FUJIFILM

FINEPIX

FINEPIX

S100FS

Genesis of Nature Photography Digital Camera.

The true color of nature: deep, beautiful.

High image quality now changing to “inspiring image quality”

FINEPIX S100FS

Has there ever been a digital camera which captures the color of nature so deeply, beautifully and inspiringly like this? Incorporating the latest functions optimized for nature photography, this camera gives you the power of the image technologies FUJIFILM has been building up. These technologies include extended Dynamic Range to depict all of the subtle colors and tonality veiled in nature, and a Film Simulation Mode and bracketing functions for instant checking of different types of film simulations. Now you can take those photos you have never been able to take with any other digital camera. The FinePix S100FS reproduces colors and tones invisible to the naked eye. We bring you this camera with an inspiring image for lovers of nature photography.

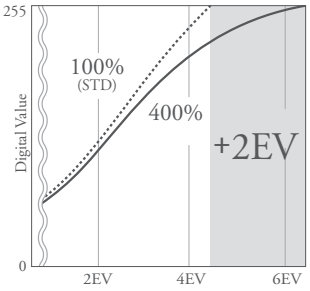
3:2 mode JPEG ISO400 1/60 F5.6 DYNAMIC RANGE 400%

FUJIFILM's distinctive extended Dynamic Range of 400%*.

Tonal expression of the extended Dynamic Range depicts excitement.

The great attractiveness of the FinePix S100FS is the extended Dynamic Range. Dynamic Range for digital cameras means the expression domain between bright areas and dark areas. In nature photography, there are many subjects with great difference between brightness and darkness, such as a bright sky against the dark sea. Such variation is difficult to express without an extended Dynamic Range. A narrow range causes over exposure or under exposure. The FinePix S100FS is the first digital camera with a closed-unit design to have an extended Dynamic Range (100%, 200%, 400%) similar to that of negative film, thanks to the newly developed 2/3-inch 11.1 megapixel Super CCD VIII "HR" and the new image processor "RP (Real Photo) Processor III". This camera prevents over exposure regardless of whether the subject is a landscape or a portrait. Take the beautiful photos you desire, from shots with clear modulation to those deep, fine photos. This is a function that nature photographers, who really need tonal expression more than anybody, simply cannot afford to miss.

■ Extended Dynamic Range chart



Scene making the most of the Dynamic Range 400%

400% Progressions of beautiful colors are meticulously reproduced with profound gradation. Photography which brings to life the finely woven perception of depth and the ambiance of nature is now possible.

100% The vividness of colors is reproduced with lively gradation. Suitable for photos to emphasize strong contrast, such as shadow and light, weak and strong colors.

* Comparison with a model with previous Super CCD "HR".

Film Simulation Mode and bracketing functions to capture the ever-changing presentation of nature.

Incorporates Velvia, PROVIA and SOFT modes.

The FinePix S100FS incorporates new functions, which are so useful for taking photos of nature. One of these new functions is the Film Simulation Mode. Film Simulation Mode allows you to take photos as if you are selecting the most appropriate type of film for each scene. The S100FS reproduces the color tones of Velvia, PROVIA, which are immensely popular FUJIFILM color reversal films. Together with the bracketing function, just one press of the shutter simultaneously creates images based on the three types of film, allowing you to select and produce images matching your intention and your mood. Only FUJIFILM, with our knowledge of everything there is to know about film, could possibly develop this unique function.

Three bracketing functions

The FinePix S100FS has three bracketing functions useful for high-level photography.

Film Simulation bracketing

One press of the shutter produces three images of Velvia, PROVIA and SOFT modes.

Dynamic Range bracketing

One press of the shutter produces three images in a different Dynamic Range (100%, 200%, 400%).

AE bracketing

Continuous capture of three frames with exposure range of up to ±1.0EV.

Velvia mode

Mode for distinctive saturation and the colors of Velvia. Produce the vivid colors of nature in photos with great sharpness and color tone based on red and green.

PROVIA mode

Powerful mode for any subject. Produce colors with the natural tone of PROVIA film, trusted by professional photographers.

SOFT mode

Mode for soft, fine, smooth tonality. Fidelity of hue and soft tone are the features of this mode.

In addition to the above, **Portrait mode**,
which produces soft tonality similar to that of negative film, is also included.

Velvia mode, PROVIA mode, SOFT mode. With just one touch, you can check them all.

