

# HIGH-END CAMERA TOP PERFORMANCE LENS



THE NEW FUJINON SX800. THE BEST OF BOTH.

**FUJINON** 



## ADVANCED SAFETY

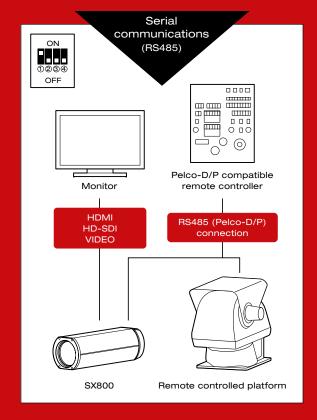


## SECURITY AND QUALITY

FUJIFILM has brought together its optical technology, developed over many years, and unique image processing technology to offer a new solution in long-range surveillance systems.

## Supporting various interfaces to enable diverse system administration

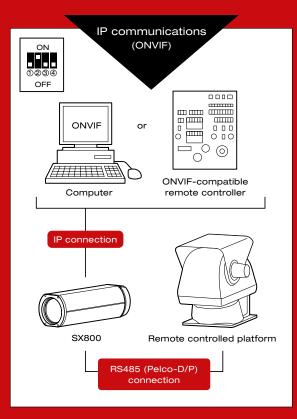
The SX800 supports both serial communications [RS485] and IP communications [ONVIF] so that it can be incorporated into customers' existing systems in place. The RS485 protocol supports Pelco-D / Pelco-P\* and can be downloaded from the FUJIFILM website.

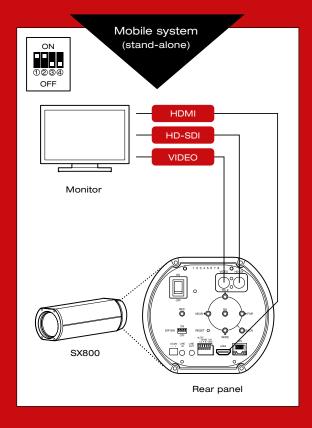




 \*Technical information can be downloaded from the website. https://optics.fujifilm.com/security/en/support/







## 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 1000mm in focal length.

## 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.



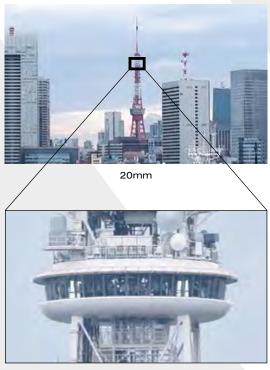
Without image stabilization



With image stabilization

#### Use of new devices

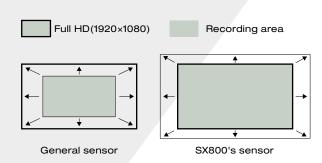
The SX800 sports high-precision gyro sensors to accurately detect minute vibrations that could not be detected previously. The use of newly-developed high-thrust linear motor delivers an advanced level of accuracy and tracking performance.



800mm

#### High-performance EIS

In the EIS mode, the SX800 uses a sensor large enough for its lens's effective diameter to secure full HD resolution (1920  $\times$  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

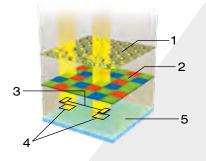
The SX800's OIS uses a unique "ceramic bead roller" system. Ceramic beads, processed in ultimate precision, minimize friction and resistance to achieve advanced responsiveness and excellent durability in image stabilization.



## 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 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.

## 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.



ISO 400



ISO 204800

#### Dehazing

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



Dehazing OFF



Dehazing ON

#### Heat haze removal

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.



## 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, 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.



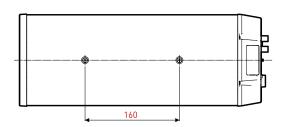
## Robustness

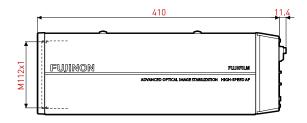
#### New design with advanced rigidity and portability

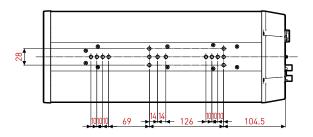
The SX800's aluminum extrusion body is highly rigid and exceptionally robust. A carrying handle may be attached to the body, using screw holes at the top, for transporting convenience.



