

IP / Professional IP cameras

SF-IPD820WA-4E

Artificial 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 AUDIO and Mic / Relay output
- TRUESENSE2 filter for human and vehicle classification
- People counting technology
- Advanced Smart detection rules (VCA)



Technical Specification

Sensor de imagen	1/2.7" Progressive Scan CMOS
Iluminación mínima	Color: 0.003 Lux @ (F1.4, AGC ON)
Día y Noche	ICR Cut
Velocidad de obturación	1/3 s to 1/100,000 s
Ajuste de ángulo	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Obturador lento	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°
Apertura	F1.4
Montura del lente	M12
Iris Type	Fixed
DORI	2.8 mm: D: 60.0 m, O: 23.8 m, R: 12.0 m, I: 6.0 m
Rango IR	Up to 30 m
IR Wavelength	850 nm
Luz de suplemento inteligente	Yes
Tipo de luz suplementaria	IR
Max. Resolución	2688 x 1520
Main stream	50 Hz: 25 fps (2688 x 1520, 1920 x 1080, 1280 x 720) 60 Hz: 30 fps (2688 x 1520, 1920 x 1080, 1280 x 720)
Sub-stream	50 Hz: 25 fps (640 x 480, 640 x 360) 60 Hz: 30 fps (640 x 480, 640 x 360)
Third Stream	50 Hz: 10 fps (1920 x 1080, 1280 x 720, 640 x 480, 640 x 360) 60 Hz: 10 fps (1920 x 1080, 1280 x 720, 640 x 480, 640 x 360) *Third stream is supported under certain settings.
Compresión de video	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.
Vídeo bitrate	32 Kbps to 8 Mbps
Tipo H.264	Baseline Profile/Main Profile/High Profile
Tipo H.265	Main Profile
H.264 +	Main Stream supports
H.265 +	Main Stream supports
Bit Rate Control	CBR/VBR
Codificación de video escalable (SVC)	H.265 and H.264 support

Región de interés (ROI)	1 fixed region for main stream and sub-stream
Filtro de ruido ambiental	Yes
Frecuencia de muestreo de audio	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Compresión de audio	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
Velocidad de bits de audio	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)
Vista en vivo simultánea	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
Protocolos	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
Usuario/operador	Up to 32 users. 3 user levels: administrator, operator and user
Seguridad	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
Almacenamiento en red	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
Cliente	Safire Control Center, Safire Connect, Safire Central
Navegador web	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
Interruptor día/noche	Day, Night, Auto, Schedule
Mejora de la imagen	BLC, HLC, 3D DNR
Interruptor de parámetros de imagen	Yes
Configuración de imagen	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Alarma	1 input, 1 output (max. 12 VDC, 30 mA)
Audio	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , interface type: non-equilibrium; 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω , interface type: non-equilibrium
Micrófono incorporado	Yes
On-Board Storage	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB
Restablecimiento de hardware	Yes
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Evento Básico	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Evento inteligente	Scene change detection
Captura de la cara	Yes
Protección perimetral	Line crossing detection, intrusion detection, region entrance detection, region exiting detection

Condiciones de almacenaje	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Condiciones de inicio y funcionamiento	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Fuente de alimentación	12 VDC $\pm$ 25%, reverse polarity protection PoE: 802.3af, class 3
Power Consumption and Current	12 VDC: 0.4 A, Max: 5 W PoE: (802.3af, 36 V-57 V), 0.20 A to 0.15 A, Max: 6.5 W
Interfaz de energía	Ø5.5 mm coaxial power plug
Dimensión de la cámara	Camera: Ø121.4 $\times$ 92.2 mm (Ø4.8" $\times$ 3.6") With package: 150 $\times$ 150 $\times$ 141 mm (5.9" $\times$ 5.9" $\times$ 5.6") Camera: Approx. 580 g (1.3 lb.) With package: Approx. 820 g (1.8 lb.)
Método de enlace	Upload to NAS/memory card/FTP, notify surveillance center, trigger record, trigger capture, send email, audible warning
Idioma del cliente web	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
Función general	Anti-flicker, heartbeat, mirror, privacy masks, flash log, password reset via email, pixel counter
Reinicio de software	Yes
Versión de firmware	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)
Seguridad	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)
Ambiente	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protección	IP66, IK10