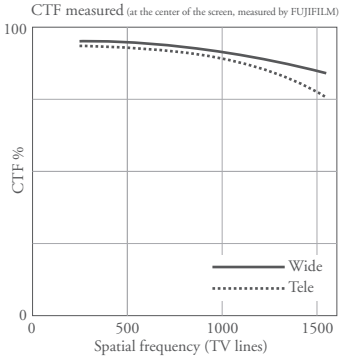
Velvia mode　PROVIA mode　SOFT mode

3:2 mode JPEG ISO100 1/60 F5.6 Velvia mode

Capture inspiration more deeply, vividly, precisely with the newly developed ultrah

3:2 mode JPEG ISO200 1/680 F5.6 Velvia mode

The ultrahigh precision Fujinon lens is the culmination of FUJIFILM's optical technology. The FinePix S100FS is a super-zoom digital camera, which incorporates a newly developed Fujinon lens optimized for nature photography. Rich, expressive capacity produces high resolution, making the most of the large 2/3-inch, 11.1 megapixel, Super CCD.

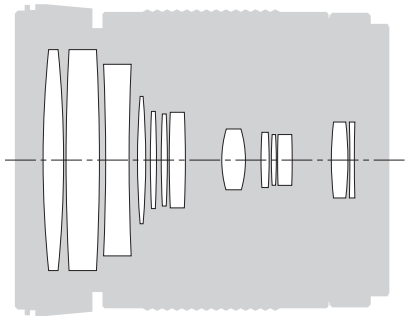


Wide angle 28mm - telephoto 400mm super zoom (35mm equivalent). Super Macro for close-ups of just 1cm (0.4 inch) from the subject (wide angle end).

The FinePix S100FS incorporates a high-magnification 14.3x zoom lens which covers a broad zoom range from a wide angle of 28mm to long telephoto of 400mm and Super Macro for shots as close as 1cm from the subject (wide angle end). Manual zoom allows freedom of zooming and precise framing.

10 group, 13 element structure. Exclusive design with a non-spherical surface lens and anomalous dispersion lens.

This 28mm - 400mm zoom lens with a 10 group and 13 element structure, exclusively designed for the FinePix S100FS, uses a non-spherical surface lens and an anomalous dispersion lens. The non-spherical surface lens suppresses distortion and the curved surface is ideal for efficient focusing of light onto one point, so it realizes high optical performance with a small number of elements. In addition, the anomalous dispersion lens compensates for chromatic aberration well and reduces color drift and mixing on contours — a common problem with telephoto lenses. The lens demonstrates high resolving power and excellent depiction over the entire zoom range. The lens produces clear images by suppressing reflected light inside the



igh precision Fujinon lens.

lens barrel and by thoroughly eliminating ghost images and flare, which is made possible through multiple coatings.

Lens and CCD unit design. Rich expressive capacity for the entire zoom range.

The lens and CCD were designed as one unit during the development of the FinePix S100FS. This design allows the ultrahigh precision Fujinon lens to achieve maximum resolution at all focal lengths of the long zoom of 28mm - 400mm. You can use the whole of your concentration on taking photos without having to think about changing lenses, unlike single-lens reflex cameras.

Excellent telephoto performance. Incorporates a lens-shift type Image Stabilization mechanism.

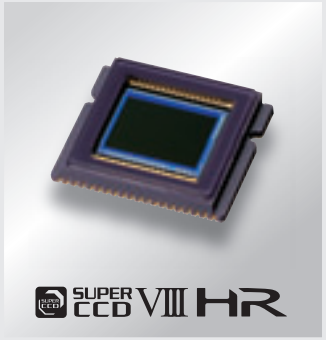
The lens-shift type image stabilization mechanism in the FinePix S100 FS automatically detects vibration of the camera body by a sensor in the camera. This mechanism was devised with new compensation technology and makes the optical compensation function operate precisely according to the degree of vibration to refract light in the direction to compensate for the vibration. The mechanism produces a compensation effect equivalent to about three f stops.* *Measured by FUJIFILM

No dirt or dust penetration because lens and body are in one unit – dust free structure.

The FinePix S100FS does away with troublesome maintenance thanks to the composite body and lens structure, because there is no need to change lenses, so there is no penetration of dirt and dust onto the CCD. You will always take photos with a clean CCD.

Newly developed CCD and new processor for inspiring image quality.

Inspirational image quality with 2/3-inch 11.1 megapixels. Newly developed Super CCD VIII "HR" incorporated.



