CCTV IP / Professional IP cameras

SF-IPT838UWHA-4U-AI2

Artifical Intelligence IP Camera

TRUESENSE 2 ULTRA Series

TRUESENSE 2 is a deep learning based algorithm, which distinguishes between humans and vehicles by eliminating false detections caused by other factors (High efficiency 98%). Advanced analytics for multiple current applications such as Crowd Control, Face Capture and Mask Detection. Ultra Low Light technology and 120dB wide dynamic range guarantee the best image under any lighting conditions. Microphone or AUDIO inputs/outputs together with relay output for extended versatility of use. Practical integrated junction box (*depending on model).

- 4 Megapixels Resolution
- 1/2.7" Ultra Low Light CMOS Sensor
- 2.8 mm Fixed Lens
- H.265+ High Efficiency Video Codec
- Built-in Mic and WDR Wide dynamic range
- TRUESENSE2 filter for human and vehicle classification
- Advanced Smart detection rules (VCA)





Technical Specification

Image Sensor	1/2.7" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON)
Day & Night	ICR Cut
Shutter Speed	1/3 s to 1/100,000 s
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Focal Length & FOV	2.8 mm, horizontal FOV 103°, vertical FOV 55°, diagonal FOV 123°
Aperture	F1.4
Lens Mount	M12
Iris Type	Fixed
DORI	2.8 mm: D: 60.0 m, O: 23.8 m, R: 12.0 m, I: 6.0 m
IR Range	Up to 30 m
IR Wavelength	850 nm
Smart Supplement Light	Yes
Supplement Light Type	IR
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
Video Compression	Main Stream: H.265/H.264/H.265+/H.264+ Sub-Stream: H.265/H.264/MJPEG Third Stream: H.265/H.264 *Third stream is supported under certain settings.
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
Scalable Video Coding (SVC)	H.265 and H.264 support

Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
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: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
SNR	≥ 52 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Built-in Microphone	Yes
On-Board Storage	Built-in micro SD slot, up to 256 GB
Hardware Reset	Yes
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Smart Event	Scene change detection
Face Capture	Yes
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection
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%, reverse polarity protection PoE: 802.3af, 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. 6.8 W
Power Interface	Ø5.5 mm coaxial power plug
Camera Dimension	Camera: Ø138.3 × 126.3 mm (5.4" × 5.0") With package: 170 × 170 × 150 mm (6.7" × 6.7" × 5.9") Camera: Approx. 730 g (1.6 lb.) With package: Approx. 1035 g (2.3 lb.)
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger record, trigger capture, send email
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, heartbeat, mirror, privacy masks, flash log, password reset via email, pixel counter
Software Reset	Yes
Firmware Version	V5.5.111
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); 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); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP66 (IEC 60529-2013)