

# VPA544-B460-M3

DUAL VISION PTZ INTEGRATED THERMAL CAMERA

**Infinova**<sup>®</sup>



## FEATURES

- Dual vision thermal camera, integrated structure, day and night uninterrupted monitoring
- With international advanced uncooled polysilicon, thermal detector 640x512 pixels
- Continuous zoom lens, electric focus to obtain clearer night vision images
- Integrated temperature detection module, real-time analysis of forest temperature changes, automatic fire warning
- Built with large multiple zoom lens, it can get clear images from a distance.
- Can adapt to bad weather, it can take clear images even in the dark, rain, snow, fog, soot environment.
- Adopts advanced reinforcement treatment, it's dustproof, rain proof, vibration resistant, impact resistant
- The target location can be determined with GIS system, accuracy of 0.01 degree.
- Target automatic tracking, locking the target and tracking its trajectory.
- Maximum temperature display, mouse specified position temperature display, multi-mode temperature measurement alarm.
- Thermal distance of monitoring 3km Night vision and 10km day vision distance

# DESCRIPTION

VPA544-B460-M3 dual-view PTZ integrated thermal camera is equipped with high-definition visible light and infrared thermal imaging movements, high-definition visible light plus high-precision infrared thermal imaging dual monitoring, and is also equipped with a 360 ° rotating gimbal, which has a wider monitoring range. The operating temperature is -40°C~+70°C, and the application field is more diversified.

It can be used for forest fire monitoring, river and lake, oil field, port and wharf, cities, tourist attractions, border, substation, nuclear power plant, petrochemical industry, urban high-altitude lookout, airport runway and so on.

# TECHNICAL SPECIFICATIONS

<b>Lens (Visible)</b>	
Image Sensor	1/1.8" high-performance CMOS
Optical Zoom	60X
Digital Zoom	60X
Focal Length	f=12.5~750mm
Iris	DC drive
Focus	Automatic/manual
FOV(H/V/D)	-
Lens Mount	-
<b>Lens (Thermal)</b>	
Imager Type	Uncooled FPA Detectors
Lens Type	Zoom lens
Spectral Band	8-14um
Pixel Size	17um
NETD	50mk (@25°C, F#=1.0)
Focal Length	25-100mm
FOV	H:6.23°~31°; V:4.99°~24.9°
Palette	Iron red, rainbow, white heat, black heat etc. 18 types.
<b>Video</b>	
Camera Resolution (Visible Lens)	4MP
Camera Resolution (Thermal Lens)	640x512
Max. Coding Capacity (Visible Lens)	30fps@2560x1440
Max. Coding Capacity (Thermal Lens)	640x512
Data Rate	64kbps~8192kbps
Video Compression	H.265/264/BP/MP/HPMJPEG/SDL
Multi-Streaming	Three-stream independent output
Video Rotation	Video can be rotated by180°
<b>Audio</b>	
Audio Compression	G.711a/G.711u/AAC
Sample Rate	-
Audio Interface	1 Input, 1 Output
Two-way Audio	-
Mic & Speaker	-
<b>Image</b>	
Shutter	Auto/Manual
WDR	Support
Exposure	-
Sensitivity	Color mode: 0.002 Lux B&W mode: 0.0001 Lux
White Balance	Support

Video Adjustment	Support
Noise Reduction	3D
S/N Ratio	52dB
Defog	Available
EIS	Available
Mirror	Available
Corridor Mode	Support
Day/Night Switching	ICR
AGC	Auto/Manual
BLC	Available
HLC	Available
Privacy Mask	-
ROI	Support
OSD	Support
<b>Pan/Tilt Functions</b>	
Preset	256
Pattern	-
Autopan	Support
Normal Tour	Programmable, 6 cruise ways
Home Return	Support
Timing Tour	Support
Autoscan	Support
Area Zoom	Support
<b>IR Illumination</b>	
Smart-IR	Support
Wave Length	808nm
Night Vision Distance	3 km
<b>Temperature Measurement</b>	
Screening Function	Support
Measurement	Method- Support point temperature measurement, line temperature measurement, area temperature measurement and other temperature measurement methods. Abnormal Temperature - Above maximum/ below minimum/between/beyond Smoke Recognition - Support Other Features - Fire, fire point monitoring
Measurement Distance	10KM
Measurement Range	-20°C~+150°C
Accuracy	±10°C or ±20% of reading (maximum value)
<b>Smart Analytics</b>	
Video Analytics	Intelligent Detection- Cross-border detection, access to areas detection, out of area detection
<b>Storage</b>	
Storage Slots	Support a single card

# TECHNICAL SPECIFICATIONS

Built-in Storage	Up to 256GB
NAS Storage	Support
Local PC Recording	Available
<b>Alarm</b>	
Alarm Ports	1 alarm output
Alarm Input	1 alarm input
Alarm Association	Support network cable break, IP address conflict, memory full, memory error and linkage alarm.
<b>System Functions</b>	
Operating System	Win 10 and higher versions
Browser	IE10 and higher versions
Access Protocol	ONVIF, RTSP, TCP/IP
Multiple Access	Support
Web Server	Support
Remote Upgrade	Support
Password Protection	Support
RS485 Port	Support
Analog Video Output	Support
Maximum Number of Users	10
Wiper	Support
<b>Network</b>	
Network Interface	1 RJ45 10M/ 100M self-adaptive Ethernet port
Network Protocols	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
IP Address Filtering	Support
Network Delay	<200ms

<b>Environmental</b>	
Anti-Static	8KV
Surge Protection	4KV
Operating Temperature	-40°F~158°F (-40°C~+70°C)
Storage Temperature	-40°F~185°F (-40°C~+85°C)
Operating Humidity	≤ 95% RH
Environmental Rating	IP67
Impact Resistance	-
<b>Mechanical</b>	
Manual Speed	Pan: 0.01° ~30°/s; Tilt: 0.01° ~ 30°/s
Preset Speed	Pan: 0.01° ~30°/s; Tilt: 0.01° ~ 30°/s
Rotation Angle	Pan: 360°; Tilt: -45° ~ 45°
Preset Accuracy	0.1°
Electric Motor	Stepper motor
<b>Electrical</b>	
Power Supply	24VDC /24VAC
Power Consumption	<150W
<b>Physical</b>	
Product Dimension (L×W×H) or (H x D)	750mmx443mmx180mm
Package Dimension (L x W x H)	760mmx453mmx190mm
Unit Weight	39.68lbs. (18Kg)
Shipping Weight	55.11lbs. (25Kg)
<b>Certifications</b>	
Product Certifications	

# ORDERING INFORMATION

VPA544- B460-M3	HD Dual Vision PTZ Integrated Thermal Camera, Temperature measurement range -20°C ~+150°C, Accuracy±10°C, Thermal module (640x512, 25-100mm lens), Visible module (4MP, 60X, 12.5~750mm lens), IP67, 24VAC/24VDC
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