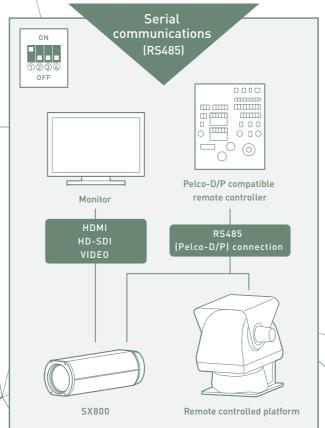
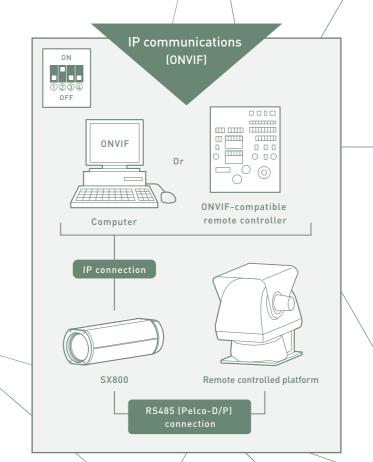


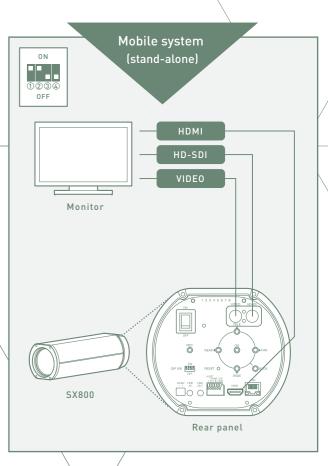


Supporting various interfaces to enable diverse system administration

The SX800 supports both serial communications [RS485] and IP communications [ONVIF] so that it 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.







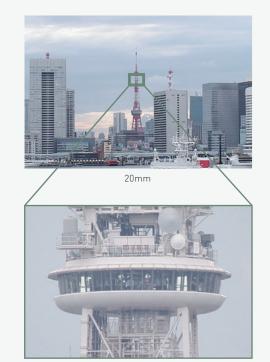




Long-range surveillance

40x optical zoom

The SX800 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 with 1.25x digital zoom to achieve long-range surveillance equivalent to 1000m in focal length.



800mm

02 High-performance image stabilization

New image stabilization system

The SX800 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.



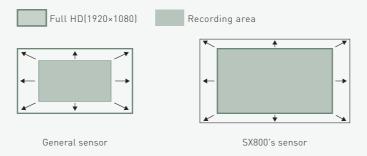
Without image stabilization With image stabilization

Use of new devices

High-performance EIS

achieve advanced responsiveness and excellent durability in image stabilization.

In the EIS mode, the SX800 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.



New ceramic bead roller system The SX800 sports high-precision gyro sensors to accurately detect minute

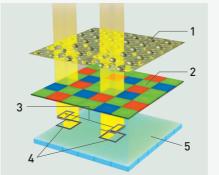
vibrations that could not be detected previously. The use of newly-developed The SX800's OIS uses a unique "ceramic high-thrust linear motor delivers an advanced level of accuracy and tracking bead roller" system. Ceramic beads, processed in ultimate precision, minimizes friction and resistance to



03 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 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.

04 Image processing technology

Low light conditions

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



Fog reduction

The SX800 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 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.

Link to the product introduction video.

05 Simplified setup

Cameras 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, 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.



06 Robustness

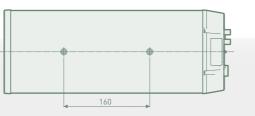
New design with advanced rigidity and portability

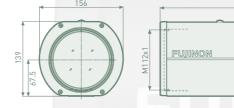
The SX800's aluminum extrusion body is highly rigid and exceptionally robust. A carrying handle* may be attached to the body, using screw holes at the top, for transporting convenience.



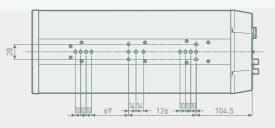
^{*} FUJIFILM does not offer a carrying handle.

Exterior view











•Use M4 screws with a thread engagement length of at least 4 mm and a protrusion of no more than 6 mm.

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

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

Technical information can be downloaded from the website. https://optics.fujifilm.com/security/en/support/

Main specifications of the long-range surveillance camera, SX800

Lens				
Model name	SX800	Minimum object distance (M.O.D) from the front lens	10m (20 – 400mm in focal length) 20m (401 – 800mm in focal length)	
Optical zoom	40x			
Digital zoom	1.25x	Angle of view	W: 21.0° x 11.8° T: 0.55° x 0.31°	
Focal length	20mm – 800mm	[16:9 (H x V)]		
Maximum aperture ratio	1:4 (W), 1:7.4 (T)			

	Network
Network protocols	ICMP, ARP, TCP / IP, UDP / IP, HTTP, RTSP, RTP, DHCP, DNS
Supported OS	Windows 7/10
Supported browser	Chrome71+, IE11
ONVIF support	Yes (Profile S)
Maximum number of connections	13 (simultaneously connected users)

	Came
Effective sensor size	1/1.8"
Minimum illumination	Color 0.00015lux (at F1.2) / 0.0017lux (at F4.0) B/W 0.0001ux (at F1.2) / 0.0011lux (at F4.0)
Focus settings	Continuous AF, Quick AF, Manual
Iris	Auto, Manual (Aperture range : F4 – F16)
Shutter speed	Auto (with minimum speed selection of 1/8 – 1/125s), Manual (1 – 1/20,000s)
Gain	Manual, AGC, HYPER-AGC (Setting range: ISO400 – 819200)
Optical filter	Visible Light Cut filter (ON / OFF)
Day / Night selection	Auto, Manual
Wavelengths selection	950nm, 940nm, 850nm, 808nm, Visible light
Image stabilization	Auto, 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	Selectable (21 levels)
Contrast	Selectable (5 levels)

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Saturation	Selectable (5 levels)
Sharpness	Selectable (5 levels)
White balance	Auto, Custom 1 – 2, Fine, Shade, Color Temperature (3000K, 5000K, 9000K)
Video output systems	NTSC, PAL
Video format	NTSC: 1080p, 720p, 480p / PAL: 1080p, 720p, 576p
Video output systems	HDMI, HD-SDI, Composite(BNC)
Audio input / output	Input impedance: 40kΩ Output impedance: 200Ω
External interfaces	Ethernet(10Base -T, 100Base-TX, RJ45 connector), RS-485, External trigger (Day / Night)
Recording format	File recording format : MOV Compression format : H.264 compliant Audio recording format : Linear PCM stereo [48kHz sampling]
RS-485 compatible protocol	Pelco-D / Pelco-P (including extended commands)
Power source	DC12V
Power consumption	9.5W
Supported SD card (SDHC/SDXC)	UHS-1-compatible 8GB+ SD Speed Class 10 or above

Miscellaneous			
Size (H x W x L)	139mm x 156mm x 410mm		
Weight	6.4kg		
Filter thread size	M112 x 1mm		
Operating environment	Temperature : -10°C - +50°C Humidity: 10% – 80% (no condensation)		
Tilt limit	45 degrees upward – 45 degrees downward		