

CCTV IP / Professional IP cameras

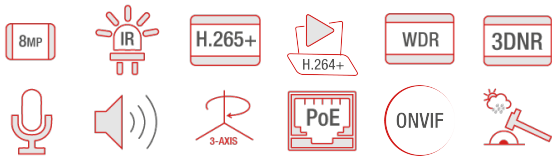
# SF-IPD040A-8I1

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### I1 Range: Advanced Artificial Intelligence and video metadata

The I1 series is the highest performing IP camera range in the Safire Smart ecosystem. This series integrates advanced and comprehensive artificial intelligence that achieves an accuracy rate of 99%, one of the highest in the industry. In addition, it includes functionalities such as facial capture or video metadata analysis for feature extraction (up to 13 human, 5 vehicle and 2 two-wheeled vehicle features). In this series, cameras with different resolutions (4MP and 8MP) are available with different features to adjust with the best functionalities to the needs and characteristics of each installation.

- IP Dome Camera range I1 Advanced AI
- Resolution 8 Megapixel (3840x2160)
- Lens 2.8 mm | Microphone | IR 30m
- Advanced AI: Human, vehicle and vehicle 2 wheels
- Waterproofing IP67 & IK10 | PoE (IEEE802.3af)



## Technical Specification

Camera	
Image Sensor	1 / 2.8 "CMOS
Image Size	3840×2160
Electronic Shutter	1 / 2 s ~ 1 / 100000 s
Iris Type	Fixed Iris
Min. Illumination	0.02 lux @ F1.6, AGC ON; 0 lux with IR
Lens	2.8 mm @F1.6, Horizontal FoV:101°; Vertical FoV:53°; Diagonal FoV:120°
Focus	Fixed
Lens Mount	M12
Day&Night	ICR
Wide Dynamic Range	120dB
BLC	Yes
HLC	Yes
Defog	Yes
Digital NR	3D DNR
S/N Ratio	≥50dB
Angle Adjustment	Pan: 0°~355°; Tilt:0°~67°; Rotation: 0°~355°
Image	
Video Compression	Main stream: H.265+ / H.265 / H.264+ / H.264 Sub stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG Third stream: H.265+ / H.265 / H.264+ / H.264 / MJPEG
H.264 Compression Standard	Baseline Profile/Main Profile/High Profile
Resolution	8MP ( 3840 × 2160 ), 6MP( 3072 × 2048 ),5MP( 2592 × 1944), 4MP ( 2592 × 1520), 2K(2560 × 1440 ), 3MP(2304 × 1296), 1080P ( 1920 × 1080 ), 720P ( 1280 × 720 ), D1, CIF, 480 × 240
Main Stream	60Hz : 8MP(1~20fps)/6MP/5MP/4MP/2K/3MP/1080P/720P(1~30fps) 50Hz : 8MP(1~20fps)/6MP/5MP/4MP/2K/3MP/1080P/720P(1~25fps)
Sub Stream	60Hz: 720P(1~12fps)/D1/480 × 240(1~30fps) 50Hz: 720P/D1/480 × 240(1~25fps)
Third Stream	60Hz: 720P/D1/CIF/480 × 240 (1~30fps) 50Hz: 720P/D1/CIF/480 × 240 (1~25fps)
Bit Rate	64 Kbps ~ 12 Mbps
Bit Rate Type	VBR / CBR
Audio Compression	G711A / U
Image Settings	ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, image mirror, image flip, Sharpness, NR, etc. adjustable through client software or web browser

<b>ROI</b>	Each ROI to be configured separately
<b>Interfaces</b>	
<b>Network</b>	RJ 45 10M/100M self-adaptive Ethernet port
<b>Video Output</b>	No
<b>Audio</b>	1CH built-in MIC; 1CH audio input
<b>Storage</b>	Built-in micro SD card slot; up to 256GB
<b>Reset</b>	Yes
<b>Functions</b>	
<b>Remote Monitoring</b>	IE browser/ TVT NVR / NVMS / mobile APP
<b>Web Browser</b>	IE11 (plug-in required)/Chrome 89.0+/Edge 89.0+/Firefox 87.0+/Safari 14.0+
<b>Online Connection</b>	Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission
<b>Network Protocol</b>	UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, HTTP POST, 802.1x, UPnP, HTTPS, QoS
<b>Interface Protocol</b>	ONVIF
<b>Storage</b>	Network remote storage; micro SD card storage
<b>Smart Alarm</b>	Motion detection; SD card error; SD card full
<b>Intelligent Analytics</b>	Scene change, video blur detection, abnormal color detection, line crossing detection, intrusion detection
<b>General Function</b>	Watermark, video mask, heartbeat, corridor pattern
<b>IR Distance</b>	20~30m
<b>Protection Grade</b>	IP 67 & IK10
<b>PoE</b>	Yes (IEEE802.3af)
<b>Security</b>	Video encryption, firmware encryption, HTTPS encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and digest authentication for HTTP/HTTPS
<b>DORI Distance</b>	
<b>Lens</b>	2.8mm
<b>Detect</b>	86.65m(284.28ft)
<b>Observe</b>	34.66m(113.71ft)
<b>Recognize</b>	17.33m(56.85ft)
<b>Identify</b>	8.66m(28.41ft)
<b>Others</b>	
<b>Power Supply</b>	DC12V/PoE
<b>Power Consumption</b>	< 7W
<b>Operating Environment</b>	- 30 °C ~ 65°C (-22°F~149°F), Humidity: less than 95 % (non-condensing)

<b>Storage Environment</b>	- 30 °C ~ 60 °C (-22°F~140°F), Humidity: less than 95 % (non-condensing)
<b>Dimensions ( mm )</b>	Ø 119 × 87.8
<b>Weight ( net )</b>	Approx. 0.64KG
<b>Installation</b>	Ceiling mounting; Wall mounting
<b>Certificate</b>	CE, FCC
<b>Environmental Protection</b>	Complies with Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006)