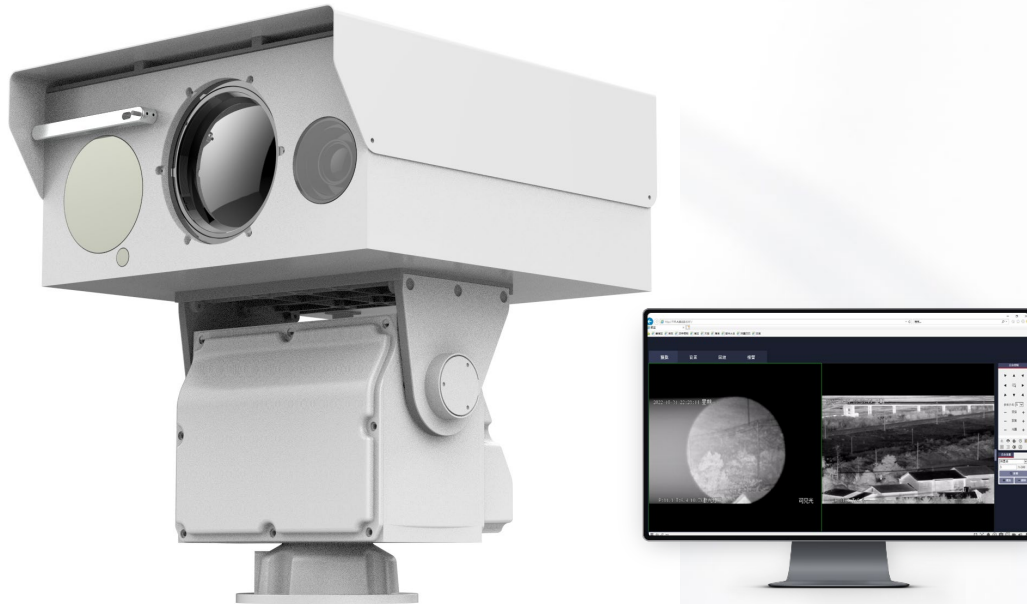


# MSxxxx-H

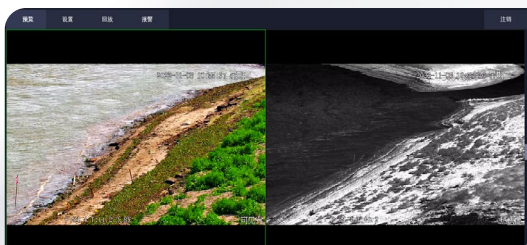
LRF Thermal &  
Optical Bi-spectrum PTZ

5km long-distance monitoring, all-round guarding



## Introduction

MS Series, integrating visible light and infrared light, supplemented by laser fill light, can achieve 24-hour all-round monitoring with the advantages of clear imaging, long-distance observation, strong environmental adaptability, etc. Its monitoring range of 5 km radius helps the target to be easily found in harsh environments like heavy fog, rainstorm, darkness, making it ideal for wide-range security monitoring and law enforcement forensics. At the same time, IP66 rating, the double worm gears of head and a load-bearing capacity of up to 80KG ensure strong overall wind resistance.



## Features and Benefits

- o Self-developed 640×512 IR detector with excellent imaging quality
- o 4 MP visible light resolution for Electronic defog, Optical defog, and Heat wave removal, etc.
- o Adjustable laser fill light from 0.3 °to 35 °, up to 3000 meters
- o Remote upgrade through the network
- o Vertical pitch angle ±60°, horizontal 360°
- o Automatic line scan and panoramic scanning
- o Up to 300 preset points and 8 automatic cruise
- o Multiple alarms and the linkage of input and output

## Applications

Suitable for large-scale long-distance monitoring, such as Yangtze River protection, long-distance straw burning detection, forest fire detection, border defense, safe city, etc.

## Specifications

Product model	MS6150Z-H	MS12180Z-H
Thermographic		
Detector type	VOx	
Detector resolution	640×512	1280×1024
Pixel size	17μm	12μm
Wavelength range	8μm to 14μm	
NETD	≤40mK@30°C	≤50mK@30°C
Lens	30mm~150mm	30mm~180mm
Pseudo colors	9 pseudo colors: White Hot, Black Hot, Rainbow and so on	
Visible light		
Sensor type	1/ 1.8" CMOS	
Max. resolution	2688×1520	
Min. illuminance	Color: 0.05lux @ (F2.8, AGC ON)	
lens	15mm ~ 775mm, horizontal: 29°(near focus)- 0.6°(far focus), 1m ~10m (near focus to far focus)	
Fill light	Laser fill light	
Featured features	Electronic defog, Optical defog, Heat wave removal, Visible light gain control, 2D/ 3D noise reduction, Backlight compensation, Wide dynamic, Strong-light photoinhibition, Image flip, Exposure compensation	
PTZ		
Pan/Tilt Range	Pan: 0° to 360° endless; Tilt: ±45°	
Manual Control Speed	Pan: 0.01 ~ 40°/s; Tilt: 0.01 ~ 20°/s	
PTZ Function	Automatic Cruise, Automatic Line Scanning, Panoramic Scanning, Power Outage Memory, Scheduled Tasks, Guarding Tasks, etc.	
Image		
Video compression	Switch between three standards H.265, H.264 and MJPEG	
Image format	JPEG	
Code stream	Visible light: Mainstream (2688×1520/1920×1080/1280×720), Substream (D1/CIF); Thermal imaging: Mainstream (1280×1024/1280×720), Substream (640×512/320×256)	
Protocol and storage		
Network protocol	IPv4, HTTP, FTP, SMTP, RTSP, RTP, TCP, UDP, DHCP, ONVIF, GB/ T28181	
SDK/ API	Open SDK/ API for software integration	
Local storage	256G TF card	
System function		
Language version	Chinese/ 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, encoder status detection, memory card status detection, storage space detection	
Intelligent functions	Tripwire Intrusion, Area Intrusion, Multiple Triggering Rules Linked Actions, etc.	
Hardware interface		
Power interface	DC 48V	
Network interface	One 10M/ 100M Ethernet port	
Alarm interface	7 input and 2 output	
Other interfaces	1-channel RS485, audio 1 in 1 out	
Environmental		
Working temperature	-40°C to +60°C	
Working humidity	≤90%, non-condensing	
Encapsulation	IP66, salt spray protection	
Physical		
Power consumption	≤210W	
Size	≤494mm×594mm×540mm	
Net weight	≤75kg	
Installation mode	Customized bracket	

