

IP / Professional IP cameras

SF-IPB035WH-2YSOLAR-4G

Standalone Professional 4G Camera

WDR PRO Series

The PRO range incorporates high-resolution sensors with optimised tuning that offer good night-time performance using an IR Matrix LED illumination system and 3DNR noise reduction. It offers a wide dynamic range (WDR) of 120dB for the best image quality in scenes with high light contrast or backlighting. Efficient H.265+ encoding, which saves 80% in storage and bandwidth over H.264 codec. Power over the POE network cable greatly simplifies installation.

- 1080p Resolution
- 4G Communication
- 1/2.8" High Performance CMOS Sensor
- 2.8 mm Fixed Lens | WDR | Smart IR LED Up to 30m
- Autonomous power with solar panel and battery
- IP67 Weatherproof



Technical Specification

Image Sensor	1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.004 Lux @ (F1.4, AGC ON) B/W: 0.002 Lux @ (F1.4, AGC ON), 0 Lux with IR on
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Day & Night	IR cut filter
Lens Type	Fixed Focus Lens
Lens Type & FOV	2.8 mm @1.4: Horizontal FOV: 107°, vertical FOV: 57°, diagonal FOV: 128°
Lens Mount	M12
DORI	D 44 m / O 17.5 m / R 9 m / I 4.5 m
IR Range	Up to 30m
Wavelength	850nm
Smart Supplement Light	Yes
Max. Resolution	1920 × 1080
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480) 60Hz: 30fps (704 × 480, 640 × 480)
Third Stream	50Hz: 1fps (1280 × 720, 640 × 480) 60Hz: 1fps (1280 × 720, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main Stream supports
H.265+	Main Stream supports
Bit Rate Control	CBR/VBR
Stream Type	Main stream/Sub-stream/third stream
Scalable Video Coding (SVC)	H.265 and H.264 support
Region of Interest (ROI)	4 fixed regions for each stream
Simultaneous Live View	Up to 6 channels

API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, Ehome
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, TLS 1.2
Network Storage	microSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Safire memory card, memory card encryption and health detection are supported.
Client	Safire Control Center, Safire Connect, Safire Central
Web Browser	Plug-in required live view: IE8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+
4G Frequency	LTE-TDD: Band38/40/41 LTE-FDD: Band1/3/5/7/8/20/28 WCDMA: Band1/5/8 GSM: Band3/5/8
4G Standard	LTE-TDD/LTE-FDD/WCDMA/GSM
Smart IR	The IR LEDs on camera should support Smart IR function to automatically adjust power to avoid image overexposure.
Day/Night Switch	Day, Night, Auto, Schedule
Target Cropping	Yes
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Image Enhancement	BLC, HLC, 3D DNR, Defog
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
SNR	≥52dB
Privacy Mask	4 regions of privacy mask
RS-485	1 RS-485(half duplex)
On-board Storage	Built-in micro SD slot, up to 256GB
Hardware Reset	Yes
Communication Interface	RJ45 10M/100M self-adaptive Ethernet port
4G	micro SIM card
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Smart Event	Line Crossing Detection, up to 4 regions configurable Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region exiting detection, up to 4 regions configurable Unattended baggage detection, up to 4 regions configurable Object removal detection, up to 4 regions configurable, Scene change detection The smart events are only supported in full power mode.
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, Email

Online Upgrade	Yes
Dual Backup	Yes
Firmware Version	V5.5.111
Web Client Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Anti- flicker, 3 streams heartbeat, mirror, privacy masks,flash log, password reset via e-mail, pixel counter
Software Reset	Yes
Storage Conditions	-30 °C to 60 °C. Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-15 °C to 55 °C. Humidity 95% or less (non-condensing)
Power Supply	12 VDC \pm 20% ;
Power Consumption and Current	1. The average power consumption of the 24 hours is 1.76 W (4G transmission is excluded, 50% illumination). 2. On rainy or cloudy day, the camera battery life is up to 5.2 days if it has been full charged (if the camera works continuously according to the 24-hour average power consumption). 3. The daily effective sunlight is 1.77 hour and the camera can be online always (if it works continuously according to the 24-hour average power consumption).
Power Interface	5.5 mm coaxial power plug
Screw Material	SUS304
Camera Dimension	760 \times 732.6 \times 586.9 mm (29.9" \times 28.8" \times 23.1") (Max. size of the camera after it is completely assembled)
Package Dimension	826 \times 469 \times 444 mm (32.5" \times 18.5" \times 17.5")
Camera Weight	Approx. 12964g (28.58 lb.)
With Package Weight	Approx. 16861g (37.17 lb.)
Battery Type	Lithium
Capacity	20 Ah
Max. Charging Voltage	12.6 V
Operating Temperature	-5 °C to 60 °C (23 °F to 140 °F)
Battery Voltage	10.8V
Battery Life	More than 800 cycles
Class	Class B
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015);
RF	CE-RED (EN 301489-1 V2.2.3; EN 301489-52 V1.1.0; EN 62311:2008); ICASA (EN 301 489-1 V2.2.3; EN 301 489-52 V1.1.0;EN 62311:2008)
Safety	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013;IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013;EN 62368-1:2014+A11:2017);
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

Protection

Camera: IP67(IEC 60529-2013)