

# Explosion-proof Dual-spectrum Camera

### IRS-SFB435-T



#### **Product Feature**

- 1.Double explosion-proof certifications, explosion-proof standard: Ex d  $\, \rm I\!IC \, T6$  Gb/Ex tb  $\, \rm I\!IC \, T80^{\circ}C$  Db
- 2. With the latest 12µm thermal imaging detector and advanced thermal image algorithm, it can make farther and clearer images.
- 3. Visible imaging and thermal imaging can meet the requirement for 24/7 security monitoring.
- 4.Smart analysis for actions such as tripwire intrusion and area intrusion are available.
- 5. Support professional temperature measurement analysis tools and smart fire detecting algorithm.



6. 304/316L stainless steel body design with encapsulation rating IP68.

7.ONVIF&GB28181 standard interface protocol, SDK, matched NVR and VMS client software is available.



# **Camera Specifications**

Technical Specifications		SFB435-T					
	Detector Type	VOx, uncooled FPA detectors					
Thermal Parameters	Spectral Range	8 ~ 14μm					
	NETD	≤40mK@25°C,F#1.0					
	Max. Resolution	384×288					
	Pixel Pitch	12µm					
	Focal Length	9.1mm 13mm 19mm 25mm					
	Focus Mode	Athermal fixed focus					
	FOV	28°×21° 20°×15° 13°×10° 10°×7.9°					
	F#	1.0 1.0 1.0					
	IFOV	1.32mrad 0.92mrad 0.63mrad 0.48mrad					
	Palette	20 palettes available such as Whitehot/Blackhot/Iron/Rainbow.					
	Sensor	5MP 1/2.8" Progressive Scan CMOS					
	Max. Resolution	2560×1920					
	Focal Length	6mm 6mm 12mm 12mm					
Visible	FOV	46°×35°   46°×35°   24°×18°   24°×18°					
Parameters	Day/Night Conversion	ICR auto conversion/ Electronic color to B/W					
	Supplement Light	Infrared supplement light, maximum supplement distance 50m					
Dual-spectrum	Dual-Spectrum Fusion	Support the thermal image to fuse visible image to improve thermal image details					
Parameters	PIP	Support thermal image overlaid on visual image in PIP mode					
	Network Protocol	IPv4,HTTP,HTTPS,QoS,FTP,SMTP,UPnP,SNMP,DNS,DNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP					
	Interoperability	ONVIF, GB28181, SDK					
Network Functions	Number of Videos Previewed Simultaneously	Support up to 20 channels					
	User Management	Support multi-user, three levels: administrator, operator and user					
	Browser	Support IE browser, Chinese and English are available.					
	Max. Resolution	2560×1920 (visible) , 1280×1024 (thermal)					
Video Parameters	Image Format	JPEG					
	Audio Compression Standard	G.711a/G.711u/AAC/PCM					
	Video Compression Standard	H.264/H.265					
	Main Stream	Visible: 50Hz:25fps(2560×1920,2560×1440,1920×1080,1280×720) 60Hz:30fps(2560×1920, 2560×1440, 1920×1080, 1280×720)					

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		Thermal: 50Hz:25fps(1280×1024, 1024×768)
		60HZ:30fps(1280×1024, 1024×768)
		Visible:
	Sub Stream	50Hz:25fps(704×576, 352×288) 60Hz:30fps(704×480, 352×240)
		Thermal:
		50Hz:25fps(384×288) 60Hz:30fps(384×288)
	Measuring Range	-20℃~550℃
Temperature Measurement	Measuring Accuracy	±2℃ or ±2% (The larger value shall prevail)
	Temperature Analysis	Support full frame, spot, line, region temperature measurement rules and linkage alarms
	Fire Warning	Support fire detection
Smart Functions	Smart Video	Alarm trigger recording, disconnection trigger recording
	Smart Alarming	Support triggering alarm and linkage alarm of network disconnection, IP address conflict, memory error, illegal access and burn alarm
	Smart Detecting	Support event analysis functions such as area intrusion, tripwire intrusion, etc.
	Linkage Alarm	Video/image/mail/ alarm output / sound and light alarm
	Power Interface	AC 85~260V , DC 12V (optional)
	Communication Interface	1 RJ45 10M/100M adaptive Ethernet port
Cuatam	Audio Interface	1-ch input, 1-ch output
System Interface	Alarm Interface	2-ch input, 2-ch output
micriaco	Storage Interface	Micro SD memory (maximum 256G)
	R485 Interface	1-ch RS485, support extended Pelco
	Fiber Interface (optional)	Support fiber access
General Specification	Operating Temperature& Humidity	-40°C ~ +60°C; <95%RH
	Ex Rating	Ex d ⅢC T6 Gb/Ex tb ⅢC T80°C Db
	Encapsulation Rating	IP68
	Housing Material	304/316L stainless steel (used in corrosive environment)
	Power Consumption	≤8W
	Dimensions(mm) Weight	275.5×186×203 13kg
		Multiple optional mounting types for different application
	Mounting	environment

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#### **Operating Distance**

The recommended distance of detecting, recognizing and identifying for human (1.8×0.5m) and vehicles (1.4×4.0m) are as follows:

DD stands for Detecting Distance;

RD stands for Recognizing Distance;

ID stands for Identifying Distance;

	DD	DD	RD	RD	ID	ID
Equipped Lens	(vehicle)	(human)	(vehicle)	(human)	(vehicle)	(human)
9.1mm	1163m	379m	291m	95m	145m	47m
13mm	1661m	542m	415m	135m	208m	68m
19mm	2428m	792m	607m	198m	303m	99m
25mm	3194m	1042m	799m	260m	399m	130m

## **Operating Distance of Smart Analysis**

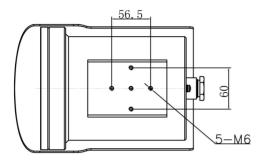
Equipped Lens	RD (human)	RD (vehicle)	Temperature Measurement (2m×2m)	Temperature Measurement (1m×1m)	Fire Detection (2m×2m)	Fire Detection (1m×1m)
9.1mm	71m	218m	253m	126m	1011m	506m
13mm	102m	311m	361m	181m	1444m	722m
19mm	148m	455m	528m	264m	2111m	1056m
25mm	195m	599m	694m	347m	2778m	1389m

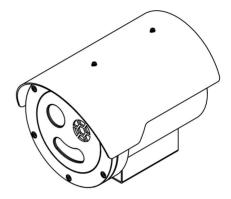
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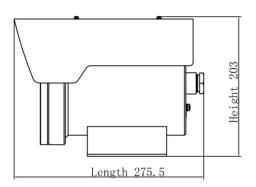


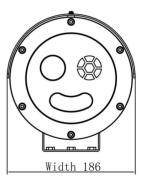
# **Drawings**

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