

4.0 Megapixel IP Thermal Camera, 50m IR Distance, 2688 x 1520p (IP) + 256 x 192 (Thermal), Fire Detection, MicroSD Slot, Ultra H.265, WDR 120dB, IP67



4MP
2688 x 1520p
Resolution



**Ultra
H.265**
Compression



**Built-in Mic
and Speaker**



50M
IR Distance



WDR
Wide Dynamic
Range 120dB



**Fire Detection
by Thermal**



**Deep Learning
Algorithm**



PoE
12V DC

Product information

The IP-TH7500IRP is an integrated dual-sensor IP surveillance camera system. Featuring a high definition visible camera and a high-quality thermal imager, the dual image camera provides simultaneous side-by-side visible and thermal imaging for true 24/7 day/night performance. Integrating these two sensors allows for quick and accurate detection, recognition, and identification of intruders. The network ONVIF IP interface makes this system incredibly easy to manage either on-site or remotely, with multiple transmission and control options available. The optical camera was designed and optimized for long range surveillance. It uses a 1/1.8" progressive scan CMOS sensor with the resolution of 2688x1520p and Wide Dynamic Range with 120dB. The IP-TH7500IRP outputs amazingly clear and detail-rich images with accurate color reproduction.

IP-TH7500IRP

- 1/1.8" progressive scan CMOS-Sensor
- 4.0 Megapixel resolution: 2688 x 1520p (IP)
- Thermal resolution: 256 x 192p (720P)
- Ultra H.265 / H.264 Image Compression Method
- Built-in Microphone and speaker
- Up to 50m Night Vision
- Wide Dynamic Range 120dB
- Thermal & Optical Dual-spectrum image
- Behavior Detection + Fire Detection
- microSD up to 256GB, Audio IO 1/1, Alarm IO 2/1
- Polarity, Overvoltage and Overcurrent protection
- Weatherproof IP67 housing
- 12V DC and Power over Ethernet (max. 12 Watt)

Specifications

Optical Module

Image Sensor	1/1.8" progressive scan CMOS
Maximum Resolution	4.0MP (16:10)
Active Pixel	2688 (H) x 1520 (V)
Minimum Illumination	Color: 0.001Lux (F1.6, AGC on), B/W: 0Lux (IR-LEDs on)
Day/Night	IR-cut filter with auto switch (ICR)
Infrared-LEDs	850nm wavelength, Smart-IR
Lens	4mm@F1.6
Iris	Fixed aperture
Field of View (H*V)	89,9° ~ 49,1°
DORI Distance (4mm)	Detection: 62,1m; Observation: 24,8m; Recognition: 12,4m; Identification: 6,2m
IR Range	Up to 50m IR range
Wavelength	850nm
IR On/Off Control	Auto/Manual
Shutter	Auto/Manual, 1 ~ 1/100.000s
BLC	Supported
WDR	120dB

Thermal Module

Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Maximum Resolution	256 (H) x 192 (V)
Video format	720P (1280 (H) x 720 (V)), Max 30fps
Pixel size	12µm
Response waveband	8~14µm
IFOV	3.75mrad
NETD	≤55mk @f/1.0 @25°C
Lens (focal length)	3.2mm@F1.1
Field of View (H*V)	57.0° ~ 42.0°
Palette	Up to 20 palettes of optional color, including: white hot, lava, iron oxide red, hot iron, medical, arctic, rainbow 1, rainbow 2, rainbow 3, depict hot, ice hot, black hot, mazarine, fusion, red hot, green hot, color 1, color 2, rain, puce
Detection Distance	Vehicle: 316m (target size 4m x 1.4m) Human: 126m (target size 1.8m x 0.5m)
Recognition Distance	Vehicle: 79m (target size: 4mx1.4m); Human: 32m (target size: 1.8mx0.5m)
Identification Distance	Vehicle: 45m (target size: 4m x 1.4m) Human: 18m (target size: 1.8m x 0.5m)

Video

Video Compression	Ultra H.265, H.265, H.264, MJPEG
H.264 code profile	Baseline profile, Main profile, High profile
Frame Rate	Main Stream: 4MP (2688*1520), Max 30fps; Sub Stream: 1080P (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps;
Video Bit Rate	128 Kbps ~ 16 Mbps
Video streams	Triple streams
OSD	Up to 8 OSDs
Privacy Mask	Up to 8 areas per scene

Smart

Fire Detection (thermal module)	Support the detection of fire point in the environment and up to 10 fire points can be detected
Smoking Detection (thermal module)	Support the detection of smoking in the environment and link to alarm
Temperature detection (thermal module)	Support area detection, and link to alarm, the temperature value can be added to the alarm picture Support cold&hot point tracking, timely and clearly shows the abnormal point Up to 12 rules can be set Temperature range: -20°C ~+150°C Temperature accuracy: Max (±8°C/±8%)
Smart intrusion prevention (thermal module)	Support false alarm filtering: Line crossing detection, Intrusion detection, Enter Area, Leave Area Support motor vehicle and pedestrian detection capture and plan arming
Exception Detection	Object left behind detection, Object removed detection, Scene Change Detection

Specifications

Smart intrusion prevention (optical module)	Support false alarm filtering: Line crossing detection, Intrusion detection, Enter Area, Leave Area Support motor vehicle, non-motor vehicle and pedestrian detection capture and plan arming
Audio and light alarm	Support audio and light warning function, with red and blue warning lights built in
Basic Detection	optical module :Motion detection, Audio detection, Tampering alarm thermal module : Audio detection
General Function	Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication
Audio	
Audio Compression	G.711U, G.711A
Two-way audio	Supported, Built in mic and speaker
Sampling Rate	8 KHZ
Storage	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR
Network	
Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS,
Compatible Integration	ONVIF (Profile S, Profile G, Profile T)
User / Host	Up to 32 users. 2 user levels: administrator and common user
Security	Password protection, Strong password, HTTPS encryption, Export operation logs, Basic and digest authentication for RTSP, Digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
Web Browser	Plug-in required live view: IE9+, Chrome 41 and below, Firefox 52 and below
Interface	
Audio I/O	1/1
Alarm I/O	2/2
Serial Port	RS485
Network	RJ45 10M/100M Base-TX Ethernet
General	
Ingress Protection	IP67
Operating Temperature / Humidity	-40°C~70°C, Humidity: ≤95% RH (non-condensing)
Temperature detection working environment	-10°C ~+50°C(-14°F ~ 122°F) , Humidity: ≤95% RH (non-condensing)
Power Consumption	Max. 12W
Input Voltage	12V DC(±25%) or PoE(IEEE 802.3af)
Protection	Support reverse polarity protection, Overvoltage and overcurrent protection , Input short circuit protection
Dimensions (Ø x H)	Φ354mm x 104mm x 116mm
Weight	Appr. 1.85Kg

