

Successive Movie

Join a series of short clips into a single movie.

- 1 Select  **SUCCESSIVE MOVIE** for  **SHOOTING MODE** (pg. 28). The following options will be displayed:

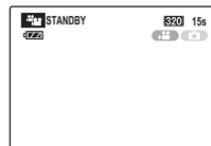


- 2 Choose the frame size and total length of the completed movie.

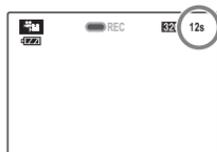
Option	Frame size	Max. length
 15 320	320×240	15 s
 60 320		60 s
 60 640	640×480	



- 3 Press **MENU/OK** to enter movie recording mode.



- 4 Press the  button to begin recording a clip.



 **REC** and time remaining are displayed in monitor. Time remaining displayed in yellow if less than 5s remain.

Note

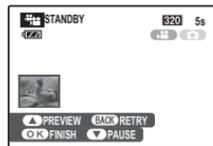
If a clip reaches maximum length, shooting will end and the clips recorded to that point will be joined together into a single movie.

- 5 Press the  button again to end the clip. Repeat steps 4 and 5 to record additional clips. To pause, press the selector down. *Do not insert or remove memory cards while recording is paused.* While recording is paused, the camera can be turned off or other modes selected. Recording can be resumed as described below.



Tip: Previewing the Most Recent Clip

When a clip is completed, the first frame appears in the monitor. To preview the clip, press the selector up. Press **DISP/BACK** to re-record the last clip.



- 6 Press **MENU/OK** to end recording and join the clips together.



Resuming Recording

To resume a paused successive movie, select  **SUCCESSIVE MOVIE** for  **SHOOTING MODE** and highlight **CONTINUE**. Press **MENU/OK** and continue recording as described in steps 4–6.

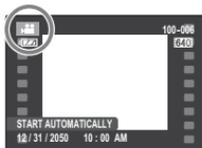
Tip: During Recording

When recording is resumed, the three most recent clips are shown in the monitor, with the most recent clip at the top.

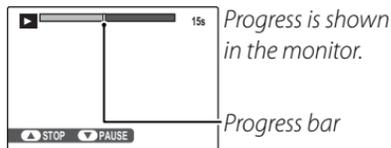


▶ Viewing Movies

During playback (pg. 34), movies are displayed in the monitor as shown at right.



Playback begins automatically and repeats until another picture is displayed.



To end playback, press the selector up; to pause playback, press the selector down. Press the selector left or right to view other pictures. Volume can be adjusted in the setup menu (pg. 86).

Tip: Viewing Movies on a Computer

Copy movies to the computer before viewing.

Tip: Deleting Movies

To delete movies during playback, press the selector up (⏮) once to end playback and then press the ⏸ button again.

Note

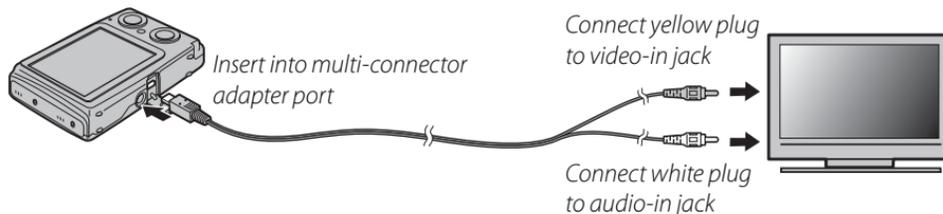
Fast forward and rewind are not available.

Cautions

- Do not cover the speaker during playback.
- White vertical or dark horizontal streaks may appear in movies containing very bright subjects. This is normal and does not indicate a malfunction.

Viewing Pictures on TV

Connect the camera to a TV and tune the television to the video channel to show pictures and slide shows (pg. 73) to a group. The supplied A/V cable connects as shown below.



Press **▶** for about a second to turn the camera on. The camera monitor turns off and pictures, voice memos, and movies are played back on the TV. Note that the camera volume controls have no effect on sounds played on the TV; use the television volume controls to adjust the volume.

← Notes

- Use an optional AC-5VX AC adapter and CP-45 DC coupler to power the camera for extended periods (pg. 92).
- Image quality drops during movie playback.

⚠ Caution

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

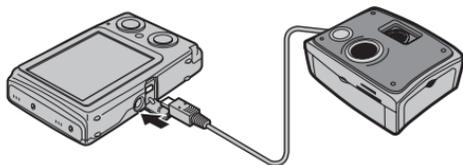
Printing Pictures via USB

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.

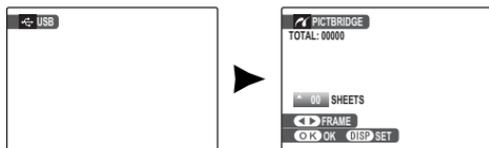


Connecting the Camera

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

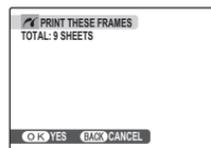


- 2 Press the button for about a second to turn the camera on. **USB** will be displayed in the monitor, followed by the PictBridge display shown below at right.



Printing Selected Pictures

- 1 Press the selector left or right to display a picture you wish to print.
- 2 Press the selector up or down to choose the number of copies (up to 99).
- 3 Repeat steps 1–2 to select additional pictures. Press **MENU/OK** to display a confirmation dialog when settings are complete.



- 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**). The date will not be printed if the camera clock was not set when the picture was taken.

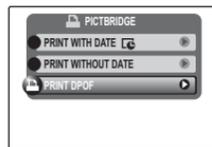
Note

If no pictures are selected when the **MENU/OK** button is pressed, the camera will print one copy of the current picture.

Printing the DPOF Print Order

To print the print order created with  **PRINT ORDER (DPOF)** in the playback menu (pg. 48):

- 1 In the PictBridge display, press **DISP/BACK** to open the PictBridge menu. 



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

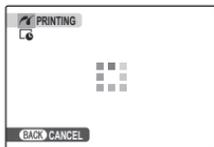
- 3 Press **MENU/OK** to display a confirmation dialog. 



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

●● 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, press **▶** to turn the camera off and then on again.

●● Disconnecting the Camera

Confirm that "PRINTING" is not displayed in the monitor and press **▶** to turn the camera off. Disconnect the USB cable.

← Notes

- Use an optional AC-5VX AC adapter and CP-45 DC coupler to power the camera for extended periods.
- Print pictures from internal memory or a memory card that has been formatted in the camera.
- If the printer does not support date printing, the **PRINT WITH DATE**  option will not be available in the PictBridge menu and the date will not be printed on the pictures in the DPOF print order.
- Default printer page size and print quality settings are used when printing via direct USB connection.

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 (pg. 45) or devices that support DPOF.

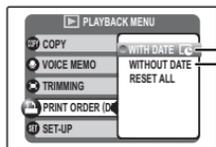
DPOF

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 multi selector up or down to highlight **WITH DATE ** or **WITHOUT DATE**.



WITH DATE : Print date of recording on pictures.

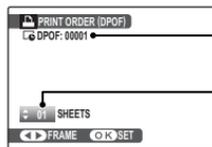
WITHOUT DATE: Print pictures without date.

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.

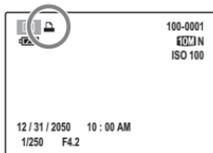
3 Repeat steps 1–2 to complete the print order. Press **MENU/OK** to save the print order when settings are complete, or **DISP/BACK** to exit without changing the print order.



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.



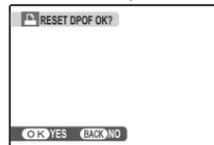
■ RESET ALL

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

Installing FinePixViewer

FinePixViewer is available in Windows and Macintosh versions. Installation instructions for Windows are on pages 50–51, installation instructions for Macintosh computers on pages 52–53.

Installing FinePixViewer: Windows

1 Confirm that the computer meets the following system requirements:

OS	Preinstalled versions of Windows Vista, Windows XP Home Edition (Service Pack 2 or later), Windows XP Professional (Service Pack 2 or later), or Windows 2000 Professional (Service Pack 4 or later)
CPU	<ul style="list-style-type: none">• Windows Vista: 800 MHz Pentium 4 or better (3 GHz Pentium 4 or better recommended)• Windows XP: 800 MHz Pentium 4 or better (2 GHz Pentium 4 or better recommended)• Windows 2000: 200 MHz Pentium or better
RAM	<ul style="list-style-type: none">• Windows Vista: 512 MB or more (1 GB or more recommended)• Windows XP: 512 MB or more• Windows 2000: 128 MB or more
Free disk space	A minimum of 450 MB required for installation with 600 MB available when FinePixViewer is running (15 GB or more recommended under Windows Vista, 2 GB or more recommended under Windows XP)
Video	800 × 600 pixels or more with 16-bit color or better (1,024 × 768 pixels or more with 32-bit color recommended)
Other	<ul style="list-style-type: none">• Built-in USB port recommended. Operation is not guaranteed other USB ports.• Internet connection (56 kbps or faster recommended) required to use FinePix Internet Service; Internet connection and e-mail software required to use e-mail option• QuickTime 7.0 or later required to view MPEG-4 movies

Caution

Other versions of Windows are not supported. Operation is not guaranteed on home-built computers or computers that have been upgraded from earlier versions of Windows.

- 2 Start the computer. If you are using Windows 2000 Professional, Windows XP, or Windows Vista, 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 Vista

If an AutoPlay dialog is displayed, click **SETUP.exe**. A “User Account Control” dialog will then be displayed; click **Allow**.

The installer will start automatically; click **Installing FinePixViewer** and follow the on-screen instructions to install FinePixViewer (note that the Windows CD may be required during installation).

If the Installer Does Not Start Automatically

If the installer does not start automatically, select **Computer** or **My Computer** from the Start menu (Windows Vista/XP) or double-click the **My Computer** icon on the desktop (Windows 2000), 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, QuickTime, or DirectX, follow the on-screen instructions to complete installation.
- 5 When prompted, remove the installer CD from the CD-ROM drive and click **Restart** to restart the computer. 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 54.

Installing FinePixViewer: Macintosh

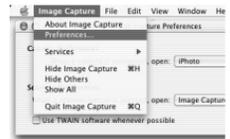
1 Confirm that the computer meets the following system requirements:

Model	Power Macintosh G3, PowerBook G3, Power Macintosh G4, iMac, iBook, Power Macintosh G4 Cube, PowerBook G4, Power Macintosh G5, MacBook, MacBook Pro, Mac mini, or Mac Pro
CPU	PowerPC or Intel
OS	Mac OS X version 10.3.9–10.4.11 (as of January 1, 2008; visit http://www.fujifilm.com for more information)
RAM	256 MB or more
Free disk space	A minimum of 200 MB required for installation with 400 MB available when FinePixViewer is running
Video	800×600 pixels or more with thousands of colors or better
Other	<ul style="list-style-type: none"> • Built-in USB port recommended. Operation is not guaranteed other USB ports. • Internet connection (56 kbps or faster recommended) required to use FinePix Internet Service; Internet connection and e-mail software required to use e-mail option • QuickTime 7.0 or later required to view MPEG-4 movies

2 After starting the computer and quitting any applications that may be running, insert the installer CD in a CD-ROM drive. Double-click the **FinePix CD** icon on the desktop 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. If prompted to install QuickTime, follow the on-screen instructions. 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** Select **Applications** in the Finder **Go** menu to open the applications folder. Double-click the **Image Capture** icon 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**.



