

IP / Professional IP cameras

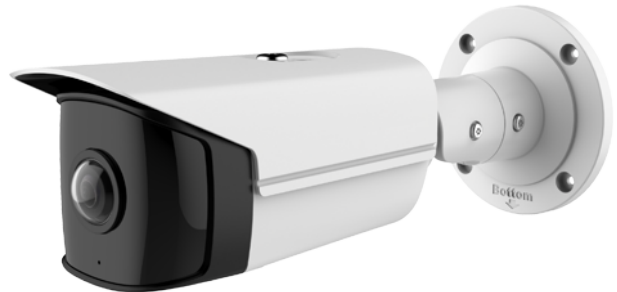
SF-IPB180UWH-4U-WIDE

Wide view IP Camera

Smart Detection ULTRA Series with Wide View

To achieve maximum scene coverage, this range uses a 180° angle of view without image distortion or spherical distortion, based on graphical image reconstruction techniques. It is also a camera with very complete functions, such as Intelligent VCA detection with line/area and object crossing, wide dynamic range (WDR) of 120dB to solve adverse lighting situations, or - SUPERPOE power supply for a long wiring range (300m) in industrial or rural installations.

- 4 Megapixels Resolution
- 1/2.7" High Performance CMOS Sensor
- 180° Super Wide Angle without deformation
- H.265+ High Efficiency Video Codec
- WDR Wide dynamic range
- Long distance Power Over Ethernet SUPERPOE
- Advanced Smart detection rules (VCA)
- IP67 Weatherproof



Technical Specification

Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	0.028 Lux @ (F2.0, AGC ON), 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
Wide Dynamic Range	120dB
Day & Night	ICR Cut
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, 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, alarm output, Email
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Focus	Fixed
Lens Type & FOV	1.68mm @ F2.0, horizontal FOV 180°, vertical FOV 101°, diagonal FOV 180°
Aperture	F2.0
Lens Mount	M12
DORI	Detect: 3.6 m, observe: 1.4 m, recognize: 0.8 m, identify: 0.4 m
IR Range	20 m
Wavelength	850nm
Smart Supplement Light	Yes
Max. Resolution	2688 × 1520
Main Stream	50Hz: 25fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720) 60Hz: 24fps (2688 × 1520), 30fps (2304 × 1296, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25fps (640 × 480, 640 × 360, 320 × 240); 60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264; Sub-stream: H.265/H.264 /MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Main Profile/High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR/VBR
Stream Type	Main stream, Sub-stream
Scalable Video Coding (SVC)	H.264, H.265
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Simultaneous Live View	Up to 6 channels
API	ONVIF (PROFILE S, PROFILE G), ISAPI, SDK

Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS
User/Host	Up to 32 users 3 levels: Administrator, Operator and User
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2
Network Storage	micro SD/SDHC /SDXC (256 G) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Client	Safire Control Center, Safire Connect, Safire Central
Web Browser	Plug-in free live view: Chrome45.0+, Firefox52.0+ Local service: Chrome41.0+, Firefox30.0+
Day/Night Switch	Day, Night, Atuo, Schedule
Image Enhancement	BLC;HLC;EIS;Lens Distortion;3D DNR
Image Settings	Saturation;brightness;contrast;sharpness;rotate mode;white balance;AGC
SNR	≥ 50 dB
Privacy Mask	4 regions of privacy mask
On-board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Hardware Reset	Yes
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Smart Event	Line crossing detection, intrusion detecction, unattended baggage detextion, object removal detection, face detection, scene change detection
Web Client Language	32 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)
General Function	privacy mask;heart;mirror;flash log;password reset via e-mail;pixel counter
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 25%; PoE: 802.3af, Class 3
Power Consumption and Current	12 VDC, 0.6 A, max. 7.2W PoE: (802.3af, 36 V-57 V), 0.3 A to 0.2 A, max. 8.7W
Power Interface	■5.5 mm coaxial power plug
Material	Metal
Dimension / Weight	Camera: ■105 × 278 mm (■4.1■ × 10.9■) With package: 386 × 156 × 155 mm (15.20■ × 6.14■ × 6.10■) Camera: 570 g (1.26 lb.) With package: 760 g (1.68 lb.)
Class	Class B
Protection	IP67
EMC	FCC (47 CFR Part 15, Subpart B); 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); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)

Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)