



# Dual-Image Thermal Turret Camera with AI

CODE: TURVIP-THERM-5MP-7MM-FW



People & Vehicle Detection



Dynamic Fire Detection



Dual-Image Fusion



Light & Siren Warning

## Thermal Module

Detector Type	12µm 256x192 Vanadium Oxide Uncooled Focal Plane Detector
Response Waveband	8µm to 14µm
Resolution	720P
Noise Equivalent Temperature Difference (NETD)	≤50mK (25°C, F1.0)
Lens	7mm
Focus	Fixed
Field of View	<b>Horizontal:</b> 24.8° <b>Vertical:</b> 18.7°
Minimum Focus Distance	1.1m
Colour Palettes	Black Hot, White Hot, Iron Oxide Red, Rainbow
DRI Distance (People, 0.75m)	<b>Detection:</b> 292m (958ft.) <b>Recognition:</b> 73m (240ft.) <b>Identification:</b> 36m (118ft.)
DRI Distance (Vehicle, 2.3m)	<b>Detection:</b> 894m (2933ft.) <b>Recognition:</b> 224m (735ft.) <b>Identification:</b> 112m (367ft.)

## Optical Module

Image Sensor	1/2.7" CMOS
Video Compression	H.265 / H.264
Resolution	5MP, 4MP, 2K, 4MP 2MP (1 to 25fps)
Electronic Shutter	1/3s to 1/100,000s
Minimum Illumination	0.02 lux at F1.6; 0.03 lux at F2.0; 0 lux with white LED
IR Range	30m
Lens	8mm
Field of View (Stitching)	<b>Horizontal:</b> 38° <b>Vertical:</b> 27.5°
Image Correction	BLC, HLC, WDR, Defog, Digital NR

## Interfaces

Network	RJ45
Audio	1CH 3.5 MIC/LIN in audio input; 1CH built-in microphone; 1CH built-in speaker
Alarm	1CH alarm input; 1CH alarm output



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IP

5MP

## Interfaces (continued)

Storage	Micro SD card slot (supports up to 256GB)
Reset Button	Yes

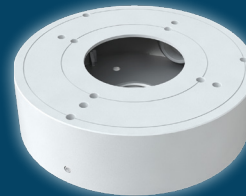
## Functions

Dual-Image Fusion	Thermal & Optical
Temperature Overlay	On Video Stream
Remote Monitoring	SuperLive Plus Mobile App / NVMS (used with Viper NVR)
Online Connection	Simultaneous multi-stream real time transmission
Maximum Users for Monitoring	Up to 10 users (simultaneous)
Network Protocol	UDP, IPv4, IPv6, DHCP, NTP, RTSP, RTP, RTCP, PPPoE, DDNS, SMTP, FTP, SNMP, HTTP, 802.1x, UPnP, HTTPS, HTTP POST, QoS
Interface Protocol	ONVIF
AI Events (Optical)	Line Crossing Detection, Region Intrusion Detection (People & Vehicle), Target Counting, Face Detection, Illegal Parking Detection, Abandoned Object Detection, Loitering Detection
AI Events (Thermal)	Fire Detection, Temperature Exception Alarm, Region Intrusion Detection (People & Vehicle)
Simultaneous AI Operation	Can Be Enabled on Optical & Thermal Channels Simultaneously
Active Deterrent / Warning	White Light & Alarm Sounder

## Parameters & Dimensions

Power Supply	DC12V / PoE
Power Consumption	< 9W
Operating Environment	Temperature: -30°C to +60°C; Humidity: Less than 95% (non-condensing)
Dimensions	Ø111.5mm x 99.6mm
Weight	0.68kg
Protection Grade	IP66, IK10 (Excluding Glass Window) and 6000V Lighting Protection
Certificate	UKCA, CE, FCC, PSTI 2023, RoHS, WEEE, REACH (EC1907/2006)

## Compatible Accessories



**Cable Management Ring**  
CODE: VIP-RING-04-WH



**Wall Bracket**  
CODE: VIP-WALL-BK0203-W