Select **Quit Image Capture** from the Image Capture application menu.

Installation is now complete. Proceed to "Connecting the Camera" on page 54.

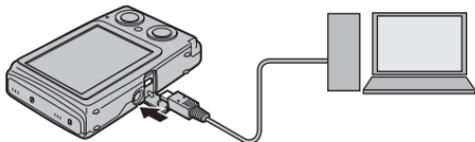
Connecting the Camera

1 If the pictures you wish to copy are stored on a memory card, insert the card into the camera (pg. 8). If no card is inserted, pictures will be copied from internal memory.

⚠ Caution

Loss of power during transfer could result in loss of data or damage to internal memory or the memory card. Charge the battery before connecting the camera or use an optional AC-5VX AC adapter and CP-45 DC coupler.

2 Turn the camera off and connect the supplied USB cable as shown, making sure the connectors are fully inserted. Connect the camera directly to the computer; do not use a USB hub or keyboard.



3 Press the **▶** button for about a second to turn the camera on. FinePixViewer will start automatically and the “Save Image Wizard” will be displayed. Follow the on-screen instructions to copy pictures to the computer. To exit without copying pictures, click **CANCEL**.

⚠ Caution

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

For more information on using FinePixViewer, select **How to Use FinePixViewer** in the FinePixViewer **Help** menu.

← Note

The camera will not turn off automatically while connected to a computer.

 **Cautions**

- Use only memory cards that have been formatted in the camera and contain pictures taken with the camera. If a memory card containing a large number of images is inserted, there may be a delay before FinePixViewer starts and FinePixViewer may be unable to import or save images. Use a memory card reader to transfer pictures.
- The indicator lamp blinks green and orange during data transfer. Make sure the indicator lamp is out before turning the camera off, opening or closing the lens cover, or disconnecting the USB cable. 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.
- Use FinePixViewer to copy voice memos.
- FinePixViewer can not be used to edit MPEG-4 movies.
- FinePixViewer may not perform as expected when run from another computer over a network.
- 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**

Confirm that the indicator lamp is out and press  to turn the camera off. Disconnect the USB cable.

 **Uninstalling FinePixViewer**

Only uninstall FinePixViewer before reinstalling the software or when it is no longer required. After quitting FinePixViewer 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 Vista) or “Add/Remove Programs” (other versions of Windows) to uninstall FinePixViewer, FinePix Resource, and FinePix Studio. Under Windows, one or more confirmation dialogs may be displayed; read the contents carefully before clicking **OK**.

Infrared Transmission: The IR Menu

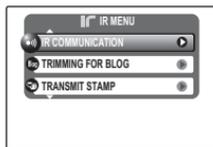
Still pictures can be shared using infrared transmission, or saved at a smaller size for transmission or for upload to a blog or online discussion group.

Using the IR Menu

1 Press  to enter playback mode (pg. 34).



2 Press the selector down () to display the IR menu.



3 Press the selector up or down to highlight  **IR COMMUNICATION** (pg. 58),  **TRIMMING FOR BLOG** (pg. 60), or  **TRANSMIT STAMP** (pg. 62).



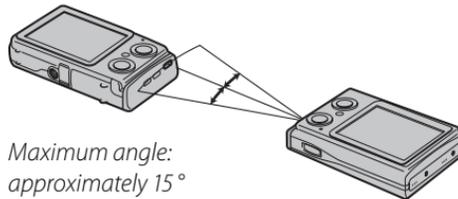
4 Press the selector right to select the highlighted option.



IR Communication

Still pictures can be copied from the camera to any device that supports high-speed infrared or IrSimple. The camera can receive still pictures from devices that support high-speed infrared or IrSimpleShot™ (IRSS™). Before sharing pictures, match the **IR COMMUNICATION** option in the camera setup menu to the infrared transmission type used by the other device (pg. 83). For details, see the manual provided with the device.

To share pictures, place the camera about 5 to 20 cm (2 to 8 in.) from the other device with the infrared ports pointing directly at each other. The ports should be at no more than a 15° angle. Be sure both devices are on.

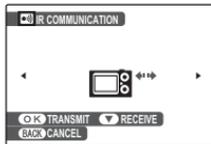


Caution

Make sure that there are no obstacles between the two devices and that the infrared ports are correctly aligned and are not in direct sunlight or directly under a fluorescent light. Remote controls and other infrared devices and equipment that generates electrical noise may interfere with transmission.

Sending Pictures to Other Devices

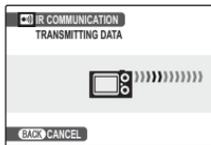
- 1 Select **IR COMMUNICATION** in the IR menu. Pictures are displayed as shown below.



- 2 Press the selector left or right to display a picture you wish to send.



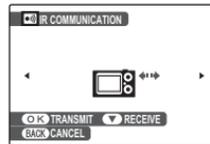
- 3 Press **MENU/OK** to begin transmission.



TRANSMISSION COMPLETED will appear in the monitor when transmission is complete.

Receiving Pictures from Other Devices

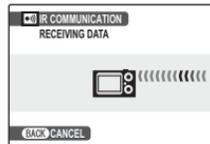
- 1 Select **IR COMMUNICATION** in the IR menu.



- 2 On the sending device, select the picture to be transmitted.



- 3 Press the selector down on the receiving device to begin transmission.



DATA RECEIVED will appear in the monitor when transmission is complete. Pictures received from other devices are indicated by a  ("gift") icon during playback.

 **Cautions**

- If an error is displayed while sending a picture, press **MENU/OK** to retransmit the picture or press **DISP/BACK** to cancel. If an error is displayed while receiving a picture, press the selector down to retransmit the picture or press **DISP/BACK** to cancel.
- Image size may be reduced for transmission.
- White borders may appear above and below or on either side of pictures with an aspect ratio of 3:2 when they are sent to a printer via infrared.
- Movies up to 60 s long shot with a Z20fd can be shared via infrared. Movies recorded with other devices can not be shared.

Trimming for Blog

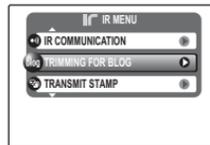
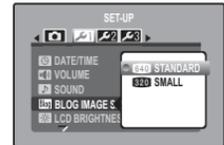
This option is used to create small copies of still pictures for posting to a blog or online forum or for transmission using IrSimple. Pictures can be cropped before being saved at the reduced size.

Blog **TRIMMING FOR BLOG** can not be used with movies.

Before copying pictures, choose a size for the copies using the **Blog** **BLOG IMAGE SIZE** option in the camera setup menu (pg. 83). Choose from **640** **STANDARD** and **320** **SMALL**.

To create small copies:

1 Select **Blog** **TRIMMING FOR BLOG** in the IR menu (pg. 56).



- 2** Press the selector left or right to display a picture you wish to copy.



To crop the picture before saving it, press the **W** and **T** buttons to zoom the picture in or out and use the selector to display the portion of the picture you wish to save. Press **MENU/OK** to crop the picture and return to the image selection display.

To add an effect to the picture, press the selector up. Choose from **EFFECT 1** (line drawing) and **EFFECT 2** (painting).

- 3** Press the selector down () to create a small copy of the picture, or press **MENU/OK** to transmit the picture via infrared. If the picture has been rotated using the  **IMAGE ROTATE** option in the playback menu (pg. 74), the copy will be saved in the same orientation as the original.



Small copies are saved using filenames that begin with "BLOG." During playback, small copies are indicated by a  icon and a black border. Small copies can not be further cropped or rotated.

Exchanging Stamps

Stamp files added using the  **ADD NEW STAMP** option can be exchanged via infrared.

Sending Stamp Files to Other Devices

1 Select  **TRANSMIT STAMP** in the IR menu.

← Note

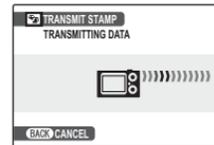
If no stamps have been added, the following dialog will be displayed. Stamps supplied with the camera can not be exchanged via infrared.



2 Press the selector left or right to display the stamp file you wish to send.



3 Press **MENU/OK** to begin transmission.



TRANSMISSION COMPLETED will appear in the monitor when transmission is complete.

Receiving Stamp Files from Other Devices

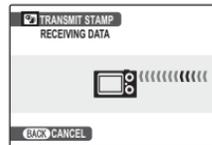
- 1 Select  **TRANSMIT STAMP** in the IR menu.
- 2 On the sending device, select a stamp file for transmission.



← Note

The camera can store up to four additional stamps. Once this number is reached, no additional stamp files can be received until one or more stamp files has been deleted. To make room for additional stamp files, select  **TRANSMIT STAMP** in the IR menu on the receiving device and display the stamp file you wish to delete. Press the  button to display a confirmation dialog and press **MENU/OK** to delete the selected file.

- 3 Press the selector down on the receiving device to begin transmission.



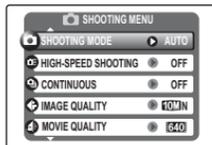
DATA RECEIVED will appear in the monitor when transmission is complete.

The Shooting Menu

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.



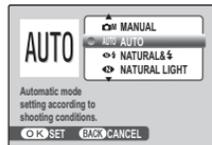
← Note

The options displayed in the shooting menu vary depending on the shooting mode.

- 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 highlighted option.



☑ HIGH-SPEED SHOOTING

Selecting **ON** reduces focusing time, ensuring a quick shutter response. The camera will focus at distances of about 1 m (3 ft. 3 in.) to infinity.



👉 Notes

- **ON** is automatically selected in mode (pg. 30).
- The **LCD MODE** option in the setup menu is not available when high-speed shooting is on (pg. 86).
- Choosing **ON** increases the drain on the battery. Choose **OFF** to save battery power.

📷 CONTINUOUS

Capture motion in a series of pictures.

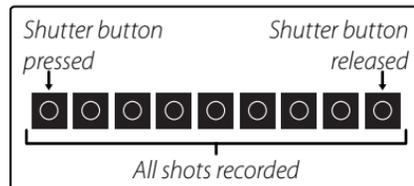


👉 Notes

- This option is not available in , , , and modes.
- The flash turns off automatically (pg. 24). The previously-selected flash mode is restored when **OFF** is selected for **CONTINUOUS**.
- Frame rate varies with shutter speed.

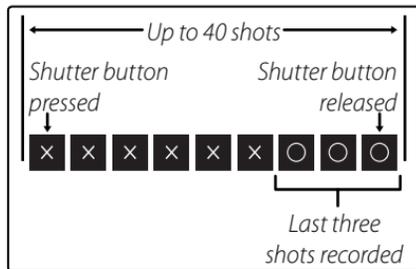
■ 📷 CONTINUOUS: LONG PERIOD

The camera takes pictures while the shutter button is pressed. Shooting ends when the shutter button is released or memory is full.



■ CONTINUOUS: FINAL 3

While the shutter button is pressed, the camera takes up to 40 pictures, but only the last three shots are recorded.



■ CONTINUOUS: TOP 3

While the shutter button is pressed, the camera takes up to three pictures.

