

## EX-F1 Specifications

		EXILIM Pro		
		EX-F1		
Number of Effective Pixels		6.00 million		
Image Sensor		1/1.8-inch high-speed CMOS		
	Total Pixels	6.6 million		
File Format	Still Images	RAW (DNG <sup>1</sup> ), JPEG (Exif Version 2.2, DCF 1.0 standard, DPOF compliant)		
	Movies	MOV format, H.264/AVC, IMA-ADPCM (stereo)		
Built-in Flash Memory (Image area)		31.9MB		
Recording Media		SDHC Memory Card, SD Memory Card, MultiMediaCard, MultiMediaCardplus compatible		
Number of Recorded Pixels	Still Images	RAW, 2816 x 2112, 2816 x 1872 (3:2), 2816 x 1584 (16:9), 2304 x 1728, 2048 x 1536, 1600 x 1200, 640 x 480		
	STD Movies	640 x 480 (30 fps)		
	HD Movies	1920 x 1080 (FHD, 60 fields per second), 1280 x 720 (HD, 30 fps)		
	Hi-Speed Movies (HS)	512 x 384 (300 fps, 30-300 fps), 432 x 192 (600 fps), 336 x 96 (1200 fps)		
Recording Capacity (still image is at maximum image size setting)	Still Images (JPEG)	Built-in Flash Memory	Approx. 9 shots (Fine) / 17 shots (Normal) / 25 shots (Economy)	
		SD Memory Card 1GB <sup>2</sup>	Approx. 277 shots (Fine) / 511 shots (Normal) / 743 shots (Economy)	
	Movies (FHD/HS 1200 fps)	Recording Time	Maximum Recording Capacity per File: 4GB <sup>3</sup>	
		Built-in Flash Memory	Approx. 18 seconds / Approx. 14 seconds	
		SD Memory Card 1GB <sup>2</sup>	Approx. 9 minutes 11 seconds / Approx. 7 minutes 18 seconds	
Operating Speed	Shutter Release Time Lag <sup>4,5</sup>		Approx. 0.01 second	
	Shot to Shot Time <sup>5,6</sup>		Approx. 0.8 second	
	Normal Speed Continuous Shutter <sup>6</sup>		Maximum is 3 frames per second	
	High-speed Continuous Shutter		Maximum is 60 frames per second	
	Flash Continuous Shutter		Maximum is 7 frames per second (Up to 20 images)	
Lens	Construction		12 lenses in 9 groups, including aspherical lens	
	F-number		F2.7 (W) to 4.6 (T)	
	Focal Length		f=7.3 to 87.6mm	
		35mm film equivalent	Approx. 36 to 432mm	
Zoom	Optical Zoom		12X	
	Digital Zoom		4X (48X in combination with optical zoom)	
Focusing	Focus Type		Contrast Detection Auto Focus	
	Focus Modes		Auto Focus, Macro Mode, Infinity Mode, Manual Focus	
	AF Area		Spot, Free or Tracking	
	AF Assist Lamp		Included	
Focus Range <sup>7</sup> (from lens surface)	Auto Focus		Approx. 40cm to ∞ (W)	
	Macro		Approx. 5cm to 50cm (W)	
	Infinity Mode		∞ (W)	
	Manual Focus		Approx. 5cm to ∞ (W)	
Exposure	Exposure Metering		Multi-pattern, center weighted, spot by imaging element	
	Exposure Control		Program AE, Aperture Priority AE, Shutter Speed Priority AE, Manual Exposure	
	Exposure Compensation		-2EV to +2EV (in 1/3EV steps)	
Shutter Type			CMOS electronic shutter, mechanical shutter	
	Shutter Speed <sup>8</sup>	Auto	1 to 1/2000 second	
		Aperture Priority AE	1 to 1/2000 second	
		Shutter Speed Priority AE	60 to 1/40000 second	
		Manual Exposure	60 to 1/40000 second	
Aperture <sup>9</sup>			F2.7 (W) to F15 (W), ND filter, auto switching	
	Aperture Priority AE/ Manual Exposure		F2.7 (W) to F7.5 (W)	
White Balance		Auto WB, Daylight, Overcast, Shade, Day white FL, Daylight FL, Tungsten, manual WB		
Sensitivity (SOS) <sup>10</sup>	Still Images		Auto, ISO100, ISO200, ISO400, ISO800, ISO1600	
	Movies		Auto (Hi-Speed Movie when Manual Exposure mode: ISO100,ISO200,ISO400,ISO800,ISO1600)	

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Other Recording Functions	Prerecord still images	Maximum speed: 60 fps, Maximum recording capacity: 60 images
	Slow Motion View	2 seconds by 30fps
	Auto Bracketing	AE, WB, Focus
	BEST SHOT	Included
	YouTube™ Capture Mode	Included
	Face Recognition	Included
Self-timer		10 seconds, 2 seconds, Triple Self-timer
Built-in Flash	Flash Modes	Auto, Flash Off, Flash On, Red Eye Reduction, External Flash
	Flash Range <sup>*7</sup>	Approx. 0.5 to 6.7m (W), approx. 1.1 to 3.9m (T)
Finder	Monitor Screen	2.8-inch wide TFT color LCD (Super Clear LCD), 230,160 dots (959 × 240)
	Electronic View Finder	0.2-inch, Equal to 201,600 dots
Timekeeping Functions	Date and Time	Recorded with image data
	On-image Time Stamp Function	Included
	Auto Calendar	To 2049
	World Time	162 cities in 32 time zones, city name, date, time, summer time
Input/Output Terminals		USB/AV port, HDMI™ output (Mini) <sup>*11</sup> , hot shoe, external microphone jack, AC adaptor connection (DC-IN)
	USB	Hi-Speed USB
Microphone		stereo
Speaker		Monaural
Power Requirements		Rechargeable lithium ion battery (NP-100) x 1, AC adaptor
Battery Life	Number of Shots <sup>*12</sup>	Approx. 520 still images (CIPA Standards)
	Continuous Playback	Approx 8 hr. (still images)
Dimensions (excluding projections)		127.7 (W) x 79.6 (H) x 130.1 (D)mm
Weight (excluding battery and accessories)		Approx. 671g
Bundled Accessories		Rechargeable lithium ion battery, lithium ion battery charger, AC power cord, USB cable, AV cable, strap, lens cap, lens hood, remote shutter release, CD-ROM

\*1. DNG file format is one type of RAW image file, and it is recommended by Adobe Systems for use as a standard image file format. \*2. When using Panasonic (Matsushita) Pro High Speed 1GB SD Memory Card. \*3. Within limits of memory and battery life. \*4. When using built-in memory. \*5. With built-in flash off. \*6. When set at maximum image size and normal image quality. \*7. Range is affected by optical zoom. \*8. May differ according to camera setting. \*9. Aperture changed by optical zoom or recording mode. \*10. SOS: Standard Output Sensitivity. \*11. 1080/50i output is not supported for PAL output using HDMI™. \*12. Auto Mode, standard brightness monitor setting.