🔍 FUJIFILM	
	fessional
	Imaging 🚽



NEW FinePix S3 Pro UVIR

Get ready to see things...
Differently

Infrared



Scientific and forensic digital photography has come of age with the introduction of the Fujifilm FinePix S3 Pro IR series of digital SLR cameras. Gone are the days of third party custom modifications that void warranties and leave you without support.

As infrared film becomes less common due to availability and costly complex chemical processing, the need for high resolution DSLR's that provide faster results in both infrared and ultra violet wavelengths has become critical. Fujifilm's new S3 Pro IR model now makes it possible to capture, analyze, transfer, and output images faster than film processing.

Digital IR and UV Applications include:

Forensic science, medical analysis of skin conditions, toxicology, vascular tracing, tattoo documentation, biological trace detection, evidence and counterfeit documenting, crime scene and forgery investigations, surveillance, gun shot residue, burned documentation recovery, bit mark analysis, and autopsies.

For the law enforcement community, special new light sources are often used to see in alternate spectrums during the evidence-gathering phase of an investigation. Therefore in-field, high-resolution documentation in the ultraviolet or infrared spectrums has become key to many aspects of a case. It's now important to photograph field evidence before it is removed and undergoes potential change from further analysis.

ALTERNATE LIGHT IMAGING





400nm with #15 yellow filter ³ I

IR with 900nm filter



Surveillance

FinePix S3 Pro UVIR

The Super CCD SRII's low band pass filter (ultra violet protection) has been removed along with the IR protection filter. This optimizes the wide dynamic of the Super CCD SRII to see in both visible, UV, and IR spectrums at once.



The application for the IRUV model is primarily scientific in nature. Due to sensitivity to such a wide range of wavelengths, manual focusing and exposure control are required. Capture of a desired wavelength is managed by direct lens filtration, tuned to the light source in use. Fujifilm's exclusive 30-second Super CCD live preview mode allows fast and easy pre-capture verification and direct manual focusing via the LCD before the

image is captured. Some SLR lenses are protected against UV and IR light penetration; therefore review all lens technical specifications.





Gun Shot Residue (standard) 8

IR

The S3 Pro IR's exclusive 30-second Super CCD live-preview mode allows fast and easy pre-capture verification and direct manual focusing via the LCD before the image is captured.

Fujifilms Exclusive Super CCD SRII



with 400% wide dynamic captures more range highlight and shadow detail with less noise. With an ultra-high resolution maximum image size of 12.1 million recording pixels, detail is astonishing.

Super CCD SR II

Live CCD Focusing

Live CCD post-capture preview and focus verification provide a live 30-second preview from the CCD to the LCD monitor. This feature is not found on standard DSLR's, and allows verification of focus even when the optical viewfinder



ISO

Up to 1600 ISO with very low noise even during long 30-second exposures.

Nikon compatibility:

- Supports Nikon F mount lenses For optimum performance, check lens UV and IR specifications
- Nikon Flash interfaces
- Nikon 10 pin port for tethered shutter release reduces camera shake during long exposures.

B&W Mode

HotMirror Daylight

In-camera B&W capture mode allows for proper conversion of files from the familiar reddish IR color image into B&W images with maximum preservation of all image data.

BLOOD PATTERN ANALYSIS





10 Pin

IR 87 BW

Advanced RAW file processing and secure tethered firewire high-speed remote shooting from your PC or MAC is possible using the optional Hyper Utility ver3.x.



