

IP / Professional IP cameras

SF-IPT180UWH-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	Color: 0.028 Lux @ (F2.0, AGC ON) B&W: 0.0028 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	120 dB
Day & Night	IR Cut Filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°
Lens Type	Fixed lens, 1.68 mm
FOV	1.68 mm, horizontal FOV: 180° , vertical FOV: 101° , diagonal FOV: 180°
Aperture	F2.0
Lens Mount	M12
IR Range	Up to 10 m
Wavelength	850 nm
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.264+/H.265/H.264 Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding support
Region of Interest (ROI)	1 fixed region for main stream, sub-stream and third stream
Simultaneous Live View	Up to 6 channels
API	ONVIF (PROFILE S, PROFILE G), ISAPI, SDK
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, 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	microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR
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+
Day/Night Switch	Day/Night/Auto/Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Saturation, brightness, contrast, sharpness, AGC and white balance adjustable by client software or web browser
On-board Storage	Built-in micro SD slot, up to 256 GB
Hardware Reset	Reset via reset button on camera body, web browser and client software
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Smart Event	Line crossing detection, intrusion detection, unattended baggage, object removal, face detection, scene change detection
Linkage Method	Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output, Email
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	Anti-flicker, three streams, heartbeat, mirror, privacy masks, password reset via e-mail, pixel counter, HTTP listening
Storage Conditions	-10 °C to 40 °C (14 °F to 104 °F), humidity 95% or less (non-condensing)
Startup and Operating Conditions	-10 °C to 40 °C (14 °F to 104 °F), humidity 95% or less (non-condensing)
Power Supply	12 VDC $\pm$ 25%, $\square$ 5.5 mm coaxial power plug; reverse polarity protection; PoE (802.3af, type 1, class 3)
Power Consumption and Current	12 VDC, 0.48 A, max. 5.8 W; PoE (802.3af, 36 V to 57 V), 0.19 A to 0.12 A, max. 6.8W
Camera Dimension	Camera: $\square$ 127.3 $\times$ 104.1 mm ($\square$ 5" $\times$ 4.1") With package: 150 $\times$ 150 $\times$ 141 mm (5.9" $\times$ 5.9" $\times$ 5.6") Camera: Approx. 520 g (1.1 lb.) With package: Approx. 700 g (1.5 lb.)
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)