CCTV IP / Professional IP cameras

SF-IPD051A-5WE1

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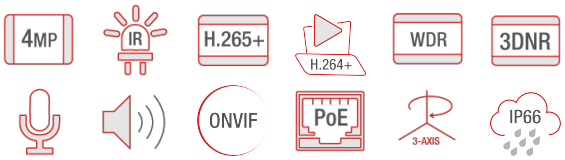
I1 Range: Advanced Artificial Intelligence and video metadata

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 E AI
- Resolution 5Mpx (2880×1620)
- Lens 2.8 mm | Audio | IR 20m
- Advanced AI:Perimeter, Facial, Counting,Metadata
- Waterproofing IP66 | PoE (IEEE802.3af)



Technical Specification

Camera	
Image Sensor	1 / 2.7 "CMOS
Image Size	2592 × 1520
Electronic Shutter	1 / 2s ~ 1 / 100000 s
Iris Type	Fixed Iris
Min. Illumination	0.005 lux@F1.6,AGC ON;0 lux with IR
Lens	2.8 mm@F1.6, Horizontal FoV: 95.3°; vertical FoV: 53.2°; diagonal FoV:100.7° 3.6 mm@F1.6, Horizontal FoV: 78.8°; vertical FoV: 42.3°; diagonal FoV:100.2°
Focus	Fixed
Lens Mount	M12
Day&Night	ICR
Wide Dynamic Range	120dB
BLC	Yes
HLC	Yes
Defog	Yes
S/N Ratio	≥50dB
Digital NR	3D DNR
Angle Adjustment	Pan: 0°~360°; Tilt:0°~70°; Rotation: 0°~350°

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	4MP (2592 × 1520), 2K (2560 × 1440), 3MP (2304 × 1296), 1080P (1920 x 1080), 720P (1280 x 720), D1, CIF, 480 x 240
Main Stream	4MP/2K/3MP/1080P / 720P(60Hz :1 ~ 30fps; 50Hz: 1~25fps) HFR mode: 1080P / 720P(60Hz : 1 ~ 60fps; 50Hz: 1~50fps)
Sub Stream	720P/D1/CIF/480×240 (60Hz : 1 ~ 30fps; 50Hz: 1~25fps)
Third Stream	D1/CIF/480×240 (60Hz : 1 ~ 30fps; 50Hz: 1~25fps)
Bit Rate	64 Kbps ~ 8 Mbps
Bit Rate Type	VBR / CBR
Audio Compression	G711A / U
Image Settings	ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, Image Mirror, Image Flip, NR, etc. adjustable through client software or web browser

ROI	Each ROI to be configured separately

Intelligent Analytics (Smart Events)

Perimeter Protection	Line crossing, region entrance/exiting/intrusion (human/motor vehicle/non-motor vehicle classification)
Statistics	Target counting by line/area, heat map
Exception Detection	Scene change, video blur and abnormal color detection
Face Detection	Face detection and face capture
Other Events	Abandoned/missing object detection
Video Metadata	Simultaneously captures human body, motor vehicle and non-motor vehicle and extracts 13 human features, 5 motor vehicle features and 1 non-motor vehicle feature

Interfaces

Network	RJ 45 10M/100M self-adaptive Ethernet port
Video Output	No
Audio	1CH audio input; 1CH built-in MIC
Storage	Built-in micro SD card slot; up to 256GB
Reset	Yes
Alarm	No

Functions

Remote Monitoring	Web Browser/TVT NVMS2.0/NVR/mobile APP
Web Browser	IE11(plug-in required)/Chrome 89.0+/Edge 89.0+/Firefox 87.0+/Safari 14.0+
Online Connection	Support simultaneous monitoring for up to 10 users; Support multi-stream real time transmission
Network Protocol	UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTMP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, HTTP POST, 802.1x, UPnP, HTTPs, QoS
Interface Protocol	ONVIF
Storage	Network remote storage; micro SD card storage
Smart Alarm	Motion detection, SD card error, SD card full
General Function	Watermark, video mask, heartbeat, image distortion correction, corridor pattern
Security	Video encryption, firmware encryption, HTTPs encryption, configuration encryption, illegal login lock, IP address filtering, 802.1x authentication, basic and digest authentication for HTTP/HTTPs
PoE	Yes , IEEE802.3af
IR Distance	10 ~ 20 m
Ingress Protection	IP66

DORI Distance

Lens	2.8mm | 3.6mm
Detect	60.69m(199.11ft) | 75.24m(246.82ft)

Observe	24.28m(79.65ft) | 30.10m(98.75ft)
Recognize	12.14m(39.82ft) | 15.05m(49.37ft)
Identify	6.07m(19.91ft) | 7.52m(24.67ft)

Others

Power Supply	DC12V/PoE
Power Consumption	< 6 W
Operating Environment	- 30 °C ~ 65°C (-22°F~149°F), Humidity: less than 95 % (non-condensing)
Storage Environment	- 30 °C ~ 60 °C (-22°F~140°F), Humidity: less than 95 % (non-condensing)
Dimensions (mm)	◘ 110 × 59.8
Weight (net)	Approx. 0.38KG
Installation	Ceiling mounting; Wall mounting
Certificate	CE, FCC
Environmental Protection	Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006)