⬅ Notes: FINAL 3/ TOP 3

- Focus and exposure are determined by the first frame in each series.
- The number of pictures that can be recorded depends on the memory available. Additional time may be required to record pictures when shooting ends. The pictures are displayed in the monitor while recording is in progress.



⬅ Note: The Self-Timer

If the self-timer is used, only one picture will be taken when LONG PERIOD or FINAL 3 is selected.

EXP. COMPENSATION

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

Choose positive (+) values
to increase exposure



Choose negative (-) values
to reduce exposure



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 105)



- **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

Notes

- Exposure compensation is available in  and  modes only.
- At settings other than ± 0 , a  icon is displayed in the monitor. Exposure compensation is not reset when the camera is turned off; to restore normal exposure control, choose a value of ± 0 . Exposure compensation is disabled when the flash is set to **AUTO** or  (auto with red-eye reduction); when the flash is set to  or , exposure compensation is disabled if the subject is dark.

WB WHITE BALANCE

For natural colors, choose a setting that matches the light source (for an explanation of “white balance,” see the Glossary on page 105).

Option	Displayed in
AUTO	White balance adjusted automatically.
	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.

Notes

- This option is available in  and  modes only.
- Auto white balance is used with the flash. Turn the flash off (pg. 24) to take pictures at other settings.
- Results vary with shooting conditions. Play pictures back after shooting to check colors in the monitor.

Q IMAGE QUALITY

Choose the size and quality 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
10M F	31 × 23 cm/12 × 9 in. (10M) or 31 × 21 cm/12 × 8 in.
10M N	(3:2). Choose 10M F for high-quality prints, 3:2 for an aspect ratio of 3:2.
5M	22 × 16 cm (8.5 × 6.5 in.)
3M	17 × 13 cm (7 × 5 in.)
2M	14 × 10 cm (5.3 × 4 in.)
03M	5 × 4 cm (2 × 1.5 in.). Suited to e-mail or the web.

The number of pictures that can be taken at current settings (pg. 107) is displayed to the right of the image quality icon in the monitor.

Notes

- This option is not available in  and  modes.
- Image quality is not reset when the camera is turned off or another shooting mode is selected.

Aspect Ratio

Pictures taken at an image quality setting of **3:2** have an aspect ratio of 3:2, the same as a frame of 35-mm film. Pictures taken at other settings have an aspect ratio of 4:3.



4:3



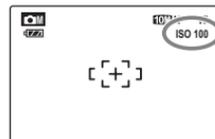
3:2

ISO

Control the camera's sensitivity to light. Higher values can be used to reduce blur when lighting is poor; note, however, that mottling may appear in pictures taken at high sensitivities. If **AUTO** is selected, the camera will adjust sensitivity automatically in response to shooting conditions.

In shooting modes other than **CM**, sensitivity is set to **AUTO**; other values can not be selected.

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



FinePix COLOR

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

Option	Displayed in
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. Available only in AUTO , N , N₂ , N₃ , and CM modes.
F-B&W	Take pictures in black and white.

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

Notes

- FinePix COLOR** is not reset when the camera is turned off or another shooting mode is selected.
- Depending on the subject, the effects of **F-CHROME** may not be visible in the monitor.

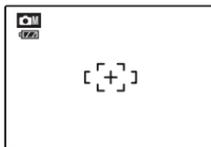
AF MODE

In shooting mode  (pg. 28), this option controls how the camera focuses when Intelligent Face Detection is off (pg. 19). Regardless of the option selected, the camera will focus on the subject in the center of the monitor when macro mode is on (pg. 23).



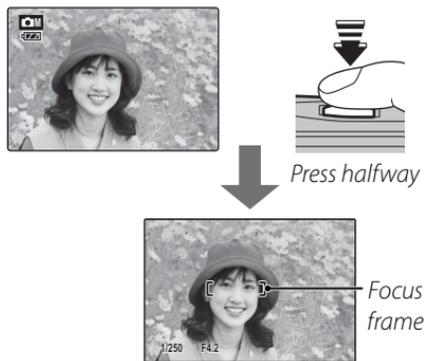
AF MODE: CENTER

The camera focuses on the subject in the center of the monitor. This option can be used with focus lock.



AF MODE: MULTI

When the shutter button is pressed halfway, the camera detects high-contrast subjects near the center of the monitor and selects the focus area automatically.



Note

The focus area will not be displayed if the camera is unable to detect the subject. Select  CENTER and compose the picture using focus lock (pg. 21).

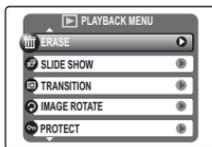
The Playback Menu

The playback menu is used to manage the pictures in internal memory or on the memory card.

Using the Playback Menu

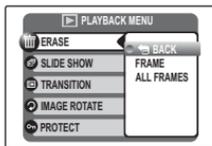
1 Press  to enter playback mode (pg. 34).

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.



Playback Menu Options

The following options are available:

Option	Description
 ERASE	Delete all or selected pictures (pg. 38).
 SLIDE SHOW	View pictures in a slide show (pg. 73).
 TRANSITION	Choose the transition between pictures during playback (pg. 73).
 IMAGE ROTATE	Rotate pictures (pg. 74).
 PROTECT	Protect pictures from accidental deletion (pg. 75).
 COPY	Copy pictures between internal memory and a memory card (pg. 76).
 MOVIE TRIMMING	Create an edited copy of a movie (pg. 78).
 VOICE MEMO	Add voice memos to pictures (pg. 79).
 TRIMMING	Create cropped copies of pictures (pg. 81).
 PRINT ORDER (DPOF)	Select pictures for printing on DPOF- and PictBridge-compatible devices (pg. 48).
 SET-UP	Perform basic camera setup (pg. 82).

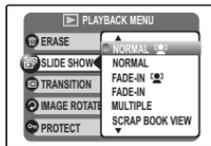
SLIDE SHOW

View pictures in an automated slide show. After choosing the background music, choose the type of show and press **MENU/OK** to start.

Press **DISP/BACK** at any time during the show to view on-screen help. 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**.

Note

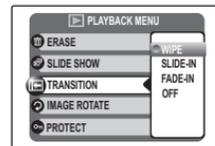
The camera will not turn off automatically while a slide show is in progress.



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	As for MULTIPLE , except that the pictures are chosen randomly.
SELECT BGM	Choose background music.
IrSS	Display slides on televisions that supports IrSimpleShot. For more information, visit the FUJIFILM website at http://www.fujifilm.com/products/digital_cameras/support/ir.html .

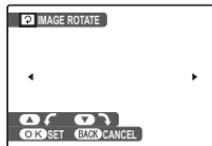
TRANSITION

Choose the transition between images during playback.



🔍 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.



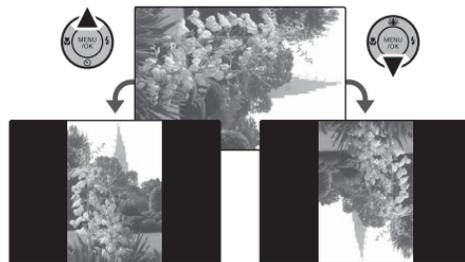
👉 Notes

- Protected pictures can not be rotated. Remove protection before rotating pictures (pg. 75).
- The camera may not be able to rotate pictures created with other devices.

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



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



- 3 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.

PROTECT

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

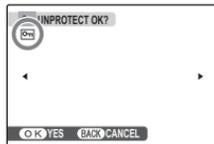
FRAME

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.



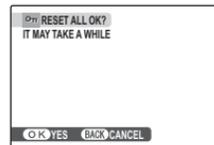
SET ALL

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.



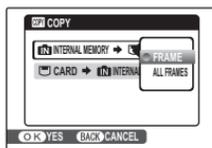
Caution

Protected pictures will be deleted when the memory card or internal memory is formatted (pg. 87).

COPY

Copy pictures between internal memory and a memory card.

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

**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.

■ FRAME

Copy selected frames.



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



2 Press **MENU/OK** to copy the picture.

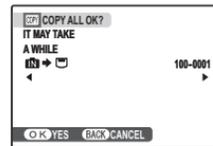


3 Repeat steps 1–2 to copy additional images. Press **DISP/BACK** to exit when the operation is complete.



■ ALL FRAMES

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



⚠ Cautions

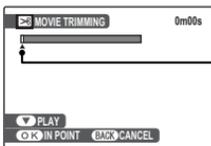
- Copying ends when the destination is full.
- DPOF print information is not copied (pg. 48).

MOVIE TRIMMING

To create a shorter copy of the movie currently displayed in playback mode, select **MOVIE TRIMMING** from the playback menu.



- Pressing the selector down to start or pause playback, play the movie until the first frame you wish to include in the new movie is displayed.

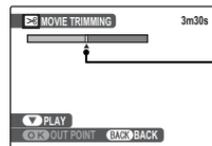


Indicator shows the position of the starting frame.

- Press **MENU/OK**.



- Pressing the selector down to resume or pause playback, play the movie until the last frame you wish to include in the new movie is displayed.



Indicator shows the position of the final frame.

To return to step 1 and choose a new starting point, press **DISP/BACK**.

- Press **MENU/OK** to save the edited movie to a new file and return to playback with the new movie displayed.



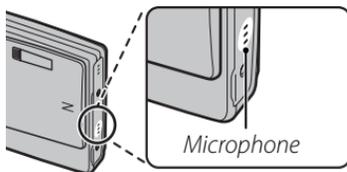
VOICE MEMO

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. 75).

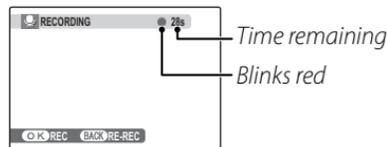
- 1 Hold the camera at a distance of about 20 cm (8 in.) and face the microphone.



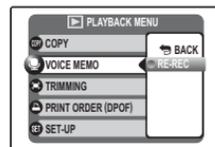
Notes

- 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. 105) with a maximum size of about 480KB.

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



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



Playing Voice Memos

Voice memo playback starts automatically when a picture with a voice memo is displayed (pg. 34; pictures with voice memos are indicated by a  icon).

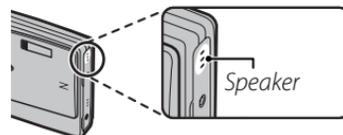
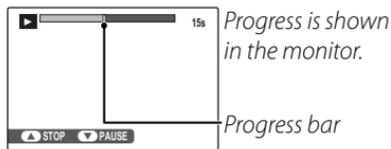
Playback repeats until another picture is displayed. To pause, press the selector down; to end playback, press the selector up. Press the selector left or right to view other pictures. Volume can be adjusted in the setup menu (pg. 86).

Note

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

Caution

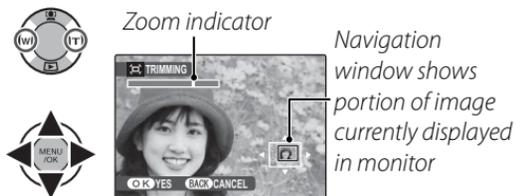
Do not cover the speaker during playback.



TRIMMING

To create a cropped copy of a picture, play the picture back and select **TRIMMING** in the playback menu (pg. 72).

- 1 Press the zoom buttons to zoom 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**).