IMAGING SAMPLES



Altered writing samples (standard)

Altered writing samples (IR)





Bitemark (UV)

Image recognition: 1,2 - ©2006 BioMed Studios 3, 12, 13 - ©2006 Gregory S. Golden, D.D.S. 4, 5, 6, 7, 8, 9, 10, 11 - ©2006 Brooks Photo Imaging

SPECIFICATIONS

DIGITAL CAMERA FinePix S3 PRO UVIR

Type of camera		Interch	angeabl	e-lens S	LR-typ	e digital	camera	l .			Viewfinder	To focus the camera use Live Preview LCD function if dark UV and IR				
Number of effectiv	e pixels*	12.34 r	nillion (S-pixel:	: 6.17mi	illion, R	-pixel: 6	5.17mill	ion) pix	els	-	lens filters are in place.				
CCD sensor	-	23.0×1	5.5mm	Super C	CD SR	П					-	Fixed-eyelevel pentaprism, built-in diopter adjustment $(-2.0^{-1} \text{ to } +1.0 \text{ m}^{-1})$				
		Numbe	r of total	pixels:	12.9millior	n (S-pixel:	6.45millio	on, R-pixel	: 6.45milli	on) pixels		Frame coverage: Approx.93% vertical, Aprox.95% horizontal				
Number of recorde	ed pixels	Still in	nage: 4,2	256×2,8	48 (12.1	million)/3,024>	<2,016/			Eye point	24 mm				
Storage media		2,304× Slot No	:1,536/1 p 1: xD-	,440×96 Picture	0 pixels Card™	3 (16MB	– 2GB)				Focusing screen	Clear Matte Screen II with focus brackets and On-demand Grid Lines able to display				
~~~~g		Slot No (Compat	o.2: CF/	Microdi isted on F	rive™ [™] ijifilm w	ebsite:http	p://home.t	fujifilm.co	om/produc	:ts/digital/	Viewfinder o information	Focus indications, Metering system, AE lock, Shutter speed, Aperture Exposure mode, Electronic analog exposure display/exposure				
File format		JPEG-l	DCF coi	mpatible	e (Exif V	Ver 2.21	** )				-	compensation display, Frame counter/exposure compensation value,				
		( Design	rule for C	amera Fil	e system o	compliant	/ DPOF-c	ompatible	;)	DPOF		Ready-light, Multiple exposure, Focus area, Flash exposure				
		CCD-F	RAW (1-	4bit)								Center-Weighted metering On-Demand Grid Lines able to display				
Number of imag	ges/reco	rding ti	ime								LCD nanel	Shutter speed/Exposure compensation value Aperture				
Number of recorded pixels		4256	× 2848		3024	× 2016	2304	2304 × 1536		× 960	(top panel) display	Exposure compensation, Flash exposure compensation, Auto exposure				
Quality	RAW-WIDE	RAW-STD	JPEG F	JPEG N	JPEG F	JPEG N	JPEG F	JPEG N	JPEG F	JPEG N		bracketing, Bracketing bar graphs, flexible program, Flash sync mode,				
Image Data Size	Approx. 25 MB	Approx. 13 MB	Approx. 4.7 MB	Approx. 2.4 MB	Approx. 3.0 MB	Approx. 1.5 MB	Approx. 1.7 MB	Approx. 880 KB	Approx. 1.0 MB	Approx. 520 KB	LCD monitor	AF area mode Focus area, Battery power 2.0-inch low temperature polysilicon TFT (approx. 235,000 pixels,				
DPC-128 (128MB)	5	9	26	53	42	84	72	144	122	241		wide-type LCD, approx. 100% frame coverage)				
DPC-256 (256MB)	10	19	53	107	85	169	146	290	245	484	Built-in flash	Guide No.12 (ISO 100, m), flash coverage: 20mm or longer lens				
DPC-512 (512MB)	20	39	107	214	170	339	292	580	491	967	Flash sync. mode	Front-curtain sync (normal sync), Red-eye reduction, Red-eye reduction with slow sync, Slow sync, Rear curtain sync				
340MB Microdrive	13	27	73	146	116	232	200	396	338	671	Ready light	Lights up when flash fully charged with built in flash Blinks for 3 sec. for full output warning				
IGB Microdrive	41	81	220	437	349	698	597	1173	995	1932	Accessory shoe	Standard ISO-type with hot-shoe contact (Safty lock provided)				
