# DIGITAL CAMERA FINEPIX

## Owner's Manual

Thank you for your purchase of this product. This manual describes how to use your FUJIFILM FinePix F70EXR 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.html













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First Steps

**Basic Photography and Playback** 

More on Photography

More on Playback

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## **About This Manual**

Before using the camera, read this manual and the warnings on the *Basic Manual*. For information on specific topics, consult the sources below.

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✓ Troubleshooting ......pg. 97
Having a specific problem with the camera?
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✓ Warning Messages and Displays ......pg. 104
Find out what's behind that flashing icon or error message in the monitor or electronic viewfinder.

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The meanings of some technical terms may be found here.

### Memory Cards

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

## Camera Q & A

Find items by task.

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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.

**蜀 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-50 rechargeable battery



BC-45W battery charger



USB cable



FinePix software CD

## Attaching the Strap

Attach the strap as shown.



A/V cable



Strap



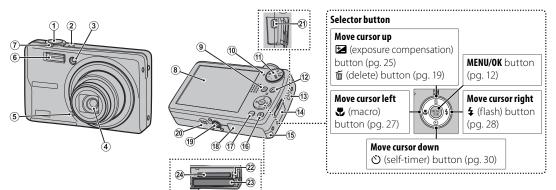




- Owner's Manual CD (contains this manual)
- Basic Manual

## **Parts of the Camera**

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



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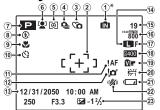
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## **Camera Displays**

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

### **■** Shooting



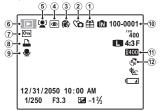
\* M: indicates that no memory card is inserted and that pictures will be stored in the camera's internal memory (pg. 8).

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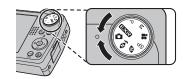
### ■ Playback



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#### The Mode Dial

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



increase dynamic range, or let the camera automatically adjust settings to suit the scene (pg. 32).

▲ (AUTO): A simple "point-and-shoot" mode recommended for first-time users of digital cameras (pg. 14).

• (NATURAL & 4): Helps ensure good results in 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 (pq. 34).

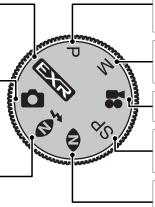
P (PROGRAM AE): Select for full control over all camera settings except shutter speed (pg. 39). Choose between program and aperture-priority AE.

**M (MANUAL)**: Select for full control over camera settings, including shutter speed and aperture (pg. 38).

(MOVIE): Record movies with sound (pg. 47).

**SP** (**SCENE POSITION**): Choose a scene suited to the subject or shooting conditions and let the camera do the rest (pg. 35).

(NATURAL LIGHT): Capture natural light indoors, under low light, or where the flash can not be used (pg. 35).

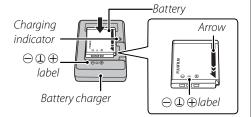


## **Charging the Battery**

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

## **Batteries**

The camera uses an NP-50 rechargeable battery.



**2** Plug the charger in.
Plug the charger into a power outlet. The

charging indicator will light.

Cautions

- 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.

## The Charging Indicator

The charging indicator shows battery charge status as follows:

Charging indicator	Battery status	Action
	Battery not	Insert
Off	inserted.	the battery.
OII	Battery fully	Remove
	charged.	the battery.
On	Battery charging.	_
		Unplug the
Blinks	Battery fault.	charger and
DIIIIKS		remove the
		battery.

**3** Charge the battery.

Remove the battery when charging is complete.

## **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

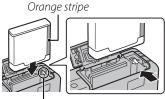
- Do not open the battery-chamber cover when the camera is on. Failure to observe this precaution could result in damage to image files or memory cards.
- Do not use excessive force when handling the battery-chamber cover.

## **2** Insert the battery.

Insert the battery with the terminals first and the orange stripe aligned with the orange battery latch. Slide the battery into the camera, keeping the battery latch pressed to one side as shown below. Co



side as shown below. Confirm that the battery is securely latched.



Battery latch

### **\** Caution

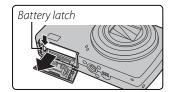
Insert the battery in the correct orientation. **Do** NOT **use force or attempt to insert the battery upside down or backwards.** The battery will slide in easily in the correct orientation.

## **?** Close the battery-chamber cover.



### Removing the Battery

After turning the camera off, open the batterychamber 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.

### ■ Tips: Using an AC Adapter

- The camera can be powered by an optional AC adapter and DC coupler (sold separately). See manuals provided with the AC adapter and DC coupler for details.
- If the camera is powered by an AC adapter, demo mode instructions will be displayed when the camera is turned on. Selecting this option starts a slide show. To cancel, press the shutter button.

#### **\** Cautions

- 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.
- Use only battery chargers designated for use with the battery. Failure to observe this precaution could result in product malfunction.
- Do not remove the labels from the battery or attempt to split or peel the outer casing.
- The battery gradually loses its charge when not in use. Charge the battery one or two days before use.

## **Inserting a Memory Card**

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

When no memory card is inserted, \( \bar{\text{l}} \) 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 81). 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

SanDisk SD and SDHC memory cards have been tested and approved for use in the camera. A complete list of approved memory cards is available at <a href="http://www.fujifilm.com/products/digital\_cameras/index.html">http://www.fujifilm.com/products/digital\_cameras/index.html</a>. Operation is not guaranteed with other cards. The camera can not be used with MultiMediaCard (MMC) or <a href="https://www.fujifilm.com/products/digital\_cameras/index.html">https://www.fujifilm.com/products/digital\_cameras/index.html</a>. Operation is not guaranteed with other cards. The camera can not be used with MultiMediaCard (MMC) or <a href="https://www.fujifilm.com/products/digital\_cameras/index.html">https://www.fujifilm.com/products/digital\_cameras/index.html</a>.

### **\** Caution

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



Write-protect switch

### Inserting a Memory Card

1 Open the battery-chamber cover.

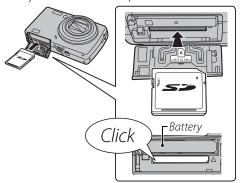


#### **◆** Note

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

## **)** Insert the memory card.

Holding the memory card in the orientation shown below, slide it all the way in. Press firmly until it clicks into place.



#### **\** Caution

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

**3** Close the battery-chamber cover.



## Removing Memory Cards

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



#### **\** Cautions

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

#### **\** Cautions

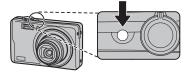
- Do not turn the camera off or remove the memory card while the memory card is being formatted or data are being recorded to or deleted from the card. Failure to observe this precaution could damage the card.
- Format SD memory cards before first use, and be sure to reformat all memory cards after using them in a computer or other device. For more information on formatting memory cards, see page 89.
- 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 affix labels to memory cards. Peeling labels can cause camera malfunction.
- 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**

Press the **ON/OFF** button to turn the camera on. The lens will extend and the lens cover will open.



Press **ON/OFF** again to turn the camera off.

## ■ Tip: Switching to Playback Mode

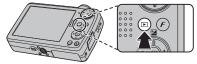
Press the **b** button for about a second to start playback. Press the shutter button halfway to return to shooting mode.

### **\** Cautions

- Forcibly preventing the lens from extending could cause damage or product malfunction.
- Pictures can be affected by fingerprints and other marks on the lens. Keep the lens clean.
- The **ON/OFF** button does not completely disconnect the camera from its power supply.

## **Playback Mode**

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



Press the **ON/OFF** button to turn the camera off.

### ■ Tip: Switching to Shooting Mode

To exit to shooting mode, press the shutter button halfway. Press the **b** button to return to playback.

### 

The camera will turn off automatically if no operations are performed for the length of time selected in the **AUTO POWER OFF** menu (pg. 91). To turn the camera on, use the **ON/OFF** button or press the **D** button for about a second.

## **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 85).

## 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.
- DE QUICK AF: Reduce focusing time, ensuring a quick shutter response.
- di CLEAR DISPLAY: Choose this option for a brighter, higher quality display.

### 3.2 Press MENU/OK.



#### **▼** Tip: The Camera Clock

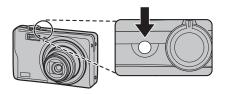
If the battery is removed for an extended period, the camera clock will be reset and the language-selection dialog will be displayed when the camera is turned on. If the battery is left in the camera or an optional AC adapter connected for about four days, the battery can be removed for about seven days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

## Taking Pictures in (Auto) Mode

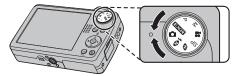
This section describes how to take pictures in (auto) mode.

Turn the camera on.

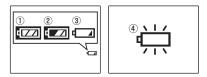
Press the ON/OFF button to turn the camera on.



2 Select nmode.
Rotate the mode dial to n.



**3** Check the battery level. Check the battery level in the display.

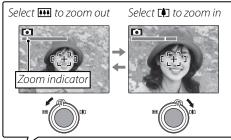


Indicator	Description
(white)	Battery partially discharged.
(white)	Battery more than half discharged.
4	Low battery. Charge as soon as
(red)	possible.
	Battery exhausted. Turn camera off
(blinks red)	and charge battery.

## 4 Frame the picture.

Position the main subject in the focus frame and use the zoom control to frame the picture in the display.

The zoom speed can be changed by adjusting the position of the zoom control.





By default, the camera uses optical zoom only. If desired, digital zoom (pg. 92) can be used 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. 22) to focus on subjects that are not in the focus frame.

### Framing Guideline and Post-Shot Assist Window

In shooting mode, press **DISP/BACK** to select a shooting display format. The selection changes each time **DISP/BACK** is pressed.



BEST FRAMING

 Best Framing: To use the best framing, position the main subject at the intersection of two lines or align one of the horizontal lines with the horizon. Use focus lock (pg. 22) to focus on subjects that will not be in the center of the frame in the final photograph.

### Avoiding Blurred Pictures

If the subject is poorly lit, blurring caused by camera shake can be reduced by activating the DUAL IS



MODE. «•» 1 CONTINUOUS,
«•» 2 SHOOTING ONLY or OFF

can be set in the setup menu (pg. 87).