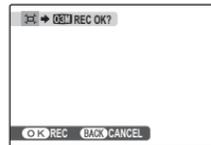


Tip: Intelligent Face Detection

If the picture was shot with Intelligent Face Detection (pg. 19),  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 (**5M**, **3M**, **2M**, or **03M**; see page 69) is shown at the top; if the size is **03M**, **OK** is displayed in yellow. 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.



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 up or down to highlight **SET SET-UP**.



1.3 Press the selector right to display the setup menu.



2 Choose a page.

2.1 Press the selector left or right to choose a page.



2.2 Press the selector down to enter the menu.



3 Adjust settings.

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



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



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



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



Setup Menu Options

	Menu item	Description	Options	Default
⊕	IMAGE DISP.	Choose how long pictures are displayed after shooting (pg. 84).	3 SEC / 1.5 SEC / ZOOM (CONTINUOUS)	1.5 SEC
	FRAME NO.	Choose how files are named (pg. 85).	CONT. / RENEW	CONT.
	ILLUMINATION	Turn the shooting indicator on or off (pg. 85).	ON / OFF	ON
	DIGITAL ZOOM	Enable or disable digital zoom (pg. 86).	ON / OFF	OFF
	LCD MODE	Enable or disable power-saving display mode (pg. 86).		
1	DATE/TIME	Set the camera clock (pg. 12).	—	—
	VOLUME	Adjust volume for the shutter, controls, and playback (pg. 86).	—	—
	SOUND	Choose shutter, start-up, and control sounds (pg. 87).	—	—
	BLOG IMAGE SIZE	Choose blog image size (pg. 60).	640 STANDARD / 320 SMALL	640
2	LCD BRIGHTNESS	Control the brightness of the monitor (pg. 87).	-5 - +5	0
	FORMAT	Format internal memory or memory cards (pg. 87).	—	—
	言語/LANG.	Choose a language (pg. 12).	See page 109	ENGLISH
	AUTO POWER OFF	Choose the auto power off delay (pg. 87).	5 MIN / 2 MIN / OFF	2 MIN
	TIME DIFFERENCE	Set the clock to local time (pg. 88).		
3	BACKGROUND COLOR	Choose a background color for the monitor display.	—	—
	GUIDANCE DISPLAY	Choose whether to display tool tips.	ON / OFF	ON
	VIDEO SYSTEM	Choose a video mode for connection to a TV (pg. 44).	NTSC / PAL	—
3	IR COMMUNICATION	Choose a standard for infrared transmission. Choose STANDARD for use with cameras or printers, IrSS for use with TVs (pg. 57).	STANDARD / IrSS	STANDARD
	ADD NEW STAMP	Add new stamp files for use in STAMP mode (pg. 89).	—	—
	RESET	Reset all settings except DATE/TIME , TIME DIFFERENCE , BACKGROUND COLOR , and VIDEO SYSTEM to default values. A confirmation dialog will be displayed, press the selector left or right to highlight OK and press MENU/OK .	—	—

 **IMAGE DISP.**

Choose how long pictures are displayed in the monitor after shooting.

- **3 SEC:** Pictures are displayed for about 3 s before being recorded to the memory card.
- **1.5 SEC:** Pictures are displayed for about 1.5 s before being recorded to the memory card.
- **ZOOM (CONTINUOUS):** Pictures are displayed until the **MENU/OK** button is pressed. Pictures taken at qualities larger than  can be zoomed in to check fine details (see page 35). Note that this option is disabled in continuous mode (pg. 66) and when , , or  is selected for  **SHOOTING MODE.**

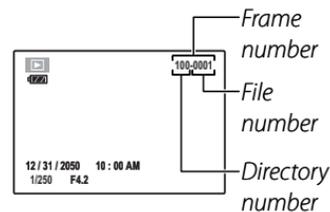
 **Notes**

- The colors displayed at settings of **3 SEC** and **1.5 SEC** may differ from those in the final picture.
- **IMAGE DISP.** is not available when  **LONG PERIOD** is selected for  **CONTINUOUS** (pg. 66).

⏏ 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.

- **CONT.:** 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**

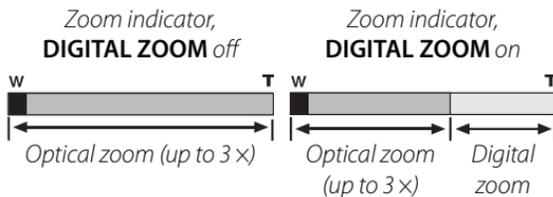
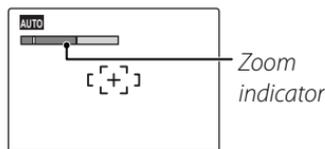
- If the frame number reaches 999-9999, the shutter release will be disabled (pg. 102).
- Selecting **⏏ RESET** (pg. 83) does not reset frame numbering.
- Frame numbers for pictures taken with other cameras may differ.

🔦 ILLUMINATION

If **ON** is selected, the shooting indicator will light when the camera is turned on. It will also light after a picture is taken to let the subjects know that shooting is complete.

DIGITAL ZOOM

If **ON** is selected, pressing **T** at the maximum optical zoom position will trigger digital zoom, further magnifying the image. To cancel digital zoom, zoom out to the minimum digital zoom position and press **W**.



Caution

Digital zoom produces lower quality images than optical zoom.

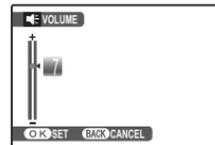
LCD MODE

Control the quality of the display in the monitor. Choose **STANDARD** for improved display quality, **POWER SAVE** for increased battery life. This option has no effect in playback mode, high-speed shooting mode, or movie mode.

VOLUME

Choose the volume for the shutter, camera controls, and playback.

- **SHUTTER VOLUME/OPERATION VOL.:** Choose the volume for the shutter and camera controls from three levels, or select **OFF** to turn the sound off. Press the selector left or right to highlight an option and press **MENU/OK** to select.
- **PLAYBACK VOLUME:** Press the selector right to display the menu shown at right. Press the selector up or down to choose the volume for movie and voice memo playback and press **MENU/OK** to select.

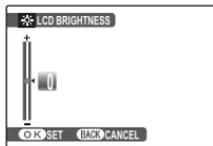


SOUND

Choose the sounds used for the shutter, at start up, and for camera controls. Press the selector up or down to highlight an option and press left or right to select a sound. Press **MENU/OK** to select.

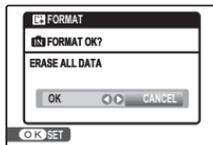
LCD BRIGHTNESS

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



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. Press the selector left to 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 cover during formatting.

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. 45) or computer (pg. 50) or when a slide show is in progress (pg. 73).

Tip: Reactivating the Camera

To reactivate the camera after it has turned off automatically, close and reopen the lens cover or press the  button for about a second (pg. 11).

TIME DIFFERENCE

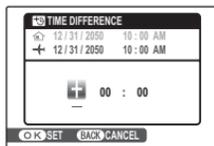
When travelling, use this option to switch the camera clock instantly from your home time zone to the local time at your destination.

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.

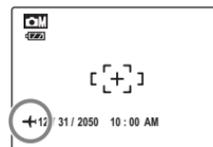


1.4 Press **MENU/OK** when settings are complete.



2 Switch between local time and your home time zone.

To set the camera clock to local time, highlight  **LOCAL** and press **MENU/OK**. 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.

ADD NEW STAMP

Copy stamp files for  **STAMP** mode from a memory card.

Stamp Files

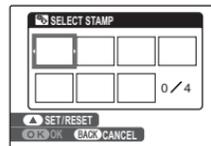
Stamp files can be found in the "FF_STAMP" folder on the supplied FinePixViewer CD. Copying these files to the camera is a two stage process: first, use a computer equipped with a card reader or memory card slot to copy the files from the CD to a memory card, then insert the memory card in the camera and copy the files to the camera using  **ADD NEW STAMP**. Stamp files can not be copied directly from the computer to the camera.

Caution

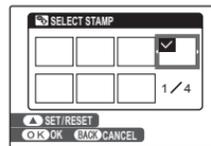
If the installer starts when the FinePixViewer CD is inserted in a CD-ROM drive, click **Cancel** to exit.

- 1 Insert the memory card containing the stamp files in the camera and select  **ADD NEW STAMP** in the setup menu.

- 2 Press the selector left or right to display the desired stamp.



- 3 Press the selector up to select or deselect the current stamp. Selected stamps are indicated by a check mark.



- 4 Repeat steps 2 and 3 to select additional stamps. Press **MENU/OK** to copy all selected stamps to the camera. Note that some time may be required; do not turn the camera off until a message is displayed stating that copying is complete.



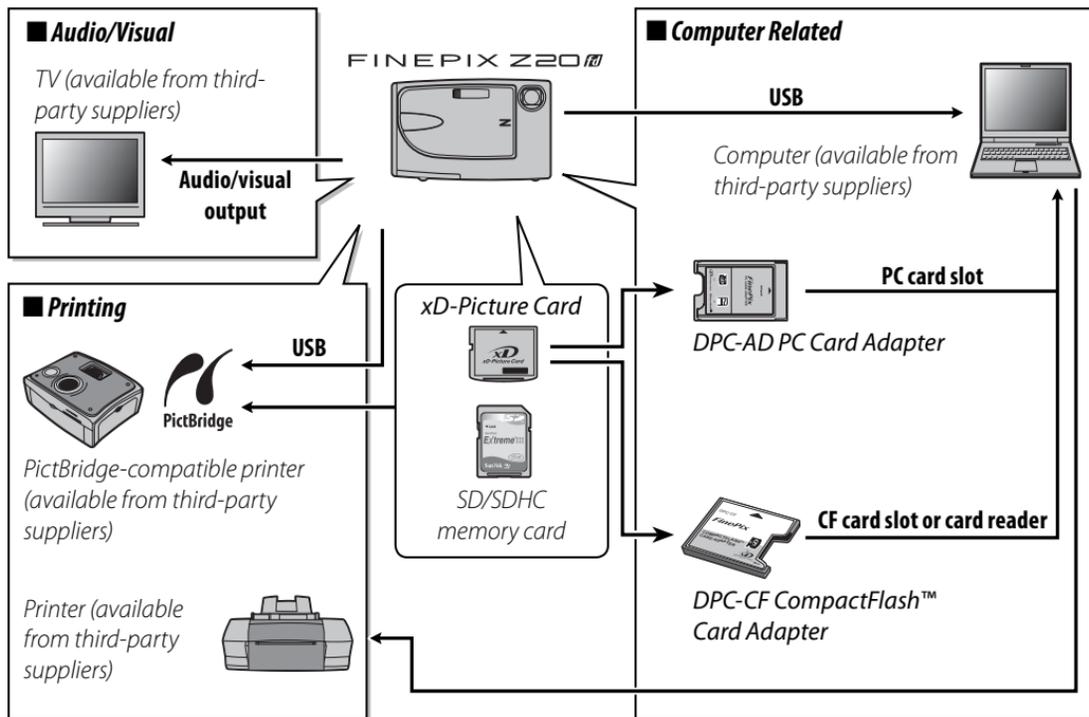
← Note

The camera can store up to four stamps. If the number of stamps is greater than the space available on the camera, the message shown at right will be displayed. To make room for additional stamps, highlight **OK** and press **MENU/OK**. Press the selector left or right to display the stamp you wish to delete and press **MENU/OK** to delete the selected stamp.



