

Dual-Spectrum Gas Leakage Detection Dome Camera

MS-7PD464G



Product Features

- Clearer and farther image with the latest 12μm infrared detector and leading algorithm.
- Highly sensitive gas cloud imaging for a wide range of VOC and hazardous gas types to quickly locate leaks.
- Visual and thermal dual-spectrum imaging for 24/7 safety surveillance.
- Support intelligent behavior analysis such as dual-spectrum region intrusion and tripwire intrusion, support AI human-vehicle classification.
- Support professional temperature measurement analysis tools and intelligent fire detection algorithm.
- Support multi-event linkage alarm and audible-visible alarm.
- Support intelligent scene configuration, support multiple scanning mode and target tracking.
- Integrated with $\pm 0.05^\circ$ high-accuracy PTZ, 200°/s high rotation speed.

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- All-metal integrated body with IP66 encapsulation rating, support self-sensing wipers.
- Support standard ONVIF protocols, SDK and accompanying NVR and software are available.

Product Specifications

Technical Index		MS-7PD464GC-025E260Z40A	MS-7PD464GF-025E260Z40-A2
Thermal	Sensor Type	VOx, uncooled FPA	
	Spectral Range	8~14μm	
	NETD	≤20mK @25°C, F#1.0	
	Resolution	640x512	
	Pixel Pitch	7.0~8.5μm	10.3~10.7μm
	Lens Focal Length	25mm	
	Focus Control	Auto/Manual	
	FOV	17°x14°	
	Aperture	1.0	
	IFOV	0.48mrad	
	Detection Gas Type	Methane, ethane, propane, butane, pentane, hexane, heptane, octane, ethylene oxide, propylene oxide, 1-butene, methanol, ethanol, butanol, ethylene glycol, isopropanol, ethyl ether, propionaldehyde, benzene, toluene, ethylbenzene, aniline	Sulphur hexafluoride, ammonia, ethylene, vinyl ether, vinyl chloride, trichloroethylene, methyl vinyl ketone, propylene, acrolein, acrylonitrile, ethyl cyanoacrylate, allyl fluoride, allyl chloride, allyl bromide, furans
Color Palettes	20 modes available such as Whitehot/ Blackhot/ Rainbow.		
Visible	Sensor	1/1.8" 4MP CMOS	
	Resolution	2688x1520	
	Focal Length	6.5~260mm	
	FOV	57.6°x33.5°~ 2.9°x1.6°	
	Aperture	F1.61~ F5.19	
	Digital Zoom	Yes	
	Min.Illumination	Color:0.0001 Lux /F1.6; B/W:0.00005Lux/F1.6	
	Defog	Optical defog	
	Image Stabilization	EIS	
	Illumination	IR illuminator, Max illuminating distance: 200m	
PTZ	Pan Range	360° continuous	
	Pan Speed	0.1°~200°/s	

	Tilt Range	-27°~90°, auto flip available
	Tilt Speed	0.1°~120°/s
	Positioning Accuracy	±0.05°
	Presets	1024
	Scan Mode	Preset/Tour/Pattern Scan/Linear Scan/Area Scan/Comprehensive Patrol
	Tour	8 , up to 1024 presets per tour, dwell time configurable
	3D Positioning	Yes
	Power-off Memory	Yes
	Pan-Tilt Limit	Yes
	Privacy Masking	Yes
	Patrol Mode	Yes
	Timed Task	Preset/Tour/Pattern Scan/Area Scan/Linear Scan
	Remote Reboot	Yes
Network	Protocols	IPv4,HTTP,HTTPS,FTP,SMTP,UPnP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP,UDP,IGMP,ICMP,DHCP
	Interoperability	ONVIF, SDK
	Simultaneous Live View	Up to 8 channels
	User Management	Up to 32 users, 3 levels: Administrator, Operator and User
	Browser	Edge, Google Chrome, Mozilla Firefox, etc.
Video	Audio Compression	G.711a/G.711u/AAC/PCM
	Video Compression	H.264/H.265
	Main Stream	Visible: PAL:25fps(2688×1520, 1920×1080) NTSC:30fps(2688×1520, 1920×1080) Thermal: PAL:25fps(2688×1520,1024×768) NTSC:30fps(2688×1520,1024×768)
	Sub Stream	Visible: PAL:25fps(1920×1080,1280×720,704×576,352×288) NTSC:30fps(1920×1080,1280×720,704×480,352×240) Thermal: PAL:25fps(640×512) NTSC:30fps(640×512)
Smart Function	Fire Point Detection (Thermal)	Yes
	Zoom Linkage	Yes

