

MiniPTZ

Bi-spectral Camera



PRODUCT NAME Mini PTZ

PRODUCT CODE

IIS-BPTM6451-F25 | IIS-BPTM6451-50

PRODUCT CATEGORY

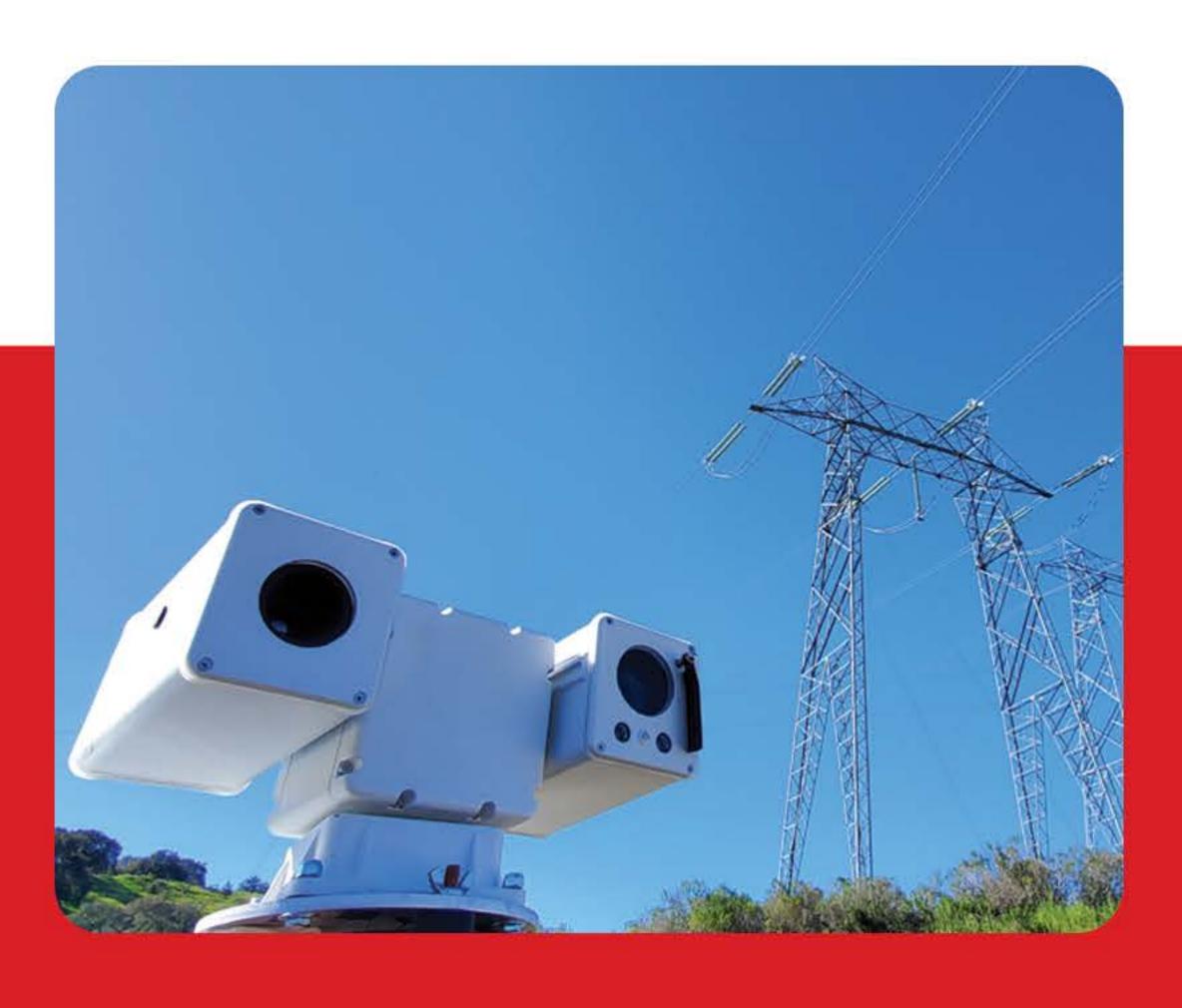
Fixed Camera

PRODUCT PRICE

Contact us for a quote

KEY FEATURES

- 640 x 512 resolution, 12 µm, VOx UFPA, NETD ≤ 40 mK
 Thermal: 25mm motorized lens; Visible: 30x optical zoom module
- Detection capabilities: Human/vehicle, smoke & flame, and fire point detection
- Intelligent analytics: Intrusion, single/double line crossing, loitering, wrong-way, enter/leave area detection, smart motion detection, and people counting
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature monitoring & alarm: -20°C to 150°C (-4°F to 302°F)
- Accuracy: ±2°C / ±2%
- NDAA Compliance, IP66





THERMAL AND OPTICAL MONITORING FOR CRITICAL INFRASTRUCTURE

The Mini PTZ Bi-Spectral Camera offers advanced bi-spectral imaging in within a smaller housing unit. With a monitoring range designed for mid-range coverage, it offers real-time visual and thermal data to support proactive maintenance, safety and security operations.

Designed for performance in any environment, it delivers continuous real-time monitoring and temperature data collection, even in challenging weather conditions. Equipped with a built-in pre-alarm system, the camera enables early detection of anomalies—alerting operators before a failure or catastrophic event occurs. Some other key applications include perimeter and site security, thermal monitoring of utility substations and serveillance for mass transit and more.

Seamlessly integrates into SYTIS systems such as GridSafe™, Vehicle Mounted Units, and Mobile Inspection Units (MIU), making it a versatile choice for scalable remote monitoring solutions. NDAA and NFPA 70B + 70E compliant.

CONTACT US

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TECHNICAL DATA SPECIFICATION

CAMERA	Thermal	Visible
Image Sensor	Uncooled VOx Focal Plane Arrays 640×512	1/2.8" STARVIS CMOS
Resolution	Sensor is 640×512, Image can be scaled up to 704x576 1280×1024	2592 (H)×1520 (V), 4MP
Pixel Pitch	12 micrometers 17 micrometers	
NETD	≤ 40 mK	
Min. Illumination		Color: 0.07 Lux @(F1.6, AGC ON), B/W: 0.007 Lux (F1.6, AGC ON)
