

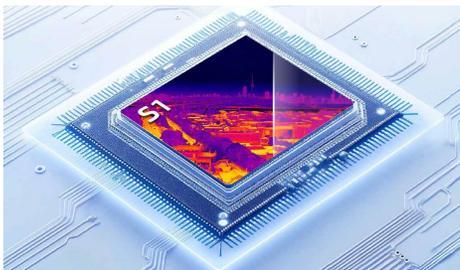
Thermal & Optical Dual-Spectrum Network PTZ Camera

MS-M Series | Smarter Patrol, Earlier Detection

The MS-M Series multispectral thermal PTZ camera is designed for mid-to-long-range surveillance from 3 km to 6 km. Integrating a 12 μm infrared detector with a 4 MP CMOS sensor, it delivers high-definition multispectral imaging and extended fire detection capability. With built-in dual-spectrum smoke and fire detection, tripwire and area intrusion analytics, it enhances situational awareness in forest fire prevention, crop residue burning control, waterway fishing ban enforcement, and border & coastal security. The system supports 24/7 intelligent monitoring, helping reduce manual patrol workload and improve operational efficiency.



Features



High-Definition Imaging

Powered by the ApexVision infrared imaging system with 4 \times thermal super-resolution for improved clarity and fine-detail visibility.



Intelligent AI Analytics

Supports dual-spectrum fire alerts and perimeter intrusion detection. Built on a 10 TOPS computing platform for scalable algorithm architecture based on specific application needs.



Long-Range Detection

Equipped with a 6 mm–336 mm motorized zoom visible lens and compatible with multiple thermal lens options, enabling monitoring distances up to 6 km.



Wide-Area PTZ Coverage

360° continuous pan and -90° to $+40^{\circ}$ tilt provide comprehensive coverage across the monitored area.



Optional Configurations

Optional 800 m laser illumination improves night and low-light imaging. Optional laser rangefinder enables accurate distance measurement.



Easy Maintenance

Detector strong-light protection and IP66-rated housing enhance system reliability while reducing maintenance requirements.

Applications



Forest Fire Prevention



Residue Burning Control



Waterway Protection



Border & Coastal Security

Specifications

Product model	GS-TPC-PTZ26A4C (50mm)	GS-TPC-PTZ26A4C (75mm)	GS-TPC-PTZ26A4C (100mm)
Thermographic			
Core technology	Equipped with full ApexVision S1 system architecture: Detector ApexCore S1 + Platform Nexus 1.0 + Algorithm All-Scenario 1.0		
Detector type	VOx, 8μm to 14μm		
IR resolution	640×512@12μm		
Super resolution	Support real-time super-resolution reconstruction, upgrade to 1280×1024		
NETD	≤15mK@30°C		
Lens	50mm (8.8°×7°)	75mm (5.86°×4.69°)	100mm (4.4°×3.52°)
Focusing mode	Focus-free		
Pseudo colors	9 pseudo colors: White Hot, Black Hot, Rainbow and so on		
Thermal imaging functions	Detail enhancement, 2D/3D noise reduction, Image Flip, Electronic image stabilization (EIS)		
Fire detection distance	3000m (Target size: 2m×2m)	4500m (Target size: 2m×2m)	6000m (Target size: 2m×2m)
Visible light			
Sensor type	1/1.8" CMOS		
Max. resolution	2688×1520		
Min. illuminance	Color: 0.001 Lux @ (F1.6, AGC ON); B/W: 0.0001 Lux @ (F1.6, AGC ON)		
lens	6mm~336mm; horizontal: 66°(near focus)~1.4°(far focus); Vertical: 40.3°(near focus)~0.8°(far focus)		
Illumination	Optional infrared or laser illumination		
Visible light functions	Electronic defog, Optical defog, Heat haze removal, Visible light gain control, 2D/3D noise reduction, Backlight compensation (BLC), Wide dynamic range (WDR), Highlight suppression, Image flip, Exposure compensation		
PTZ			
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: -90° to +40°		
Manual Control Speed	Pan: 0.1°~60°/s; Tilt: 0.1°~40°/s		
PTZ Function	Automatic cruise, Automatic track, Automatic line scan, Power-off memory, Privacy masking, Idle actions, Scheduled tasks, Azimuth display, Preset point video freeze, Wiper control, etc.		
Image			
Video compression	Switch between three standards H.265, H.264 and MJPEG		
Image format	JPEG		
Code stream	Thermal Imaging: main stream 1280×1024/1280×720/640×512, auxiliary stream 640×512/320×256; Visible Light: main stream 2688×1520/2560×1440/1920×1080/1280×720/704×576/352×288, auxiliary stream 1280×720/704×576/352×288		
Protocol and storage			
Network protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; IPv4/v6; NTP		
SDK/API	Open SDK/API for software integration		
Local storage	128G TF card		
System function			
Language version	English		
Browser	Supported		
User management	Max. 20 users with two levels of user accounts (Admin and User)		
Fault detection	Network disconnection detection; IP conflict detection; Storage card status detection; Storage space detection		
Intelligent functions	Tripwire intrusion detection, Area intrusion detection, Fire spot detection, Fire spot localization (platform-assisted), Fire alarm pixel thresholds (multi-level alarm), Smoke detection		
Others	Support optional laser ranging module		
Hardware interface			
Power interface	DC48V±20%		
Network interface	One 100M Ethernet port		
Alarm interface	7 input and 2 output		
Other interfaces	1×RS485, Audio 1-in, 1-out		
Environmental			
Working temperature	-40°C to +70°C		
Encapsulation	IP66		
Physical			
Power consumption	Conventional power consumption ≤ 40W; maximum power consumption ≤ 130W		
Size	407.1mm×514mm×320.1mm		
Net weight	22kg		
Installation mode	Fixed base		

