



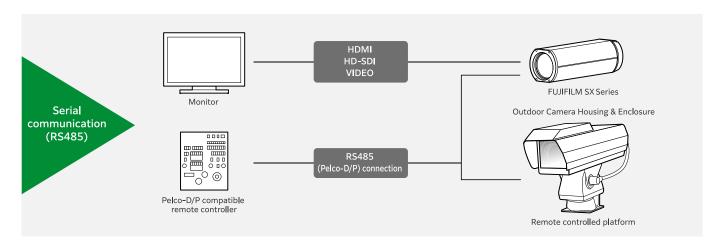
LONG RANGE MULTI-PURPOSE CAMERA
FUJIFILM SX SERIES

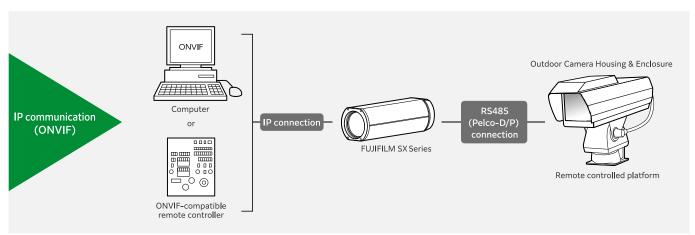
FUJINON

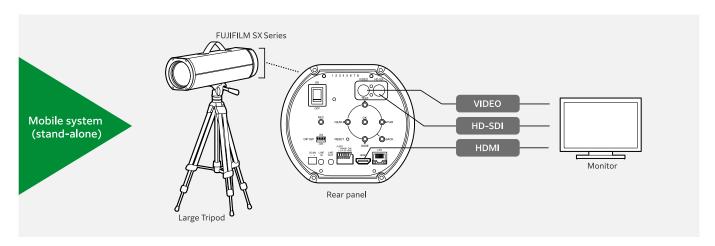


Supporting various interfaces to enable diverse system administration

The models of the SX Series support serial communication [RS485] and IP communication [ONVIF] so that they can be incorporated into customers' existing systems in place. The RS485 protocol supports Pelco-D / Pelco-P* and can be downloaded from the FUJIFILM website.





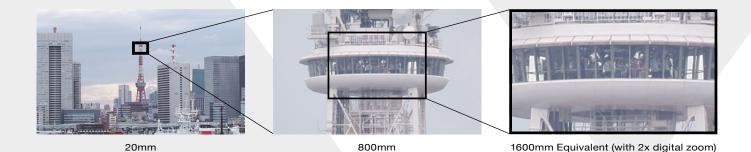


Note: This product is NOT waterproof. For outdoor use, please install in an outdoor housing.

Long-range surveillance

Optical telephoto range 800mm (with digital zoom up to 1600mm, 80x zoom)

The SX800/801 is equipped with a 40x optical zoom lens that covers a broad range of focal lengths from 20mm on the wide angle end to 800mm on the telephoto end. It is complemented by up to 2x digital zoom to achieve long-range surveillance equivalent to 1600mm in focal length.



High-performance image stabilization

New image stabilization system

The SX800/801 combines optical image stabilization (OIS) and electronic image stabilization (EIS) to accurately compensate for camera shake, typically caused by gusts and footing vibrations at the site of camera installation. The system is particularly effective when shooting in the ultra-telephoto range, which is susceptible to even the slightest of shakes.

Use of new devices

The SX800/801 sports high-precision gyro sensors to accurately detect minute vibrations that could not be detected previously. The use of newly-developed highthrust linear motor delivers an advanced level of accuracy and tracking performance.



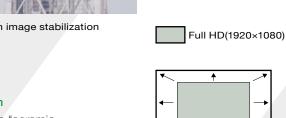
Without image stabilization



With image stabilization

High-performance EIS

In the EIS mode, the SX800/801 uses a sensor large enough for its lens's effective diameter to secure full HD resolution (1920 x 1080), thereby delivering footage of premium quality. The combined use with OIS also improves the durability of the image stabilization system substantially.



General sensor



Recording area

SX800 / SX801 sensor

New ceramic bead roller system

The SX800/801's OIS uses a unique "ceramic bead roller" system. Ceramic beads, processed in ultimate precision, minimizes friction and resistance to achieve advanced responsiveness and excellent durability in image stabilization.

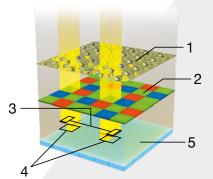




High-speed AF system

On-sensor phase detection AF

The on-sensor phase detection AF uses phase detection pixels across the sensor to instantaneously measure distance according to the displacement of incident lights. The SX800/801 also offers "contrast AF," which detects areas of high contrast in images at high accuracy, and automatically switches to the optimum AF setting.



