

MS-7PC664C1

Dual-Spectrum PTZ Camera

Dual-Spectrum PTZ Camera is a medium-to-long-range observation and monitoring product that integrates infrared thermal imaging, HD visible light cameras, and an intelligent PTZ into one. The camera is equipped with built-in deep learning algorithms capable of accurately recognizing various targets, including humans, vehicles, vessels and UAVs. It also supports intelligent functions such as fire point detection, tripwire detection, and regional intrusion, effectively improving the accuracy of target recognition at night and in adverse weather conditions. It is suitable for wide-area and remote monitoring scenarios such as coastline and harbor security, forest fire monitoring, urban high-altitude observation and perimeter security.



Industry-Leading Infrared Detector

Adopting the latest uncooled infrared detector or high-performance MWIR cooled infrared detector, and integrated with advanced infrared image algorithms to provide clear imaging at greater distances

Remote Detection

Continuous zoom infrared lenses ranging from 25–225 mm and 35–350 mm for the uncooled version, and an extended 30–660 mm range for the cooled version, to meet remote detection needs

Centimeter-Level Satellite Positioning

Centimeter-level positioning for elevation, latitude, and longitude; supports RTK; azimuth orientation accuracy 0.3°

HD Dual-Spectral Imaging

A maximum thermal imaging resolution of 2 megapixels (1920×1080)
A maximum visible light resolution of 4 megapixels (2688×1520)

Intelligent Video Analysis

Intelligent video analysis, including multi-target AI recognition of humans, vehicles, vessels, UAVs, and fire points, and supporting the video analysis of intrusions, border-crossing intrusions, and area entry/exit detection

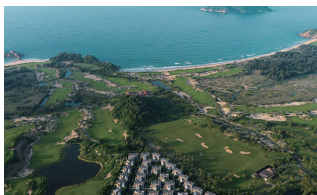
Platform Integration

ONVIF and other standards protocols, and providing an SDK for secondary development

Specifications

Technical Specifications	MS-7PC664C1
Detector Type	T2SL cooled infrared detector
Spectral Band	3.4~5.0μm
NETD	≤20mK@F4.0, 25°C
Maximum Image Resolution	640×512
Pixel Pitch	15μm
Focal Length	30-660mm/88-1100mm
Visible Light Parameters	
Sensor	1/1.8-inch 4 megapixel CMOS image sensor
Maximum Image Resolution	2688×1520
Focal Length	15-775mm/20-1200mm
GNSS	
Satellite Positioning	Satellite location module
PTZ Parameters	
Horizontal Movement	360° continuous rotation, 0.01°~120°/s
Vertical Movement	-90°~+90°, 0.01°~60°/s
Scan Mode	Preset point/Patrol inspection group/Patrol inspection scan/Linear scan/Pattern scan
Intelligent Detection	Tripwire detection, regional intrusion, and other intelligent video analysis functions
Intelligent Recognition	Recognition and tracking of people, vehicles, ships, UAVs
Fire Point Detection	Support
Intelligent Alarm	Abnormality detection and linkage alarm for network cable disconnection, IP address conflict, full memory, memory error, and illegal access
Alarm Linkage	Video taking/Image capture/Email/Linked PTZ/Alarm output
System Interface	
Power	DC 48V±15%
Network	One RJ45 10 M/100 M adaptive Ethernet port
Audio	1-channel audio input, 1-channel audio output
Alarm	7-channel input, 2-channel output
Storage	Micro SD card (up to 1 TB)
Serial Port	1-channel RS485 interface
General Specifications	
Operating Temperature and Humidity	-40°C~+70°C; <90%RH
Ingress Protection Rating	IP66, TVS 6000V, lightning protection, surge protection, and spike protection
Power Consumption	Max.270W
Dimensions	805.6×661.5×585.3mm(W×H×L)
Weight	80kg

Application Scenarios



Coastline and Harbor Security



Forest Fire Monitoring



Urban High-Altitude Observation



Perimeter Security