											Remote release	Electronic shutter release				
Lens mount		Nikon	F moun	t (with A	AF coup	ling, Al	⁷ contac	ts)			Self-timer	Electronically controlled: timer duration: 20sec./10sec./5sec./2sec.				
Usable lenses		D/G ty	pe AF	Nikkor	lenses:	All fun	ctions p	oossible	;		Video output	NTSC/PAL selectable				
		AF Nil	kkor otl	her than	ı D/G ty	/pe: All	functio	on exce	pt 3D M	latrix	Digital Interface	USB 2.0 (High-speed) for data storage. IEEE1394 for data storage & shooting				
		Meteri	ng poss	ible							Sync contact	X-contact only: flash synchronization up to 1/180 sec.				
	Non-C	PU: Us (ex	able in posure	meter v	vill not	be accu	ie irate w/	S3 Pro	IRUV)	Power source	4 AA type Ni-MH batteries (sharing power with camera body), AC Power Adapter AV-5VX (Optional)					
Lens servo		Single	Servo A	LF (S), C	Continue	ous Serv	o AF, N	lanual 1	ocus (M	1)	Dimensions	$147.8 (W) \times 135.3 (H) \times 78.5 (D) mm/5.8 (W) \times 5.3 (H) \times 3.1 (D) in$				
		in Sing	de Servo	$\Delta F(S)$	or Con	tinuous	Servo A	F(C)	uus		Weight	Approx 815g/28 7oz (excluding battery & lens)				
Picture angle	Approx	1.5× for	cal lengt	h in 35m	m forma	t equiva	lent			Shooting modes	Single frame shooting					
		TTL pl	hase det	ection ()	Auto AF r	nav not pe	erform we	all with S?	PRO IRI	IV)		<ul> <li>Continuous shooting</li> <li>D-range: STD mode: Max.2.5 frames/sec. RAW: Up to max. 7 frames, JPEG: Up to max. 12 frames</li> <li>D-range: WIDE mode: RAW, Max.1.4 frames/sec. Up to 3 frames JPEG, Max.1 frame/sec. Up to 6 frames</li> </ul>				
Frances		Detecti (ISO 1) under IR	ion rang 00 equiv	e: EV - valent at ons) (see	l to EV normal live previo	19 temper ew function	ature) (M	Manual fo	cus is reco	omended						
rocus areas		One or	Tive too	cus area	s can be	selected	1					Preview mode/Multiple exposure				
AF Area mode		Dynami	ic AF (D	r ynamic A	AF Mode	with Clo	osest Sul	oject Pric	ority is av	ailable)	Parameter setting	Color ———— HIGH/ STD/ ORG/ B&W Film simulation – FILM SIMULATION F1/ F2				
Focus lock		Focus i shutter	is locked release	l by pre button i	ssing Al in Single	E/AF Lo e Servo	ock butt AF	on or lig	ghtly pre	essing		Color space —— sRGB/ Adobe-RGB Contrast ——— HARD/ STD/ ORG Sharpness —— HARD/ STD/ ORG				
Shutter		Electro	nically	controll	ed verti	cal-trave	el focal-	plane sl	nutter							
Shutter speed		30 sec.	to 1/40	00 sec. 1	Bulb, X	-contact	, Max.1	/180 sec	<b>:</b> .			D-range ——— WIDE : AUTO / WIDE 1/ WIDE 2				
Sensitivity		Equiva	lent to I	SO 200	/400/80 ded)	0/1600 (	Although	ISO setti	ng below	200 is	Playback function	STD Single frame/ Thumbnails in 9 segments				
Fynosuro		TTI fo	ull opert		acura ma	atoring	vetem				- ·	Playback zoom/ Histogram indication/ Standard chart				
metering system	1	Three 1 • 3D-1 • Cent	metering 10 Matri er-Weig	g system ix Meter thted me	is select ring: EV etering:	able (lin 7 0–21 EV 0–2	nitation 1 • Spo	s with le t Meteri	ens used ng: EV	) 3–21	Accessories included	4 AA type Ni-MH batteries, Battery Charger for Ni-MH batteries, Shoulder Strap, Body cap, Eyepiece cap, LCD cover, Cable Holder, USB cable (with Filter), IEEE 1394 cable, Video cable CD-ROM: USB driver EinePixViewer ImageMixer VCD2 for EinePix				
