

Image Programs

The image programs provide programs for each mode that make it easy for you to take pictures that capture your desired image. The programs tailor the camera settings to particular scenes or subjects by selecting shutter speeds matched to the subject's movement and aperture settings that allow for the depth of field (focusing depth) and even the focusing characteristics of the lens.

See P.80 for information on using image programs with other functions.

Taking Pictures Using Image Programs

Set the exposure mode dial to the desired image program, check that the focus indicator "●" is lit, and then take the picture.



- If one of the following warnings appears on the top display panel or viewfinder display, the subject is too bright or too dark and is beyond the camera control range.
 - H I : Use an ND (light volume adjustment) filter.
 - Lo : Use the flash.

Note

Points to note when using image programs

Program shift (P/Pr) and exposure compensation (P/A) have been cancelled in the image program modes. If you use the flash, the syncro mode is automatically switched according to the mode. (P.76)

Image Program Types and Features

Portrait mode

By using exposure control with a wide aperture (a low aperture number), this mode keeps a shallow depth of field (restricting the range of focus in front of and behind the subject). This allows you to take pictures in which your subject stands out clearly against a softly blurred background, giving a feeling of depth in the shot.

Recommended lens: The most effective lenses for this mode are bright telephoto lenses in the 50 to 135 mm range.



Landscape mode

By using exposure control with a narrow aperture (a high aperture number), this mode gives a large depth of field (extending the range of focus in front of and behind the subject) to allow you to take pictures of scenery in which the both near and distant objects are in sharp focus.

Lenses from wide-angle through to telephoto can be used in this mode.

- In some photography conditions care is needed to avoid camera shake since a slow shutter speed may be used. (A tripod should be used in such situations.)



Close-up mode

This mode uses exposure control with a wide aperture to give a relatively shallow depth of field so that you can take close-up shots in which your subject stands out clearly against a softly blurred background.

Recommended lens: The most effective lenses for this mode are the Micro Nikkor lenses.

- In some photography conditions care is needed to avoid camera shake since a slow shutter speed may be used. (A tripod should be used in such situations.)



Sports mode (continuous shooting)

This mode uses exposure control with a fast shutter speed setting to freeze your subject in a moment of rapid movement and allow you to take shots of sporting events that capture the feeling of fast-paced action. Recommended lens: The most effective lenses for this mode are telephoto lenses in the 80 to 300 mm range.

- In Sports mode, the focusing mode switches to continuous AF servo without focus lock so that the camera focus tracks the movements of your subject. Also, if "Preview" (see P.49) is set to OFF, the camera shoots pictures continuously for as long as the shutter button is held down. The maximum number of continuous frames is 5.



Note

Using continuous shooting when the number of remaining frames displayed is small.

If you use continuous shooting when the number of remaining frames displayed is small, a warning beep may sound and the number of remaining frames displayed may show 0 even when the number of shots taken follows the number of shots displayed when continuous shooting began.

Night scene mode

This mode uses exposure control that is tailored to dimly lit subjects and allows you to effectively capture beautiful evening or night scenes.

Also, when you are shooting people against an evening backdrop, you can use the flash to capture both your subjects and the background as they appear naturally. Lenses from wide-angle through to telephoto can be used in this mode.

- In some photography conditions care is needed to avoid camera shake since a slow shutter speed may be used. (A tripod should be used in such situations.)



- The FinePix S1 PRO normally uses multi-pattern light metering. However, when the exposure mode is set to Manual or the AE lock (see P.70) is used, light metering automatically switches to center-weighted metering.

