

IK-P6730T-M-A

Thermal & Optical Bi-spectrum Network Speed Dome Camera



Key Features

- Bi-Spectrum: 640 × 512 thermal and 4 MP visible sensors
- 12 μm VOx uncooled thermal sensor, NETD ≤ 20 mK
- 25mm motorized focus thermal lens, 40x optical zoom visible lens
- Supports human/vehicle/ship detection; smoking, smoke and flame detection, and fire spot detection
- Intelligent analytics: intrusion, smart motion detection, single-line crossing, double-line crossing, loitering, wrong-way detection, enter area, leave area, and people counting
- Temperature monitoring and exception alarms
- Smart tracking: cold/hot spot tracking, human/vehicle/ship auto-tracking
- Temperature measurement: spot, line, and area
- Temperature range: -20 °C to 150 °C or 0 °C to 550 °C; accuracy: ±2 °C / ±2%
- Smart IR illumination, up to 300 m
- Smart rain-sensing wiper; NDAA compliant, IP66

Specifications

Camera		
	Thermal	Visible
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	1/1.8" CMOS
Max Resolution	Sensor is 640×512. Image can be scaled up to 1920×1080	2688(H) × 1520(V)
Pixel Pitch	12 μm	N/A
Spectral Range	8 to 14 μm	N/A
NETD	≤ 20mK	N/A
Shutter Speed	N/A	1/5 to 1/20,000s
Min Illumination	N/A	Color: 0.001 Lux @(F1.5, AGC ON), B/W: 0.0005 Lux @(F1.5, AGC ON), 0 Lux with IR on
Day & Night	N/A	Auto (ICR)
Lens		
	Thermal	Visible
Lens Type	Fixed lens	Motorized zoom lens
Focal Length	25 mm	6.27 to 251 mm, 40x optical zoom
Max. Aperture	F1.0	F1.5 to F4.8
Field of View (FOV)	H: 17°, V: 14°	H: 60.7° to 2.33°, V: 36.8° to 1.38°
Focus Control	Motorized focus	Auto / Manual
Illuminator		
Type	IR	
IR wavelength	850 nm	
Distance	Up to 300 m (984.25 ft)	
Control	Auto / Manual	
Intelligent Analytics		
	Thermal	Visible
AI Multi-Target	Supports human/vehicle/ship detection.	Supports human/vehicle detection.
Intelligent Analysis	Intrusion, smart motion detection, single/double line crossing, loitering, wrong-way detection, and enter/leave area. - Supports accurate target classification (human/vehicle)	Intrusion, smart motion detection, single/double line crossing, loitering, wrong-way detection, and enter/leave area. - Supports accurate target classification (human/vehicle)
Smoke and Flame Detection	N/A	Supported
People Counting	Supported	Supported

Smoking Detection	Supported	N/A
Fire Spot Detection	Supported	N/A
Video & Audio		
	Thermal	Visible
Main Stream	1920×1080, 1280×1024, 1280×720, 640×512	2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720
Sub Stream	D1, VGA, 640×512, CIF	D1, VGA
Frame Rate	Up to 25fps	Up to 25/30fps
Bit Rate Control	CBR/VBR	CBR/VBR
Bit Rate	Main stream: 100 Kbps to 12 Mbps, Sub stream: 100 Kbps to 6 Mbps	Main Stream: 100 Kbps to 16 Mbps, Sub Stream: 100 Kbps to 6 Mbps
Smart Encoding	Supported	Supported
Audio Compression	G.711 A-law, G.711 μ -law, RAW_PCM	G.711 A-law, G.711 μ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)	64 Kbps (G.711), 128 Kbps (RAW_PCM)
Image		
	Thermal	Visible
Image Adjustment	Brightness, Contrast, Sharpness	Brightness, Saturation, Contrast, Sharpness
Scene Mode	Mirror	Indoor, Outdoor, Mirror
Pseudo-color Setting	Up to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV / Bone / Cool / Copper / Fire-hot / Pink / Spring / Summer / Autumn / Winter / Jet / Flame / Rose - Bengal)	N/A
FFC Control	Auto / Manual	N/A
Exposure Mode	N/A	Auto / Manual
White Balance	N/A	Auto / Tungsten / Fluorescent / Daylight / Shadow / Manual
Day/Night Setting	N/A	Auto / Day / Night / Timer
Noise Reduction	2D/3D DNR	2D/3D DNR
Image Enhancement	N/A	HLC, BLC, Defog, WDR
Wide Dynamic Range	N/A	True WDR 120dB
OSD	Up to 8 OSD	Up to 8 OSD
Privacy Masking	Supported	Supported
Thermal Function		
Temperature Range	-20°C to 150°C (-4°F to 302°F) or 0°C to 550°C (32°F to 1022°F)	
Accuracy	$\pm 2^\circ\text{C}$ / $\pm 2\%$	
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).	
Temperature Alarm	Supports threshold alarm, temperature difference alarm, range alarm, and temperature rise alarm.	