## **■ Tip**

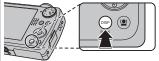
When using the camera with a tripod, **DUAL IS MODE** is recommended to be **OFF**.

#### **◆** Note

Sensitivity is raised when dual IS is in effect. Note that blurring may still occur depending on the scene or shooting conditions.



In situations in which camera sounds or lights may be unwelcome, hold the **DISP/BACK** button down until **( )** is displayed (note that silent mode is not available during movie or voice memo playback).





The camera speaker, flash, and AF-assist illuminator/self-timer lamp turn off and flash and volume settings can not be adjusted (note that the flash will still fire in �� mode). To restore normal operation, press the DISP/BACK button until the �� icon is no longer displayed. Silent mode can also be set from the setup menu (pg. 87).

## **5** Focus.

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

Press



halfway



Focus frame

Camera selects small focus frame and focuses on subject

### **←** Note

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

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

If the camera is unable to focus, the focus frame will turn red, **!AF** will be displayed, and the indicator lamp will blink green. Change the composition or use focus lock (pg. 22).

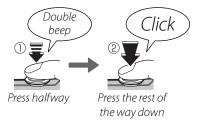
## 6 Shoot.

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



### **■ Tip: The Shutter Button**

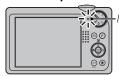
The shutter button has two positions. Pressing the shutter button halfway (①) sets focus and exposure; to shoot, press the shutter button the rest of the way down (②).



#### **←** Note

If the subject is poorly lit, the flash may fire when the picture is taken. For information on using the flash when lighting is poor, see page 28.

## The Indicator Lamp



Indicator lamp

The indicator lamp shows camera status as follows:

Indicator lamp	Camera status
Glows green	Focus locked.
Blinks green	Blur, focus, or exposure warning.
billiks green	Picture can be taken.
Blinks green	Recording pictures. Additional
and orange	pictures can be taken.
Glows	Recording pictures. No additional
orange	pictures can be taken at this time.
Blinks orange	Flash charging; flash will not fire
	when picture is taken.
	Lens or memory error (internal
Blinks red	memory or memory card full or not
Dili iks ied	formatted, format error, or other
	memory error).

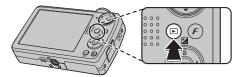
### **▼ Tip: Warnings**

Detailed warnings appear in the display. See pages 104–107 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 **b** button for about a second.



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 (面). 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

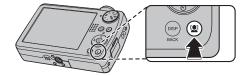
Pictures can also be deleted from the playback menu (pg. 45).

## Intelligent Face Detection

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 (in vertical or horizontal orientations) to prevent the camera from focusing on the background. 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 turn Intelligent Face
Detection on. The selection changes each
time the ☑ button is pressed.



### **◆** Note

When removing red-eye effect, select **ON** for **RED EYE REMOVAL** in the setup menu (pg. 87).

**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



Green border

to the center; other faces are indicated by white borders.

**3** Focus.

Press the shutter button halfway to focus on the subject in the green border. Note that, in some shooting modes, exposure is adjusted for the current shooting mode and may not be optimized for the selected subject.

#### **\** Caution

If no face is detected when the shutter button is pressed halfway (pg. 99), the camera will focus on the subject at the center of the display and red-eye will not be removed.

## 4 Shoot.

Press the shutter button all the way down to shoot.



#### **\** Caution

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.

#### **▼** Tip: Red-Eye Removal

Select **ON** for the **SAVE ORG IMAGE** option in the setup menu (pg. 86) to save unprocessed copies of pictures created with red-eye removal.

### Intelligent Face Detection

Intelligent Face Detection is recommended when using the self-timer for group- or self-portraits (pg. 30).



When a picture taken with Intelligent Face Detection is displayed, the camera can automatically select faces for red-eye removal (pg. 77), playback zoom (pg. 42), slide shows (pg. 75), printing (pg. 51), and crop (pg. 80).

## **Focus Lock**

To compose photographs with off-center subjects:

Position the subject in the focus frame.



## **7** 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



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. 22) to focus on another subject at the same distance and then recompose the photograph.

• Very shiny subjects such as mirrors or car bodies.

• Fast-moving subjects.



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

#### The AF-Assist Illuminator

If the subject is poorly lit, the AF-assist illuminator will light to assist the focus operation when the shutter button is pressed halfway.



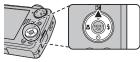
#### **★** Notes

- Avoid shining the AF-assist illuminator directly into your subject's eyes. See page 87 for information on disabling the AF-assist illuminator.
- The camera may be unable to focus using the AF-assist illuminator in some cases. If the camera is unable to focus in macro mode (pg. 27), try increasing the distance to the subject.
- The AF-assist illuminator is not available in silent mode

## **Exposure Compensation**

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

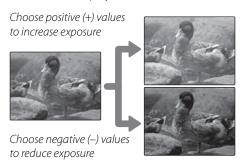
Press the selector up (☑).
The exposure indicator will be displayed.





**2** Choose a value.

Press the selector button. The effect is visible in the display.



**Return to shooting mode.** Press **MENU/OK** to return to shooting mode.



**4** Take pictures.

#### **★** Note

A  $\blacksquare$  icon and exposure indicator are displayed at settings other than  $\pm 0$ . Exposure compensation is not reset when the camera is turned off; to restore normal exposure control, choose a value of  $\pm 0$ .

### Choosing an Exposure Compensation Value

• Backlit subjects: choose values from +3 EV to +13 EV (for an explanation of the term "EV", see the Glossary on page 108)



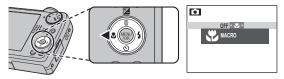
• Highly reflective subjects or very bright scenes (e.g., snowfields): +1 EV



- Scenes that are mostly sky: +1~EV
- **Spotlit subjects** (particularly if photographed against dark backgrounds): –3/3 EV
- Subjects with low reflectivity (pine trees or dark-colored foliage): -3/3 EV

## Macro Mode (Close-ups)

For close-ups, press the selector left ( ). The selection changes each time the selector is pressed.



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

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

### **←** Notes

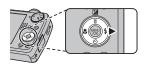
- Use of a tripod is recommended to prevent blur caused by camera shake.
- The flash may fail to light the entire subject at very short ranges. Increase the distance to the subject and try again.

## **4** Using the Flash (Super Intelligent Flash)

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

## 1 Choose a flash mode.

Press the selector right (4). 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 display. Choose from the following options:



Mode	Description
AUTO (AUTO FLASH)	The flash fires when required. Recommended in most situations.
	The flash fires whenever a picture is taken. Use for backlit subjects or for natural
	coloration when shooting in bright light.
(SUPPRESSED)	The flash does not fire even when the subject is poorly lit. 🞾 will appear in the
FLASH)	monitor at slow shutter speeds to warn that pictures may be blurred. Use of a
·	tripod is recommended.
\$4 (SLOW SYNCHRO)	Capture both the main subject and the background under low light (note that brightly lit scenes may be overexposed).
<b>34</b> (SEOW STINCTINO)	brightly lit scenes may be overexposed).

# 7 Focus.

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



# **3** Shoot.

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

#### **\** Caution

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



### Red-Eye Removal

When Intelligent Face Detection is active (pg. 20), and **ON** is selected for **EYE REMOVAL** in the setup menu (pg. 87), red-eye removal is available in **29**, **4**, and **29**. 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.

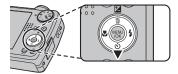


# **🖒** Using the Self-Timer

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

## 1 Set the timer.

Press the selector down (৩). The selection changes each time the selector is pressed. The current self-timer mode is displayed in the monitor.





Choose from  $\mathsection$  (self-timer off),  $\mathsection$  (10 s delay), or  $\mathsection$  (2 s delay)

# **7** 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.



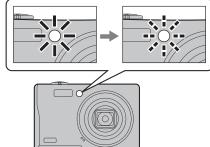
# 3 Start the timer.

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. 20) is recommended when using the self-timer for group portraits or self-portraits. To use the self-timer with Intelligent Face Detection, turn Intelligent Face Detection on, set the timer as described in Step 1, and then press the shutter button all the way down to start the timer. The camera will detect faces while the timer is counting down and adjust focus and exposure immediately before the shutter is released. 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. To choose a shooting mode, rotate the mode dial to the desired setting (pg. 4). The following modes are available:

# AUTO

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

# **EXTR** EXR

To let the camera automatically optimize settings for your current subject, or to improve clarity, reduce noise, or enhance dynamic range, rotate the mode dial to and follow the steps below:

IMAGE SIZE

FF IMAGE QUALITY

AUTO

**顾** 4:3

Press MENU/OK to display the shooting menu.





Highlight **EXR MODE**.



Press the selector right to display the following menu.





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



Option	Description	
EXR AUTO	The camera automatically selects the scene and EXR mode according to shooting conditions.	
RESOLUTION PRIORITY	Choose for crisp, clear shots.	
HIGH ISO & LOW NOISE	Reduce noise in pictures taken at high sensitivities.	
D-RANGE     PRIORITY	Increase the amount of detail visible in highlights.  DYNAMIC RANGE is set to (800%).	

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



6 Press **DISP/BACK** to exit from the menu



## EXR AUTO

In this mode, the camera automatically analyzes the composition and selects the appropriate scene mode according to the subject and shooting conditions. The selected mode is displayed as shown below. When the shutter button is pressed halfway, the camera selects the optimal **EXR** mode, which is displayed next to the scene mode icon.

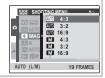


Display when portrait subject is detected.

Mode	Type of subject or scene detected
0	PORTRAIT: Human portrait subject.
0	LANDSCAPE: Man-made or natural landscape.
G	NIGHT: Poorly lit landscape.
Ø	MACRO: Subject close to camera.
<b>®</b>	BACKLIT PORTRAIT: Back-lit portrait subject.
<u> </u>	NIGHT PORTRAIT: Poorly lit portrait subject.

## IMAGE SIZE

If mo is selected for IMAGE SIZE in mode, the camera will automatically select the optimal image size (pg. 66).