Optional Accessories

The FinePix Z20fd supports a wide range of accessories from FUJIFILM and other manufacturers. The following accessories were available as of March 2008.



Accessories from Fujifilm

As of March 2008, the following optional accessories were available from FUJIFILM. Check with your local Fujifilm representative for information on the accessories available in your region.

- **xD-Picture Cards:** Choose from 256MB, 512MB, 1 GB, and 2 GB cards. Both type M and type H *xD-Picture Cards* can be used; note, however, that type H cards may not be compatible with accessories such as USB drives. The card type can be determined from the model number: for example, “DPC-M2GB” indicates a type M card.
- **BC-45 battery charger** (supplied): Replacement battery chargers can be purchased as required. The BC-45 charges an NP-45 battery in about 180 minutes at +23 °C (+73 °F).
- **NP-45 rechargeable Li-ion battery** (supplied): Additional NP-45 slimline batteries can be purchased as required.
- **AC-5VX AC adapter** (requires CP-45 DC coupler): Use for extended playback or when copying pictures to a computer (shape of adapter and plug vary with region of sale).
- **CP-45 DC coupler:** Connect the AC-5VX AC adapter to the camera.
- **DPC-AD PC card adapter:** Allows an *xD-Picture Card* or a 3.3V SmartMedia card to function as a PC Card Standard-compliant ATA (PCMCIA 2.1) type II PC card.
- **DPC-CF CompactFlash™ card adapter:** Allows an *xD-Picture Card* to function as a CompactFlash card. The DPC-AD and DPC-CF can not be used with SD memory cards.



For the latest information on accessories available from FUJIFILM, visit http://www.fujifilm.com/products/digital_cameras/index.html.

Caring for the Camera

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

Storage and Use

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

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

Water and Sand

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

Condensation

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

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.

Travelling

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
Power supply	The camera does not turn on.	The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	4, 6
		The battery is not in the correct orientation.	Re-insert the battery in the correct orientation.	6
		The battery-chamber cover is not latched.	Latch the battery-chamber cover.	7
		The AC adapter and DC coupler are not connected properly.	Make sure that the AC adapter and DC coupler are properly connected.	—
	The battery runs down quickly.	The battery is cold.	Warm the battery by placing it in a pocket or other warm place and re-insert it in the camera immediately before taking a picture.	6
		There is dirt on the battery terminals.	Clean the terminals with a soft, dry cloth.	—
		 HIGH SPEED SHOOTING is on.	Turn  HIGH SPEED SHOOTING off to reduce the drain on the battery.	66
	The camera turns off suddenly.	The battery has been charged many times.	The battery has reached the end of its charging life. Purchase a new battery.	—
		The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	4, 6
	Battery charger	Charging does not start.	The AC adapter or DC coupler has been disconnected.	Make sure that the AC adapter and DC coupler are properly connected.
The battery is not correctly inserted.			Re-insert the battery in the charger.	4
Charging is slow.		The battery is not in the correct orientation.	Re-insert the battery in the correct orientation.	4
		The temperature is low.	Charge the battery at room temperature.	v
The charging lamp lights, but the battery does not charge.		There is dirt on the battery terminals.	Clean the terminals with a soft, dry cloth.	—
		The battery has been charged many times.	The battery has reached the end of its charging life. Purchase a new battery. If the battery still fails to charge, contact your FUJIFILM dealer.	—

Menus and Displays

Problem	Possible cause	Solution	Page
Menus and displays are not in English.	English is not selected for the 言語/LANG. option in the setup menu.	Select ENGLISH .	12

Shooting

Problem	Possible cause	Solution	Page	
Taking pictures	Memory is full.	Insert a new memory card or delete pictures.	8, 38	
	No picture is taken when the shutter button is pressed.	Memory is not formatted.	Format the memory card or internal memory.	87
		There is dirt on the memory card contacts.	Clean the contacts with a soft, dry cloth.	9
		The memory card is damaged.	Insert a new memory card.	8
		The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	4, 6
		The camera has turned off automatically.	Turn the camera on.	11, 87
The monitor goes dark after shooting.	The flash has fired.	The monitor may darken while the flash charges. Wait for the flash to charge.	24	
Focus	The camera does not focus.	The subject is close to the camera.	Select macro mode.	23
		The subject is far away from the camera.	Cancel macro mode.	
		The subject is not suited to autofocus.	Use focus lock.	
Close-ups	Macro mode is not available.	The camera is in  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  , ,		

Problem		Possible cause	Solution	Page
Intelligent Face Detection	Face detection not available.	The camera is in , , , , , or mode.	Choose a different shooting mode.	28
	No face is detected.	The subject's face is obscured sunglasses, a hat, long hair, or other objects.	Remove the obstructions.	19
		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 tilted or horizontal.	Ask the subject to hold their head straight.	15
		The camera is tilted.	Hold the camera straight.	
		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.	19, 21	
Flash	The flash does not fire.	, , , , or mode is selected.	Choose a different shooting mode.	28
		The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	4, 6
		The camera is in continuous mode.	Select OFF for CONTINUOUS .	66
		The camera is in silent mode.	Turn silent mode off.	25
		The flash is off ().	Choose a different flash mode.	24
	Some flash modes are not available.	The camera is in AUTO , , , , , , , , , , , , or mode.	Choose a different shooting mode.	28
		The camera is in silent mode.	Turn silent mode off.	25
	The flash does not fully light the subject.	The subject is not in range of the flash.	Position the subject in range of the flash.	109
The flash window is obstructed.		Hold the camera correctly.	15	
mode	Can not take pictures.	The battery is low.	Charge the battery or insert a fully-charged spare battery.	4, 6

Problem		Possible cause	Solution	Page
Movies	Can not record movies.	The camera is in  or  mode.	Choose a different shooting mode.	28
	Recording ends unexpectedly.	Files have been repeatedly recorded to and deleted from a type M <i>xD-Picture Card</i> .	After copying important files to another device, format the card or delete all files.	—
Problem images	Pictures are blurred.	The lens is dirty.	Clean the lens.	93
		The lens is blocked.	Keep objects away from the lens.	15
		!AF is displayed during shooting and the focus frame is displayed in red.	Check focus before shooting.	16, 21, 101
	! is displayed during shooting.	Use the flash or a tripod.	24	
Pictures are mottled.	The ambient temperature is high and the subject is poorly lit.	This is normal and does not indicate a malfunction. Choose a lower sensitivity.	70	
Recording	Pictures are not recorded.	Power was interrupted during shooting.	Turn the camera off before connecting the AC adapter/DC coupler. Leaving the camera on can result in corrupted files or damage to the memory card or internal memory.	—
Continuous	The camera takes one picture at a time	The self timer is on in  FINAL 3 or  LONG PERIOD modes.	Turn the self-timer off.	26

Playback

	Problem	Possible cause	Solution	Page
Pictures	Pictures are grainy.	The pictures were taken with a different make or model of camera.	—	—
	Playback zoom unavailable.	The pictures were taken in 📷 or 🗨️ modes, at an image size of 63M, or with a different make or model of camera.	—	—
Audio	No sound in voice memo and movie playback.	Playback volume is too low.	Adjust playback volume.	86
		The microphone was obstructed.	Hold the camera correctly during recording.	40, 79
		The speaker is obstructed.	Hold the camera correctly during playback.	43, 80
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.	75
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 to replace the battery or insert a memory card.	85

Connections

	Problem	Possible cause	Solution	Page
TV	No picture or sound.	The camera is not properly connected.	Connect the camera correctly.	44
		The supplied A/V cable was connected during movie playback.	Connect the camera once movie playback has ended.	43, 44
		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.	44, 82
	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.	44, 82	
Computer	The computer does not recognize the camera.	The camera is not properly connected.	Connect the camera correctly.	54
	Can not view movies.	QuickTime 7.0 or later is not installed.	Install QuickTime from the supplied CD.	—
PictBridge	Pictures can not be printed.	The camera is not properly connected.	Connect the camera correctly.	45
		The printer is off.	Turn the printer on.	—
	Only one copy is printed.	The printer is not PictBridge-compatible.	—	—
	The date is not printed.			

Miscellaneous

Problem	Possible cause	Solution	Page
Nothing happens when the shutter button is pressed.	Temporary camera malfunction.	Remove and reinsert the battery or disconnect and reconnect the AC adapter/DC coupler.	6
	The battery is exhausted.	Charge the battery or insert a fully-charged spare battery.	4, 6
The camera does not function as expected.	Temporary camera malfunction.	Remove and reinsert the battery or disconnect and reconnect the AC adapter/DC coupler. If the problem persists, contact your FUJIFILM dealer.	6, 112
No sound.	The camera is in silent mode.	Turn silent mode off.	25

Warning Messages and Displays

The following warnings are displayed in the monitor:

Warning	Description	Solution
 (red)	Low battery.	Charge the battery or insert a fully-charged spare battery.
 (blinks red)	Battery 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. 21). • If the subject is poorly lit, try focusing at a distance of about 2 m (6ft. 7 in.). • Use macro mode to focus when taking close-ups.
Aperture or shutter speed displayed 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.
PRESS THE SHUTTER BUTTON TO GO BACK TO SHOOTING MODE CLOSE THE LENS COVER TO TURN OFF THE CAMERA	 button pressed while lens cover is open.	To exit to shooting mode, press the shutter button. Close the lens cover to turn the camera off.
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.
ZOOM 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.	Format the memory card or internal memory (pg. 87).
	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 87). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.
PROTECTED CARD	The memory card is locked.	Unlock the memory card (pg. 8).
BUSY	The memory card is incorrectly formatted.	Use the camera to format the memory card (pg. 87).

Warning	Description	Solution
CARD ERROR	The memory card is not formatted for use in the camera.	Format the memory card (pg. 87).
	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. 87). If the message persists, replace the 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. 87).
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. 87). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.
FRAME NO. FULL	The camera has run out of frame numbers (current frame number is 999-9999).	Format the memory card and select RENEW for the  FRAME NO. option in the  SETUP menu. Take a picture to reset frame numbering to 100-0001, then return to the  FRAME NO. menu and select CONT.

Warning	Description	Solution
FILE IS BROKEN	A stamp file on the memory card is corrupt.	Format the memory card and copy the file again.
TOO MANY FRAMES	Date for which more than 4,999 pictures exist selected in sort-by-date view.	Choose a different date.
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.
 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 TRIM	An attempt was made to crop a OSM picture.	These pictures can not be cropped.
CAN NOT TRIM	The picture selected for cropping is damaged or was not created with the camera.	
 CAN NOT TRIM	An attempt was made to crop a blog image.	
DPOF FILE ERROR	The DPOF print order on the current memory card contains more than 999 images.	Copy the pictures to internal memory and create a new print order.
CAN NOT SET DPOF	The picture can not be printed using DPOF.	—
 CAN NOT SET DPOF	Movies can not be printed using DPOF.	—
CAN NOT ROTATE	The picture can not be rotated.	—
 CAN NOT ROTATE	Movies can not be rotated.	—
 CAN NOT EXECUTE	TRIMMING FOR BLOG can not be used with movies, pictures created with other devices, pictures that can not be viewed, or pictures created using TRIMMING FOR BLOG .	—
 CAN NOT EXECUTE		
 CAN NOT EXECUTE		
 CAN NOT EXECUTE		
 CAN NOT EXECUTE	The shutter button was pressed in  mode when the battery was low.	Charge the battery or insert a fully-charged spare battery.
 CAN NOT EXECUTE	The successive movie file has been overwritten or renamed by computer or other make of camera.	Clips can not be added to files that have been overwritten or renamed by a computer or other make of camera.

