

# Dual-spectrum Turret Network Camera IRS-FD225-T



#### **Product Feature**

- 1.With the latest InfiRay® 12µm IR thermal imaging detector and advanced IR image algorithm, it can make farther and clearer images.
- 2. Visible imaging and thermal imaging can meet the requirement for 24/7 security monitoring.
- 3.Smart analysis for actions such as tripwire intrusion and area intrusion are available.
- 4. The professional thermographic analysis tools and smart fire detecting algorithm are supported.
- 5. Support multi-event linkage alarm and sound-light alarm.
- 6.One-piece body design with encapsulation level IP66.
- 7.DC12 or PoE power supply is available.



7.The compatible NVR and VMS software are provided, ONVIF&GB28181 standard interface protocol and SDK for secondary development are available.

## **Product Specifications**

Technical Index		IRS-FD225-T				
	Detector Type	VOx, uncooled FPA detectors				
	Spectral Range	8~14µm				
	NETD	≤40mK(@25°C,F#1.0,25Hz)				
	Resolution	256×192				
	Pixel Pitch	12µm				
Thermal	Focal Length	3.2mm	7mm			
morman	Focus Mode	Athermal fixed focus				
	FOV	56.0°×42.2°	24.8°×18.7°			
	F#	1.1	1.0			
	IFOV	3.75mrad	1.71mrad			
	Palette	20 palettes available such as Whitehot/Blackhot/Rainbow.				
	Sensor	5MP 1/2.7" Progressive Scan CMOS				
	Max Resolution	2592×1944				
	Focal Length	4mm	8mm			
	Focus Mode	fixed focus				
	FOV	84°× 60.7°	38°× 28°			
Visible	Min. Illumination	0.0018Lux @(F1.6,AGC ON) ,0 Lux with IR				
	WDR	120dB				
	Day/Night Conversion	ICR auto conversion/ Electronic color to B/W				
	DNR	3D NR				
	Filling Light	Infrared filling light, maximum filling distance 30m				
	Dual-spectrum Fusion	Support the thermal image to fuse visible image to improve the image details				
Dual-spectrum	Temperature	The camera displays a digital camera image with				
	Information Overlay	superimposed thermal imaging thermographic information				

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		IPv4,HTTP,HTTPS,QoS,FTP,SMTP,UPnP,SNMP,DN			
	Network	S,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICM			
	Protocols	P,DHCP			
	Interoperability	ONVIF, GB28181, SDK			
	Number of				
	Videos				
Network	Previewed	Support up to 8 channels			
Notwork	Simultaneously	Support up to o charmers			
	Cimulanoodory				
	User	Up to 32 users, divided into 3 levels: administrators,			
	Management	operators and users			
	D	Support browsers with Chrome kernel such as Google,			
	Browser	Firefox, Edge, Chinese and English are supported			
	Max. Resolution	2592×1944 (visible) , 1280×960 (thermal)			
	Image Format	JPEG			
	Audio				
	Compression	G.711a/G .711u/AAC/PCM			
	Standard				
	Video				
	Compression	H.264/H.265			
	Standard				
		Visible:			
Video		50Hz:25fps(2592×1944, 2560×1440, 1920×1080)			
Video	Main Stream	60Hz:30fps(2592×1944, 2560×1440, 1920×1080)			
		Thermal:			
		50Hz:25fps(1280×960, 1024×768)			
		60Hz:30fps(1280×960, 1024×768)			
		Visible:			
	Sub Stream	50Hz:25fps(704×576, 640×480, 352×288)			
		60Hz:30fps(704×576, 640×480, 352×288)			
		Thermal:			
		50Hz:25fps(640×480, 256×192)			
		60Hz:30fps(640×480, 256×192)			
Tomporofure	Measuring Range	-20℃~+550℃			
Temperature  Measurement	Measuring	±2℃ or ±2% (The larger value shall prevail)			
WICAGAIGITICITE	Accuracy	12 C OI 12 /0 (The larger value shall prevail)			
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	Temperature	Whole frame, spot, line, region, support temperature				
	Analysis	measurement rules and linkage alarms				
	Fire Warning	Support fire detection				
	Smart Video	Alarm trigger recording, disconnection trigger				
	Official video	recording				
		Support triggering alarm and linkage alarm of network				
Smart	Smart Alarming	disconnection, IP address conflict, memory error,				
Functions		illegal access and burn warning.				
	Smart Detecting	Support tripwire intrusion, area intrusion				
	Voice Intercom	Two-way voice intercom				
	Alarm Linkage	Video/ Snapshot/Email/Alarm output/sound and light				
	Davisa Intentas	alarm				
	Power Interface	DC 12V±25% / POE(802.3af)				
	Communication	1 RJ45 10M / 100M self-adaptive Ethernet port				
	Interface	A sharped and is input				
	Audio Input	1 channel audio input				
System	Audio Output	1 channel audio output				
Interface	Alarm Input	1 channel DC 0~5V alarm input				
morrado	Alarm Output	1 channel open relay output				
	Storage Interface	Micro SD memory (maximum 256G)				
	Reset Button	Support				
	RS-485	1 channel RS485, extended Pelco protocols are supported				
	Operating					
	Temperature &	-40℃~+70℃; <95%RH				
	Humidity					
General	Protection Level	IP66				
Specification	Power	<10\\\/				
	Consumption	≤10W				
	Dimension(mm)	Ф129×96				
	Weight	≤0.8kg				

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### **Operating Distance**

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

DD stands for Detecting Distance;

RD stands for Recognizing Distance;

ID stands for Identifying Distance;

Equipped Lens	DD (vehicle)	DD (human)	RD (vehicle)	RD (human)	ID (vehicle)	ID (human)
3.2mm	409m	133m	102m	33m	51m	17m
7mm	894m	292m	224m	73m	112m	36m

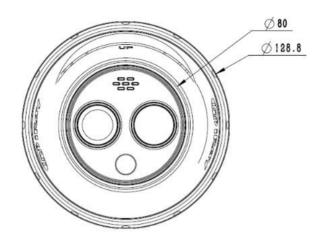
## **Operating Distance of Intelligent Analysis**

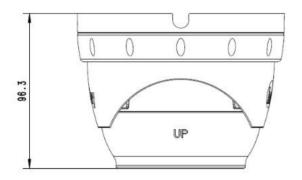
Equipped Lens	RD (Human)	RD (Vehicle)	Temperature Measurement Range (Target size: 2mx2m)	Temperature Measuremen t Range (Target size :1mx1m )	Fire Detection Range (Target size: 2mx2m)	Fire Detection Range (Target size: 1mx1m)
3.2mm	25m	77m	89m	44m	356m	178m
7mm	55m	168m	194m	97m	778m	389m

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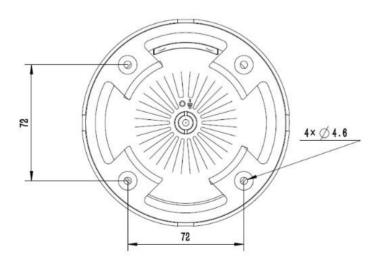


## **Structure Drawings**









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