Shutter Speed		1/5 to 1/100,000s
Lens Type	Fixed Lens	30x optical zoom
ocal Length	25 mm or 50mm	5.3 to 159 mm
ocus Control	Motorized focus	Auto/Manual/Semi-automatic
Max. Aperture	F1.0	F1.6
Field of View (FOV)	H: 17°, V: 14°	H: 56.3° to 2.7°, V: 33.3° to 1.5°
IVS		
Al Multi-Target	Human and Vehicle detection	Face / Human / Vehicle detection and capture
Intelligent Analysis	Intrusion, Single Line Crossing, Double Line Crossing, Loitering, Wrong-Way Detection, Enter Area, Leave Area, Smart Motion Detection Support alarm triggering by specified target types (human and vehicle)	Intrusion, Single Line Crossing, Double Line Crossing, Loitering, Wrong-Way Detection, Smart Motion Detection Support alarm triggering by specified target types (human and vehicle)
Smoke and Flame Detection		Support
Fire Spot Detection	Support	
People Counting	Support	Support
VIDEO AND AUDIO		
Stream/Frame Rate	Stream1: 1280×1204, 1280×720, 704×576 @25fps Stream2: D1, CIF @25fps	Stream1: 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps Stream2: D1, VGA, CIF @25/30fps Stream3: VGA, CIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR	CBR/VBR
Bit Rate	Stream1: 100 Kbps to 8 Mbps, Stream2: 100 Kbps to 6 Mbps	Stream1: 200 kbps to 12 Mbps Stream2: 100 kbps to 6 Mbps Stream3: 100 kbps to 3 Mbps
Region of Interest	Off/On (8 Zone, Rectangle)	Support
Audio Compression	G.711 A-law, G.711 micrometer-law, PCM	G.711 A-law, G.711 micrometer-law, PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (PCM)	64 Kbps (G.711), 128 Kbps (PCM)
IMAGE		
lmage Setting	Brightness, Contrast, Sharpness	Brightness, Saturation, Contrast, Sharpness
Mirror	Horizontal / Vertical / Horizontal+Vertical	Horizontal / Vertical / Horizontal+Vertical
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)	Ţ.
FFC Control	Auto/Manual	
White Balance		Auto / Tungsten / Fluorescent / Daylight / Shadow / Manual
Day/Night		Auto / Day mode / Night mode / Timer
Noise Reduction	2D/3D DNR	2D/3D DNR
lmage Enhancement		WDR, HLC, BLC, Defog
Wide Dynamic Range		True WDR
OSD	Up to 8 OSD	
Privacy Masking	Support	Support
Illuminator		White light: up to 30m (98.4ft)
Thermal		
Temperature Range	-20°C to 150°C (-4°F to 302°F)	
Field of View	H: 12.4°, V:9.9° H:17°, V:14°	