Multi-pattern Metering and 3D 6-zone Multi-pattern Metering



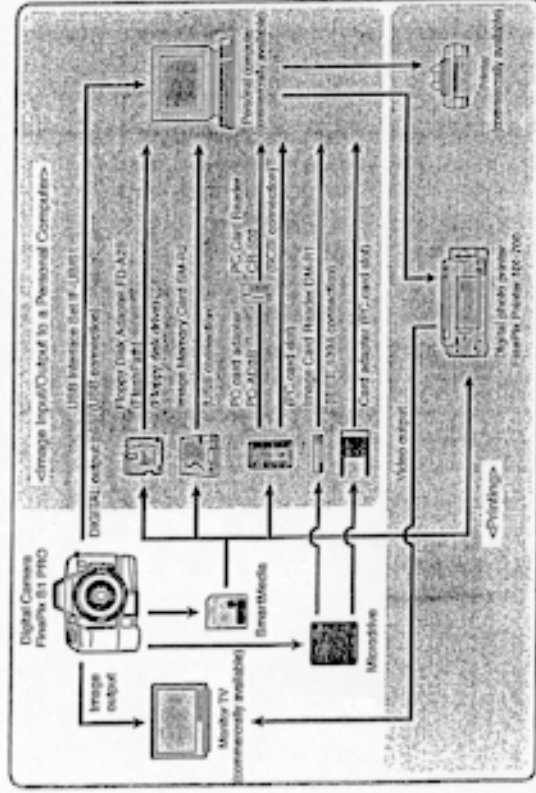
In multi-pattern metering, the image is divided into 6 zones as shown in the figure above. Each of the 6 zones is measured independently and that information is then used to determine the optimum exposure. When a D-type AF lens is mounted on the camera, 3D 6-zone multi-pattern metering is used. In this mode, information on the maximum brightness in the image and the difference in brightness is also included, along with information on the distance from the lens to the subject, to give heightened metering precision. Except where the exposure mode is set to Manual or AE lock (see P.70), multi-pattern metering is used for all shots.

Center-weighted Metering



In center-weighted metering, emphasis is placed on the central area of the viewfinder (a circle roughly 12 mm in diameter) when the light is measured to determine the exposure setting. Consequently, this mode is best for shots where you want the area inside that 12 mm circle to be the exposure reference. When the exposure mode is set to Manual (see P.64) or AE lock (see P.70) is used, metering is automatically switched to this mode.

- By using the FinePix S1 PRO together with other optional FUJIFILM products, your system can be expanded to fill a wide range of uses. See pages 108-109 and 111-112 for details.



■ This section introduces some of the key products in the range of optional accessories available for the FinePix S1 PRO. Many other optional accessories are available to further expand your selection of photographic options. Refer to the catalog for details.

● **SmartMedia™**

The following types of SmartMedia can be used with the FinePix S1 PRO:

- MG-4SB : 4 MB, 3.3 V • MG16-SW : 16 MB, 3.3 V (with ID)
- MG-8SB : 8 MB, 3.3 V • MG32-SW : 32 MB, 3.3 V (with ID)
- MG-16SB : 16 MB, 3.3 V • MG64-SW : 64 MB, 3.3 V (with ID)
- MG-32SB : 32 MB, 3.3 V
- Some 3.3 V SmartMedia are labelled as "3V" cards.



● **Microdrive**

This is an IBM memory card with a capacity of 340 MB for storing large number of images.



● **Image Memory Card Reader DM-R1**

This device allows image data shot on the camera to be handled in basically the same way as files on an external disk drive for a personal computer.



● **AC Power Adapter AC-5VH**

Use this adapter when you want to take pictures over an extended period or when you connect your camera to a personal computer.



● **AA-size NiMH 1600 Batteries (HR-AA)**

High-capacity AA-size nickel metal hydride batteries.



● **AA-size Ni-Cd High Power 1000 Batteries (HR-AA HP)**

High-capacity AA-size Ni-Cd batteries.

Purchase these batteries in packs of 4 (KR-AA (HP) /2B).



● **NiMH/Ni-Cd Fast Charger 80 (FNH)**

This charger is capable of recharging 2 NiMH batteries in approximately 80 minutes.

Up to 4 NiMH or Ni-Cd batteries can be charged at the same time (for use inside Japan only).



● **Carrying Case LC-S1**

This is a specially designed carrying case for the FinePix S1 PRO. This case holds the camera body and the optional accessories (compact flash unit, charger, replacement lenses, AC power adapter, etc.).



AF/AE Lock:

On the FinePix S1 PRO, pressing the shutter button halfway locks the focus and exposure settings (AF/AE lock). If you want to focus on a subject that is not centered in the frame or change the picture composition after the exposure is set, you can obtain good results by changing the composition after the AF and AE settings are locked.

Auto Power Off Function:

If the camera is not used in any way for a set period, the Auto Power Off function switches the camera off to prevent battery depletion and to avoid wasting power when the camera is connected to the AC power adapter. On this camera, the period can be set to either 2 minutes or 5 minutes.

- The Auto Power Off function does not operate during automatic playback, when a USB connection is being used, or when the Auto Power Off function is switched off during setup.