Exposure compen	sation	±3 EV	range, i	n 1/2 ste	eps											
Exposure mode	s	P: Auto-Multi Program (Flexible program possible), S: Shutter-priority Auto, A: Aperture-priority Auto, M: Manual										RAW FILE CONVERTER LE				
White balance		Automatic (WB is not applicable under IR conditions) Manual: Fine, Shade, Fluorescent light (Daylight), Fluorescent light (Warm White), Fluorescent light (Cool White), Incandescent light, Custom1.Custom2									Disclaimer	S3 PRO UVIR's Auto Focusing and Auto Exposure may not function properly due to the wide range of lighting conditions between UV & I Manual Exposure Compensation and Focus is required.				

		Mode	Fc Fc	ocus moo		Exposure mode		Metering system		
L	ens/accessories			Manual with electronic rangefinder		Any mode other than M		Ma 3D 10- segment	trix 10- segment	Centre- Weighted, Spot ¹
	D-type AF Nikkor ³ , G-type AF Nikkor ³ , AF-S, AF-I Nikkor									
CPU Nikkor ²	PC Micro-Nikkor 85 mm f/2.8D ⁴		-	<b>√</b> 5	~	—	~	~	—	~
	AF-I/AF-S Telecon	verter ⁶	7	7						
	Non-D/G-type AF Nik (except AF Nikkor for		~	~	~	~	~	-	~	~
	AI-P Nikkor			8						
Non-CPU Nikkor ⁹	AI-S or AI type Nikko Series-E, AI-modified		-	✓*	~	—	<b>✓</b> ¹⁰	-	_	-
	Medical-Nikkor 120 mm f/4						11			
			_	-	~	—	✓ ¹⁰	-	—	-
	PC-Nikkor			5			10			
			-	✓7	~	-	✓ ¹⁰	-	-	-
	Bellows Focusing Attachment PB-6 ¹²			7			10			
			_	✓ ⁷	~	_	<b>√</b> ¹⁰	-	_	-

Lens Compatibility Chart (Types of CPU lenses and other usable lenses/accessories)

All trademarks are the property of their respective holders.

#### * Number of effective pixels: The number of pixels on the image sensor which receive input light through the optical lens, and which are effectively reflected

#### in the final output data of the still image. ** Exif 2.21 is a newly revised digital camera file format that contains a variety of shooting information for optimal printing. Exif Print

Specifications are subject to change without notice.

#### ✓ Compatible – Incompatible

- 1 Spot Metering area can be shifted with focus area selector with CPU Nikkor lens.
- 2 IX-Nikkor lenses cannot be attached.
- 3 This camera is compatible with the Vibration Reduction function of the VR Nikkor lens.
- The camera's exposure metering and flash control system do not work properly when shifting and/or tilting the lens, or when using an aperture other than the maximum aperture.
- 5 Without shifting and/or tilting the lens
- Compatible with AF-S and AF-I Nikkor except AF-S 17-35 mm f/2.8D IF-ED, AF-S 28-70 mm f/2.8D F-ED, AF-S 12-24mm f/4G, AF-S DX ED 17-55mm f/2.8G, AF-S DX ED 18-70mm f/3.5-4.5G, AF-S ED 24-85mm f/3.5-4.5G and AF-S VR ED 24-120mm f/3.5-5.6G.
- 7 With maximum effective aperture of f/5.6 or faster
- 8 With maximum aperture of f/5.6 or faster.
- 9 Some lenses/accessories cannot be attached.
- 10 With exposure mode set to Manual. The exposure meter cannot be used.
- 11 With exposure mode set to Manual and shutter speed set to 1/60 sec. or slower but the exposure meter cannot be used.
- 12 Can be mounted when used with the Nikon Auto extension ring.

  Reprocopy Outfit PF-4 can be attached in combination with Nikon Camera Holder PA-4.
  Note: Please refer to the web site (http://home.fujifilm.com) for more details of "Lens Compatibility"