Temperature Display	Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature
Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
PTZ	
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -10° to 90° (auto-flip)
Pan Speed	Pan: 0.01° to 300°/s, preset speed: 300°/s
Tilt Speed	Tilt: 0.01° to 240°/s, preset speed: 240°/s
Preset Accuracy	≤ 0.2°
Preset	400
Track	6 tracks
Scan	12 scans
Tour	12 tours, up to 32 presets per tour
Intelligent Tracking	Supported (Cold/hot spot tracking, human/vehicle/ship tracking)
Power-Off Memory	Supported
3D Positioning	Supported
PTZ Status Display	Supported
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.
Event	
Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Abnormal sound detection
Event Actions	Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast
Application Programming Interface	ONVIF (Profile S/T/G/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 levels: Administrator, Operator, Media user
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
Security	
OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
User Authentication	Digest authentication, Prevent brute-force attack
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access / System / Event Log management

Supply Chain Security	SBOM
Interface	
Network Interface	RJ-45 Ethernet (10/100BASE-T)
Audio Interface	1 input, 1 output
Alarm Interface	7 inputs, 2 outputs
Control Interface	RS-485
CVBS Output	Supported
SD Card Slot	Built-in MicroSD slot, supports up to 1 TB
General	
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Power Supply	24 VAC / 36 VDC / PoE++ (802.3bt), Standard Equipped: 36VDC
Power Consumption	Max 45 W
Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Operating Humidity	0 to 95% RH (non-condensing)
Ingress Protection	IP66
Wiper	Supported
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-4, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 CE-LVD - EN IEC 62368-1 FCC 47 CFR Part 15 Subpart B
Material	Metal
Dimensions	φ226 × 363 mm (φ8.9 × 14.29 inch)
Net Weight	Approx. 6 kg (13.2 lb)
DORI Distance (EN62676-4 standard)	
Detect	95 to 3,515 m (311.68 to 11,532.15 ft)
Observe	38 to 1,406 m (124.67 to 4,612.86 ft)
Recognize	19 to 703 m (62.34 to 2,306.43 ft)
Identify	9.5 to 351.5 m (31.17 to 1,153.22 ft)
Thermal DRI Distance	
Thermal Lens	25 mm
Detection (Human: 1.8×0.5 m)	1,042 m (3,418.6 ft)
Detection (Vehicle: 4×1.5 m)	3,194 m (10,479 ft)
Recognition (Human: 1.8×0.5 m)	260 m (853 ft)

Recognition (Vehicle: 4×1.5 m)	799 m (2,621.4 ft)
Identification (Human: 1.8×0.5 m)	130 m (426.5 ft)
Identification (Vehicle: 4×1.5 m)	399 m (1,309 ft)

Note:

Distances are calculated based on Johnson's Criteria.

Detection: Object must be covered by ≥ 1.5 pixels.

Recognition: Object must be covered by ≥ 6 pixels.

Identification: Object must be covered by ≥ 12 pixels.

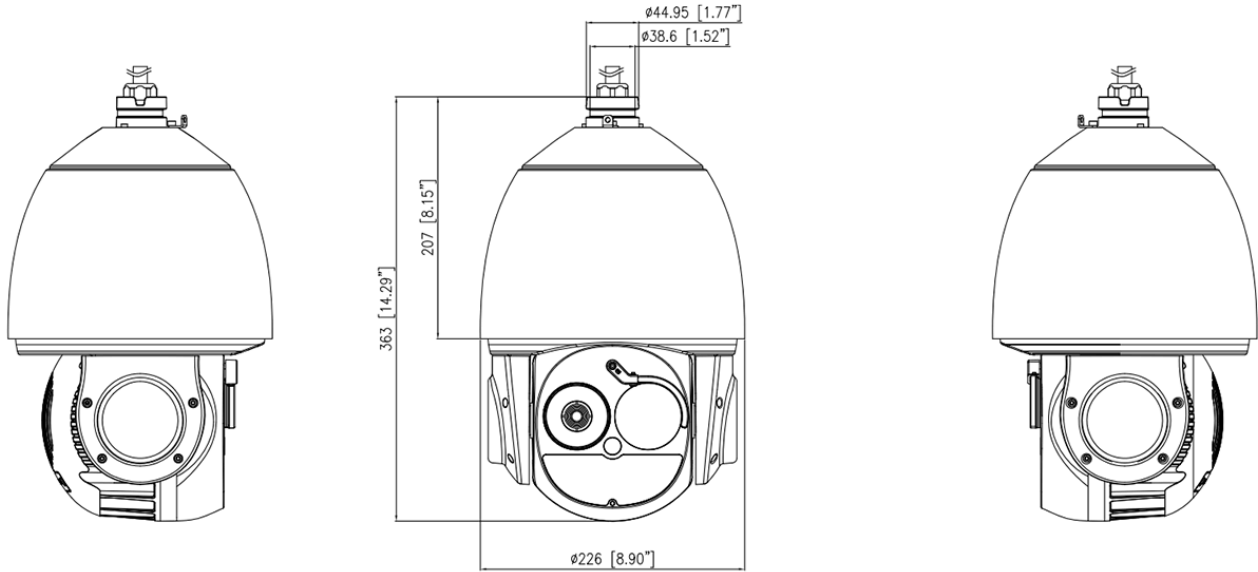
Thermal Smart Detection

VCA Detection (Human: 1.8×0.5 m)	280 m (918.6 ft)
VCA Detection (Vehicle: 4×1.5 m)	420 m (1,378.0 ft)
Temperature Measurement (1×1 m)	417 m (1,368.1 ft)
Temperature Measurement (0.2×0.2 m)	83 m (272.3 ft)
Fire Detection (1×1 m)	1,042 m (3,418.6 ft)
Fire Detection (0.2×0.2 m)	208 m (682.4 ft)
Smoking Detection	55 m (180.5 ft)

Note:

Values are for reference only. Actual detection range may vary with atmospheric conditions, target size, and installation environment.

Dimensions (mm)



Accessories

Included:



Optional:

IK-AC348A Ceiling Mount	IK-AP604B Pole Mount	IK-ACR605 Corner Mount	IK-AJ367 Junction Box	IK-AP359 Pole Mount	IK-ACR358 Corner Mount