EV:

A number that denotes exposure. The EV is determined by the brightness of the subject and sensitivity (speed) of the film or CCD. The number is larger for bright subjects and smaller for dark subjects. As the brightness of the subject changes, a digital camera maintains the amount of light hitting the CCD at a constant level by adjusting the aperture and shutter speed. The EV number increases by 1 if the amount of light hitting the CCD doubles and decreases by 1 if the amount of light halves.

Exif file format:

Exif is a full-color still image format for use in digital still cameras that is approved by JEIDA (Japan Electronic Industry Development Association). The Exif file format is compatible with TIFF and JPEG and can be handled by most image processing software. Exif also stipulates the recording methods for thumbnail images and camera data.

JPEG:

Acronym for the Joint Photographic Experts Group. JPEG is a file format for the compression and storage of color images. The compression ratio can be selected, but the higher the compression ratio, the poorer the quality of the expanded (restored) image.

TIFF-RGB:

A format for saving image data in which a tag indicating the file format is attached to each item of data. Files stored in this format can be opened on a personal computer.

TIFF-YC:

A TIFF format. Images stored in this format must be opened by applications that support the TIFF-YC format. The FUJIFILM USB Interface Set IF-UB/S1 is recommended.

White Balance:

Regardless of the type of lighting, the human eye adapts so that a white object still looks white. On the other hand, devices such as digital still cameras register a white subject as white by first adjusting their internal color balance to match the color of the ambient light around the subject. This adjustment process is referred to as matching the white balance. A function that automatically matches the white balance is called an automatic white balance function.

- By connecting the camera to a personal computer with the cable provided, you can download image data from the camera to the computer. However, you cannot upload data from the computer to the camera. You can also control the camera, specify the photography settings and take pictures from the computer.
- Some lenses may obstruct the USB cable connection.

Important

Compatible personal computers

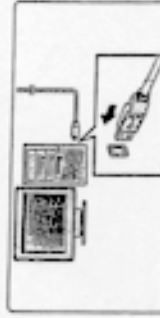
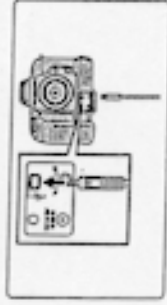
PCs running Windows 2000, Windows 98 (including the Second Edition) and Macintosh computers running Mac OS 8.5.1 to Mac OS 9.0 can be used. Note that the computer must be equipped with a USB port. (Operation is not guaranteed on home-made personal computers.)

1 Load a memory card (SmartMedia or microdrive) into the camera (see P.24).

2 Switch the camera on and set the camera to PC mode (see P.54).

- To control picture taking on the FinePix S1 PRO from a personal computer, select "PC MODE ▶ SHOOTING".
- Use the "Camera Shooting Software" program on the personal computer.
- To download image data from the camera to a personal computer, select "PC MODE ▶ DOWNLOADING" and use the "USB Mass Storage Driver" on the personal computer.
- For information on using the software, refer to the User's Guide for the USB Interface Set IF-UB/S1.

3 Plug the small plug on the cable provided into the digital camera USB socket on the camera and then plug the other end of the cable into the USB port on the computer. When you switch on the computer, the "USB" icon appears on the camera's rear display panel.



- When the "IBUSY" message appears on the rear display panel, this indicates that the camera is being accessed. Never open the slot cover or disconnect the cable while the camera is being accessed. This can prevent correct data downloading and cause camera malfunctions.



■ Replacing Memory Cards

- On Windows
 - Check that the camera is not being accessed and replace the card.
- On a Macintosh
 - Drag the removable disk icon on the desktop to the Trash. When the "REMOVE OK" message appears on the rear display panel, replace the disk.

■ Note

When a card is not recognized again after it has been replaced:

- On some computers, a card may not be recognized again after it has been replaced if this occurs with the camera off and then on again.
- If you open the slot cover the "IBUSY" warning appears on the top display panel. After replacing the card, press the shutter button down halfway.

Notes on Using the FinePix S1 PRO

■ Places to Avoid

Do not store or use the camera in the following types of locations:

- Very humid, dirty or dusty places
- In direct sunlight or in places subject to extreme temperature rises, such as in a closed car in summer. Extremely cold places
- Places subject to strong vibrations
- Places affected by smoke or steam
- Places subject to strong magnetic fields (such as near motors, transformers or magnets)
- For long periods in contact with chemicals such as pesticides or next to rubber or vinyl products

■ Do not expose the camera to sand.