- 1. Micro lens
- 2. Color filter
- 3. Phase detection filter
- 4. Phase detection pixels
- 5. Photo diode

Rear focus mechanism

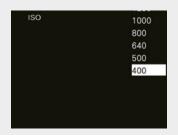
The use of the Rear Focus mechanism has significantly reduced the weight of the focusing lens group. This has also dramatically increased the focus drive speed to enable "continuous AF." Users can choose between "Continuous AF," "Quick AF" and "Manual Focus" according to the conditions where the camera is used.

Continuous AF: Auto focus continues to operate and keeps adjusting the focus. Quick AF: Automatically focuses on a subject once after zoom operation. MF: Manually focus on the subject.

Image processing technology

Low light conditions

The use of the highly sensitive sensor and the effect of advanced noise reduction mean the SX800/801 can shoot clear footage with minimal noise even in low light conditions.





ISO 400

ISO 204800

Fog reduction

The SX800/801 uses a unique imaging technology to bring vivid clarity to hazy images caused by light diffusion with airborne mist droplets and dust.





Fog reduction OFF

Fog reduction ON

Heat haze reduction

The SX800/801 uses a unique image processing technology to reduce the shimmering effect of heat haze, caused by large difference in atmospheric temperatures, to make the entire images easier to see.

Simplified setup

Camera with built-in lens

Conventional surveillance systems require the adjustment of optical axis and flange focal length when mounting a lens on a camera. The SX800/801 Series, which carries a built-in

lens, is shipped with such settings optimally adjusted to bring out maximum performance. The design also eliminates the need for complicated wiring, thereby significantly reducing man-hours at the time of installation.



Robustness

New design with advanced rigidity and portability

The SX800/801's aluminum extrusion body is highly rigid and exceptionally robust. A carrying handle* may be attached to the body, using screw holes at the top, for transporting convenience.

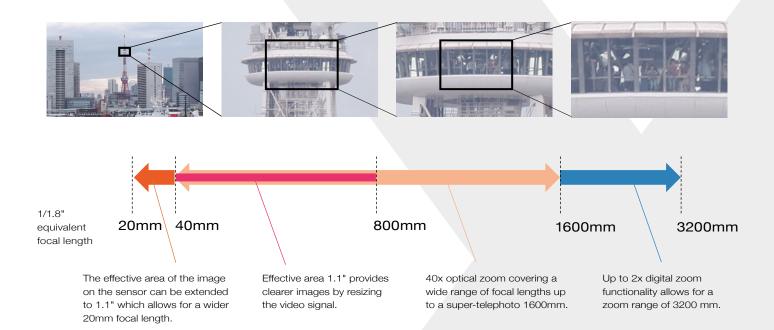


Super long-range surveillance

Optical telephoto range 1600mm (with digital zoom up to 3200mm, 160x zoom)

The SX1600 is equipped with a 40x optical zoom lens that covers a broad range of focal lengths from 40mm on the wide angle end to 1600mm on the super-telephoto end. The effective area of the image on the sensor can be extended to 1.1" and widened to 20mm, a focal length similar to that of the SX800. Combined with a digital zoom of up to 2x, this enables a zoom range from a wide angle of 20mm to a telephoto of 3200mm equivalent* (160x zoom). When the effective area is extended, higher resolution images over Full HD (1920x1080) can be resized and processed to provide higher quality, clearer images.

* 1/1.8" equivalent focal length



Optical & Electronic capable image stabilization system

Stabilization correction angle 1.5x greater than SX800

The SX1600 offers a new developed image stabilization system with independent control of the optical stabilization (OIS) and electronic stabilization (EIS). The angle at which stabilization can be performed is increased by 1.5x which enables the stabilizer to compensate for greater vibration.

High-speed and high-precision AF

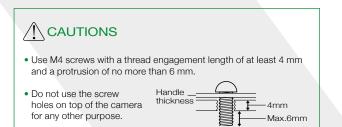
Minimum 0.1 second high-speed and high-precision AF

The SX1600 combines on-sensor phase detection AF, which instantly measures distance using phase detection pixels across on-sensor, and contrast AF, which detects areas of high contrast in images at high accuracy, to achieve an AF time with a minimum of 0.1 second. The AF area for focusing can now be set more precisely, from 9 to 45 segments. It can be freely customised to suit the size and position of the objects.