Warning	Description	Solution
PRESS AND HOLD THE DISP BUTTON TO DEACTIVATE SILENT MODE	An attempt was made to choose a flash mode or adjust the volume with the camera in silent mode.	Exit silent mode before choosing a flash mode or adjusting the volume.
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. If the device is connected via USB, check that the cable is connected; when using infrared, make sure the ports are aligned and within transmitting range of each other.
CANNOT BE TRANSMITTED	The picture is marked with a  icon.	The camera may not be able to send pictures created with other devices via infrared.
	A movie over 60 s long is selected for transmission.	Movies over 60 s long can not be sent or received via infrared.
	Infrared transmission interrupted.	Ensure that there are no obstacles between the two devices and that the devices are in range.
CANNOT BE RECEIVED	Infrared transmission interrupted.	Ensure that there are no obstacles between the two devices and that the devices are in range.
	The selected movie selected is over 60 s long or was created with another camera.	Movies over 60 s long or created with other cameras can not be sent or received via infrared.
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

Digital zoom: Unlike optical zoom, digital zoom does not increase the amount of visible detail. Instead, details visible using optical zoom are simply enlarged, producing a slightly “grainy” image.

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 that allows information stored with pictures to be used for optimal color reproduction during printing.

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.

MPEG (Motion Picture Experts Group): MPEG-4 is a movie file format that uses compression to create files suitable for web distribution. MPEG-4 files can be played in QuickTime 7.0 or later.

Smear: A phenomenon specific to CCDs which causes white streaks to appear when very bright light sources, such as the sun or reflected sunlight, appear in the frame.

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.”

Flash Mode and Shooting Mode

The flash modes available depend on the option selected for  **SHOOTING MODE** (pg. 28).

Flash mode	Shooting mode																	
	AUTO																	
AUTO/ 	✓	—	—	✓	✓	—	✓	—	—	✓	✓	—	✓	—	—	✓	✓	✓
 / 	✓	✓	—	✓	✓	—	✓	—	✓	✓	✓	—	—	—	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 / 	—	—	—	✓	✓	—	—	✓	—	—	—	—	—	—	—	—	—	✓

* Red-eye reduction ( **FACE DETECTION**  **REMOVAL ON**) not available.

Internal Memory/Memory Card Capacity

The following table shows the recording time or number of pictures available at different image qualities. 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.

	IMAGE QUALITY							MOVIE QUALITY		
	10M F	10M N	3:2	5M	3M	2M	03M	640: (30 fps)	320: (30 fps)	
Image size (pixels)	3648 × 2736	3648 × 2432	2592 × 1944	2048 × 1536	1600 × 1200	640 × 480	640 × 480	320 × 240		
File size	4.9MB	2.5 MB	2.2 MB	1.2 MB	780KB	630KB	130KB	—	—	
Internal memory (approx. 45 MB)	9	18	20	36	56	70	289	1.5 min.	7 min.	
xD-Picture Card	16 MB	3	6	7	12	19	24	99	0.5 min.	2.5 min.
	32 MB	6	12	14	24	39	48	199	1 min.	5 min.
	64 MB	12	25	28	49	78	97	399	2.5 min.	10 min.
	128 MB	25	51	57	99	156	194	799	5 min.	20 min.
	256 MB	51	103	115	199	313	390	1599	10 min.	40 min.
	512 MB	103	206	231	399	626	779	3196	20 min.	80 min.
	1 GB	207	412	463	799	1254	1560	6397	40 min.	160 min.
2 GB	415	820	927	1599	2460	3046	12796	80 min.	320 min.	
SD card	512 MB	100	199	224	386	606	754	3095	20 min.	80 min.
	1 GB	201	399	449	774	1215	1511	6197	40 min.	160 min.
	2 GB	403	797	901	1554	2392	2961	12438	80 min.	320 min.
SDHC card	4 GB	805	1591	1798	3102	4773	5909	24821	160 min.*	640 min.*
	8 GB	1617	3192	3609	6225	9578	11858	49807	320 min.*	1280 min.*

* Total length of all movie files. Individual movies can not exceed 4GB in size.

Note: The space available for movies may drop as pictures are recorded to and deleted from type M *xD-Picture Cards*. Space can be increased by deleting all frames or formatting the card. Copy any important files to a computer or other device before proceeding.

Specifications

System	
Model	FinePix Z20fd digital camera
Effective pixels	10.0 million
CCD	½.3-in., square-pixel CCD with primary color filter
Storage media	<ul style="list-style-type: none"> Internal memory (approx. 45 MB) SD/SDHC memory cards (see page 8) xD-Picture Cards (16 MB, 32 MB, 64 MB, 128 MB, 256 MB, 512 MB, 1 GB, 2 GB)
File system	Compliant with Design Rule for Camera File System (DCF), Exif 2.2, and Digital Print Order Format (DPOF)
File format	<ul style="list-style-type: none"> Still pictures: Exif 2.2 JPEG (compressed) Audio: Monaural WAV Movies: ISO standard MPEG-4 compliant (MP4)
Image size (pixels)	<ul style="list-style-type: none"> 10M F: 3,648 × 2,736 10M N: 3,648 × 2,736 3:2: 3,648 × 2,432 5M: 2,592 × 1,944 3M: 2,048 × 1,536 2M: 1,600 × 1,200 09M: 640 × 480
File size	See page 107
Lens	Fujinon 3× optical zoom lens, f/3.7 (wide angle) – 4.2 (telephoto)
Focal length	F=6.3 mm–18.9 mm (35-mm format equivalent: 35 mm–105 mm, or 40 mm–120 mm at 3:2)
Digital zoom	Approx. 5.7× (up to 17.1× when combined with optical zoom)
Aperture (wide angle)	Three steps (f/3.7, f/4.9, and f/8)
Focus range (distance from front of lens)	Approx. 60 cm (2 ft.)–infinity (wide angle/telephoto) Macro mode: approx. 8 cm–80 cm/3.1 in.–2 ft. 7 in. (wide angle); 60 cm–3 m/2 ft.–9 ft. 11 in. (telephoto)
Sensitivity	Equivalent to ISO 64, 100, 200, 400, 800, 1600; AUTO (Standard Output Sensitivity)
Metering	256-segment through-the-lens (TTL) metering
Exposure control	Programmed autoexposure
Exposure compensation	–2 EV – +2 EV in increments of ½ EV (☺ and ☹ modes)
Scene modes	(NATURAL & LIGHT), (NATURAL LIGHT), (AUCTION MODE), (PORTRAIT), (LANDSCAPE), (SPORT), (NIGHT), (SUNSET), (SNOW), (BEACH), (MUSEUM), (PARTY), (FLOWER), (TEXT), (STAMP), (SUCCESSIVE MOVIE)
Picture stabilization	Available
Intelligent Face Detection	Available

System	
Shutter speed	1/4 s–1/1,000 s (AUTO mode); 3 s–1/1,000 s (other modes); combined mechanical and electronic shutter
Continuous	<ul style="list-style-type: none"> • TOP 3: Up to 0.6 fps; max. 3 frames • LONG PERIOD: Up to 0.3 fps (one frame every 3.5 s); frame rate and maximum number of frames vary with image size and available memory • FINAL 3: Up to 0.6 fps; last 3 frames recorded
Focus	<ul style="list-style-type: none"> • Mode: Single AF • Focus-area selection: AF CENTER and AF MULTI • Autofocus system: Contrast-detect TTL AF
White balance	Automatic scene detection; six manual preset modes for direct sunlight, shade, daylight fluorescent, warm white fluorescent, cool white fluorescent, and incandescent lighting
Self-timer	Approx. 2 s and approx. 10 s
Flash	Auto flash; effective range when sensitivity is set to AUTO is approx. 70 cm–3.9 m/2 ft. 4 in.–12 ft. 11 in. (wide angle), 70 cm–3.4 m/2 ft. 4 in.–11 ft. 2 in. (telephoto), or 30 cm–80 cm/1 ft.–2 ft. 7 in. (macro mode)
Flash modes	Auto, fill flash, off, slow sync (red-eye removal off); auto with red-eye removal, fill flash with red-eye removal, off, slow sync with red-eye removal (red-eye removal on)
Monitor	2.5-in., 150k-pixel low-temperature polysilicon TFT color LCD monitor; frame coverage approx. 97%
Movies	Camera can record movies with monaural sound and a frame size of 640×480 (640i) or 320×240 (320i) at a frame rate of 30 fps
Shooting options	Intelligent Face Detection with red-eye removal, high-speed shooting, best framing, and frame number memory
Playback options	Intelligent Face Detection, micro thumbnail, multi-frame playback, sort-by-date, trimming for blog, blog effects, cropping (still pictures and movies), slide show, transition, image rotation, voice memo, and infrared communication
Other options	PictBridge, Exif Print, FinePix COLOR, language selection (Simplified Chinese, Traditional Chinese, Czech, Dutch, English, French, German, Hungarian, Italian, Korean, Polish, Portuguese, Russian, Spanish, Swedish, Thai, and Turkish), time difference, support for xD-Picture and SD memory cards
Input/output terminals	
A/V OUT (audio/video output)	NTSC or PAL with monaural sound
Digital input/output	USB 2.0 High Speed with MTP/PTP connection

Power supply/other	
Power sources	NP-45 rechargeable battery; optional AC-5VX AC adapter and CP-45 DC coupler
Battery life (NP-45)	Approx. 200 frames, based on CIPA (Camera and Imaging Products Association) standard; measured at 23°C (73°F) with the monitor on, the camera zoomed from widest angle to maximum zoom and back once every 30s, the flash fired with every other shot, and the camera turned off and then on again every 10 shots. Note that the number of shots that can be taken with a fully-charged battery varies with temperature and shooting conditions.
Camera dimensions	91.3 mm × 56.3 mm × 18.8 mm/3.6 in. × 2.2 in. × 0.8 in. (W × H × D), excluding battery and accessories
Camera weight	Approx. 110 g/3.9 oz., excluding battery, accessories, and memory cards
Shooting weight	Approx. 127 g/4.5 oz., including battery and memory card
Operating conditions	• Temperature: 0°C – +40°C/+32°F – +104°F • Humidity: 10%–80% (no condensation)
NP-45 rechargeable battery	
Nominal voltage	DC 3.7V
Nominal capacity	740 mAh
Operating temperature	0°C – +40°C/+32°F – +104°F
Dimensions (W × H × D)	31 mm × 39.4 mm × 5.7 mm/ 1.2 in. × 1.6 in. × 0.2 in.
Weight	Approx. 15 g/1.0 oz.
BC-45 battery charger	
Rated input	100–240V AC, 50/60Hz
Input capacity	9.0VA
Rated output	4.2V DC, 550 mA
Supported batteries	NP-45 rechargeable battery
Charging time	Approx. 180 minutes
Dimensions (W × H × D)	91 mm × 46 mm × 21 mm/ 3.6 in. × 1.8 in. × 0.8 in.
Weight	Approx. 55 g/1.9 oz., excluding battery
Operating temperature	0°C – +40°C/+32°F – +104°F

Notes on the Battery and Battery Charger

- The battery and charger may become warm to the touch during charging. This is normal and does not indicate a malfunction. If possible, charge the battery in a well-ventilated location.
- The battery charger may vibrate when in use. This is normal and does not indicate a malfunction.
- The charger is for use with NP-45 batteries only.
- If the charger causes radio interference, increase the distance between the charger and the radio receiver.
- Do not leave the charger in locations that are very dusty or exposed to strong vibration, extreme humidity, or high temperatures (for example, in direct sunlight or next to a heater).
- The battery charger can be used with input voltages of 100–240 V AC and 50 or 60 Hz. The shape of the plug varies with the country of sale; consult your travel agent to determine whether the charger can be used abroad.