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	Smart Record	Alarm trigger recording, disconnection trigger recording (continue transmission after connection)
	VCA	Tripwire & area intrusion detection, AI human/vehicle classification
	Alarm Linkage	Recording/Snapshot/Sending Email/PTZ linkage/Alarm output
System Interface	Communication Interface	RJ45 self-adaptive 10M/100M Ethernet port 1-channel RS485
	Audio Interface	1-channel input, 1-channel output
	Alarm Interface	7-channel input, 2-channel output
	Storage Interface	Micro SD card (Max.256G)
General	Operating Conditions	-40°C ~+70°C;<95%RH
	Power Supply	DC 24V±15%
	Protection Level	IP66
	Wiper	Rain-sensing wiper
	Power Consumption	Max.48W
	Dimensions(mm)	Φ250×413
	Weight	8kg

DRI Range

The recommended distance of detection, recognition and identification for human (1.8×0.5m) and vehicle (1.4×4.0m) are as follows:

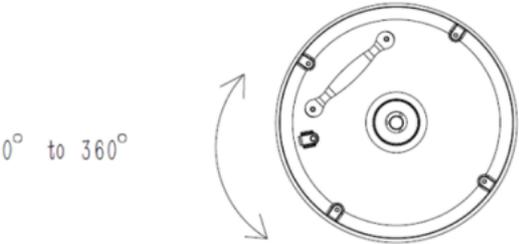
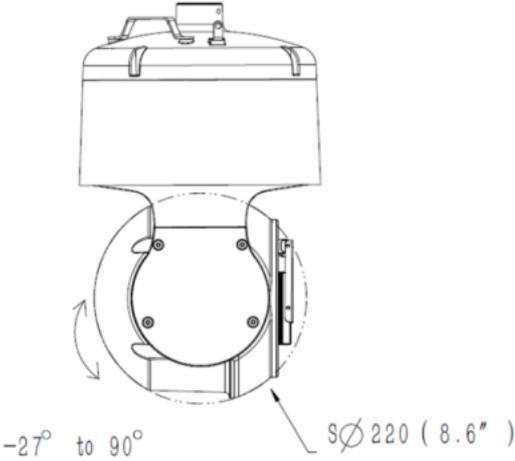
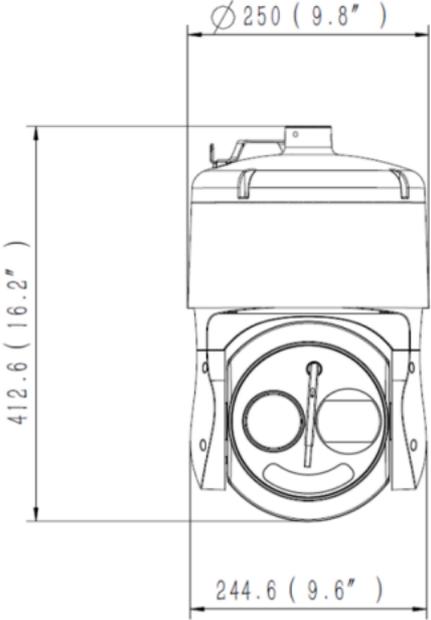
- DD stands for Detection Distance;
- RD stands for Recognition Distance;
- ID stands for Identification Distance;

Lens	DD (Vehicle)	DD (Human)	RD (Vehicle)	RD (Human)	ID (Vehicle)	ID (Human)
25mm	3194m	1042m	799m	260m	399m	130m

***The table is only for reference and the performance may vary according to different environment.**

*** The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.**

Structural Drawings



This datasheet is subject to change without prior notice. Please contact us to get the latest datasheet.