The FinePix S100FS is a super-zoom digital camera with composite lens for nature photography. The CCD, image processor, the lens to take in the light, etc., of the FinePix S100FS were all optimally designed under a new concept. The CCD sensor, the core unit of the FinePix S100FS, is a newly developed Super CCD VIII "HR". The light receptor area is expanded because of the large 2/3-inch CCD with about 11.1 million effective pixels. FUJIFILM's unique octagonal shape helps to maintain high pixel numbers and enhance the light collection efficiency and light capture efficiency per pixel. The CCD materializes high resolution and high sensitivity with low noise and creates high resolving power which thoroughly expresses the details of subjects and has rich tonal expression with an extended Dynamic Range.

CCD with further enhanced low noise, high S/N ratio.

The FinePix S100FS's CCD has succeeded in reducing noise even further. The CCD reduces the effect of noise by raising the amplification factor of electric signals before output from the CCD by improving the amplifier which converts the electric charge created by the photodiode into electric signals. It becomes possible to transfer signals with a high S/N ratio which contributes to high-quality images for digital conversion.

Excellent color reproduction and high-speed processing. New image processing technology "RP (Real Photo) Processor III".

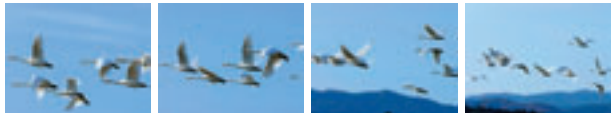
The RP (Real Photo) Processor was developed through deepening FUJIFILM's original image processing technology. The further improved RP (Real Photo) Processor III is incorporated in the FinePix S100FS. The processer is able to read at high speed by using parallel processing achieved by combining the new dual channel output system developed for the 2/3-inch Super CCD VIII "HR" with the 14-bit dual A/D converter for both rich tonality and high-speed reading. The unique double noise reduction system separates noise with great accuracy from the image signals input and meticulously eliminates noise. This makes it possible to create clear images with extremely low noise for ISO3200 ultrahigh sensitivity photographs with full pixels (11.1 megapixels). ISO10000 ultrahigh sensitivity with 3 mega recorded pixels is also an option. This processor created from FUJIFILM's sophisticated image processing technology, enables the creation of images with smooth tonal expression while maintaining high resolution and extended Dynamic Range.

FINEPIX S100FS

Advanced speed, flexibility and maneuverability for professional nature phot

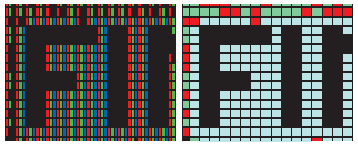
Approx. 3 frames/second at the full 11.1 megapixels. In addition, approx. 7 frames/second (for 3 megapixels) high-speed continuous shooting.

Natural light and colors change at every moment. You want to take photos of these decisive moments quickly. To respond to this need, the FinePix S100FS provides continuous shooting of 3 frames/second at the full 11.1 megapixels. (JPEG: up to 7 frames, CCD-RAW: up to 3 frames) At 3 megapixels, a maximum of 50 continuous shots at 7 frames/second high speed is possible. Reliable high-speed performance is supported by the newly developed Super CCD VIII "HR" and the new image processing technology "RP (Real Photo) Processor III". Stress-less high-speed playback is possible of images after taking photos, at about 10 frames/second.



Aiming for vision very close to the real image. Newly designed electronic viewfinder (EVF).

The FinePix S100FS incorporates a newly developed electronic viewfinder so you can take photos in the same way as using the optical viewfinder of a single-lens reflex camera. Response, color development, color reproduction, etc., are significantly improved by the field sequential drive in the liquid crystal system, which strongly assists checking of color tones and focusing of the image you are photographing.



Existing type　　Field sequential drive type

The 0.2-inch viewfinder display with approximately 200,000 dots is highly accurate, and dots on the display are less visible. Now it is a lot easier to see diverse photo information in the viewfinder. The viewfinder, set just above the lens barrel, facilitates easy holding of the camera and accurate framing of the subject with excellent vision.

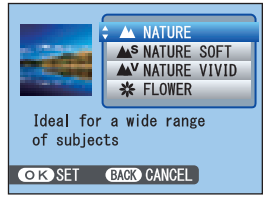
90° upwards and 45° downwards, multi-angle shooting possible. Approx. 230,000 dots high-precision color LCD.