Accuracy	±2°C / ±2%		
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).		
Temperature Alarm	Temperature difference alarm, Threshold alarm, Temperature rise alarm		
Temperature Display	Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or average temperature		
Response Time	≤ 30ms		
PTZ			
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: +90° to -90°		
Pan/Tilt Speed	Pan: 0.01° to 30°/s, Tilt: 0.01° to 10°/s		
Wiper	Support		
Preset Accuracy	± 0.1°		
Presets	400		
Scan	8 scans		
Patrol	12 patrols, up to 32 presets per patrol		
Track	6 Tracks		
3D Positioning	Support		
Speed Setup	Auto/Manual (0-8)		
Power Off Memory	Support		
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.		
SMART FUNCTION			
Alarm Triggers	IVS, Temperature anomaly, Motion detection	n, Alarm Input, Disk alarm, Network	
Events Actions	alarm, Abnormal sound detection Alarm out, Audible alarm, Alarm record, SMTP, FTP upload		
NETWORK			
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RTSP/RTP/RTCP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, 802.1x, SNMP, Multicast		
Compatible Integration	ONVIF (Profile S/T/G/M), CGI, SDK		
User/Host Level	Up to 10 users, 3 levels: Administrator, Operator, Media user		
Security	IP address filter, encrypted HTTPS, Illegal login lock, IEEE 802.1x		
Web Viewer	IF address filter, encrypted HTTPS, filegal login lock, feet 802.ix <ie11, chrome,="" edge<="" firefox,="" microsoft="" p=""></ie11,>		
INTERFACE			
Network Interface	2 Ethernet (10/100 Base-T) RJ-45 Connecto	or	
Audio Interface	1ch audio In, 1ch audio out		
Alarm Interface			
Alarm Interface RS485	1ch alarm out		
RS485 SD Card Slot	1ch alarm out		
RS485 SD Card Slot Reset Button	1ch alarm out 1 Built-in, up to 256GB		
RS485 SD Card Slot Reset Button GENERAL	1ch alarm out 1 Built-in, up to 256GB		
RS485 SD Card Slot Reset Button	1 Built-in, up to 256GB Built-in	s than 90% RH	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Les English, Chinese, Polish, Italian, Portuguese,		
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Les		
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Les English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English	Spanish, Russian, French, +A11:2020, EN 50130-4:2011+A1:2014,	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)	Spanish, Russian, French, +A11:2020, EN 50130-4:2011+A1:2014, 0-3-2:2019, EN 61000-3-3:2013+A1:2019)	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Les English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014) IP66	Spanish, Russian, French, +A11:2020, EN 50130-4:2011+A1:2014, 0-3-2:2019, EN 61000-3-3:2013+A1:2019)	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection Dimensions	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014)	Spanish, Russian, French, +A11:2020, EN 50130-4:2011+A1:2014, 0-3-2:2019, EN 61000-3-3:2013+A1:2019)	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection Dimensions Net Weight	1ch alarm out 1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014 