#### **←** Notes

- **(AUTO)** will be selected if the subject does not match the scenes listed above.
- **La** appears on the display while in **La**. The camera continuously analyzes the scene, always trying to detect faces.
- The camera focuses continuously, increasing the drain on the battery. The sound of the camera focusing may be audible.

## **◆ NATURAL &** 4

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 will fire even in silent mode.
- Only available if memory remains for two pictures.

# 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.



## SP SCENE POSITION

The camera offers a choice of "scenes," each adapted to particular shooting conditions or a specific type of subject, which can be assigned to the **SP** position on the mode dial:

Rotate the mode dial to SP.



Press MENU/OK to display the following menu.





Highlight **SCENE POSITION**.



**1** Press the selector right to display shooting mode options.



Press the selector up or down to highlight a scene (pg. 37).







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



Press DISP/BACK to exit from the menu.



Until the setting is changed as described above, the chosen scene will be selected whenever the mode dial is rotated to SP.

#### **園 PRO FOCUS MODE**

Choose for blurring the background of a subject such as a portrait or a flower to make it impressive. When the shutter button is pressed, the camera automatically takes up to 3 pictures and merges the pictures together to create a clear focused subject with a blurred background. The camera can allow you to get a blurry effect as a single lens reflex camera does. Press the selector left or right to select

**SOFTNESS** in 3 steps before shooting.

#### **★** Notes

- When a subject is too close to the background, the camera may not create effect to a picture. When the message **I CANNOT CREATE EFFECT** appears during focus lock, take a little distance from your subject and use the zoom control to adjust.
- When shooting a moving subject, the function may not work
- When the camera fails to create effect, the message **PLAYBACK TO CHECK IMAGE** appears. Take a picture again.

#### **N** Caution

Hold the camera firmly while you shoot.

#### R PRO LOW-LIGHT MODE

Choose for shooting a subject under low light or a still subject by using the telephoto zoom. When the shutter button is pressed, the camera automatically takes up to 4 pictures and merges the pictures together. Blurring caused by camera shake can be reduced and pictures with low noise can be taken even with high sensitivity.

#### 

- When shooting a moving subject, the function may not work
- Pictures may be saved without merged, depending on the shooting condition, or when moving the camera a lot during shooting.

### **N** Caution

Hold the camera firmly while you shoot.

Scene	Description	
PRO FOCUS	Choose for blurring the background of a subject such as a portrait or a flower to make it impressive.	
PRO LOW-LIGHT	Choose for shooting a subject under low light or a still subject by using the telephoto zoom.	
♣ PORTRAIT	Choose for soft-toned portraits with natural skin tones.	
PORTRAIT ENHANCER	Choose for a smooth skin effect in soft-focus portraits.	
▲ LANDSCAPE	Choose for crisp, clear daylight shots of buildings and landscapes.	
<b>¾</b> SPORT	Choose when photographing moving subjects. <b>DE QUICK AF</b> is automatically selected for <b>DOWER MANAGEMENT</b> and priority is given to faster shutter speeds.	
C NIGHT	Choose this mode for poorly lit twilight or night scenes. Sensitivity is automatically raised to reduce blur caused by camera shake.	
x <sup>C*</sup> NIGHT (TRIPOD)	Choose this mode for slow shutter speeds when shooting at night. Use a tripod to prevent blur.	
FIREWORKS	Slow shutter speeds are used to capture the expanding burst of light from a firework. Use a tripod to prevent blur.	
<b>≚</b> SUNSET	Record the vivid colors in sunrises and sunsets.	
<b>SNOW</b>	Choose for crisp, clear shots that capture the brightness of scenes dominated by shining white snow.	
<b>№</b> BEACH	Choose for crisp, clear shots that capture the brightness of sunlit beaches.	
<b>▼</b> PARTY	Capture indoor background lighting under low-light conditions.	
<b>☆</b> FLOWER	Choose for vivid close-ups of flowers. The camera focuses in the macro range.	
TEXT TEXT	Take clear pictures of text or drawings in print. The camera focuses in the macro range.	

## **M** MANUAL

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

1 Rotate the mode dial to M.



Press the ☑ button. Shutter speed and aperture will be displayed.



Shutter speed
Aperture

**3** Press the selector up or down to choose the aperture.



**4** Press the selector left or right to choose the shutter speed.



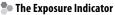
**\** Caution

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

**5** Press **MENU/OK** to return to shooting mode.



**6** Take pictures.



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



## P PROGRAM AE/A APERTURE PRIORITY AE

Mode **P** offers a choice of *program AE* (autoexposure), in which the camera sets exposure automatically, and *aperture priority AE*, in which you adjust aperture to soften background details or bring both background and foreground into focus while letting the camera control shutter speed for optimal exposure. To take pictures in program and aperture priority AE:

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



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



Press the selector up or down to highlight SHOOTING MODE.



**4** Press the selector right to display shooting mode options.



**5** Press the selector up or down to highlight an option.





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



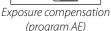
**7** Press **DISP/BACK** to exit from the menu.



**R** Press the selector up (**2**) to display exposure compensation (program AE) or aperture (aperture priority AE).









Aperture (aperture priority AE)

**Q** Press the selector button to choose exposure compensation (program AE) or aperture (aperture priority AE). If the correct exposure can not be achieved at the aperture selected for aperture priority AE, the shutter speed will be displayed in red.

10 Press MENU/OK to return to shooting mode.



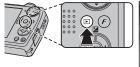
11 Take pictures.

#### **N** Caution

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

# **Playback Options**

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

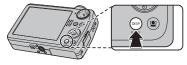




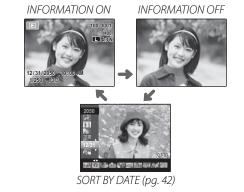
Press the selector right to view pictures in the order recorded, left to view pictures in reverse order. Keep the selector pressed to scroll rapidly to the desired frame.



In playback mode, press **DISP/BACK** to select a playback display format.



The selection changes each time **DISP/BACK** is pressed.



#### **◆** Note

Pictures taken using other cameras are indicated by a \( \mathbb{H} \) ("gift image") icon during playback.

# **Playback Zoom**

Select 1 to zoom in on pictures displayed in single-frame playback; select 1 to zoom out. When the picture is zoomed in, the selector can be used to view areas of the image not currently visible in the display.





Zoom indicator

Navigation window shows portion of image currently displayed in monitor

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

### **←** Note

Playback zoom is not available with cropped copies saved at a size of 640 or copies created with **RESIZE** (pg. 81).

### Intelligent Face Detection

Pictures taken with Intelligent Face Detection (pg. 20) are indicated by a 🔁 icon. Press the 🖭 button to zoom in on the subject selected with Intelligent Face Detection. You



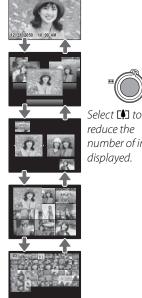
can then use the zoom control to zoom in and out.

# **Multi-Frame Playback**

To change the number of images displayed, select when a picture is shown full-frame in the monitor



Select 111 to increase the number of pictures displayed to one frame with previous and next, two, nine, and a hundred



number of images

displayed.



# ■ Tip: Two-Frame Display

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



# **Sort by Date**

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

1 Press **DISP/BACK** repeatedly until **SORT BY DATE** is displayed.





**2** Use the selector up or down to highlight a date. Keep the selector pressed to scroll rapidly to the desired date.



**3** Press the selector left or right to scroll through the pictures taken on the highlighted date. Keep the selector pressed to scroll rapidly to the desired frame.



# **Top 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 19). Note that deleted pictures can not be recovered. Copy important pictures to a computer or other storage device before proceeding.

Press MENU/OK to display the playback menu.



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



Press MENU/OK to display options for the selected item (see following page).

■ Tips: Deleting Pictures



Press the selector up or down to highlight **m** ERASE.



**?** Press the selector right to display delete options.

PLAYBACK MENU

ALL FRAMES



• When a memory card is inserted, pictures will be deleted from the memory card; otherwise, pictures will be deleted from internal memory.



 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 to delete the wrong picture).



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

### ■ ALL FRAMES: Deleting All Images

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



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



The dialog shown at right is displayed during deletion.
Press **DISP/BACK** to cancel before all pictures have been deleted (any pictures deleted



before the button was pressed can not be recovered).

# **Recording Movies**

Shoot short movies at 30 frames per second. Sound is recorded via the built-in microphone; do not cover the microphone during recording.

1 Rotate the mode dial to ♣ (movie mode).



Press the shutter button all the way down to start recording.

繣



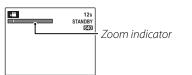
■ **REC** and time

remaining are displayed



**2** Frame the scene using the zoom control.







There is no need to keep the shutter button pressed during recording.

#### **★** Notes

- Focus, exposure and white balance are adjusted automatically throughout recording. The color and brightness of the image may vary from that displayed before recording begins.
- If the subject is poorly lit, the AF-assist lamp may light to assist the focus operation. To turn the AF-assist lamp off, select OFF for the AF AF ILLUMINATOR option in the setup menu (pg. 87).

Press the shutter button halfway to end recording. Recording ends automatically when the movie reaches maximum length or memory is full.



#### **\** Caution

The indicator lamp lights while movies are being recorded. Do not open the battery chamber card during shooting or while the indicator lamp is lit. Failure to observe this precaution could prevent the movie from being played back.

#### **★** Note

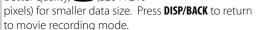
Movies are recorded as monaural motion JPEG files.

# Choosing the Frame Size

To choose the frame size, press **MENU/OK** and select

QUALITY. Choose

**640** (640 × 480 pixels) for better quality, **320** (320 × 240





# 🧫 Selecting focus mode

Select **AF MODE** in the shooting menu.

- © CENTER: When zooming in or out, the camera refocus on the subject in the center of the frame.
- OCONTINUOUS: The camera continuously adjusts focus to reflect changes in the distance to the main subject.