One of the great charms of nature photography is communication with nature. In addition to the newly developed electronic viewfinder, the FinePix S100FS has a 2.5-inch approx. 230,000 dots high-precision LCD which can be freely moved 90° upwards and 45° downwards. A wide-angle monitor with coverage of about 100% offers you flexible shooting positions from low angles to high angles. With this monitor it is easy to check the focusing and the color tone of the photos you have taken and to see menu displays.

14 scene settings and custom settings.

There is a choice of 14 different scene settings (SP1, SP2) optimized for each subject type. It is possible to precisely set optimal settings for the shutter speed, exposure and the white balance for each subject type. SP1 has four sets of scene settings specifically for nature photography. You can store your own photograph settings for film simulation, Dynamic Range, etc., you want for nature photos in the custom modes (C1, C2). You can quickly select the settings at any time.

SP1	SP2		
NATURE	PORTRAIT	NIGHT	SPORT
NATURE SOFT	PORTRAIT SOFT	SUNSET	FIREWORKS
NATURE VIVID	BABY	SNOW	
FLOWER	PORTRAIT ENHANCER	BEACH	



High-speed, high-precision AF modes to respond to diverse photography conditions.

The FinePix S100FS has four AF modes of single AF, continuous AF, manual focus and one-push AF (for manual focus), to respond to diverse photography conditions and intentions. All modes offer high-speed, high-precision focusing. You can focus accurately with your targeted framing. The FinePix S100FS can focus on subjects in low light.

1/4,000 second high-shutter speed. Bulb exposure possible.

You can set shutter speeds of between 1/4,000 second and 30 seconds. Shutter time lag is less than 0.01 seconds. It is possible to take photos of diverse expression with combinations of ISO sensitivity, which has a broad range of setting choices, and multiple apertures of between F2.8 - F11 at 1/3EV steps. Using the manual exposure setting, bulb exposure of up to 30 seconds is possible.

ography.

Raw mode enables image adjustment without deterioration.

You can obtain the original data output by the newly developed Super CCD VIII "HR" in RAW mode and make adjustments to the data images without any loss in quality to produce the photos you intend. (RAW processing is possible with the included software.)

30 frames/second, substantial video recording function.

The FinePix S100FS has a full-frame video recording function with audio at 30 frames per second which outputs a flowing movement. Manual zooming during recording is possible, and the AF and AE functions keep moving subjects in focus with optimal exposure.

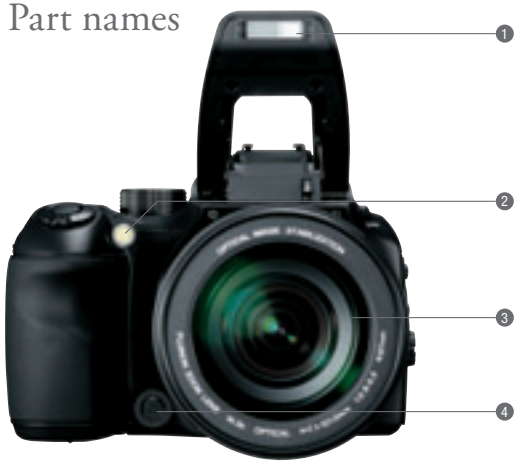
Face Detection system with enlarged detection area.

The FinePix S100FS incorporates a Face Detection system which automatically detects faces and sets optimal focusing and brightness for faces. The Face Detection area is significantly expanded for this system, which is effective for taking high-quality portraits.

Lens hood allows filter adjustment in position.

The FinePix S100FS lens hood is specially designed as an accessory for a digital camera for nature photography. There is a square window in the lower part of the lens hood to allow adjustments of lens filters such as polarizing filters, that vibrantly modify scenery photos, without removing the hood.

Part names



❶ Flash
❷ AF-assist illuminator / Self-timer lamp
❸ Lens
❹ Sync terminal
❺ Diopter adjustment control
❻ Viewfinder (EVF)
❼ Photometry selector dial
❽ Strap mount
❾ AE-L (AE-lock) button
❿ EVF / LCD (monitor selector) button
⓫ (Playback) button
⓬ Intelligent Face Detection / Red-eye removal button
⓭ Slot cover
⓮ MENU / OK button
⓯ ▲▼◀▶(4-direction) button
⓰ DISP (Display) / BACK button
⓱ LCD monitor
⓲ Zoom ring
⓳ Hot shoe
⓴ Focus ring
㉑ Shutter button
㉒ OFF / ON switch
㉓ ISO (ISO sensitivity) button
㉔ (Exposure compensation) button
㉕ Command dial
㉖ Mode dial
㉗ (Flash pop-up) button
㉘ (Continuous shooting) button
㉙ Dual IS button
㉚ Terminal cover
㉛ DC in 8V (power input) socket
㉜ A / V OUT (Audio / Visual output) socket
㉝ USB socket
㉞ (One-touch AF) button
㉟ Focus-mode selector switch
㊱ Speaker