### **EXTERIOR VIEW**

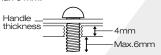


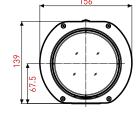




## **CAUTIONS**

- Use M4 screws with a thread engagement length of at least 4 mm and a protrusion of no more than 6 mm.
- Do not use the screw holes on top of the camera for any other purpose.







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

	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

#### Camera

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) 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: IS0400 – 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 (3 levels)           Heat haze reduction         Selectable (3 levels)           Fog reduction         Selectable (3 levels)           Brightness         Selectable (3 levels)           Brightness         Selectable (5 levels)           Saturation         Selectable (5 levels)           Saturation         Selectable (5 levels)           Sharpness         Selectable (5 levels)           White balance         Auto, Custom 1–2, Fine, Shade, Color Temperature (3000K, 5000K, 9000K)           Video for	Effective sensor size	1/1.8"	
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 (0N / 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 (5 levels)           Contrast         Selectable (5 levels)           Saturation         Selectable (5 levels)           Saturation         Selectable (5 levels)           White balance         Auto, Custom 1–2, Fine, Shade, Color Temperature (3000K, 5000K, 9000K)           Video output systems         NTSC, PAL           Video output systems         HDMI, HD-SDI, Composite(BNC)           Audio input / output		Color 0.00015lux (at F1.2) / 0.0017lux (at F4.0)	
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: IS0400 – 819200)         Optical filter       Visible Light Cut filter (0N / 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)         Brightness       Selectable (3 levels)         Brightness       Selectable (3 levels)         Saturation       Selectable (5 levels)         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 output systems       MDI, HD-SDI, Composite (BNC)         Audio input / output       Imput impedance: 40kΩ         Output impedance: 200Ω       Coutput impedance: 200Ω         External interf	Focus cottings		
Auto (with minimum speed selection of 1/8 – 1/125s), Manual (1 – 1/20,000s)			
1/8 - 1/125s), Manual (1 - 1/20,000s)   Gain			
ISO400 - 819200)   Optical filter	Shutter speed	1/8 – 1/125s), Manual (1 – 1/20,000s)	
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Wavelengths selection       950nm, 940nm, 850nm, 808nm, Visible light         Image stabilization       Auto, OIS, EIS, OFF         Wide dynamic range       Selectable (2 levels)         Back light correction       Selectable (3 levels)         Heat haze reduction       Selectable (3 levels)         Fog reduction       Selectable (3 levels)         Noise reduction       Selectable (21 levels)         Brightness       Selectable (5 levels)         Contrast       Selectable (5 levels)         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, 576p         Video output systems       HDMI, HD-SDI, Composite(BNC)         Audio input / output       Input impedance: 40kS         Output impedance: 200Ω       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	Optical filter	Visible Light Cut filter (ON / OFF)	
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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 Pelco-D / Pelco-P (including extended commands)  Power source DC12V  Power consumption 9.5W  Supported SD card UHS-1-compatible 8GB+			
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     UHS-1-compatible 8GB+	Video format		
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     UHS-1-compatible 8GB+	Video output systems	HDMI, HD-SDI, Composite(BNC)	
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RS-485 compatible Pelco-D / Pelco-P (including extended commands)  Power source DC12V  Power consumption 9.5W  Supported SD card UHS-1-compatible 8GB+		·	
protocol (including extended commands)  Power source DC12V  Power consumption 9.5W  Supported SD card UHS-1-compatible 8GB+		(48kHz sampling)	
Power source DC12V  Power consumption 9.5W  Supported SD card UHS-1-compatible 8GB+	·		
Power consumption 9.5W Supported SD card UHS-1-compatible 8GB+			
Supported SD card UHS-1-compatible 8GB+			
· ·	<u>'</u>		
		UHS-1-compatible 8GB+	

#### Lens

Model name	SX800
Optical zoom	40x
Digital zoom	1.25x
Focal length	20mm – 800mm
Maximum aperture ratio	1:4 (W), 1:7.4 (T)
Angle of view	W : 21.0° x 11.8°
[16:9 (H x V)]	T: 0.55° x 0.31°

#### Network

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

#### 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

The product's design, specifications and exterior appearance are subject to change without notice.





## **FUJIFILM Optical Devices Europe GmbH**

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