# **▶** Viewing Movies

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



Operation	Description
Start/pause	<b>Press the selector down</b> to start playback.
playback	Press again to pause.
End	Press the selector up to end playback. If
playback/	playback is not in progress, pressing the
delete	selector up will delete the current movie.
	Press the selector right to advance, left to
Advance/	rewind. If playback is paused, the movie
rewind	will advance or rewind one frame each
	time the selector is pressed.
	Press MENU/OK to pause playback and
Adjust	display volume controls. Press the
volume	selector up or down to adjust the
volume	volume; press <b>MENU/OK</b> again to resume
	playback.

Progress is shown in the monitor during playback.



## **▼** Tip: Viewing Movies on a Computer

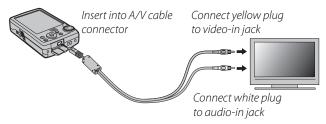
Copy movies to the computer before viewing.

#### **\** Cautions

- Do not cover the speaker during playback.
- Vertical or 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 to a group. Connect the A/V cable, as shown below. Be sure that the camera is off before connecting the cable.



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

#### **◆** Note

Image quality drops during movie playback.

## Caution

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

# **Printing Pictures via USB**

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

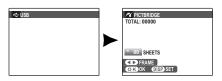


# **Connecting the Camera**

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



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.



#### **←** Note

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

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



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





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



## ■ Tip: Printing the Date of Recording

To print the date of recording on pictures, press **DISP/BACK** in steps 1–2 to display the PictBridge menu (see "Printing the DPOF Print Order," on pg. 53). Press the selector up or down to highlight **PRINT WITH DATE** and press **MENU/OK** to return to the PictBridge display (to print pictures without the date of recording, select **PRINT WITHOUT DATE**). To ensure that the date is correct, set the camera clock before taking pictures. Note that the **PRINT WITH DATE** option is only available with printers that support date printing.

#### **←** Notes

- Use an optional AC adapter and 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.
- Default printer page size and print quality settings are used when printing via direct USB connection.

# During Printing

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



If printing is interrupted, press **•** to turn the camera off and then on again.

# Disconnecting the Camera

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

# **Printing the DPOF Print Order**

To print the print order created with PRINT ORDER (DPOF) in the playback menu (pg. 54):

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





Press the selector up or down to highlight PRINT DPOF.



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





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



# **Creating a DPOF Print Order**

The PRINT ORDER (DPOF) option in the playback menu can be used to create a digital "print order" for PictBridge-compatible printers (pg. 53) or devices that support DPOF.

### **DPOF**

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

# ■ WITH DATE /WITHOUT DATE

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



**WITH DATE** : Print date of recording on pictures.

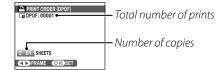
**WITHOUT DATE**: Print pictures without date.

Press MENU/OK and follow the steps below.

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



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.



### **▼** 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.

- 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.
- **⚠** 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.

#### 

- 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.

# <u>Installing FinePixViewer</u>

FinePixViewer is available in Windows and Macintosh versions. Installation instructions for Windows are on pages 56–57, those for the Macintosh on pages 58–59.

# **Installing FinePixViewer: Windows**

1 Confirm that the computer meets the following system requirements:

OS	Preinstalled versions of Windows Vista, Windows XP Home Edition, Windows XP Professional (Service Pack 2), or Windows 2000 Professional (Service Pack 4)*
СРИ	<ul> <li>Windows Vista: 800 MHz Pentium 4 or better (3 GHz Pentium 4 or better recommended)</li> <li>Windows XP: 800 MHz Pentium 4 or better (2 GHz Pentium 4 or better recommended)</li> <li>Windows 2000: 200 MHz Pentium or better</li> </ul>
RAM	<ul> <li>Windows Vista: 512 MB or more (1 GB or more recommended)</li> <li>Windows XP: 512 MB or more</li> <li>Windows 2000: 128 MB or more</li> </ul>
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	$800 \times 600$ pixels or more with 16-bit color or better (1,024 $\times$ 768 pixels or more with 32-bit color recommended)
Other	<ul> <li>Built-in USB port recommended. Operation is not guaranteed other USB ports.</li> <li>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.</li> </ul>

<sup>\*</sup> To check if FinePixViewer is Windows® 7-compliant, please visit http://www.fujifilm.com/support/download/camera/software/.

#### **\** 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.

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

### Windows 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 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 reinstall 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 60.

## Installing FinePixViewer: Macintosh

1 Confirm that the computer meets the following system requirements:

CPU	PowerPC or Intel	
OS	Pre-installed versions of Mac OS X version 10.3.9–10.5 (for the latest information, visit http://www.fujifilm.	
05	com/)	
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	
	Built-in USB port recommended. Operation is not guaranteed other USB ports.	
Other	• 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.	

- 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. 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 60.

# **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.

**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.
- Make sure the indicator lamp is out before turning the camera off, 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.
- In some cases, it may not be possible to access pictures saved to a network server using FinePixViewer in the same way as on a standalone computer.
- The user bears all applicable fees charged by the phone company or Internet service provider when using services that require an Internet connection.

## Disconnecting the Camera

After confirming that the indicator lamp is out, follow the on-screen instructions to turn the camera off and disconnect the USB cable.

# Updating FinePixViewer

The latest version of FinePixViewer can be downloaded from http://www.fujifilm.com/.

### 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 or 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**.

# **Using the Menus: Shooting Mode**

The **F**-mode and shooting menus contain settings for a wide range of shooting conditions.

# <u>Using the F-Mode Menu</u>

1 Press the **F** button to display the **F-MODE** menu.



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





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



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



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



**6** Press **DISP/BACK** to exit from the menu



# F-Mode Menu Options

Menu item	Description	Options	Default
<u>[50]</u> 150	Adjust ISO sensitivity (pg. 64). Choose higher values when the subject is poorly lit.	AUTO/AUTO (1600)/ AUTO (800)/AUTO (400)/ 12800/6400/3200/1600/ 800/400/200/100	AUTO
<b>€</b> IMAGE SIZE	Choose image size and aspect ratio (pg. 64).	4:3/ 3:2/ 16:9/ M 4:3/ M 3:2/ M 16:9/ S 4:3/ S 3:2/ S 16:9	4:3
☐ FILM SIMULATION	Simulate the effects of different types of film (pg. 65).	ಮೇ PROVIA/STANDARD/ ∭r Velvia/VIVID/ §r ASTIA/SOFT/ §r B&W/ ಮೇ SEPIA	STANDARD

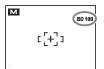
#### **←** Note

Some options are not available in all shooting modes.

#### SO 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, particularly at settings above **1600**. If **AUTO** or an option such as **AUTO** (**1600**) is selected, the camera will adjust sensitivity automatically in response to shooting conditions. In the case of **AUTO** (**1600**), **AUTO** (**800**), and **AUTO** (**400**), the value in parentheses is the maximum sensitivity that will be selected when the subject is poorly lit.

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



#### **IMAGE SIZE**

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

Option	Prints at sizes up to
4:3	34×25 cm (13.5×10 in.)
3:2	34×23 cm (13.5×9 in.)
<b>16:9</b>	34×19 cm (13.5×7.5 in.)
M 4:3	24×18 cm (9.5×7 in.)
M 3:2	24×16 cm (9.5×6 in.)
M 16:9	24×13 cm (9.5×5.5 in.)
<b>§</b> 4:3	17 × 13 cm (7 × 5 in.)
\$ 3:2	17 × 12 cm (7 × 4.5 in.)
<b>S</b> 16:9	17×9cm (7×3.5 in.)

The number of pictures that can be taken at current settings (pg. 109) is shown to the right of the image quality icon in the display.

## Aspect Ratio

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



4:3







16:9

#### **←** Note

Image quality is not reset when the camera is turned off or another shooting mode is selected.

#### FILM SIMULATION

Simulate the effects of different types of film, including sepia and black-and-white.

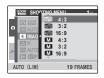
Option	Description
STOP PROVIA/	Standard color reproduction. Suited
STANDARD	to a wide range of subjects, from
JIANDARD	portraits to landscapes.
<b>▼</b> Velvia/	A high-contrast palette of saturated
VIVID	colors, suited to nature photographs.
S # ASTIA/	A soft-toned palette of less saturated
SOFT	colors.
Ē <b>₽</b> B&W	Take pictures in black and white.
SEPAT SEPIA	Take pictures in sepia.

# **Using the Shooting Menu**

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



- **2** Press the selector up or down to highlight the desired menu item.
- **3** Press the selector right to display options for the highlighted item.





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



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



6 Press **DISP/BACK** to exit from the menu.







# **Shooting Menu Options**

	Menu item	Description	Options	Default
	SCENE POSITION	Choose a scene for <b>SP</b> mode (pg. 35).	®/ <b>®</b> /♣/&/୯/ጵ <sup>୯</sup> / ©/≟/*/M/Y/*/®	₽ ₽
1/2	SHOOTING MODE (P/A)	Choose program or aperture priority AE for <b>P</b> mode (pg. 39).	P/A	Р
	EXR MODE	Choose options for EXR mode (pg. 32).	EXR/H/N/N	EXR
	[ <u>50</u> ] ISO	Adjust ISO sensitivity (pg. 64). Choose higher values when the subject is poorly lit.	AUTO/AUTO (1600)/ AUTO (800)/AUTO (400)/ 12800/6400/3200/1600/ 800/400/200/100	AUTO
	<b>€</b> IMAGE SIZE	Choose image size and aspect ratio (pg. 64).	4:3/L 3:2/L 16:9/ M 4:3/M 3:2/M 16:9/ S 4:3/S 3:2/S 16:9	4:3
	<b>Ⅲ</b> IMAGE QUALITY	Choose image quality (pg. 69).	FINE/NORMAL	NORMAL
	DRM DYNAMIC RANGE	Enhance details in highlights for natural contrast (pg. 69).	AUTO/R100 100%/ R200 200%/R400 400%/ R800 800%	AUTO
	<b>□</b> FILM SIMULATION	Simulate the effects of different types of film (pg. 65).	意。PROVIA/STANDARD/ 位置 Velvia/VIVID/ 気量 ASTIA/SOFT/ 色配 B&W/ 意識 SEPIA	STANDARD

	Menu item	Description	Options	Default
2/2	WB WHITE BALANCE	Adjust color for different light sources (pg. 69).	AUTO/具/☀/೬/∺////////////////////////////////	AUTO
	CONTINUOUS	Shoot a series of pictures (pg. 71).	[단/[원/ <b>[6</b> / <b>호</b> /OFF	OFF
	@ PHOTOMETRY	Choose how the camera meters exposure (pg. 72).	@/•]/[]	<b>©</b>
	■ AF MODE	Choose how the camera selects a focus area (pg. 72).	⊕/+/□	⊞

## **←** Note

Some options are not available in all shooting modes.