IP66 323 ×192.5 ×177mm (12.7 × 7.58 × 6.97 inch) 5Kg (11.0lb)	Spanish, Russian, French, +A11:2020, EN 50130-4:2011+A1:2014, 0-3-2:2019, EN 61000-3-3:2013+A1:2019)	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection Dimensions Net Weight Material	1ch alarm out 1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014 IP66 323 ×192.5 ×177mm (12.7 × 7.58 × 6.97 inch) 5Kg (11.0lb) Metal	Spanish, Russian, French, 7+A11:2020, EN 50130-4:2011+A1:2014, 100-3-2:2019, EN 61000-3-3:2013+A1:2019))	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection Dimensions Net Weight Material DETECTION RANGE	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014 IP66 323 ×192.5 ×177mm (12.7 × 7.58 × 6.97 inch) 5Kg (11.0lb) Metal	Spanish, Russian, French, 7+A11:2020, EN 50130-4:2011+A1:2014, 10-3-2:2019, EN 61000-3-3:2013+A1:2019))	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection Dimensions Net Weight Material DETECTION RANGE Detection Distance Fire(1*1m)	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014 IP66 323 ×192.5 ×177mm (12.7 × 7.58 × 6.97 inch) 5Kg (11.0lb) Metal 25mm 1042m	Spanish, Russian, French, +ATT:2020, EN 50130-4:2011+AT:2014, 00-3-2:2019, EN 61000-3-3:2013+AT:2019)) 50mm 1471m	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection Dimensions Net Weight Material DETECTION RANGE Detection Distance Fire(1*1m) Detection Distance Man(1.8*0.5m)	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014 IP66 323 ×192.5 ×177mm (12.7 × 7.58 × 6.97 inch) 5Kg (11.0lb) Metal 25mm 1042m 1040m	Spanish, Russian, French, (+ATT:2020, EN 50130-4:2011+AT:2014, 100-3-2:2019, EN 61000-3-3:2013+A1:2019)) 50mm 1471m 1471m	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection Dimensions Net Weight Material DETECTION RANGE Detection Distance Fire(1*1m) Detection Distance Wan(1.8*0.5m) Detection Distance Vehicle(4*1.5m)	1ch alarm out 1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014 IP66 323 ×192.5 ×177mm (12.7 × 7.58 × 6.97 inch) 5Kg (11.0lb) Metal 25mm 1042m 1040m 3194m	Spanish, Russian, French, 2+ATI:2020, EN 50130-4:2011+A1:2014, 10-3-2:2019, EN 61000-3-3:2013+A1:2019) 50mm 1471m 1471m 4510m	
RS485 SD Card Slot Reset Button GENERAL Power Consumption Working Temperature / Humidity Web Language Power Supply Certifications Ingress Protection Dimensions Net Weight Material DETECTION RANGE Detection Distance Fire(1*1m) Detection Distance Man(1.8*0.5m)	1 Built-in, up to 256GB Built-in Max 40 W -30°C to 60°C (-22°F to 140°F) Humidity: Less English, Chinese, Polish, Italian, Portuguese, Czech, Hungarian. Default: English DC24V CE-EMC (EN 55032:2015+A1:2020, EN 55035:2017 EN 61000-6-3:2007+A1:2011+AC:2012, EN IEC 6100 FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014 IP66 323 ×192.5 ×177mm (12.7 × 7.58 × 6.97 inch) 5Kg (11.0lb) Metal 25mm 1042m 1040m 3194m 260m	Spanish, Russian, French, (+ATT:2020, EN 50130-4:2011+AT:2014, 100-3-2:2019, EN 61000-3-3:2013+A1:2019)) 50mm 1471m 1471m	



Dimensions (mm)