FINEPIX S100FS

SPECIFICATIONS

DIGITAL CAMERA FinePix S100FS	
Number of effective pixels	Approx. 11.1 million pixels
CCD sensor	2/3-inch Super CCD HR
Storage media	Internal memory (approx. 25MB) / xD-Picture Card™ (16MB - 2GB)
	SD memory card / SDHC memory card
File format	Still image: JPEG (Exif Ver 2.2)
	Uncompressed CCD-RAW (RAF format, RAW conversion software included in CD-ROM)
	Movie: AVI (Motion JPEG) with sound
	Audio: WAVE format, Monaural sound
	(Design rule for Camera File system compliant / DPOF-compatible)
Number of recorded pixels	Still image: 3,840 x 2,880 / 4,032 x 2,688 (3:2 format) / 2,816 x 2,112 / 2,048 x 1,536 / 1,600 x 1,200 / 640 x 480 pixels
Lens	Fujinon 14.3 X Optical zoom lens, F2.8 (W) - F5.3 (T)
Lens focal length	f=7.1mm-101.5 mm, Equivalent to 28-400 mm on a 35mm camera
Aperture	F2.8-F11 (W) / F5.3-F11 (T), max. 13 steps in 1/3 EV increment
Digital zoom	Approx. 2.0 X
Focus distance	Normal: Wide angle: Approx. 50cm / 1.6 ft to infinity
	Telephoto: Approx. 2.5m / 8.2 ft to infinity
	Macro: Wide angle: Approx. 10cm / 0.3 ft to 3.0m / 9.8 ft
	Telephoto: Approx. 0.9m / 3.0 ft to 3.0m / 9.8 ft
	Super Macro: Approx. 1cm / 0.4 in to 1.0m / 3.3 ft
Sensitivity	Auto / Auto (1600) / Auto (800) / Auto (400) /
	Equivalent to 100 / 200 / 400 / 800/ 1600 / 3200 / 6400 /10000 (Standard Output Sensitivity)
	* ISO6400: 6M pixels or lower, ISO10000: 3M pixels or lower (Number of recorded pixels)
Exposure control	TTL 256 - zones metering
Exposure mode	Programmed AE, Aperture Priority AE, Shutter Priority AE, Manual
Shooting modes	Mode dial: Auto, FSB, SP1, SP2, C1, C2, P, A, S, M, Movie
	SP1: Nature, Nature-soft, Nature-vivid, Flower
	SP2: Portrait, Portrait - soft, Baby, Portrait Enhancer, Night, Sunset, Snow,
	Beach, Sport, Fireworks
	FSB: Film Simulation Bracketing
	C1/C2: Custom setting position
Image Stabilizer	Lens-shift type
Shutter speed	[AUTO mode] 1/4 sec. to 1/4000 sec.
	[All other mode] 30 sec. to 1/4000 sec. Bulb mode (up to 30 sec.)
Continuous shooting	Top-7 (max 3 frames/sec.), (CCD-RAW: Top-3)
	High speed Top-50, (max 7 frames/sec., 3M pixels)
	Last-7 (max 3 frames/sec.), (CCD-RAW: Last-3)
	Long-period (max.1.1 frames/sec.)

