VPA141-A4 SERIES

HD DUAL- SPECTRUM EXPLOSION-PROOF THERMAL CAMERA





FEATURES

- Ex d II C T6 Gb/Ex tD A21 IP68 T80°C
- Maximum Image Size: 400×300
- Sensitivity: 40mK @F1.0
- Temperature measurement range: -20°C ~+150°C / -0°C ~+550°C
- Temperature Measurement Accuracy ±2°C or ±2% of reading (maximum value)
- Support spot, line, polygon area and full screen temperature measurement.
- Support over temperature alarm, temperature difference alarm, temperature range alarm and other alarm modes.
- Support black hot, white hot, iron red and rainbow, up to 17 color modes.
- Visible camera: 2.7-13.5mm optical zoom
- 1/2.8" CMOS
- 4MP
- 316L stainless steel

DESCRIPTION

The dual-view infrared 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.

The system uses 316L stainless steel to ensure its good explosion-proof performance in hazardous areas. It has an absolute operating temperature range of -20°C~150°C or -0°C~550°C. This camera is properly sealed to prevent the intake of flammable dust and ensure strong corrosion-resistant capabilities.

It's suitable for containing combustible dust mixture environment. Such as: petroleum, chemical, mining, military, medicine, oil depot, ships, drilling platforms, gas stations, fireworks production, food processing, storage and so on.

TECHNICAL SPECIFICATIONS

Image Sensor Optical Zoom Digital Zoom Focal Length Iris ICR Focus FOV(H/V/D) Lens Mount Lens (Thermal) Imager Type Lens Type Spectral Band Pixel Size Normal Alpm Pixel Size Iron red, rainbow, white heat, black heat, etc. 17 types. Video Camera Resolution (Visible Lens) Camera Resolution (Visible Lens) Max. Coding Capacity (Visible Lens) Max. Coding Capacity (Thermal Lens) VBR/CBR Data Rate Major stream: 128kbps~10240kbps Minor stream:	Lens (Visible)	
Digital Zoom Focal Length Iris Focus Focus FOV(H/V/D) Lens Mount Lens (Thermal) Imager Type Lens Type Spectral Band Pixel Size FOV H25° x V19° (15mm) Palette Video Camera Resolution (Thermal Lens) Capacity (Visible Lens) Capacity (Thermal Lens) Max. Coding Capacity (Thermal Lens) Video Compression Multi-Streaming Video Rotation Audio Audio Compression Sample Rate Audio Interface Two-way Audio Piox India Mount FOX Horizontal: 87.5°~26°, vertical: 64.8°~19.9° C/2 CS Mount Lens (Fe. 2.7°~218.5°) Lens (Fox Vine) Lens (CC) CAR Overtical: 87.5°~26°, vertical: 64.8°~19.9° CAS (Fox Vine) C		1/2.8" progressive scan CMOS
Focal Length Iris ICR Focus FOV(H/V/D) Horizontal: 87.5 °~26 °, vertical: 64.8 °~19.9 ° C/CS Mount Lens (Thermal) Imager Type Lens Type Spectral Band Pixel Size FOV Horizontal: 87.5 °~26 °, vertical: 64.8 °~19.9 ° C/CS Mount Lens (Thermal) Imager Type Lens Type Fixed Spectral Band S-14µm Pixel Size FOV Homk (@F#=1.0) Focal Length FOV H25° x V19°(15mm) Palette Video Camera Resolution (Visible Lens) Camera Resolution (Thermal Lens) Max. Coding Capacity (Visible Lens) Max. Coding Capacity (Thermal Lens) Max. Coding Capacity (Thermal Lens) VBR/CBR Data Rate Major stream: 128kbps~10240kbps Minor stream: 128kbps~4096kbps Video Compression Multi-Streaming Video Rotation Audio Audio Compression Sample Rate Audio Interface Toka Mount F2.7~13.5mm Incream: 64.8 °~19.9 ° C/CS Mount Lens (C/CS Mount Lens) Horizontal: 87.5 °~26 °, vertical: 64.8 °~19.9 ° C/CS Mount Lens (C/CS Mount Lens) Horizontal: 87.5 °~26 °, vertical: 64.8 °~19.9 ° C/CS Mount Lens (C/CS Mount Lens (O/CS Mount Lens (O/CS Mount Lens (O/CS Mount Audio (C/CS Mount Lens (O/CS Mount Lens (O/CS Mount Audio (Compression Sample Rate Audio Interface Toka Mount Available	Optical Zoom	5X
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Capacity (Thermal Lens) VBR/CBR Data Rate Major stream: 128kbps~10240kbps Minor stream: 128kbps~4096kbps Video Compression Multi-Streaming Three - stream independent output Video Rotation Audio Audio Compression Sample Rate Audio Interface Two-way Audio Available 400x300 VBR/CBR Major stream: 128kbps~10240kbps Minor stream: 128kbps~4096kbps Minor stream: 128kbps~409	Capacity (Visible	2304x1296, 1920x1080, 1280x720 25/30fps Minor stream: D1 VGA 640x360 CIF QVGA 25/30fps
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Compression Multi-Streaming Video Rotation Audio Audio Compression Sample Rate Audio Interface Two-way Audio H.265/H.264/MJPEG H.265/H.264/MJPEG H.265/H.264/MJPEG Free - stream independent output Support G.711, RAW_PCM S.711, RAW_PCM SAMPLE AUDIO In, 1ch Audio Out Two-way Audio Available	Data Rate	Major stream: 128kbps~10240kbps
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Audio Audio Compression Sample Rate Audio Interface Two-way Audio Audio Available G.711, RAW_PCM SKHz Audio Interface 1 ch Audio In, 1 ch Audio Out Available	Multi-Streaming	Three - stream independent output
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Two-way Audio Available	Sample Rate	8KHz
•		
Mic & Speaker -	•	Available
	Mic & Speaker	-