The FinePix S1 PRO is particularly adversely affected by sand. In sandy locations such as beaches or deserts, or in locations where there is windborne sand, ensure that the camera is not exposed to sand. This can cause faults that may be irreparable.

■ Notes on Condensation

If the camera is carried suddenly from a cold location into a warm place, water droplets (condensation) may form on the inside of the camera or on the lens. When this occurs, switch the camera off and wait an hour before using the camera. Condensation may also form on the SmartMedia or microdrive card. In this event, remove the SmartMedia or microdrive and wait a short time before using it again.

■ When the Camera is Unused for Long Periods

If you do not intend to use the camera for a long period, remove the batteries and any SmartMedia or microdrive cards before storing the camera.

■ Cleaning Your Camera

- Use a blower brush remove dust from the lens, LCD color monitor and viewfinder and then wipe lightly with a soft, dry cloth. If any soiling remains, apply a small amount of lens cleaning liquid to a piece of FLUJIFILM lens cleaning paper and wipe gently.
- Do not scrape the lens, LCD monitor or viewfinder with hard objects as the surface scratches easily.
- Clean the body of the camera with a soft dry cloth. Do not use volatile substances such as thinners, benzene or insecticide, as these may react with camera body and cause degeneration or deformation or cause the coating to peel off.

■ Using the Camera Overseas

- When travelling overseas, do not place your camera in the check-in baggage. Baggage handling at airports may subject baggage to violent shocks, and the camera may be damaged internally even when no external damage is visible.

Cleaning the CCD

- 1 Perform steps 1 to 5 in "Determining whether cleaning is required (visually)" to swing the mirror up.
 - Never disconnect the AC power adapter during cleaning as this can result in damage to the camera shutter.
- 2 Use a blower to remove any soiling on the CCD surface.

Note

Points to Note when Cleaning the CCD

- Using a blower that does not have a brush attachment (using a brush can scratch the CCD surface) or fan if you are using a spray can blower, do not get the battery can (the inside of the inside can) too close to the CCD. The battery can could be ejected, would be hot, and could sink the lens or mirror.
- If there is soiling on the CCD that cannot be removed using a blower, such as oil or fingerprints, take the camera to an authorized FUJIFILM dealer for cleaning. Most attempts to clean the CCD by wiping it with the CCD is extremely risky.

- 3 Check that all the soiling has been removed and then hold down both the self-timer button "⊙" and the AE lock button "AE-L" as you switch the camera off. Then disconnect the AC power adapter from the camera.

- When you switch the camera off, the mirror drops down and the shutter closes at the same time. Ensure that your fingers are not caught inside the camera.

Batteries that Can Be Used

- Use AA-size nickel-metal hydride, AA-size Ni-Cd or AA-size alkaline batteries, CR123A lithium batteries and a CR2025 button-type cell with the FinePix S1 PRO.

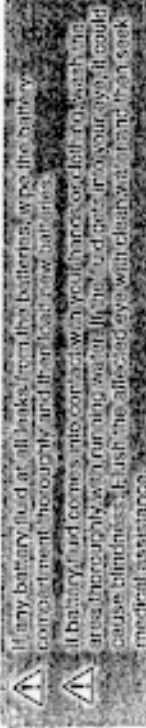
Do not use AA-size manganese or AA-size lithium batteries as these battery types emit heat that can cause camera faults or malfunctions.

- The capacity of alkaline batteries varies depending on the brand. The life of some batteries may be considerably shorter than others.

Notes on Handling the Batteries

Incorrect use or handling of batteries can cause them to leak fluid, emit heat, emit sparks or burst. Observe the following precautions:

- Do not heat batteries or throw them into a fire.
- Do not allow metal objects such as pins to come into contact with the positive ⊕ and negative ⊖ poles on a battery and do not carry or store batteries with metal objects such as necklaces or hairpins.
- Do not get water or seawater on batteries and keep the battery terminals dry.
- Do not attempt to deform, disassemble or modify a battery.
- Do not attempt to remove or damage the battery casing.
- Do not drop, strike or otherwise subject batteries to strong impacts.
- Do not use batteries that are leaking fluid, are deformed or discolored or are in any other way abnormal.
- Do not store batteries in very warm or humid places.
- Store batteries out of the reach of small children.
- When loading the batteries into the camera, ensure that the positive ⊕ and negative ⊖ poles are arranged as indicated.
- Do not use new batteries together with used batteries. (With rechargeable batteries, do not use charged batteries together with discharged batteries.)
- Do not use batteries of different types or brands together.
- Remove the batteries from the camera if it will not be used for a long period. (If the camera is left without batteries for an extended period, the camera settings will revert to the factory default values.)
- Some batteries may feel warm just after use. Switch the camera off and allow the batteries to cool before removing them.
- When replacing the batteries, always fit new batteries of the same type. In the case of alkaline, lithium CR1234A and button-type CR2025 batteries, "new batteries" denotes recently purchased, unused batteries. In the case of rechargeable NiMH and Ni-Cd batteries, it denotes batteries that were recently fully recharged at the same time.
- In cold locations (10°C or colder), battery performance declines and the time for which the batteries can be used decreases. Because this tendency is particularly pronounced in alkaline batteries, warm the batteries by placing them in a warm place such as your pocket before using them. If you are using a heating pad, take care not to place the batteries directly against the pad.



- Disposing of batteries
Dispose of used batteries in accordance with your local waste disposal regulations.
- Notes on Using Small Rechargeable Batteries (NiMH/Ni-Cd)
 - Charge AA-size NiMH and Ni-Cd batteries correctly using the Fast Charger (sold separately).
 - Do not use batteries other than those specified in the Fast Charger (sold separately).
 - Note that batteries may feel warm immediately after charging. This is normal.
 - NiMH and Ni-Cd batteries are not charged when they are shipped. Always charge new batteries before using them.
 - Due to the mechanical characteristics of the camera, a very small amount of current flows even when the camera is switched off. Take particular care with NiMH and Ni-Cd batteries as they will become excessively discharged and may no longer function even when charged if you leave them in the camera for a long period.
 - NiMH and Ni-Cd batteries self-discharge when not used. Always recharge the batteries before using them. If the time for which a battery can be used decreases markedly even when it is correctly charged, this indicates that the battery has reached the end of its effective life. Purchase a new battery.
 - Soiling such as fingerprints or grease on the poles of NiMH batteries can significantly reduce the number of shots that can be taken using the batteries. If this occurs, wipe the poles carefully with a soft dry cloth and recharge the batteries once they have fully discharged.
- Recycling Small Rechargeable Batteries
This symbol is the recycling symbol used for small rechargeable batteries (such as NiMH and Ni-Cd batteries). Small rechargeable batteries use scarce and valuable resources that only exist in small quantities and these metals can be recycled. Recycling resources in this way helps to reduce waste and protect the environment. Dispose of your used small rechargeable batteries by stocking insulating tape over the metal terminals on the batteries and taking them to your local recycling facility for small rechargeable batteries.

Notes on Using the AC Power Adapter (AC-5VH)



Use only the AC-5VH AC Power Adapter (sold separately) with your FinePix S1 PRO Digital Camera. (The AC-DS7 is equipped with an EIAJ-compliant standard-polarity plug.) The use of an AC adapter other than the AC-5VH may result in damage to your camera.

- Take care to ensure that the contact points on the AC power adapter do not touch other metal objects as this can cause a short-circuit.

- Do not plug the AC power adapter into the camera when it is running on batteries. Switch the camera off and then plug in the AC power adapter.
- Do not load batteries into the camera or replace the batteries when the camera is running on the AC power adapter. Switch the camera off first.

Notes on Media (SmartMedia™ and Microdrives)

- SmartMedia
SmartMedia are a new recording media developed specifically for use in digital cameras. Each SmartMedia card contains a semiconductor memory chip (NANO-type flash memory) which is used to record digital image data.
Because the data is recorded electrically, recorded data can be erased and re-recorded.
- SmartMedia with ID
SmartMedia ID (SmartMedia with ID) are SmartMedia that have been assigned individual ID numbers. SmartMedia ID cards can be used in devices with features that use IDs for applications such as copyright protection. SmartMedia ID cards can be used on the FinePix S1 PRO in the same way as conventional SmartMedia cards.
- Microdrives
Microdrives are the world's smallest and lightest hard disk drives and conform to the CF+ Type II extended standard for CompactFlash. Because microdrives can hold large numbers of recorded images and represent a very low cost per megabyte, they allow more economical recording of high-quality images.
- Data Retention
In the following situations, recorded data may be erased (or corrupted). Fuji Photo Film Co. Ltd accepts no liability for any losses incurred as a result of data being erased or corrupted.
 - If the media is used improperly by the customer or by a third party
 - If the media is affected by static electricity or electrical interference
 - If the media is removed or the device is switched off while data is being recorded onto or erased from the media (including formatting)

Important data should be backed up on to another media (MO disk, floppy disk, hard disk, etc.)