## **MAGE QUALITY**

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

## **DRING DYNAMIC RANGE**

Control contrast. Higher values are recommended for scenes that include both sunlight and deep shade or for increased contrast when photographing such subjects as sunlight on water, brightly-lit autumn leaves, and portraits taken against a blue sky; note, however, that mottling may appear in pictures taken at higher values. If **AUTO** is selected, the camera will automatically select values between 100% and 400% in response to shooting conditions.

#### **←** Note

RANGE is selected in Telephone Management of the selected in Telephone Management of the selected in Telephone Management of the selected for Telephone Management of Management of Telephone Management of Manageme

## **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 108).

<b>Option</b>	Description	
AUTO	White balance adjusted automatically.	
	Measure a value for white balance.	
*	For subjects in direct sunlight.	
<u>*</u>	For subjects in the shade.	
₩1	Use under "daylight" fluorescent lights.	
₩2	Use under "warm white" fluorescent lights.	
₩3	Use under "cool white" fluorescent lights.	
- <u>A</u> -	Use under incandescent lighting.	

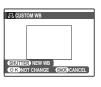
If **AUTO** does not produce the desired results (for example, when taking close-ups), select  $\square$  and measure a value for white balance or choose the option that matches the light source.

#### **★** Notes

- At settings other than , auto white balance is used with the flash. Turn the flash off (pg. 28) to take pictures at other settings.
- Results vary with shooting conditions. Play pictures back after shooting to check colors in the monitor.

## **■ □**: Custom White Balance

Choose 📮 to adjust white balance for unusual lighting conditions. The options at right will be displayed; frame a white object so that it fills the



monitor and press the shutter button all the way down to measure white balance

If "COMPLETED!" is displayed, press MENU/OK to set white balance to the measured value. This value is stored even when the battery is removed and can be reselected by pressing MENU/OK when custom white balance options are displayed.

**If "UNDER" is displayed**, raise exposure compensation (pg. 25) and try again.

**If "OVER" is displayed**, lower exposure compensation and try again.

## **■ Tip**

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

### **CONTINUOUS**

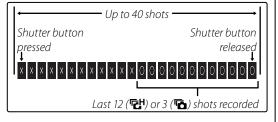
Capture motion in a series of pictures.

#### **←** Notes

- The flash turns off automatically. The previouslyselected flash mode is restored when OFF is selected for CONTINUOUS.
- Frame rate varies with shutter speed.

## ■ 땡 FINAL 12/后 FINAL 3

While the shutter button is pressed, the camera takes up to 40 pictures, but only the last 12 shots (**\*\*L\*\***) or 3 shots (**\*\*L\*\***) are recorded.



## **■** ♠ TOP 12/♠ TOP 3

The camera takes up to 12 (A) or 3 (A) pictures while the shutter button is pressed.

## ♦ Notes: 🛍 TOP 12/ 🗗 FINAL 12/ 🤷 TOP 3/ 🚡 FINAL 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



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 'the FINAL 12 or 'the FINAL 3 is selected.

## **回 PHOTOMETRY**

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

- MULTI: Automatic scene recognition is used to adjust exposure for a wide range of shooting conditions.
- **SPOT**: The camera meters lighting conditions at the center of the frame. Recommended when the background is much brighter or darker than the main subject. Can be used with focus lock (pg. 22) to meter off-center subjects.
- Care Average: Exposure is set to the average for the entire frame. Provides consistent exposure across multiple shots with the same lighting, and is particularly effective for landscapes and portraits of subjects dressed in black or white.

## **I** AF MODE

This option controls how the camera selects the focus area. Regardless of the option selected, the camera will focus on the subject in the center of the monitor when macro mode is on (pg. 27).

• In CENTER: The camera focuses on the subject in the center of the frame. This option can be used with focus lock.



• MULTI: When the shutter button is pressed halfway, the camera detects high-contrast subjects near the center of the frame and selects the focus area automatically (if the focus frame is not displayed, select © CENTER and use focus lock; pg. 22).







Focus frame

• In Continuous: While the shutter button is pressed halfway, the camera continuously adjusts focus to reflect changes in the



distance to the main subject in the focus frame (see page 17; note that this increases the drain on the battery and that the sound of the camera focusing will be audible). Choose this option when photographing moving subjects.

# **Using the Menus: Playback Mode**

The **F-MODE** and playback menus are used to manage the pictures in internal memory or on the memory card.

# Using the F-Mode Menu

1 Press the ▶ button to enter playback mode (pg. 11).



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



Press the **f** button to display the **f-MODE** 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.



# F-Mode Menu Options

Option	Description	
■ SLIDE SHOW	View pictures in a slide show (pg. 75).	
PRINT ORDER	Select pictures for printing on DPOF- and	
(DPOF)	PictBridge-compatible devices (pg. 54).	

### **同 SLIDE SHOW**

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

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

### **←** Note

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

# **Using the Playback Menu**

- Press ▶ to enter playback mode (pg. 11).

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



PLAYBACK MENU 1/2

TIT ERASE

SIDE SHOW

SINDE SHOW

MAGE ROTATE

PROPERTY

CORPORATION

CORPORA

**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.





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	
	m ERASE	Delete all or selected pictures (pg. 45).	
	♂ SLIDE SHOW	View pictures in a slide show (pg. 75).	
1/2	<b>™</b> RED-EYE REMOVAL	Create copies with reduced red eye (pg. 77).	
	<b>②</b> IMAGE ROTATE	Rotate pictures (pg. 78).	
	PROTECT	Protect pictures from accidental deletion (pg. 79).	
	<b>€</b> CROP	Create cropped copies of pictures (pg. 80).	
	RESIZE	Create small copies of pictures (pg. 81).	
2/2	COPY COPY	Copy pictures between internal memory and a memory card (pg. 81).	
2/2	<b>☑</b> VOICE MEMO	Add voice memos to pictures (pg. 83).	
	PRINT ORDER (DPOF)	Select pictures for printing on DPOF- and PictBridge-compatible devices (pg. 54).	

## **◯** RED EYE REMOVAL

If the current picture is marked with a !! icon to indicate that it was taken with Intelligent Face Detection, this option can be used to remove red-eye. The camera will analyze the image; if red-eye is detected, the image will be processed to create a copy with reduced red-eye.

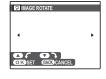


#### **←** Notes

- Red eye may not be removed if the camera is unable to detect a face or the face is in profile. Results may differ depending on the scene. Red eye can not be removed from pictures that have already been processed using red-eye removal or pictures created with other devices.
- The amount of time needed to process the image varies with the number of faces detected.

## **MAGE 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.

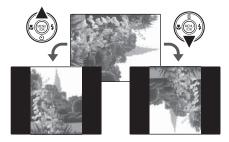
### **◆** Notes

- Protected pictures can not be rotated. Remove protection before rotating pictures (pg. 79).
- The camera may not be able to rotate pictures created with other devices.

To rotate a picture, play the picture back and select **2 IMAGE ROTATE** in the playback menu.

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





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

- 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. 89).

## CROP

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

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





Zoom indicator
Navigation window
shows portion of
image currently
displayed in monitor

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

## ■ Tip: Intelligent Face Detection

If the picture was shot with Intelligent Face Detection (pg. 20), will be displayed in the monitor. Press the button to zoom in on the selected face.



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





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

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



## RESIZE

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

Press the selector up or down to highlight 640 STANDARD or 320 SMALL.



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



**3** Press **MENU/OK** to copy the picture at the selected size.



### MY COPY

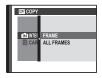
Copy pictures between internal memory and a memory card.

- Press the selector up or down to highlight IN INTERNAL MEMORY

  → SO CARD (copy pictures from internal memory to the memory card) or

  SO CARD → IN INTERNAL MEMORY (copy pictures from a memory card to internal memory).
- **2** Press the selector right to display options for the highlighted item.





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. 54).

## **☑** VOICE MEMO

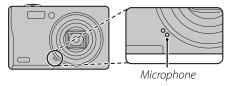
To add a voice memo to a still picture, select **VOICE MEMO** after displaying the picture in playback mode.



#### **←** Note

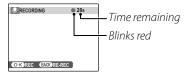
Voice memos can not be added to movies or protected pictures. Remove protection from pictures before recording voice memos (pg. 79).

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



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





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





#### **←** Notes

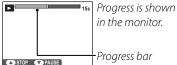
 If a voice memo already exists for the current picture, the options at right will be displayed. Select RE-REC to replace the existing memo.



 Voice memos are recorded as PCM-format WAV files (pg. 108).

## Playing Voice Memos

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

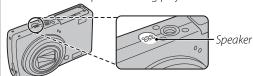


#### **←** Note

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

#### **\** Caution

Do not cover the speaker during playback.



# **The Setup Menu**

## **Using the Setup Menu**

- 1 Display the setup menu.
  - **1.1** Press **MENU/OK** to display the menu for the current mode.
- **1.2** Press the selector left to highlight a left tab.
- 1.3 Press the selector up or down to select .The setup menu appears.



- **2** Adjust settings.
  - **2.1** Press the selector right to activate the setup menu.



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





- **2.3** Press the selector right to display options for the highlighted item.
- THE STATE OF THE S
- **2.4** Press the selector up or down to highlight an option.