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 (particularly in the vicinity of text) may appear. 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.

FUJIFILM Digital Camera Worldwide Network

Contact your local distributor (see list below) for repairs and technical support. Please present the warranty and purchase receipt when requesting repairs; refer to the warranty card for the conditions of the warranty. Technical support may not be available for models not handled by the local distributor. The following information is subject to change without notice.

NORTH AMERICA

Canada	FUJIFILM Canada Inc.	600 Suffolk Court Mississauga Ontario, L5R 4G4
	Technical support	TEL 1-866-818-FUJI (3854) http://www.fujihelp.ca
	Repair service	600 Suffolk Court Mississauga Ontario, L5R 4G4 TEL 1-800-263-5018 FAX 1-905-755-2993 http://www.fujihelp.ca
U.S.A.	FUJIFILM U.S.A., Inc.	1100 King George Post Rd., Edison, NJ 08837
	Technical support	TEL 800-800-3854 FAX 732-857-3487 digitalinfo@fujifilm.com
	Repair service	1100 King George Post Rd., Edison, NJ 08837 TEL 732-857-3000 FAX 732-857-3471 njcamerarepair@fujifilm.com

CENTRAL AND SOUTH AMERICA

Argentina	Imagen e informacion S.A.	Fondo de la Legua 936 San Isidro Pcia. de Buenos Aires TEL +54-11-4836-1000 FAX +54-11-4836-1144 servtec@imagineinformacion.com.ar
Bolivia	Reifschneider Bolivia Ltda.	Calle H N.º 5 - Equipetrol Norte - Santa Cruz TEL +591 33 44 1129 FAX +591 33 45 2919 gciagrall@bibosi.scz.entelnet.bo
Brazil	FUJIFILM do Brasil Ltda.	Av. Vereador José Diniz, 3400 - Campo Belo, São Paulo/SP TEL 0800-12-8600 FAX +55 11 5091-4150 camarasdigitais@fujifilm.com.br
Chile	Reifschneider SA	Av. El Conquistador del Monte 5024, Huechuraba, Santiago, Chile TEL 02-4431500 FAX 02-4431596 ceciliacalvo@reifschneider.cl
Colombia	Animex de Colombia Ltda.	Calle 44 N.º 13-43 Piso 2 Apartado 18001 - Bogotá TEL +57 1 338-0299 FAX +57 1 288-2208 animex@etb.net.co
Ecuador	Espacri Cia Ltda	Bolívar 5-69 y Hermano Miguel TEL 593-72-835526 FAX 593-72-833157
	Importaciones Espacri Cia. Ltda.	Simón Bolívar 5-69 y Hno. Miguel - Cuenca TEL +593 783 5526 FAX +593 783 3157 portiz@fujifilm.com.ec
Mexico	Fujifilm de Mexico, S.A. de C.V.	Av. Ejercito Nacional 351, Col. Granada 11520 Mexico, D.F. TEL (52-55) 5263-5566 / 68 FAX (52-55) 5254-1508 jlgiraud1@fujifilm.com.mx
	Repair service	Av. Presidente Juarez 2007, Col. Tepetlcalco, 54090 Tlalnepantla, Edo. de Mexico TEL (52-55) 5263-5500 FAX (52-55) 5254-1508 jlgiraud1@fujifilm.com.mx

CENTRAL AND SOUTH AMERICA

Paraguay	Errece S.R.L. Technical support & repairs	Edificio Unitas 15 de Agosto 1035, Asunción TEL +595 21 444256 FAX +595 21 444651 jmarbulo@fujifilm.com.py
Peru	Procesos de Color S.A. Technical support & repairs	Pablo Bermudez 111 Apartado 3794 - Esq. Arequipa - Lima 11 TEL +51 14 33 5563 FAX +51 14 33 7177 jalvarado@fujifilm.com.pe
Uruguay	Fotocamara S.R.L. Technical support & repairs	Cuareim 1439, montevideo, Uruguay TEL +598-2-9002004 FAX +598-2-9008430 fotocam@adinet.com.uy
	Kiel S.A. Technical support & repairs	Maldonado 1787 Montevideo- Uruguay TEL (05982) 419 4542 FAX (05982) 412 0046 kiel@fujifilm.com.uy
Venezuela	C. Hellmund & Cia Sa Technical support & repairs	Av. Ppal Diego Cisneros Caracas Venezuela Edf Oficentro TEL 0212-2022300 FAX 0212-2399796 hellmund@hellmund.com

EUROPE

Austria	Fuji Film Oesterreich Technical support & repairs	Traviatagasse/Pfarrgasse, 1230 Vienna, Austria TEL 0043 1 6162606/51 or 52 FAX 0043 1 6162606/58 kamera.service@fujifilm.at
Belgium	Belgian Fuji Agency Technical support & repairs	20, Avenue Lavoisier, Wavre, 1300, Belgium TEL 3210242090 FAX 3210238562 info@fuji.be
Croatia	I&I d.o.o. Technical support Repair service	Hondlova 2, Zagreb, Croatia TEL 38512319060 FAX 2310240 dsaravanja@fujifilm.hr Hondlova 2, Zagreb, Croatia TEL 38512316228 FAX 2310240 info@fujifilm.hr
Cyprus	PMS IMAGING LTD Technical support & repairs	11, Dighenis Akritas Avenue, P.O.BOX 22315, 1586 Nicosia TEL 35722746746 FAX 35722438209 mariosashiotis@fujifilm.com.cy
	Doros Neophytou CAMERA REPAIRS Technical support & repairs	28B, Agiou Demetriou, Acropolis, Nicosia TEL 35722314719 FAX 35722515562 dorosn@logosnet.cy.net
Czech Republic	Fujifilm Cz, s.r.o. Technical support	U nakladoveho nadrazi 2/1949, 130 00 Praha 3 TEL 00420 234 703 411 FAX 00420 234 703 489 fricman@fujifilm.cz
	AWH servis Repair service	Milesovska 1, 130 00 Praha 3, Czech republic TEL 00420 222 721 525 FAX 00420 222 720 122 awh@awh.cz
Denmark	Fujifilm Denmark A/S Technical support & repairs	Stubbeled 2, 2950 Vedbæk Denmark TEL 0045 45662244 FAX 0045 45662214 fujifilm@fujifilm.dk
Finland	Fuji Finland Oy Technical support & repairs	Martinkyläntie 41, 01720 Vantaa, Finland TEL +358 9 825951 FAX +358 9 870 3818 fuji@fuji.fi
France	FUJIFILM France Technical support & repairs	9 rue d'Alembert BAT A1 ZA Pissaloup 78190 Trappes, France FAX 33 1 01 30 58 58 65 direction.technique@pm2s.fr

EUROPE

Germany	FUJIFILM Electronic Imaging Europe GmbH Technical support & repairs	Benzstrasse 2, 47533 Kleve, Germany International call TEL +49 (0) 2821 7115-0 FAX +49 (0) 2821 7115-100 <i>service@fujifilm-digital.com</i> National call* TEL 0180 5898980 FAX 0180 5898982 * 12 Cent/Min aus dem deutschen Festnetz
Greece	FUJIFILM HELLAS S.A. Technical support & repairs	1, Ihou & Ag. Anargiron str., 175 64 P.Phaliro, Athens, Greece TEL 0030 210 9404100 FAX 0030 210 9404397 <i>fujifilm@fujifilm.gr</i>
Hungary	Fujifilm Hungary Ltd. Technical support	Vaci ut 19. Budapest, 1134, Hungary TEL 3612389410 FAX 3612389401 <i>fujifilm@fujifilm.hu</i>
Iceland	Icephoto (Ljosmyndavorur) Technical support & repairs	Skipholt 31, 105 Reykjavik, Iceland TEL 354 568 0450 FAX 354 568 0455 <i>framkollun@fujifilm.is</i>
Italy	Fujifilm Italia S.p.A. Technical support Repair service	Via Dell'Unione Europea, 4 - 20097 San Donato Milanese (MI), Italy TEL 039-02895821 FAX 039-0289582912 <i>info@fujifilm.it</i> Fujifilm On Line - Call center TEL 039-026695272 <i>info@fujifilm.it</i>
Lithuania	Fujifilm Lithuania Technical support & repairs	Gerosios Vilties str. 38, LT-03143 Vilnius, Lithuania TEL 370-5-2130121 FAX 3705-5-2134066 <i>info@fujifilm.lt</i>
Malta	Ciancio (1913) Co.Ltd. Technical support & repairs	Fuji Tech Centre, Ciancio House, Cannon Road, Qormi, QRM05 TEL 0356-21-480500 FAX 0356-21-488328 <i>info@fujifilm.com.mt</i>
Norway	Fujifilm Norge AS Technical support Repair service	Lilleakerveien 10, 0283 Oslo, Norway TEL 0047-22736000 FAX 0047-22736020 <i>http://www.fujifilm.no/mailto:post@fujifilm.no</i> Liaveien 1, 5132 Nyborg, Norway TEL 0047-55393880 FAX 0047-55195201 <i>http://www.camera.no/mailto:service@camera.no</i>
Poland	Fujifilm Polska Distribution Sp. z o.o. Technical support Repair service	Poland Al...Jerzolimskie 178; 02-486 Warszawa TEL +48-22-517-66-00 FAX +48-22-517-66-02 <i>fujifilm@fujifilm.pl</i> Poland, Muszkietierow 15, 02-273 Warszawa TEL +48-22-886-94-40 FAX +48-22-886-94-42 <i>serwis@fujifilm.pl</i>
Portugal	Fujifilm Portugal, Lda Technical support Repair service	Av. Fontes Pereira de Melo, 342, 4100-259 Porto, Portugal TEL (351) 226194200 FAX (351) 226194213 <i>finepix@fujifilm.pt</i> Av. Fontes Pereira de Melo, 342, 4100-259 Porto, Portugal TEL (351) 226194200 FAX (351) 226194213 <i>cameras@fujifilm.pt</i>
Romania	CTS-Cardinal Top Systems Ltd Technical support & repairs	112, Calea Dorobanti street, 4 flat, 1sector, Bucharest, Romania TEL 4021-230-09-82 FAX 4021-230-09-82 <i>cts_tirla@hotmail.com</i>