- Notes on handling media (all types)
 - When inserting the media, hold it straight as you slide it in.
 - Never remove the media or switch the camera off during data recording, during data erasing (formatting) or during frame advance when images are being played back. These actions could result in damage to the media.
 - Media are precision electronic devices. Do not bend, drop, or subject media to excessive shocks.
 - Do not use or store media in environments likely to be affected by strong static electricity or electrical noise.
 - Do not use or store media in very hot, humid or corrosive environments.
- Notes on handling SmartMedia
 - Use only the SmartMedia specified for use with the FinePix S1 PRO. The use of other SmartMedia could damage the camera.
 - Take care not to touch the SmartMedia's contact area (gold-colored area) or allow the area to become soiled. Use a dry lint-free cloth to wipe away any soiling that does occur.
 - To avoid damage caused by static electricity, always use the special static-free case provided during transportation or storage. Keep the SmartMedia in a storage case if available.
 - Inserting a SmartMedia that is charged with static electricity into your camera may result in a camera malfunction. If this occurs, switch the camera off and then on again.

- Do not carry SmartMedia in locations such as a trouser pocket. This could subject the SmartMedia to excessive force when you sit down, thereby damaging the SmartMedia.
- The SmartMedia may feel warm when it is removed from the camera after being used for an extended period. This is normal and does not indicate a fault.
- SmartMedia cards have a limited life. After a long period of use it will become impossible to record new image data on the card. In this event, purchase a new card.
- Stick the enclosed index label onto the index area on the SmartMedia. Do not use third-party labels on the SmartMedia as this can cause faults when the SmartMedia is inserted or removed.
- Take care that index labels do not overlap into the write-protect area.
- If there is any initial product defect in SmartMedia cards as a result of manufacturing by FUJIFILM, the same number of replacement cards will be provided free of charge. FUJIFILM accepts no liability for faults attributable to other causes.

Notes on using microdrives

- Do not write on the microdrive label.
 - Do not peel off the microdrive label.
 - Do not stick another label onto a microdrive.
 - When carrying or storing a microdrive, keep it in the protective case provided.
 - Do not use microdrives in CF+ Type II slots that do not have an eject function.
 - Take care when handling microdrives that have been used for long periods as they may become hot.
- #### Notes on using media with a personal computer
- If you intend to take photos using a media that has been used on a personal computer, first format the media on your camera.
 - When you format a media in the camera and then photograph and record images, a folder is automatically created on the media. Image data is then recorded in this folder.
 - Do not change or delete the folder names or file names on the media from your PC as this will make it impossible to use the media in your camera.
 - Always use the camera to erase image data on a media.
 - To edit image data, copy the image data to the computer's hard disk and then edit the copied data.

Main SmartMedia Specifications

Type	Image memory card for digital cameras (SmartMedia)
Operating voltage	3.3 V
Operating conditions	Temperature: 0°C to 40°C Humidity: 80% or less (condensation free)
Dimensions	37 mm x 45 mm x 0.75 mm (W x H x D)

Main Microdrive Specifications

Type	CompactFlash Type II
Operating voltage	3.3 V or 5 V
Operating conditions	Temperature: 5°C to 40°C Humidity: 8-90% or less (condensation free)
Dimensions	42.8 mm x 36.4 mm x 5 mm (W x H x D)

- If a warning is displayed or flashes in the top display panel or the viewfinder display, check the points described in the table below before requesting repairs.

Problem	Cause	Solution	Ref. Page
Top display panel FEE (flashing)	The aperture ring on the lens is not set to the narrowest aperture.	Set the aperture ring on the lens to the narrowest aperture.	P.20
Viewfinder display FEE (flashing)	The lithium batteries are flat.	Replace the lithium batteries.	P.17, 18 P.22
F... (flashing) (R in M mode)	The lithium battery charge is low.	Have spare lithium batteries ready.	P.22
F... (flashing) (R in M mode)	The lens mounted is not a Nikkor lens with built-in CPU or no lens is mounted on the camera.	Use a Nikkor lens with built-in CPU (excluding IX Nikkor lenses). (Note that pictures can still be taken in M mode.)	P.20 P.106
Err (R)	The slot cover was opened during card operation.	Switch the camera off, close the slot cover, switch the camera back on and try again.	P.25 P.112
Err (R)	The AA-size batteries are low on charge or flat.	Switch the camera off, replace the AA-size batteries, switch the camera back on and try again.	P.16
Err (flashing)	The AA-size batteries are low on charge or the camera mechanism has stopped due to cold and cannot take pictures.	Switch the camera off, replace the AA-size batteries, switch the camera back on and try again.	P.17, 18
• (flashing)	AF (auto focus) cannot focus the camera.	Focus the camera in manual (M) mode.	P.58

