

IP / Professional IP cameras

# SF-IPD820WA-4E

## Entry-level Professional 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
- 1/3" High Performance CMOS Sensor
- 2.8 mm Fixed Lens
- H.265+ High Efficiency Video Codec
- Smart IR LED Up to 30m
- Power over Ethernet (POE)
- IP67 Weatherproof



## Technical Specification

<b>Image Sensor</b>	1/3" progressive scan CMOS
<b>Max. Resolution</b>	2560 × 1440
<b>Min. Illumination</b>	Color: 0.01 Lux @(F2.0, AGC ON), B/W: 0 Lux with IR
<b>Shutter Time</b>	1/3 s to 1/100,000 s
<b>Day &amp; Night</b>	IR cut filter
<b>Angle Adjustment</b>	Pan: 0° to 355°, tilt: 0° to 75°
<b>Focal Length &amp; FOV</b>	2.8 mm, horizontal FOV 98.0°, vertical FOV 53.1°, diagonal FOV 114.7°
<b>Lens Mount</b>	M12
<b>Focus</b>	Fixed
<b>Aperture</b>	F2.0
<b>Lens Type</b>	Fixed focal lens, 2.8mm
<b>Iris Type</b>	Fixed
<b>Supplement Light Type</b>	IR
<b>Supplement Light Range</b>	Up to 30 m
<b>IR Wavelength</b>	850 nm
<b>Smart Supplement Light</b>	Yes
<b>Main Stream</b>	50 Hz: 20 fps (2560 × 1440) 25 fps (2304 × 1296, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2560 × 1440) 30 fps (2304 × 1296, 1920 × 1080, 1280 × 720)
<b>Sub-Stream</b>	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
<b>Video Compression</b>	Main stream: H.265/H.264/H.264+/H.265+ Sub-stream: H.265/H.264/MJPEG
<b>Video Bit Rate</b>	32 Kbps to 8 Mbps
<b>H.264 Type</b>	Baseline Profile/Main Profile/High Profile
<b>H.265 Type</b>	Main Profile
<b>Region of Interest (ROI)</b>	1 fixed region for main stream
<b>Protocols</b>	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP™, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS
<b>Simultaneous Live View</b>	Up to 6 channels
<b>API</b>	Open Network Video Interface, ISAPI
<b>User/Host</b>	Up to 32 users. 3 levels: administrator, operator and user
<b>Client</b>	Safire Control Center, Safire Connect
<b>Web Browser</b>	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+

<b>Image Settings</b>	Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser
<b>Day/Night Switch</b>	Auto, Schedule, Day, Night
<b>Wide Dynamic Range (WDR)</b>	120 dB
<b>Image Enhancement</b>	BLC, 3D DNR
<b>Ethernet Interface</b>	1 RJ45 10 M/100 M self-adaptive Ethernet port
<b>Basic Event</b>	Motion detection, video tampering alarm, exception
<b>Linkage</b>	Upload to FTP, notify surveillance center, send email
<b>Power</b>	12 VDC $\pm$ 25%, 0.4 A, max. 5 W, $\varnothing$ 5.5 mm coaxial power plug PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W
<b>Dimension</b>	$\varnothing$ 111 mm $\times$ 82.4 mm ( $\varnothing$ 4.4" $\times$ 3.2")
<b>Package Dimension</b>	134 mm $\times$ 134 mm $\times$ 108 mm (5.3" $\times$ 5.3" $\times$ 4.3")
<b>Without Package Weight</b>	Approx. 360 g (0.8 lb.)
<b>With Package Weight</b>	Approx. 560 g (1.2 lb.)
<b>Storage Conditions</b>	-30 °C to 60 °C (-22 °F to 140 °F). Humidity: 95% or less (non-condensing)
<b>Startup and Operating Conditions</b>	-30 °C to 60 °C (-22 °F to 140 °F). Humidity: 95% or less (non-condensing)
<b>Language</b>	English
<b>General Function</b>	Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
<b>EMC</b>	FCC SDoC (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 VoC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
<b>Safety</b>	UL (UL 60950-1); 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, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)
<b>Environment</b>	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
<b>Protection</b>	IP67 (IEC 60529-2013), IK10 (IEC 62262:2002)