IRS-SD732 Series

Dual-spectrum Network Speed Dome

Datasheet

V1.0.0

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1 Product Introduction

The IRS-SD732 dual-spectrum network speed dome is a new network dual-spectrum smart dome that integrates functions of remote network monitoring, video server and high-definition intelligence. The camera has a built-in high-definition visible light camera and advanced thermal detector, which can collect the characteristic information of the measured scene more comprehensively with dual-spectrum shooting, truly realizing the needs of 24/7 monitoring. The camera can be widely used in places which requires large-scale high-definition monitoring, such as forests, highways, railways, airports, ports, parks, etc., and it is also applicable for integrated intelligent security fields such as perimeter protection and fire warning.

Figure 1 Camera Appearance

Camera Features

- With the latest InfiRay® 12μm uncooled IR detector, IRS-SD732 series can make farther and clearer images.
- High-definition dual-spectrum imaging, supports maximum thermal imaging resolution of 330,000 pixels. Together with 2 MP 30x visible light camera to support a full range of athermal infrared lenses such as 19mm, 25mm, and 35mm, which can meet the needs of different monitoring distances.
- Support high-definition network transmission, and can transmit visible light video and infrared video at the same time.

- Combination of multiple network monitoring, and support ONVIF, GB28181 protocol.
- Support multiple park actions such as patrol scan and 6 scan tracks with speed memory.
- Support smart infrared video analysis such as area intrusion and tripwire intrusion.
- Encapsulation level IP66

2 Camera Specification

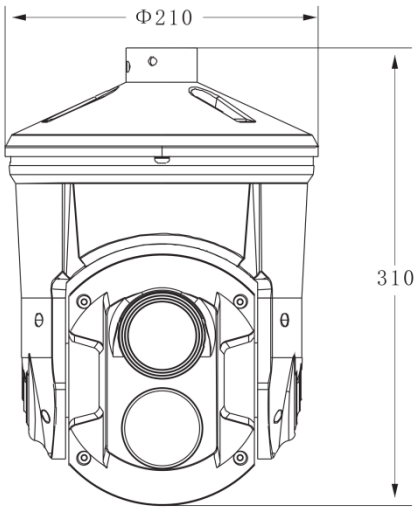
Technical Specifications		IRS-SD732		
Thermal Parameters	**Detector Type**	VOx, uncooled FPA detectors		
	Spectral Range	8～14μm		
	Resolution	384×288		
	Pixel Size	12μm		
	Focal Length	19mm	25mm	35mm
	IFOV	0.632mrad	0.480mrad	0.343mrad
	FOV	13.9°×10.4°	10.6°×7.9°	7.5°×5.7°
	Focus Control	Athermalized fixed focus		
	Color Palette	18 modes available such as Whitehot/Blackhot/Rainbow.		
Visible Parameters	**Sensor**	2 MP 1/2.8" Progressive Scan CMOS		
	Resolution	1920×1080		
	Low Illumination	Color：0.001Lux， Black & White：0.0005Lux@(F1.5, AGC ON)		
	Electronic Shutter	1/25～1/100,000 seconds		
	Digital Zoom	16x		
	Optical Zoom	33x		
	Focal Length	5.5～180mm		
	Focus Control	Auto/Semi-auto/Manual		
	FOV	horizontal：60.5°～2.3°		
	Close Focus Distance	0.1～1m		
	F#	F1.5～F4.0		
	WDR	120dB		
	Digital Noise Reduction	3D DNR		
PTZ Parameters	**Pan Range**	360°		
	Pan Speed	Configurable from 0.5° to 150°/s		
	Tilt Range	-20°～90°		

	Tilt Speed	Configurable from 0.5° to 100°/s
	Proportional Zoom	yes
	Presets	255
	Patrol Scan	6 patrols, up to 18 presets for each patrol, time settable
	Power-off Self-lock	Yes
Network Functions	**Network Protocol**	TCP/IP,UDP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,IGMP,SMTP,NTP,ARP
	Interface Protocol	Support ONVIF,GB28181
	Simultaneous Live View	Max. 20
	User Management	Up to 20 users, divided into 3 levels: administrators, operators and ordinary users
	Web Browser	IE8+, multiple languages
Video Parameters	**Image Format**	JPEG
	Max. Resolution	1920×1080(visible),384×288(IR)
	Video Compression	H.265/H.264/MJPEG
	Audio Compression	G.711a/G.711u/G.722.1/G.726/MP2L2/AAC/PCM
Smart Features	**Fire Detection & Alarm**	yes
	Temperature Alarm	yes
	Smart Tracking	multiple tracking methods such as event tracking
	Smart Record	Alarm trigger recording, disconnection trigger recording (continue transmission after connection)
	Smart Alarm	Support alarm trigger of network disconnection, IP address conflict, full memory, memory error, illegal access and abnormal detection
	Smart Detecting	Support smart video analysis such as line intrusion, cross-border, region intrusion and wandering detection
	Alarm Linkage	SD card recording/capture/alarm output/ sending mail/ PTZ linkage
System Interface	**Audio Input**	1 channel audio input
	Audio Output	1 channel audio output

	Communication Interface	RJ45 self-adaptive 10M/100M Ethernet port
	Alarm Input	1 channel
	Alarm output	1 channel
	Storage Interface	Micro SD card (maximum 128G)
	RS-485	1 channel
General	**Operating Conditions**	-40℃～+70℃，＜90% RH
	Protection Level	IP66,TVS 4000V Lightning Protection, Surge Protection and Voltage Transient Protection
	Power Supply	AC 24V
	Power Consumption	≤36W
	Dimensions (mm)	Φ210(mm)×310(mm)
	Weight	6kg
	Mounting Type	Wall Mount/Ceiling Mount

3 Effective Distance

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

Lens	DD (Vehicle)	DD (Man)	RD (Vehicle)	RD (Man)	ID (Vehicle)	ID (Man)
IRS-SD732（19mm）	2428m	792m	607m	198m	303m	99m
IRS-SD732（25mm）	3194m	1042m	799m	260m	399m	130m
IRS-SD732（35mm）	4472m	1458m	1118m	365m	559m	182m

4 Dimension