Item	Specifications
Dimensions	148.5 x 125 x 79.5 (mm) (excluding LCD screen and attachments)
Weight	820g (body only, not including batteries)
Applicable Image Processing	4 AA-size batteries (NiMH, Ni-Cd or alkaline) Special AC Power Adaptor AC-5VH (sold separately) Lithium buffer cell (CR2025 for watches)
Camera	2 lithium batteries (CR123A) Power also available from image processing using battery-type adapter (Note) The built-in flash cannot be used when the battery-type adapter is used.
Number of shots	Minimum 650 (without previews, recorded on SmartMedia) Image processing: NiMH batteries; Camera: CR123A
Recording media	• Slot 1: SmartMedia (3.3 V) Supports 2, 4, 8, 16, 32 or 64 MB media (support planned up to 128 MB) • Slot 2: Microdrive 340 MB (IBM)
Recorded image sizes	3040 x 2016, 2304 x 1536, 1440 x 960
Recording modes	Compressed: DCF (Fine, Normal or Basic) Uncompressed: TIFF-RGB (8-bit) and TIFF-YC (8-bit)
Power up time	1 second (using SmartMedia)
Interval between shots	1.8 sec. (S2-completion of recording, 3040, NORMAL, recorded on SM)
Single-shot	Snapshot: 0.7 sec. (using buffer memory) Continuous shooting: 0.7 sec. per frame, 5 frames
Exposure control	Auto, P, S, A, M, Portrait, Landscape, Close-up, Sports and Night Scene
Lens mount	Nikon F mount
Lenses	AF Nikkor lenses Auto focus not available on AF-S, AF-I and ALP Nikkor lenses.
Lens focal length	Approx. 1.5 times nominal focal length of lens
Viewfinder	Eye-level optical type (coverage: approx. 90% vertical and approx. 93% horizontal)
Eyepiece adjustment	-1.5 to +1.0 dpt
Auto focus	TTL phase detection with auxiliary AF lamp
Lens servo	AF (single AF servo or continuous AF servo automatically selected by the camera), M
Light metering modes	3D 6-zone multi-pixel metering and center-weighted metering
Shutter	Electronically controlled descending-type focal-plane shutter
Shutter speeds	1/2000 to 30 sec.
Exposure compensation	±3 Exit Viewer (in 1/3 f-stop increments)
AE lock	BV memory type using AE lock button (center-weighted metering)
Self-timer	2 or 10 seconds

Item	Specifications
Synchro contacts	X contacts only (semiconductor-type), synchronized with Speedlite at low shutter speeds of 1/125 sec. and slower.
Built-in flash	Manual pop-up type. Guide No. 15 (ISO 100/m at 20°C) F2.8 F4.0 F5.6 F8 F11 ISO 320 2.2-10.3m 1.8-6.7m 1.3-4.3m 0.8-3.2m ISO 400 2.5-11.5m 2.0-9.7m 1.5-6.8m 1.0-4.8m 1.0-3.6m ISO 800 Not supported ISO 1600 Not supported
Synchro modes	Normal synchro, red-eye reduction, red-eye reduction slow synchro, slow synchro
Accessory shoe	Hot shoe (with flash contacts, TTL automatic flash control contacts and ready light contacts) With safety lock mechanism
Remote release	Release socket on shutter button
CCD	APS size (23.3 x 15.6), primary-color CCD with 3.2-million pixel "honeycomb" array
Sensitivity	ISO 320, 400, 800 or 1600
White balance	AUTO, Sunny, Shade, Fluorescent 1, Fluorescent 2, Fluorescent 3, Incandescent and Custom
Viewfinder display	Focus indicator, warnings (fEE, Err, F-), exposure settings (shutter speed and aperture), exposure warnings, exposure indicator, exposure compensation icon, focusing frame, center-weighted metering area, ready icon, Speedlite recommended icon
Top display panel	Exposure settings (shutter speed and aperture), synchro modes, sensitivity setting, exposure compensation icon, warnings (fEE, Err, F-), self-timer icon, battery level indicator, program shift icon
Rear panel dot-matrix LCD (backlit)	Shooting 1: Battery level indicator, media used, remaining frames, ISO sensitivity, date/time Shooting 2: Photography function settings (white balance, ISO sensitivity, compression ratio, recorded image size) Shooting 3: Photography function settings (color, tone, sharpness, multi-exposure) Playback 1: Playback function settings (Histogram, frame erase, write-protect, DPOF) Playback 2: Shooting information (shooting date and time, compression ratio, recorded image size, white balance) Playback 3: Shooting information (shutter speed, aperture, ISO sensitivity, color, tone, sharpness)
Rear panel LCD monitor	2-inch low-temperature polysilicon LCD monitor
Video out	VBS (NTSC; U; PAL; E)
Digital I/O	USB
AC power adaptor input	5 V DC
Tripod mount	1/4" (JIS standard)