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



**2.6** Press **DISP/BACK** to exit from the menu.



# **Setup Menu Options**

	Menu item	Description	Options	Default
	(S) DATE/TIME	Set the camera clock.	_	_
	TIME DIFFERENCE	Set the clock to local time (pg. 88).	<b>☆</b> / <b>+</b>	⇧
	ම්ව 言語/LANG.	Choose a language.	See page 113	ENGLISH
1/4	SILENT MODE	Turn off the speaker, flash, and AF-assist illuminator/self-timer lamp.	ON/OFF	OFF
1/4	RESET	Reset all settings except <b>DATE/TIME</b> , <b>TIME DIFFERENCE</b> , <b>BACKGROUND COLOR</b> , and <b>VIDEO SYSTEM</b> to default values. A confirmation dialog will be displayed, press the selector left or right to highlight <b>OK</b> and press <b>MENU/OK</b> .	_	_
	FORMAT	Format internal memory or memory cards (pg. 89).	_	_
	☑ IMAGE DISP.	Choose how long pictures are displayed after shooting (pg. 89).	3 SEC / 1.5 SEC / ZOOM (CONTINUOUS) / OFF	1.5 SEC
	FRAME NO.	Choose how files are named (pg. 90).	CONTINUOUS / RENEW	CONTINUOUS
2/4	OPERATION VOL.	Adjust the volume of camera controls.	(mid)/	<b>14</b> 11
2/4	SHUTTER VOLUME	Adjust the volume of the shutter sound.	<b>-(</b> (low) / <b>-(</b> 0FF (mute)	•4.,
	SHUTTER SOUND	Choose the sound made by the shutter.	♪1/♪2	<b>♪</b> 1
	D PLAYBACK VOLUME	Adjust the volume for movie and voice memo playback (pg. 90).	_	7

	Menu item	Description	Options	Default
3/4	LCD BRIGHTNESS	Control the brightness of the display (pg. 91).	=	0
	AUTO POWER OFF	Choose the auto power off delay (pg. 91).	5 MIN/2 MIN/OFF	2 MIN
	DUAL IS MODE	Reduce blur. Choose whether the function is performed at all times when the camera is in the shooting mode ((I) CONTINUOUS), only when the shutter button is pressed halfway (I) 2 SHOOTING ONLY) or OFF.	«♠»1 CONTINUOUS/ «♠»2 SHOOTING ONLY/ OFF	(( <b>山</b> )) <sub>1</sub>
	RED EYE REMOVAL	Remove "red-eye" effects caused by the flash.	ON/OFF	ON
	Q DIGITAL ZOOM	Enable or disable digital zoom (pg. 92).	ON/OFF	OFF
	AE AF ILLUMINATOR	Turn the AF-assist illuminator on or off (pg. 24).	ON/OFF	ON
	■ SAVE ORG IMAGE	Choose whether to save unprocessed copies of pictures taken using red-eye removal.	ON/OFF	OFF
	■ BACKGROUND COLOR	Choose a color scheme for menus and cursors.	_	BLUE
4/4	<b>■</b> GUIDANCE DISPLAY	Choose whether to display tool tips.	ON/OFF	ON
	₩ VIDEO SYSTEM	Choose a video mode for connection to a TV (pg. 50).	NTSC/PAL	_
	1 POWER MANAGEMENT	Optimize camera performance for increased battery life, quick focus, or display quality (pg. 93).	₫/₫=/₫	ΔĴ

#### TIME DIFFERENCE

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

- 1 Specify the difference between local time and your home time zone.
  - 1.1 Press the selector up or down to highlight ← LOCAL.



**1.2** Press the selector right to display the time difference.





- **1.3** Press the selector left or right to highlight +, -, hours, or minutes; press up or down to edit. The minimum increment is 15 minutes.
- **1.4** Press **MENU/OK** when settings are complete.



2 Switch between local time and your home time zone.

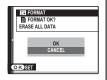
To set the camera clock to local time, highlight + LOCAL and press MENU/OK. To set the clock to the time in your home time zone, select + HOME. If + LOCAL is selected, + will be displayed in the monitor for three seconds after the camera enters shooting mode, and the date will be displayed in yellow.



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

### **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.

## **☑** 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 can be zoomed in to check fine details.

**ZOOM (CONTINUOUS)** is disabled in the following case:

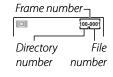
- 🗣 🕏 or 💽 is selected in the shooting mode.
- An option other than **OFF** is selected for **ONTINUOUS**.

#### 

- Pictures taken in continuous shooting modes are always displayed after shooting.
- The colors displayed at settings of **1.5 SEC** and **3 SEC** may differ from those in the final picture.

## I FRAME NO.

New pictures are stored in image files named using a four-digit file number assigned by adding one to the last file number used.



The file number is displayed during playback as shown at right. **FRAME NO.** controls whether file numbering is reset to 0001 when a new memory card is inserted or the current memory card or internal memory is formatted.

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

#### 

- If the frame number reaches 999-9999, the shutter release will be disabled (pg. 106).
- Selecting RESET (pg. 86) resets FRAME NO. to CONTINUOUS but does not reset frame numbering.
- Frame numbers for pictures taken with other cameras may differ.

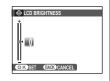
## **ID PLAYBACK VOLUME**

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



### **IXI** LCD BRIGHTNESS

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



## **AUTO POWER OFF**

Choose the length of time before the camera turns off automatically when no operations are performed. Shorter times increase battery life; if **OFF** is selected, the camera must be turned off manually. Note that regardless of the option selected, the camera will not turn off automatically when connected to a printer (pg. 51) or computer (pg. 56) or when a slide show is in progress (pg. 75).

## **▼** Tip: Reactivating the Camera

To reactivate the camera after it has turned off automatically, use the **ON/OFF** button or press the button for about a second (pg. 11).

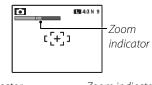
#### **←** Note

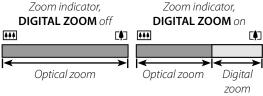
Although **OFF** is selected for **AUTO POWER OFF**, the camera will turn off automatically if no operations are performed for five minutes in the following case:

- DE QUICK AF or C CLEAR DISPLAY is selected for POWER MANAGEMENT.
- EXR MODE.
- **STANDBY** is displayed in **\$\text{\mathbb{E}}**.
- 🔄 is displayed in the shooting mode.
- 🔊, 🚱 is selected in the shooting mode.

## **Q** DIGITAL ZOOM

If **ON** is selected, selecting **(A)** 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 select **(A)**.





### **\** Caution

Digital zoom produces lower quality images than optical zoom.

### **101** POWER MANAGEMENT

Optimize camera performance for increased battery life, quick focus response, or improved display quality. The following options are available:

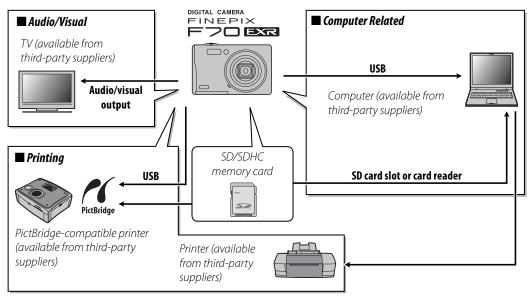
- **DAY** POWER SAVE: Monitor refresh rate is reduced. If no operations are performed for 10 s, the monitor will dim automatically to save power. This option is recommended when the camera is used for extended periods at high temperatures to prevent mottled vertical streaks from appearing in photographs.
- DE QUICK AF: Reduces focusing time, ensuring a quick shutter response.
- **CLEAR DISPLAY**: Choose this option for a brighter, higher quality display.

#### 

- Description Power SAVE does not take effect when Intelligent Face Detection is on.
- At settings other than POWER SAVE, the monitor will dim automatically if no operations are performed for 30 s.

# **Optional Accessories**

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



The following optional accessories are available from FUJIFILM. For the latest information on the accessories available in your region, check with your local FUJIFILM representative or visit <a href="http://www.fujifilm.com/products/digital\_cameras/index.html">http://www.fujifilm.com/products/digital\_cameras/index.html</a>.

Rechargeable Li-ion battery	NP-50 (supplied)	Additional NP-50 large-capacity batteries can be purchased as required.	
Battery charger	BC-50 (supplied)	Replacement battery chargers can be purchased as required. The BC-50 charges an NP-50 battery in about 140 minutes at +23 °C (+73 °F).	
AC power adapter	AC-5VX (requires CP-50)	Use for extended playback or when copying pictures to a computer (shape of adapter and plug vary with region of sale).	
DC coupler	CP-50	Connect the <b>AC-5VX</b> to the camera.	

# **Caring for the Camera**

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

## Storage and Use

If the camera will not be used for an extended period, remove the 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.

## Traveling

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

# **Troubleshooting**

## **Power and Battery**

	Problem	Possible cause	Solution	Page
		The battery is exhausted.	Insert a fresh or fully-charged spare battery.	5, 14
	The camera does	The battery is not in the correct orientation.	Re-insert the battery in the correct orientation.	6
	not turn on.	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.	_
Power		There is dirt on the battery terminals.	Clean the terminals with a soft, dry cloth.	_
supply		The camera is in km mode.	Select another shooting mode.	32
		The battery has been charged many times.	The battery has reached the end of its charging life. Purchase a new battery.	
		DE QUICK AF or C CLEAR DISPLAY is selected for POWER MANAGEMENT.	Select <b>POWER SAVE</b> to reduce the drain on the battery.	_
		☐ CONTINUOUS is selected for ■ AF MODE.	Select a different AF mode.	72
	The camera turns	The battery is exhausted.	Insert a fresh or fully-charged spare battery.	5, 14
	off suddenly.	The AC adapter or DC coupler has been disconnected.	Make sure that the AC adapter and DC coupler are properly connected.	_

	Problem	Possible cause	Solution	Page
	Charging does	The battery is not correctly inserted.	Re-insert the battery in the charger.	5
	not start.	The battery is not in the correct orientation.	Re-insert the battery in the correct orientation.	5
	Charging is slow.	The temperature is low.	Charge the battery at room temperature.	_
Battery	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.	
charger		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.	_
	mot charge.	The charger is not correctly plugged into a power outlet.	Plug the charger correctly into the power outlet.	_