Image	
Shutter	Auto/Manual (1/5s ~ 1/20000s)
WDR	Up to 96 dB
Exposure	Auto/Manual
·	Color mode: 0.01lux (F1.6, AGC ON);
Sensitivity	B&W mode: 0 Lux (IR ON)
White Balance	Auto
Video Adjustment	Brightness, contrast, hue, sharpness
Noise Reduction	Auto/Manual 2D,3D
S/N Ratio	≥55dB
Defog	Available
EIS	Available
Mirror	Support
Corridor Mode	Support
Day/Night Switching	ICR
AGC	Available
BLC	Available
HLC	Available
Privacy Mask	Up to 5 definable zones
ROI	Available
OSD	Temperature, Time, Date, Channel
Pan/Tilt Functions	
Preset	-
Pattern	-
Autopan	-
Normal Tour	-
Home Return	-
Timing Tour	-
Autoscan	-
Area Zoom	-
IR Illumination	
Smart-IR	Yes
Wave Length	8~14µm
Night Vision Distance	30m
Temperature Measure	ement
Screening	Yes
Function	Wide range of ambient temperature test
Measurement	Method- Point temperature measurement, line temperature measurement, polygon area temperature measurement, full screen temperature measurement Temperature alarm - Over temperature alarm, temperature difference alarm, temperature interval alarm
Measurement	Based on the different lens
Distance	based on the american ichs

TECHNICAL SPECIFICATIONS

Measurement Range	-20°C ~ +150°C /0°C-550°C	
Accuracy	±2°C or ±2 % (maximum value)	
Smart Analytics		
Video Analytics	Smart alarm - Motion detection alarm, I/O alarm, IP conflict alarm, disk alarm, temperature measurement alarm, intelligent analysis alarm, network abnormal alarm Smart Video Analytics - intrusion, wire crossing, object abandoned, object lost	
Storage	· ·	
Storage Slots	Support single card	
Built-in Storage	up to 256GB	
NAS Storage	-	
Local PC	Support	
Recording		
Alarm		
Alarm Ports	1	
Alarm Input	1	
Alarm Association	Mobile detection alarm, IP conflict alarm, disk alarm	
System Functions		
Operating System	Win 7 and higher versions	
Browser	IE11 and higher versions, Google, Firefox, Microsoft Edge	
Access Protocol	ONVIF SDK, CGI	
Multiple Access	Up to 10-ch simultaneous access	
Web Server	Available	
Remote Upgrade	Available	
Password	Available	
Protection		
RS485 Port	-	
Analog Video Out	-	
Maximum Number of Users	10	
Wiper	-	
Network		
Network Interface	1*RJ45 10/100M self-adaptive Ethernet port	

Network Protocols	IPv4/IPv6, HTTP, HTTPS, RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, SIP, 802.1x, DDNS, PPPoE, FTP, SNMP, QOS, UPNP, ICMP, IGMP, NTP
IP Address Filtering	Support
Network Delay	<200ms
Environmental	
Anti-Static	-
Surge Protection	-
Operating Temperature	-40°F~140°F (-40°C~+60°C)
Storage Temperature	-40°F~140°F (-40°C~+60°C)
Operating Humidity	≤ 95% RH
Environmental	
Rating	IP68
Impact Resistance	-
Mechanical	
Manual Speed) -
Preset Speed	-
Rotation Angle	-
Preset Accuracy	-
Electric Motor	-
Electrical	
Power Supply	12VDC
Power Consumption	-
Physical	
Product Dimension (L×W×H) or (H x D)	218.5*188*188mm
Package Dimension (L x W x H)	-
Unit Weight	28.66lbs. (13Kg)
Shipping Weight	-
Certifications	
Product	Ex d IIC T6 Gb/Ex tD A21 IP68 T80°C
Certifications	EX U IIO TO GD/EX LD AZT IPOS TOU C

ORDERING INFORMATION

VPA141-A425-M43	HD Dual-spectrum Explosion-proof Bullet Thermal Camera, visible camera 4MP, 12.7-13.5mm lens, Thermal resolution 400X300, 25mm thermal lens, Temperature measurement range-40°C ~150°C /0°C ~550°C, Accuracy±2°C, IR distance up to 30m, IP68, DC24V, 316L stainless steel
VPA141-A415-M43	HD Dual-spectrum Explosion-proof Bullet Thermal Camera, visible camera 4MP, 12.7-13.5mm lens, Thermal resolution 400X300, 15mm thermal lens, Temperature measurement range-40°C ~150°C /0°C ~550°C, Accuracy±2°C, IR distance up to 30m, IP68, DC24V, 316L stainless steel
VPA141-A408-M43	HD Dual-spectrum Explosion-proof Bullet Thermal Camera, visible camera 4MP, 12.7-13.5mm lens, Thermal resolution 400X300, 8mm thermal lens, Temperature measurement range-40°C ~150°C /0°C ~550°C, Accuracy±2°C, IR distance up to 30m, IP68, DC24V, 316L stainless steel
Accessories	
Power Supply	
N3922-24D-3	AC to DC Power Supply, Plug-In, 230VAC, Output 24VDC 3A

*Note: - "Confirmation of SD Card installation has to be notified with the Camera Purchase Order. Such confirmation if received on Order Readiness will attract additional cost. Please contact Infinova to know more".

MOUNTING