Item	Specifications
Auto Power Off	Off, 2min, 5min. (Half-press timer fixed to OFF when camera is connected to a PC.)
Battery check	<ul style="list-style-type: none"> Battery checking respectively for camera and DSC. However, checking is matched to the camera when the battery-type adapter is used. Check levels: 3 levels (full, flat and low) If battery capacity is insufficient for any reason in the DSC or camera, a warning is displayed for 5 seconds and then the Auto Power Off function is triggered.
Playback	Single-frame, 4-frame, 9-frame, playback zoom, histogram and auto-play.
Erase modes	Format, all frames, single frame
Image quality	Color, tone, sharpness
Other	DPOF, multi-exposure, frame no. memory, custom WB setting, reference chart
PC mode	Downloading, shooting
Accessories	See page 9.

Main Functions

- The warning and attention symbols shown below are used to indicate the severity of the injury or damage that will result if the indicated information is ignored, and the product is used incorrectly as a result.
 - WARNING**
Indicates information which, if ignored, could cause death or serious injury.
 - ATTENTION**
Indicates information which, if ignored, could result in personal injury or physical damage.

- The icons shown below indicate types of information that should be observed:
 - Indicates important information which the user should bear in mind.
 - Indicates a forbidden action.
 - Indicates a mandatory action that the user must perform.

WARNING

Unplug from power socket

When an abnormal event occurs, switch the camera off and remove the batteries or disconnect the AC power adapter. Continued use of the camera when an abnormal event occurs, such as the camera emitting smoke or an unusual noise, can cause a fire or electric shock. Contact an authorized FUJIFILM dealer.



Keep dry

Do not allow water or foreign objects to enter the camera. If water or any foreign object gets into the camera, switch the camera off, remove the batteries and disconnect the AC power adapter. Continued use of the camera can cause a fire or electric shock. Contact an authorized FUJIFILM dealer.



Do not put the camera down on an unstable surface. The camera could tip over and fall, resulting in an injury.



Do not disassemble

Never attempt to disassemble or modify this camera. (Never open the camera casing.) Do not use the camera when you have dropped the camera or the casing is damaged. Any of these actions can cause a fire or electric shock. Contact an authorized FUJIFILM dealer.

- Standard Number of Available Shots (Recorded Images)
The number of available shots varies slightly depending on the type of subject. The actual number of available shots also varies more widely from the standard number as the capacity of the memory card increases.

Image Size	Memory Card Capacity	RAW	RAW+JPEG	Normal	Basic	
3040 x 2016	Microdrive (340 MB)	18	28	139	295	863
	SmartMedia (64 MB)	3	6	26	55	159
	SmartMedia (32 MB)	1	2	12	27	79
	SmartMedia (16 MB)	0	1	6	13	39
2304 x 1536	Microdrive (340 MB)	33	50	249	520	1249
	SmartMedia (64 MB)	6	9	45	94	221
	SmartMedia (32 MB)	3	4	22	47	110
	SmartMedia (16 MB)	1	2	11	23	54
1440 x 960	Microdrive (340 MB)	84	126	502	972	1822
	SmartMedia (64 MB)	15	23	90	172	331
	SmartMedia (32 MB)	7	11	45	86	165
	SmartMedia (16 MB)	3	5	22	42	82