## **Menus and Displays**

Problem	Possible cause	Solution	Page
1 /	English is not selected for the 言語/LANG. option in the setup menu.	Select <b>ENGLISH</b> .	12, 86

## Shooting

	Problem	Possible cause	Solution	Page
Taking pictures	No picture is taken when the shutter button is pressed.	Memory is full.	Insert a new memory card or delete pictures.	8, 45
		Memory is not formatted.	Format the memory card or internal memory.	89
		There is dirt on the memory card contacts.	Clean the contacts with a soft, dry cloth.	_
		The memory card is damaged.	Insert a new memory card.	8
		The battery is exhausted.	Insert a fresh or fully-charged spare battery.	6
pictures		The camera has turned off automatically.	Turn the camera on.	11
	The monitor goes dark after shooting.	The flash has fired.	The monitor may darken while the flash charges. Wait for the flash to charge.	28
Focus	The camera does not focus.	The subject is close to the camera.	Select macro mode.	27
		The subject is far away from the camera.	Cancel macro mode.	
		The subject is not suited to autofocus.	Use focus lock.	22
EXR AUTO	Image size varies from shot to shot.	a is selected for <b>€ IMAGE SIZE</b> .	Select another image size or shooting mode.	32, 34, 64
Intelligent Face Detection	Face detection not available.	Intelligent Face Detection is not available in the current shooting mode.	Choose a different shooting mode.	32
	No face is detected.	The subject's face is obscured by sunglasses, a hat, long hair, or other objects.	Remove the obstructions.	20
		The subject's face occupies only a small area of the frame.	Change the composition so that the subject's face occupies a larger area of the frame.	
		The subject's head is at an angle or the subject is not facing the camera.	Ask the subject to face the camera and hold their head straight.	
		The camera is tilted.	Hold the camera straight.	15
		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.	20, 22

	Problem	Possible cause	Solution	Page
Close-ups	Macro mode is not available.	Macro mode is not available in the current shooting mode.	Choose a different shooting mode.	32
Flash	The flash does not fire.	The flash is charging.	Wait for the flash to charge.	28
		The flash is not available in the current shooting mode.	Choose a different shooting mode.	32
		The battery is exhausted.	Insert a fresh or fully-charged spare battery.	6
		An option other than <b>OFF</b> is selected for <b>OFF</b> ONTINUOUS.	Turn • CONTINUOUS off.	71
	Flash mode not available.	The desired flash mode is not available in the current shooting mode.	Choose a different shooting mode.	32
		The camera is in silent mode.	Turn silent mode off.	17
	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.	111
		The flash window is obstructed.	Hold the camera correctly.	15
		Fast shutter speed selected.	Choose a slower shutter speed.	38
AC adapter	Help text is displayed.	The camera was turned on while being powered by an AC adapter.	Follow the on-screen instructions to enter demo mode or press the shutter button to cancel.	_
	Pictures are blurred.	The lens is dirty.	Clean the lens.	96
Problem		The lens is blocked.	Keep objects away from the lens.	15
		<b>!AF</b> is displayed during shooting and the focus frame is displayed in red.	Check focus before shooting.	17
		<b>!o</b> is displayed during shooting.	Use the flash or a tripod.	28
	Pictures are mottled.	Slow shutter speed selected and the subject is poorly lit.	Choose a faster shutter speed.	38
	Vertical lines appear in pictures.	The camera has been used continuously at high temperatures.	Turn the camera off and wait for it to cool down.	

	Problem	Possible cause	Solution		
	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 self-timer is on and 단 FINAL 12 or	Turn the self-timer off.	71	

## Movie

	Problem	Possible cause	Solution	Page
Recording	Icamera focusing	CONTINUOUS is selected for AF MODE.	Select  CENTER for AF MODE.	48

## Playback

	Problem	Possible cause	Solution	Page
Pictures	Pictures are grainy.	The pictures were taken with a different make or model of camera.	_	_
rictures		The pictures were created using RESIZE or with a different make or model of camera.	_	41, 81
	No sound in	The camera is in silent mode.	Turn silent mode off.	17
Audio	voice memo and movie playback.	Playback volume is too low.	Adjust playback volume.	90
Auulo		The microphone was obstructed.	Hold the camera correctly during recording.	83
		The speaker is obstructed.	Hold the camera correctly during playback.	84
Deletion	not deleted.	Some of the pictures selected for deletion are protected.	Remove protection using the device with which it was originally applied.	
File numbering is unexpected reset.		The battery-chamber cover was opened while the camera was on.	Turn the camera off before opening the battery-chamber cover.	6, 90

#### Connections

	Problem	Possible cause	Solution	Page
TV		The camera is not properly connected.	Connect the camera correctly.	50
	No nicture or	]	Connect the camera once movie playback has ended.	49, 50
		Input on the television is set to "TV".	Set input to "VIDEO".	
			Match the camera <b>WIDEO SYSTEM</b> setting to the TV.	87
			Adjust the volume.	_
	No color.	The camera is not set to the correct video standard.	Match the camera <b>WIDEO SYSTEM</b> setting to the TV.	87

	Problem	Possible cause	Solution	Page
Computer	The computer does not recognize the camera.	The camera is not properly connected.	Connect the camera correctly.	60
		' ' /	Connect the camera correctly.	51
	not be printed.	The printer is off.	Turn the printer on.	
PictBridge	Only one copy is printed.	The printer is not DistOridge as reportible		
	The date is not printed.	The printer is not PictBridge-compatible.	_	_

## 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
button is pressed.	The battery is exhausted.	Insert a fresh or fully-charged spare battery.	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

## **Warning Messages and Displays**

The following warnings are displayed in the monitor:

Warning	Description	Solution		
<b>□</b> (red)	The battery is low.	Insert a fresh or fully-charged spare battery.		
<b>□</b> (blinks red)	The battery is exhausted.	insert a nesh of fully-charged spare battery.		
ļo"	Slow shutter speed. Picture may be blurred.	Use the flash or mount the camera on a tripod.		
<b>! AF</b> (displayed in red with red focus frame)	The camera can not focus.	<ul> <li>Use focus lock to focus on another subject at the same distance, then recompose the picture (pg. 22).</li> <li>If the subject is poorly lit, try focusing at a distance of about 2 m (6.6 ft.).</li> <li>Use macro mode to focus when taking close-ups.</li> </ul>		
Aperture or shutter speed shown in red	The subject is too bright or too dark. The picture will be over- or under-exposed.	If the subject is dark, use the flash.		
FOCUS ERROR  LENS CONTROL ERROR  TURN OFF THE CAMERA  AND TURN ON AGAIN	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.		
NO CARD	No memory card inserted when <b>COPY</b> is selected in the playback menu.	Insert a memory card.		
	The memory card or internal memory is not formatted or the memory card was formatted in a computer or other device.	Format the memory card or internal memory using the FORMAT option in the camera setup menu (pg. 89).		
CARD NOT INITIALIZED	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 89). 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. 89).		

Warning	Description	Solution
	The memory card is not formatted for use in the camera.	Format the memory card (pg. 89).
CARD ERROR	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. 89). If the message persists, replace the memory card.
	Incompatible memory card.	Use a compatible memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.
MEMORY FULL		
MEMORY FULL	The memory card or internal memory is full;	Delete pictures or insert a memory card with more
INTERNAL MEMORY IS FULL INSERT A NEW CARD	pictures can not be recorded or copied.	free space.
	Not enough memory remaining to record additional pictures.	Delete pictures or insert a memory card with more free space.
WRITE ERROR	The memory card or internal memory is not formatted.	Format the memory card or internal memory (pg. 89).
	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.
	The file is corrupt or was not created with the camera.	The file can not be played back.
READ ERROR	The memory card contacts require cleaning.	Clean the contacts with a soft, dry cloth. If the message is repeated, format the memory card (pg. 89). If the message persists, replace the memory card.
	Camera malfunction.	Contact a FUJIFILM dealer.

Warning	Description	Solution		
FRAME NO. FULL	The camera has run out of frame numbers (current frame number is 999-9999).	Format the memory card and select <b>RENEW</b> for the <b>FRAME NO.</b> option in the <b>SI SET-UP</b> menu. Take a picture to reset frame numbering to 100-0001, then return to the <b>FRAME NO.</b> menu and select <b>CONTINUOUS</b> .		
TOO MANY FRAMES	Date for which more than 4,999 pictures exist selected in sort-by-date view.	Choose a different date.		
CAN NOT EXECUTE	Red-eye removal can not be applied to the			
CAN NOT EXECUTE	selected picture or movie.	_		
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.		
ENNUN	Camera malfunction.	Contact a FUJIFILM dealer.		
SD NO IMAGE	The source device selected in the playback	Select a different source.		
NO IMAGE	COPY menu contains no pictures.			
640 CAN NOT CROP	An attempt was made to crop a 640 picture.			
CAN NOT CROP	The picture selected for cropping is damaged or was not created with the camera.	These pictures can not be cropped.		
640 CANNOT EXECUTE	An attempt was made to resize a 640 picture.	These pictures can not be resized.		
320 CANNOT EXECUTE	An attempt was made to resize a 320 picture.	These pictures carriot be resized.		
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.	_		

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 and that the USB cable is connected.		
PRINTER ERROR	Printer out of paper or ink, or other printer	Check printer (see printer manual for details). To resume printing, turn the printer off and then turn it back on.		
PRINTER ERROR RESUME?	error.	Check printer (see printer manual for details). If printing does not resume automatically, press <b>MENU/OK</b> 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.

**DP0F** (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.

**Motion JPEG**: An AVI (Audio Video Interleave) format that stores sound and JPEG images in a single file. Motion JPEG files can be played in Windows Media Player (requires DirectX 8.0 or later) or QuickTime 3.0 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."

# **Appendix**

## **Internal Memory/Memory Card Capacity**

The following table shows the recording time or number of available frames 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.