Bracketing mode	Film Simulation BKT (PROVIA, Velvia, SOFT)
	Dynamic Range BKT (DR100%, 200%, 400%)
	AE BKT (±1/3EV,±2/3EV,±1EV)
Focus	Auto focus (Area, Multi, Center) / Continuous AF /
	Manual focus (One-push AF mode included)
	AF assist illuminator available
White balance	Automatic scene recognition,
	Preset [Fine, Shade, Fluorescent light (Daylight), Fluorescent light (Warm White),
	Fluorescent light (Cool White) / Incandescent light], Custom
Self-timer	Approx. 10 sec. / 2 sec. delay
Flash	Auto flash, Effective range: [ISO AUTO (800)]
	Normal: Wide angle: approx. 0.6-7.2m / 2.6-23.6 ft
	Telephoto: approx. 2.5-3.8m / 8.2-12.5 ft
	Macro: Wide angle: approx. 0.3-0.8m / 1.0-2.6 ft
	Telephoto: approx. 0.9-1.3m / 3.0-4.3 ft
	Flash mode:
	Red-eye removal OFF: Auto, Forced Flash, Slow Synchro
	Red-eye removal ON: Red-eye Reduction Auto, Red-eye Reduction & Forced Flash
Electronic Viewfinder	0.2-inch, approx. 200,000 dots FLCD monitor
	(R/G/B colors are displayed in a single dot)
LCD monitor	2.5-inch, approx. 230,000 dots,
	Amorphous silicon TFT color LCD monitor (WV type), approx. 100% coverage
Movie recording	640 x 480 pixels, 30 frames/sec.
	320 x 240 pixels, 30 frames/sec.
	With monaural sound
Photography functions	Film Simulation Mode, Dynamic Range selection,
	Face Detection (with Red-eye removal), High speed shooting, Best Framing,
	Frame No. Memory, Histograms
Playback functions	Face Detection (with Red-eye removal),
	Multi-frame playback including Microthumbnail mode, Trimming, Image rotate,
	Slide show, Sorting by date, Histograms (Highlight warning), Voice Memo, Automatic
	Vertical-Horizontal detection, High speed playback
Video output	NTSC / PAL selectable
Digital input/output	USB 2.0 High-speed
Power supply	NP-140 Li-ion battery (included) / AC power adapter AC-84V (sold separately)
Dimensions	133.4 (W) × 93.6 (H) × 150.4 (D) mm / 5.3 (W) × 3.7 (H) × 5.9 (D) in
	(excluding accessories and attachments)
Weight	Approx. 918g / 32.4 oz. (excluding accessories, batteries and memory card)

Specifications are subject to change without notice.

• All sample photos are simulated image. ★Comparison by Fujifilm

Number of images / recording time

	Number of recorded pixels	Quality	xD-Picture Card 256MB	xD-Picture Card 512MB	xD-Picture Card 1GB	xD-Picture Card 2GB	SD memory card 512MB	SD memory card 1GB	SD memory card 2GB	SDHC memory card 4GB	SDHC memory card 8GB
Still image	——— *1	CCD-RAW	11	22	44	88	21	42	85	171	343
	3,840 x 2,880	JPEG FINE	46	93	187	376	90	181	364	729	1464
		JPEG NORMAL	93	186	373	743	180	362	720	1442	2895
	4,032 x 2,688 (3:2 format)	JPEG	94	189	380	761	183	368	737	1477	2964
	2,816 x 2,112	JPEG	171	343	687	1360	332	666	1319	2640	5298
	2,048 x 1,536	JPEG	313	626	1253	2460	606	1214	2384	4772	9577
	1,600 x 1,200	JPEG	389	779	1559	3046	754	1511	2952	5909	11858
	640 x 480	JPEG	1597	3194	6396	12794	3093	6196	12401	24819	49805
Movie	Movie recording time	VGA (30fps)	3.7min	7.4min	14.9min	29.9min	7.2min	14.5min	29.0min	58.1min *2	114.8min *2
		QVGA (30fps)	7.4min	14.7min	29.5min	59.1min	14.3min	28.6min	57.3min	114.8min *2	230.4min *2

*1 The number of recorded pixels is 5,440 × 4,080 when an image is displayed on your computer using the bundled software.
*2 A movie recording will stop automatically when the movie file size becomes approx. 2GB.

OPTIONAL ACCESSORIES

xD-Picture Card™
DPC-M512(512MB)
DPC-M1GB(1GB)
DPC-M2GB(2GB)

Rechargeable Battery
NP-140

PC Card Adapter
DPC-AD

Remote Release
RR-80

Compact Flash™ Card Adapter
DPC-CF

AC Power Adapter
AC-84V

Accessory available may vary by country.
Please check with your local Fujifilm representative to confirm product availability.

ACCESSORIES INCLUDED

- Rechargeable battery NP-140
- Battery charger BC-140
- Shoulder strap
- Lens cap
- Lens cap holder
- Lens hood
- USB cable
- A/V cable
- CD-ROM:FinePix Viewer (RAW file converter included)*
- Owner's manual

For Windows 98SE/Me/2000Pro/XP/Vista Mac OS X (10.3.9~10.4.10)

For more information, please visit our Website:
http://www.fujifilm.com/products/digital

FUJIFILM
FUJIFILM Corporation

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