EUROPE

Russia	ZAO "Fujifilm RU" Technical support Repair service	Bld. 1, 10, Rozanova str., Moscow, 123007, Russia TEL +7-495-956-98-58 FAX +7-495-230-62-17 info@fujifilm.ru www.fujifilm.ru TEL +7-495-956-98-58
Slovakia	Fujifilm Slovakia Technical support Repair service	Pribylinska 2, 831 04 Bratislava, Slovakia TEL 00421 2 44 888 077 FAX 00421 2 44 889 300 fujifilm@fujifilm.sk FIS Tatracentrum, Hodzovo nam. 4 - Tatracentrum, 811 06 Bratislava, Slovakia TEL 00421 2 54 647 347 fis.tatracentrum@stonline.sk
Spain	Fujifilm España S.A. Technical support Repair service	Aragón 180, 08011 Barcelona (España) TEL 902012535 FAX 934515900 / 933230330 info@fujifilm.es Aragón 180, 08011 Barcelona (España) TEL 934511515 FAX 934515900 / 933230330 tallersat@fujifilm.es
Sweden	Fujifilm Sverige AB Technical support Repair service	Sveavägen 167 113 46 Stockholm TEL 46 8 506 141 70 FAX 46 8 506 142 09 kamera@fujifilm.se Sveavägen 167 113 46 Stockholm TEL 46 8 506 513 54 FAX 46 8 506 513 54 kameraverkstaden@fujifilm.se
Switzerland / Liechtenstein	Fujifilm (Switzerland) AG Technical support & repairs	Niederhaslistrasse 12, 8157 Dietlikon, Switzerland TEL +41 44 855 5154 FAX +41 44 855 5329 RepairCenter@fujifilm.ch
Netherlands	FUJIFILM Electronic Imaging Nederland Technical support Repair service	Hoogstraat 35, 3011 PE Rotterdam, Netherlands TEL +31(0)102812500 FAX +31(0)102812560 helpdesk@fujifilm-digital.nl Hoogstraat 35, 3011 PE Rotterdam, Netherlands TEL +31(0)102812520 FAX +31(0)102812550 camerareparaties@fujifilm-digital.nl
Turkey	Fujifilm Türkiye Sinfo A.S. Technical support Repair service	Fujifilm Plaza, Dereboyu Cad. 39 34660 Halkali, Istanbul, Turkey TEL +90 212 696 5090 FAX +90 212 696 5009 csarp@fujifilm.com.tr Fujifilm Plaza, Dereboyu Cad. 39 34660 Halkali, Istanbul, Turkey TEL +90 212 696 5090 FAX +90 212 696 5010 servis@fujifilm.com.tr
U.K.	FUJIFILM UK Ltd. Technical support Repair service	St Martins Way St Martins Business Centre Bedford MK42 0LF TEL +44 (0)123 424 5383 FAX +44 (0)123 424 5285 fujitec@fuji.co.uk St Martins Way St Martins Business Centre Bedford MK42 0LF TEL +44 (0)123 421 8388 FAX +44 (0)123 424 5285 fujitec@fuji.co.uk
Ukraine	Image Ukraine CJSC Technical support & repairs	12, Kontraktova ploshcha, Kyiv 04070, Ukraine TEL +380-44-4909075 FAX +380-44-4909076 d@fujifilm.ua

MIDDLE EAST

Iran	Tehran Fuka Co. Technical support & repairs	229,"Fuji" Bldg., Mirdamad Blvd., Tehran 19189, Iran TEL (+98-21)2254810-19 FAX (+98-21)2221002 fuka@neda.net
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MIDDLE EAST

Israel	Shimone Group Ltd. Technical support Repair service	Efal 33 keyriat Arie Petah Tikva 49130, Israel TEL (+) 972 3 9250666 <i>digital@fujifilm.co.il</i> Efal 33 keyriat Arie Petah Tikva 49130, Israel TEL (+) 972 3 9250666 FAX 972 3 9250699 <i>khaim@shimone.com</i>
Jordan	Grand Stores Technical support & repairs	Al- Abdali, Amman / Jordan TEL 009626-4646387 FAX 009626-4647542 <i>gstores@go.com.jo</i>
Qatar	Techno Blue Technical support	Blue Salon Bldg, 3rd Floor, Suhaim bin Hamad st, Al- Saad, Doha TEL 00974 44 66 175 FAX 00974 44 79 053 <i>prabu@techno-blue.com</i>
Saudi Arabia	Emam Distribution Co. Ltd. Technical support	P.O. Box 1716, Jeddah 21441, Saudi Arabia TEL 96626978756 FAX 96626917036 <i>service@fujifilm.com.sa</i>
Syria	Film Trading Company Technical support Repair service	Al-Shahbandar P.O. Box:31180 Damascus SYRIA TEL + 963 11 2218049 FAX + 963 11 44673456 <i>f.t.c@Net.SY</i> Al-cheikh Taha P.O. Box: 6171 Aleppo SYRIA TEL + 963 21 4641903 FAX + 963 21 4641907 <i>filmtradin@Net.SY</i>
U.A.E.	Grand Stores Technical support & repairs	P. O. Box 2144, Saleh Bin Lahej Building, Al Garhoud, Deira, Dubai TEL + 971-4-2823700 FAX + 971-4-2828382 <i>photography@grandstores.ae</i>
Yemen	Al-Haidary Trading Technical support Repair service	P.O.Box-2942 Haddah St. HTC, Sana'a, Yemen TEL 00967-1-503980 FAX 00967-1-503983 P.O.Box-2942 Haddah St. HTC, Sana'a, Yemen TEL 00967-1-503977 FAX 00967-1-503983

AFRICA

Egypt	Foto Express Egypt Technical support & repairs	426 Pyramids St., Giza, Egypt TEL (202) 7762062 FAX (202) 7760169 <i>fotoegypt@access.com.eg</i>
Kenya	Fuji Kenya Ltd Repair service	P.O.Box 41669-00100, Fuji Plaza, Chiromo Road, Nairobi, Kenya. TEL (254-20)4446265-8 FAX (254-20)4448515 / 7 <i>info@fujifilm.co.ke</i>

OCEANIA

Australia	FUJIFILM Australia Pty Ltd Technical support & repairs	Locked Bag 5100, Brookvale, NSW, 2100 TEL 1800 226 355 FAX +61 (2) 9466 2854 <i>digital@fujifilm.com.au</i>
Fiji	Brijlal & Co. Ltd Technical support & repairs	70-72 Cumming Street, Suva, Fiji TEL (679)3304133 FAX (679)3302777 <i>kapadia@connect.com.fj</i>
New Caledonia	Phocidis SARL Technical support & repairs	58, rue Higginson - B.P.661 - 98845 TEL (00 687) 25-46-35 FAX (00 687) 28-66-70 <i>phocidis@phocidis.nc</i>
New Zealand	Fujifilm NZ Ltd Technical support & repairs	Cnr William Pickering & Bush Road Albany, Auckland TEL +64-9-4140400 FAX +64-9-4140410 <i>glenn.beaumont@fujifilm.co.nz</i>

OCEANIA

Papua New Guinea **Oceania PNG Limited** Section 15, Allotment 1, Reke St, Boroko NCD. PNG. Mail: PO Box 2167, Boroko NCD.
 Technical support PNG. TEL +675 3256411 FAX +675 3250311 oceania@daltron.com.pg

ASIA

Hong Kong	Fuji Photo Products Co., Ltd. Technical support & repairs	8/F., TSUEN WAN IND. CENTRE, 220 TEXACO RD., TSUEN WAN, HONG KONG TEL (852)2406 3287 FAX (852)2408 3130 rsd@chinahkphoto.com.hk
Indonesia	PT Modern Photo Tbk Technical support & repairs	Jl.Matraman Raya 12, Jakarta Timur 13150 TEL +62 021 2801000 FAX +62 021 8581620+62 021 2801012 assd-kmr@modernphoto.co.id
Malaysia	FUJIFILM (Malaysia) Sdn. Bhd. Technical support	Letter Box 1, Level 10, 11 & 12, Menara Axis, No 2, Jalan 51A/223, 46100 Petaling Jaya, Selangor Darul Ehsan, Malaysia TEL 603-79584700 FAX 603-79584110 digital@fujifilm.com.my
	Repair service	Letter Box 1, Level 10, 11 & 12, Menara Axis, No 2, Jalan 51A/223, 46100 Petaling Jaya, Selangor Darul Ehsan, Malaysia TEL 603-79584700 FAX 603-79584110 technical@fujifilm.com.my
Philippines	YKL Development & Trdg. Corp. Technical support	24 Sto. Domingo St., Quezon City 1100, Philippines TEL 632-7436601~06 FAX 632-7324661 digital@yklcolor.com
	Repair service	24 Sto. Domingo St., Quezon City 1100, Philippines TEL 632-7436601~06 FAX 632-7324661 tech_services@yklcolor.com
Singapore	FUJIFILM (Singapore) Pte Ltd Technical support & repairs	10 New Industrial Road Fujifilm Building Singapore 536201 TEL 65-6380 5557 FAX 65-6281 3594 service@fujifilm.com.sg
South Korea	Korea Fujifilm Co., Ltd. Technical support	30-1, Mukjeung-dong, Jung-gu, Seoul, Korea TEL +82-2-3282-7363 FAX +82-2-2269-7435 photo@fujifilm.co.kr
	Yonsan AS Center (Fujidigital) Repair service	#301, 3F, Jeonjaland, 16-9, Hangangro3-ga, Yongsan-gu, Seoul, Korea TEL +82-2-701-1472 FAX +82-2-718-1331 1bowl@hanmail.net
	Kangnam AS Center (Digitalgallery) Repair service	2F, Hyeongin Tower, 23-2, Bangyi-dong, Songpa-gu, Seoul, Korea TEL +82-2-2203-1472 FAX +82-2-418-5572 nurijilli@hanmail.net
	Busan AS Center (Digital-Sewon) Repair service	241-4, Bujeon-dong, Busanjin-gu, Busan, Korea TEL +82-51-806-1472 FAX +82-51-817-0083 merahan@yahoo.co.kr
Taiwan	Hung Chong Corp. Technical support & repairs	No. 38, Min-Chuan E. Rd. Sec. 6, Taipei (114), Taiwan, R.O.C. TEL 886-2-6602-8988 FAX 886-2-2791-8647 dah@mail.hungchong.com.tw
Thailand	FUJIFILM (Thailand) Ltd. Technical support	388 SP Building, 8th Floor, Phayathai, Bangkok 10400 TEL +662-2730029 ext. 755 FAX +662-2730239 supaleark@fujifilm.co.th
	Repair service	388 SP Building, 8th Floor, Phayathai, Bangkok 10400 TEL +662-2730029 ext.761,762 FAX +662-2730239 warin@fujifilm.co.th
Vietnam	International Minh Viet Co., Ltd. Technical support & repairs	99-107 Bach Van street, Ward 5, District 5, Ho chi minh city TEL +84-8-8366807 ext.122 FAX +84-8-8380621 diep.phanthithanh@imv.com.vn

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http://www.fujifilm.com/products/digital_cameras/index.html