VPA544-A2 SERIES

DUAL VISION PTZ THERMAL CAMERA

Infinova®

FEATURES

- It can measure temperature independently, not depending on the construction of the back-end platform.
- Temperature measurement range-40°C~ +500°C, accuracy ±2°C
- Equipped with 360 ° rotating PTZ, wider monitoring range.
- Supports abnormal temperature and cross-border intrusion warning, supports fire and fire point intelligent analysis.
- Stellar image quality, realizes extremely low-light good-quality imaging

DESCRIPTION

The dual-view infrared thermal PTZ 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 front-end can measure temperature independently and doesn't depend on the construction of the back-end platform. The operating temperature is -40°C ~+70°C, and the application field is more diversified. It supports access to the user's back-end management platform. The scene is optimized for targeted images. It's widely used in indoor and outdoor environmental monitoring, industrial temperature measurement and other fields.

TECHNICAL SPECIFICATIONS

Lens (Visible)

Image Sensor	1/2.8" Progressive scan CMOS
Optical Zoom	32X
Digital Zoom	12X
Focal Length	f=5.9mm~188.8mm
Iris	F1.5-3.4
Focus	Automatic/Manual
FOV(H/V/D)	59.8-2.3°
Lens Mount	-

Lens (Thermal)

Imager Type	Uncooled FPA Detectors
Lens Type	Fixed
Spectral Band	8~14μm
Pixel Size	17um
NETD	50mk (@25°C, F#=1.0)
Focal Length	13mm (19mm, 25mm, 50mm and other lenses are optional)
FOV	19mm: 32° x 26°, 13mm: 25° x 19°

Video

Camera Resolution (Visible Lens)	2MP ,1920*1080
Camera Resolution (Thermal Lens)	640*512, 336*256
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265- 30fps@1920×1080 Minor stream: H.264/H.265- 30fps@1280x720
Max. Coding Capacity (Thermal Lens)	640X512@30fps/336X256@30fps
Data Rate	32Kbps~4096Kbps
Video Compression	H.265/H.264 independent coding
Multi-Streaming	Four- streams (Two- streams for thermal camera, Two- streams for visible camera)
Video Rotation	Vertical /Horizontal

Audio

Audio Compression	G.711u/G.722
Sample Rate	8KHz
Audio Interface	1ch Audio In, 1ch Audio Out
Two-way Audio	Available
Mic & Speaker	-

Image

Shutter	Manual / Auto
WDR	Support
Exposure	-
Sensitivity	Color: 0.01 Lux@ (F1.5, AGC ON) B&W: 0.001 Lux@ (F1.5, AGC ON)
White Balance	Support
Video Adjustment	-

Noise Reduction	3D
S/N Ratio	>52dB
Defog	Support
EIS	-
Mirror	Support
Corridor Mode	-
Day/Night Switching	Manual / Auto
AGC	Support
BLC	Support
HLC	Support
Privacy Mask	Support
ROI	Support
OSD	Support

Pan/Tilt Functions

Preset	128
Pattern	6, >120s for each pattern
Autopan	-
Normal Tour	6
Home Return	-
Timing Tour	-
Autoscan	-
Area Zoom	Support

IR Illumination

Smart-IR	Yes
Wave Length	850nm
Night Vision Distance	60m

Temperature Measurement

Screening	Yes
Function	Wide range of ambient temperature test
Measurement	Support point temperature measurement, line temperature measurement, area temperature measurement and other temperature measurement methods.
Measurement Distance	Based on the different lens
Measurement Range	−40°C~+500°C
Accuracy	±2°C or ±2% of reading (maximum value)

Smart Analytics

Video Analytics	Cross-border detection, access to areas detection, out of area detection Smoke Recognition

Storage

Storage Slots	Support a single card
Built-in Storage	Up to 256GB
NAS Storage	Support
Local PC Recording	Available

Alarm

Alarm Ports	1ch Alarm In, 1ch Alarm Out

TECHNICAL SPECIFICATIONS

Alarm Input	Temperature Alerts:4 temperature rules (above high, below low, between, beyond), and support area temperature comparison Smart Functions: Fire potential alarm, foreign object intrusion alarm, trip wire, out of bounds, intrusion alarm Image Fusion: Supports visible light and infrared fusion
Alarm Association	Support
System Functions	
Operating System	CPU requirements: I5 dual core 2.5G and above Memory requirements: 4G No graphics card required win7 or win10
Browser	Internet Explorer
Access Protocol	ONVIF, SDK
Multiple Access	6
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	-
Analog Video Output	-
Maximum Number of Users	300
Wiper	-
Network	
Network Interface	1*RJ45 10/100M self-adaptive Ethernet port
Network Protocols	ICMP, TCP, UDP, RTP, RTSP, DHCP, PPPOE, UPNP, DDNS, ONVIF, FTP
IP Address Filtering	Support

Network Delay	<200ms
Environmental	
Anti-Static	Air discharge: 12KV, contact protection: 8KV
Surge Protection	Difference mode: ±1KV, common mode: ±2KV
Operating Temperature	−40°C ~ 70°C (-40°F ~ 158°F)
Storage Temperature	−40°C ~ 70°C (-40°F ~ 158°F)
Operating Humidity	≤ 95% RH
Environmental Rating	IP66
Impact Resistance	-
Mechanical	
Manual Speed	Pan: 0.1° ~100°/s; Tilt: 0.1° ~ 60°/s
Preset Speed	Pan: 0.1° ~100°/s; Tilt: 0.1° ~ 60°/s
Rotation Angle	Pan: 360°; Tilt: -90° ~ 90°
Preset Accuracy	<±0.1°
Electric Motor	Stepping motor
Electrical	
Power Supply	24VAC/24VDC
Power Consumption	≤45W
Physical	
Product Dimension (L×W×H) or (H x D)	351.6mm*258.8mm*275.8mm
Package Dimension (L x W x H)	450mm*355mm*440mm
Unit Weight	≤8kg
Shipping Weight	≤8.2kg
Certifications	
Product Certifications	CE; FCC; IP66

ORDERING INFORMATION

VPA544-A213-M1	HD Dual Vision PTZ Thermal Camera, Temperature measurement range-40°C ~+500°C, Accuracy±2°C, IR module (13mm lens), Visible module (2MP, 32X, 5.9mm~188.8mm lens), IP66, 24VAC
VPA544-A219-M1	HD Dual Vision PTZ Thermal Camera, Temperature measurement range-40°C ~+500°C, Accuracy±2°C, IR module (19mm lens), Visible module (2MP, 32X, 5.9mm~188.8mm lens), IP66, 24VAC
VPA544-A225-M1	HD Dual Vision PTZ Thermal Camera, Temperature measurement range-40°C ~+500°C, Accuracy±2°C, IR module (25mm lens), Visible module (2MP, 32X, 5.9mm~188.8mm lens), IP66, 24VAC
VPA544-A250-M1	HD Dual Vision PTZ Thermal Camera, Temperature measurement range-40°C ~+500°C, Accuracy±2°C, IR module (50mm lens), Visible module (2MP, 32X, 5.9mm~188.8mm lens), IP66, 24VAC
Accessories	
Power Supply	
N3922-24A-3	AC to AC Power Supply, Plug-In, 230VAC, Output 24VAC, 3A