EXTERIOR VIEW

SX800/SX801 410 SX800 SX801 SX1600 160 449.6 Center of gravity



Screw hole specifications The specifications for the screw holes on the top and base of the camera are as follows:

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	Тор	Base
Туре	M4	1/4", UNC 20 thread
Quantity	2	15
Depth	Pass through (threaded depth 4mm)	10mm
Tightening torque	80-100 N•cm	240-300 N•cm

Model	Fujifilm SX800 / SX801	Fujifilm SX1600	
Optical zoom	40x		
Digital zoom	1.25x, 1.5	1.25x, 1.5x, 1.75x, 2x	
Focal length	20mm – 800mm	40mm – 1600mm	
Maximum aperture ratio	1:4 (20mm), 1:7.4 (800mm)	1:8 (40mm), 1:14.8 (1600mm)	
Iris range	F4 – F16		
Minimum object distance	10m (20 – 400mm in focal length)	10m (40 – 800mm in 1/1.8" equivalent focal length)	
(M.O.D.)	20m (401 – 800mm in focal length)	20m (801 – 1600mm in 1/1.8" equivalent focal length)	
Angle of view	20mm 21.0° x 11.8° 800mm 0.55° x 0.31°	20mm 21.0° x 11.9° [at 1.1" (ф17.26mm) capture] 1600mm 0.27° x 0.15° [at 1/1.8" (ф8.63mm) capture]	
[16:9 (H x V)] Effective sensor size	1/1.8"	1/1.8" - 1.1"	
Minimum illumination	Color 0.00015 lux (at F1.2) / 0.0017 lux (at F4.0)	Color 0.00014 lux (at F1.2) / 0.0064 lux (at F8.0)	
	B/W 0.0001 lux (at F1.2) / 0.0011 lux (at F4.0)	B/W 0.0001 lux (at F1.2) / 0.0042 lux (at F8.0)	
Focus settings	Continuous AF,	Quick AF, Manual	
ris	Auto, Manual (Aperture range: F4 – F16)	Auto, Manual (Aperture range: F8 – F32)	
Shutter speed	Auto (with minimum speed selection of 1/8 – 1/125s), Manual (1 – 1/32000s)		
Gain	AGC, HYPER-AGC, Manual (Setting range: ISO400 – 819200)		
Optical filter	Visible Light Cut filter (ON / OFF)		
Day / Night selection	Auto, Scheduled, Manual		
Wavelengths selection	950nm, 940nm, 850nm, 808nm, Visible light		
Image stabilization	Auto, OIS, EIS, OFF	Auto (OIS+EIS), OIS, EIS, OFF	
Wide dynamic range	Selectable (2 levels)		
Back light correction	Selectable (2 levels)		
Heat haze reduction	Selectable (3 levels)		
Fog reduction	Selectable (3 levels)		
Noise reduction	Selectable (3 levels)		
Brightness / Contrast /	Selectable (100 levels)		
Saturation / Sharpness			
White balance	AWB, AWB-W, Custom 1 – 2, Fine, Shade, Color Temperature (3000K, 5000K, 9000K)		
Video format	NTSC: 1080p, 720p, 480p / PAL: 1080p, 720p, 576p		
Video output systems	HDMI, HD-SDI, Composite(BNC)		
Audio input / output	Input impedance: $40k\Omega$ / Output impedance: 200Ω		
External interface	Ethernet (10Base -T, 100Base-TX, RJ45 connector), RS-485 (Half duplex), External trigger (Day / Night)	Ethernet (10Base -T, 100Base-TX, RJ45 connector), RS-485 (Half duplex, Full duplex), External trigger (Day / Night)	
RS-485 compatible protocol	Pelco-D / Pelco-P (including extended commands)		
Power source	DC 12V		
Power consumption	SX800: 9.5W / SX801: 15W	15W	
Supported SD card (SDHC / SDXC)	UHS-1-compatible 8GB+,	SD Speed Class 10 or above	
File recording format	MOV (Video encoding: H.264 compliant, Motion JPEG)		
Network protocols	ICMP, ARP, TCP / IP, UDP / IP, HTTP, RTSP, RTP, DHCP, DNS, RTP/RTCP, SNTP		
Supported OS	Windows 10		
Supported browser	Google Chrome 71+ (Only SX800)	Google Chrome 99+ / Windows Edge 99+	
ONVIF support	Yes (Profile S)		
Number of videos delivered	SX800: 1 / SX801: 3 1		
Size (H x W x L)	139mm x 156mm x 410mm	139mm x 156mm x 450mm	
Weight	6.4kg	7.4kg	
Filter thread size	M112 x 1mm	9	
Operating environment		nidity: 10% – 80% (no condensation)	
	Temperature: -10°C - +50°C / Humidity: 10% - 80% (no condensation) 45 degrees upward - 45 degrees downward		



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