

CCTV IP / Thermal

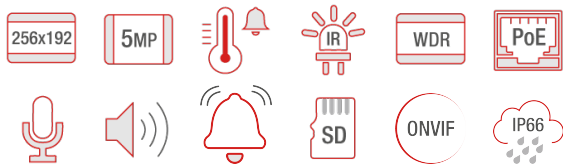
SF-IPTT256A-3D5

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Bi-Spectrum Thermographic Cameras

High-resolution thermal imaging cameras are used to detect temperature anomalies before a fire starts, find hot spots, invisible defects in machinery or electrical systems that could indicate a potential problem. The artificial intelligence they incorporate also allows them to detect humans and/or vehicles, filtering out possible false alarms caused by vegetation, animals, etc. Its visible spectrum lens will allow us to obtain a high quality image with more information for alarm verification in the surveillance centre.

- Safire Smart Dual Turret IP Thermal Camera
- Thermal sensor 256x192 VOx | Lens 3.2 mm
- Optical sensor 1/2.7" 5 MP | 4 mm Lens
- Thermal sensitivity $\leq 50\text{mK}$
- AI based on human and vehicle classification
- Temperature measurement range $-20\sim 150^{\circ}\text{C} / \pm 8^{\circ}\text{C}$



Technical Specification

Thermal Module	
Detector Type	12μm 256×192 Vanadium oxide uncooled focal plane detector
Response Waveband	8μm-14μm
NETD	≤50mK(@25°C, F#=1.0)
IRIS Type	Fixed Iris
Lens	3.2mm@F1.1
Field of View(H×V)	56°×42.2°
Min. Focusing Distance	0.5 m
Color Palettes	Black hot, White hot,iron oxide red, etc.
DRI Distance Human (0.75m)	Detection: 133m(436ft) Recognition: 33m(108ft) Identification:17m(56ft)
DRI Distance Vehicle (2.3m)	Detection: 409m (1342ft) Recognition: 102m(335ft) Identification:51m(167ft)
Visible Light Module	
Image Sensor	1/ 2.7" CMOS
Image Size	2592 × 1944
Electronic Shutter	1/3 s ~ 1 / 100000 s
Iris Type	Fixed Iris
Min. Illumination	0.02 lux@F1.6,AGC ON; 0 lux with IR 0.03 lux@F2.0,AGC ON; 0 lux with IR
Lens	4mm@F1.6
Field of View (H×V)	81°×56.7°
Wide Dynamic Range	120dB
BLC	Yes
HLC	Yes
Defog	Yes
Digital NR	2D/3D DNR
Image	
Video Compression	H.265 / H.264 / MJPEG
H.264 Compression Standard	Baseline Profile / Main Profile / High Profile
Bit Rate Type	VBR/CBR
Bit Rate	128Kbps~ 8Mbps

Resolution	Thermal : 720P (1280 × 720), D1, CIF, 480 × 240 Optical: 5MP (2592 × 1944), 4MP (2592 × 1520), 2K (2560 × 1440), 3MP (2304 × 1296), 1080P (1920 × 1080), 720P (1280 × 720), D1, CIF, 480 × 240
Main Stream	Optical: 60Hz:5MP/4MP/2K/3MP/1080P/720P (1~30fps); 50Hz: 5MP/4MP/2K/3MP/1080P/720P (1~25fps) Thermal : 256 × 192 (the resolution of output image is 720P/D1/CIF/480×240) (1~25fps)
Sub Stream	Optical: 60Hz: 720P/D1/CIF (1~30fps); 50Hz: 720P/D1/CIF (1~25fps)
Third Stream	Optical: 60Hz: D1/CIF/480×240(1~30fps); 50Hz: D1/CIF/480×240(1~25fps)
Dual Image Fusion	Yes
Temperature Overlay	Temperature can be overlaid on video stream
Image Settings	ROI, Saturation, Brightness, Hue, Contrast, Wide Dynamic, Sharpness, NR, etc. adjustable through client software or web browser
Audio Compression	G711A/U
ROI	8 regions; each ROI to be configured separately

Interfaces

Network	RJ 45
Video Output	No
Audio	1CH 3.5mm MIC/LIN in audio input; 1CH built-in MIC; 1CH built-in speaker
Storage	Built-in micro SD card slot; up to 256GB
Reset	Yes
RS 485	No
Alarm	1CH alarm input; 1CH alarm output

Functions

Temperature Range	-20°C~150°C (-4°F~302°F)
Temperature Accuracy	±8°C
Temperature alarm	Over temperature alarm, low temperature alarm
Temperature Measurement	10 rules in total (Point: up to 10; Line: up to 10; Area: up to 10)
Fire Detection	Dynamic fire detection, up to 10 fire points detectable
Remote Monitoring	Web browser/NVMS2.X/Mobile APP
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, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, 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, IP address conflict, Cable connection

Intelligent Analytics	Optical: intrusion detection/line crossing detection (human/motor vehicle/nonmotor vehicle classification), scene change detection, video exception detection, target counting(human/motor vehicle/non-motor vehicle classification) , face detection, face capture Thermal: fire detection, temperature exception alarm, intrusion detection/line crossing detection (human/motor vehicle classification) AI function can be enabled simultaneously on thermal and optical channels
General Function	Watermark, IP address filtering, video mask, heartbeat, password protection, image distortion correction
Sound&Light Warning	White light flashing alarm and sound alarm supported
PoE	Yes , IEEE802.3 af, class0
IR Distance	20~ 30m
Protection Grade	IP66
Others	
Power Supply	DC12V / PoE
Power Consumption	< 9W
Operating Environment	Humidity: less than 95 % (non-condensing) -30 °C ~ 60 °C (-22°F~140°F)
Certificate	CE, FCC
Environment Protection	Complies with Directive EU RoHS, WEEE(2012/19/EU) , directive 94/62/EC and REACH(EC1907/2006)
Dimensions (mm)	Ø111.5 × 99.6
Weight (net)	Approx. 0.68KG
Installation	Ceiling mounting; Wall mounting