

# PC6 Series

## Dual-Spectrum PTZ Camera

PC6 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	PC664A1	PC6S4A1	PC6F4A1	PC664C1		
<b>Thermal Imaging Parameters</b>						
Detector Type	Uncooled VOx infrared detector		T2SL cooled infrared detector			
Spectral Band	8~14μm		3.4~5.0μm			
NETD	≤40mK(@25°C,F#1.0,25Hz)		≤20mK@F4.0, 25°C			
Maximum Image Resolution	640×512	1280×1024	1920×1080	640×512		
Pixel Pitch	12μm		8μm	15μm		
Focal Length	25~225mm/35~350mm		30~660mm/88~1100mm			
<b>Visible Light Parameters</b>						
Sensor	1/1.8-inch 4 megapixel CMOS image sensor					
Maximum Image Resolution	2688×1520					
Focal Length	15~775mm/20~1200mm <b>GNSS</b>					
Satellite Positioning	Satellite location module					
<b>PTZ Parameters</b>						
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					
<b>System Interface</b>						
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					
<b>General Specifications</b>						
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					

\*Focal lengths and product weights vary, please refer to the actual specifications.

## Application Scenarios



Coastline and Harbor Security



Forest Fire Monitoring



Urban High-Altitude Observation



Perimeter Security

## Raythink Technology Co., Ltd.

Company Address: No.5 Wanshoushan Road, Fulaishan Street, Yantai Area of China (Shandong) Pilot Free Trade Zone Postal Code: 264000  
Official Website: <http://www.raythink-tech.com> Service Email: [sales@raythink-tech.com](mailto:sales@raythink-tech.com)

\*The information is for illustrative purposes only. The pictures and technical specifications are subject to change without notice. Sample No.: G2025-PC6-2P001