



# PC5 Series

## Multi-Spectrum PTZ Camera

PC5 multi-spectral PTZ network camera is designed for forest fire prevention and perimeter security. PC5 is equipping a dual thermal/visible light imaging system, with maximum 150mm thermal lens. Laser rangefinder and laser illumination are optional. PC5 is powered by NPU for AI-ISP to increase the performance in low light condition, as well as provides the capabilities to recognize the human, vehicle, vessel, smoke, fire point, working with various patrol mode to enable uninterrupted safety monitoring day and night.



### Industry-Leading Infrared Detector

Adopts the latest 12 $\mu$ m uncooled infrared detector and advanced infrared image algorithms to ensure clear imaging at greater distances.

### Long-Range Detection

Supports 30~150mm continuous zoom lens for thermal imaging cameras and 10~550mm continuous zoom lens for visible light cameras.

### AI-Powered Video Content Analysis

Using AI human/vehicle/vessel recognition for tripewire/intrusion detection.

### Multi-Spectrum

Featuring both long range thermal and visible light imaging, additionally with max. 1.5km laser illumination and 6km laser rangefinder.

### Intelligent Smoke&Fire Detection Algorithm

Support intelligent smoke and fire detection algorithm for efficient and accurate monitoring, as well as reduced false alarms.

### Platform Integration

Support ONVIF, provide SDK&demo for development; provide NVR and VMS software for application.

## Specifications

Technical Specifications	PC564	PC554
	<b>Thermal Module</b>	
Detector Type	VOx, uncooled FPA detector	
Spectral Range	8~14μm	
NETD	≤40mK(@25°C,F#1.0,25Hz)	
Resolution	640×512	1280×1024
Pixel Pitch	12μm	
Focal Length	75/100/150/30~150mm	
Focus Mode	Auto/Manual/One-shot Auto	
	<b>Optical Module</b>	
Sensor	1/1.8 inch 4MP CMOS / 1/1.25 inch 4MP CMOS	
Resolution	2688×1520	
Focal Length	6~336mm/10~550mm	
	<b>Laser Illuminator (Optional)</b>	
Laser Spectral Range	808nm	
Illuminating Distance	800m/1500m	
	<b>LRF (Optional)</b>	
Laser Spectral Range	905nm, 1535nm	
Measurement Distance	2/3/6km	
	<b>PTZ</b>	
Pan	360° continuous, 0.1°~100°/s	
Tilt	-90°~+90°, 0.1°~60°/s	
Scan Mode	Preset/Tour/Area Scan/Linear Scan/Pattern Scan/Comprehensive Patrol	
	<b>Smart Function</b>	
Smoke & Fire Detection (Visible)	Support	
Fire Detection (Thermal)	Support	
Radar Linkage	Support	
Zoom Linkage	Support	
Smart Record	Alarm trigger recording, disconnection trigger recording (continue transmission after connection)	
Smart Alarm	Support alarm trigger of network disconnection, IP address conflict, full memory, memory error, illegal access and abnormal detection	
Smart AI Detection	Support smart video analysis such as tripwire & area intrusion detection, support AI human/vehicle/vessel classification	
Target tracking	Support	
Alarm Linkage	Recording/Snapshot/Sending Email/PTZ linkage/Alarm output	
	<b>System Interface</b>	
Power Supply	DC 48V±15%	
Communication Interface	RJ45 self-adaptive 10M/100M Ethernet port	
Audio Interface	1×input, 1×output	
Alarm Interface	1×input, 1×output	
Storage Interface	Support Micro SD card (Max.512G)	
RS485 Interface	1×RS485	
	<b>General</b>	
Work Environment	-40°C~+70°C; <90%RH	
Protection	IP66, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection	
Certification	CE,ROHS,CE-EMC Test Report, FIPS 140-3 Level 3	
Power Consumption	≤300W	
Dimensions(mm)	623.6×398.5×350	
Weight	30KG	

## Application Scenarios



Urban High-Altitude Observation



Perimeter Surveillance



Forest Fire Prevention



Critical Infrastructure Protection

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■ This manual is illustrative only. Technical specifications are subject to change without prior notice.