4:3		3:2 16:9		M 4:3		₹ 3:2		M 16:9					
		FINE	NORMAL	FINE	NORMAL	FINE	NORMAL	FINE	NORMAL	FINE	NORMAL	FINE	NORMAL
S	ize (pixels)	3,616>	< 2,712	3,616>	< 2,400	3,616>	< 2,048	2,592>	< 1,944	2,592	< 1,728	2,592×1,440	
	File size	3.9 MB	2.4 MB	3.4 MB	2.2 MB	2.9 MB	1.8 MB	2.5 MB	1.3 MB	2.2 MB	1.1 MB	1.9 MB	950 KB
Internal memory (approx. 47 MB)		12	19	13	22	16	26	19	38	21	42	25	51
S	512 MB	120	200	140	220	160	260	190	380	220	430	260	510
) card	1 GB	250	400	280	450	330	530	390	770	440	870	520	1,030
٩	2 GB	510	810	570	910	670	1,060	790	1,540	880	1720	1,050	2,060
SD	4 GB	1,020	1,630	1,140	1,820	1,340	2,130	1,590	3,100	1,770	3440	2,100	4,130
SDHC card	8 GB	2,050	3,270	2,300	3,660	2,700	4,290	3,190	6,220	3,550	6910	4,220	8,300
ard	16 GB	4,080	6,500	4,570	7,260	5,370	8,520	6,330	12,350	7,050	13720	8,370	16,470

		S 4:3		S 3:2		S 16:9		640	320	
		FINE	NORMAL	FINE	NORMAL	FINE	NORMAL	040	620	
S	Size (pixels)	2,048>	< 1,536	2,048×1,360		1,920 × 1,080		640×480	$320 \times 240$	
	File size	1.6 MB	800 KB	1.4 MB	720 KB	1.0 MB	700 KB		_	
Internal memory (approx. 47 MB)		30	60	34	67	46	69	42 sec.	1 min. 24 sec.	
S	512 MB	310	600	350	680	460	700	7 min.	14 min.	
) card	1 GB	620	1,210	700	1,370	930	1,400	14 min.	28 min.	
<u>a</u>	2 GB	1,230	2,380	1,400	2,690	1,870	2,810	29 min.	57 min.*	
105	4 GB	2,480	4,770	2,820	5,390	3,760	5,640	58 min.*	114 min.*	
SDHC card	8 GB	4,980	9,570	5,650	10,820	7,540	11,310	116 min.*	230 min.*	
ard	16 GB	9,880	19,000	11,230	21,480	14,970	22,460	231 min.*	457 min.*	

<sup>\*</sup> Total length of all movie files. Individual movies can not exceed 1GB (640), regardless of capacity of memory card.

## **Specifications**

System		
Model	Digital Camera FinePix F70EXR	
Effective pixels	10 million	
CCD	½-in. Super CCD EXR	
Storage media	Internal memory (approx. 47 MB)	SD/SDHC memory cards (see page 8)
File system	Compliant with Design Rule for Camera File System (DCF), Exif 2.2, and Digital Print Order Format (DPOF)	
File format	Still pictures: Exif 2.2 JPEG (compressed)     Audio: monaural WAV	Movies: AVI-format Motion JPEG
Image size (pixels)	• L 4:3: 3,616×2,712 • M 4:3: 2,592×1,944 • S 4:3: 2,048×1,536 • S 3:2: 2,048×1,360	B • M 16:9: 2,592 × 1,440
File size	See pages 109–110	
Lens	Fujinon 10 × optical zoom lens, F3.3 (wide angle) – F5.6 (telephoto)	
Focal length	f=5.0 mm-50.0 mm (35-mm format equivalent: 27 mm-270 mm)	
Digital zoom	Approx. $4.0 \times$ (up to $40 \times$ when combined with optical zoom)	
Aperture	F3.3/F6.4 (wide angle), F5.6/F11.0 (telephoto), uses Neutral Density (ND) filter	
Focus range (distance from	Approx. 45 cm (1.5 ft.)—infinity (wide angle); 2 m (6.6 ft.)—infinity (telephoto)	
front of lens)	Macro: approx. 5 cm-2.5 m/2 in8.2 ft. (wide angle); 90 cm-2.5 m/3 ft8.2 ft. (telephoto)  Quick AF: approx. 1 m (3.3 ft.)-infinity (wide angle); 4 m (13.1 ft.)-infinity (telephoto)	
Sensitivity	Standard output sensitivity equivalent to ISO 100, 200, 400, 800, 1600, 3200*1, 6400*2, 12800*2; AUTO, AUTO (400), AUTO (800), AUTO (1600)  *1 image size M or S, *2 image size S only	
Metering	256-segment through-the-lens (TTL) metering; MULTI, SPOT, AVERAGE	
Exposure control	Program and 2-stop aperture-priority autoexposure; manual exposure	
Exposure compensation	-2EV-+2EV in increments of ⅓EV (EXR and F	modes)

System			
Scene modes		NATURAL LIGHT), ங (PRO FOCUS MODE), ORTRAIT ENHANCER), 🛦 (LANDSCAPE), 🌂 (SPORT), ORKS), 🚵 (SUNSET), 🚱 (SNOW), 💥 (BEACH),	
Picture stabilization	Optical stabilization (CCD shift)		
Intelligent Face Detection	Available		
Shutter speed (combined	· <b>(</b> +: 1/8 S = 1/1,000 S		
mechanicalandelectronic	• <b>x</b> <sup>(*)</sup> : 3 S= <sup>1</sup> /1,000 S		
shutter)	• : 4s-1/2s		
	• Manual selection: 8 s – ½,000 S		
	• Other modes: 1/4 S-1/2,000 S		
Continuous	• <b>Q</b> : up to 1.8 fps; max. 3 frames	• <b>७</b> : up to 1.8 fps; last 3 frames recorded	
	• 🕰: up to 4.8 fps; max. 12 frames	• r: up to 4.8 fps; last 12 frames recorded	
Focus	Mode: Center AF, Multi AF, Continuous AF		
	Autofocus system: Contrast-detect TTL AF		
White balance	Automatic scene detection; six manual preset modes for direct sunlight, shade, dayli		
	warm white fluorescent, cool white fluorescent, and incandescent; custom white balance		
Self-timer	Off, 2sec., 10sec.		
Flash	Auto flash; effective range when sensitivity is set to <b>ISO 800</b> is approx. 30 cm-4.2 m/1		
	angle), 90 cm-2.4 m/3 ft7.9 ft. (telephoto)		
Flash modes	Auto, forced flash, off, slow synchro (red-eye rem	oval off); auto with red-eye removal, forced flash with	
	red-eye removal, off, slow synchro with red-eye removal (red-eye removal on)		

System	2.7 in 220k data solar LCD magnitur	
Monitor	2.7-in., 230k-dot color LCD monitor	
Frame coverage	Approx. 100%	
Movies	Frame size 640×480 or 320×240 pixels; 30 fps; monaural sound	
Shooting options	EXR mode (EXR AUTO, RESOLUTION PRIORITY, HIGH ISO & LOW NOISE, D-RANGE PRIORITY),	
	Dynamic range, Intelligent Face Detection with red-eye removal, power management, framing	
	guideline, frame number memory, and film simulation	
Playback options	Intelligent Face Detection, red-eye removal, micro thumbnail, multi-frame playback, sort-by-date,	
	crop, resize, slide show, image rotation, and voice memo	
Other options	PictBridge, Exif Print, language selection (Japanese / English / French / German / Spanish / Italian /	
	Simplified Chinese / Korean / Dutch / Portuguese / Russian / Thai / Turkish / Traditional Chinese /	
	Czech / Hungarian / Polish / Swedish / Slovak / Danish / Norwegian / Finnish / Arabic), time	
	difference, silent mode	
Input/output terminals		
A/V OUT (audio/video output)	8-pin multi-connector for NTSC or PAL output with monaural sound	

USB 2.0 High Speed; shares A/V OUT connector

Digital input/output

Power supply/other		
Power supply	NP-50 rechargeable battery; optional AC power adapter AC-5VX and DC coupler CP-50	
Guide to the number of	Battery Type NP-50 Number of frames Approx. 230 frames	
available frames for battery operation	ry According to the CIPA (Camera & Imaging Products Association) standard procedure for measuring digital still camera battery consumption (extract):	
	When using a battery, use the battery supplied with the camera. The storage media should be SD memory card.	
	Note that the number of shots that can be taken with a fully-charged battery varies with	
	temperature and shooting conditions.	
Camera dimensions	99.3 mm×58.9 mm×22.7 mm/3.9 in.×2.3 in.×0.9 in.,	
$(W \times H \times D)$	excluding projecting parts, measured at the thinnest part	
Camera weight	Approx. 180 g/6.3 oz., excluding batteries, accessories, and memory cards	
Shooting weight	Approx. 200 g/7.1 oz., including batteries and memory card	
Operating conditions	Temperature: 0°C to +40°C (+32°F to +104°F)	
	80% humidity or less (no condensation)	

NP-50 rechargeable battery		
Nominal voltage	DC 3.6V	
Nominal capacity	1000 mAh	
Operating temperature	0°C-+40°C/+32°F-+104°F	
Dimensions (W $\times$ H $\times$ D)	35.4 mm × 40.0 mm × 6.6 mm/1.4 in. × 1.6 in. × 0.3 in.	
Weight	Approx. 18 g/0.6 oz.	

BC-45W battery charger	
Rated input	100 V-240 V AC, 50/60 Hz
Input capacity	8.0 VA (100 V) 12 VA (240 V)
Rated output	4.2 V DC, 550 mA
Supported batteries	NP-50 rechargeable batteries
Charging time	Approx. 150 minutes
Dimensions (W $\times$ H $\times$ D)	91 mm×62 mm×23 mm/3.6 in.×2.4 in.×0.9 in.
Weight	Approx. 67 g/2.4 oz., excluding battery
Operating temperature	0°C-+40°C/+32°F-+104°F

The weight and dimensions vary with the country or region of sale.

#### **Color Television Systems**

NTSC (**N**ational **T**elevision **S**ystem **C**ommittee) is a color television telecasting specification adopted mainly in the U.S.A., Canada, and Japan. PAL (**P**hase **A**lternation by **L**ine) 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**

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