

V-ARMOR SERIES- VEX-THERMAL

Explosion-proof Integrated Thermal Camera with Wiper



Features

- NTSC/PAL (field switchable)
- Available in 25mm, 50mm or 100mm lens
- 2nd generation Digital Detail Enhancement™
- Image Optimization
- Invert/Revert (analog and 8-bit digital)
- Polarity Control (black hot/white hot)
- Color & Monochrome Palettes (LUTs)
- Digital Zoom: 2x, 4x, 8x
- Accurate temperature measurement for radiometry, analytics and telemetry
- Integrated wiper system

Specifications

	VEX-T25	VEX-T50	VEX-T100
CERTIFICATIONS			
Ex-Marking	Exd II CT6 / DIP A20 TA, T6		
Certificate	CNEx 14.0068		
THERMAL			
Thermal Image	Uncooled VOx Microbolometer		
FPA/Digital Video Display Formats	640 × 512		
Analog Video Display Formats	640 × 480 (NTSC); 640 × 512 (PAL)		
Pixel Pitch	17μm		
Spectral Band	7.5-13.5 μm		
Full Frame Rates	30 Hz (NTSC) / 25 Hz(PAL)		
Exportable Frame Rates	7.5 Hz (NTSC) , 8.3 Hz(PAL)		
Sensitivity (NEDT)	<50 mK at f/1.0		
Scene Range (High Gain) / (Low Gain)	-40°C ~160°C / N/A		
Time to Image	~3.5 sec		
Factory Optimized Video	Yes		
FIELD OF VIEW	VEX-T25	VEX-T50	VEX-T100
Field of view	25 mm f/1.1	50 mm f/1.2	100 mm f/1.6
Field	25° x 20°0.680 mr	12.4°x9.9°0.340 mr	6.2°x5° 0.170 mr
Min Focus Distance	30cm	1.5m	7m
Hyper-focal Distance	21m	71m	160m
Length	25mm	50mm	100mm
INTERFACE			
Primary Electrical Connector	50-pin Hirose		
Input Power	4.0 - 6.0 VDC (max 2.5 amp during shutter)		
Power Dissipation	~1.2 W (steady state)		
Flat-Field Correction (FFC) Duration	<0.5 sec		
RS-232 Compatible Communication	57,600 & 921,600 baud		
External Sync Input/Output	Yes		
Discrete I/O Controls Available	Yes (10-camera minimum)		
Settable Splash Screens	Yes (10-camera minimum)		
User Configuration via SDK & GUI	Yes		
Dynamic Range Switching	No		
Power Reduction Switch (disables analog video)	Yes		
ELECTRICAL			
Current	<2.5 A		
Input Power	4.0 – 6.0 VDC		
Communication	Pelco-D/Pelco-P/TCP/IP		
Communication Rate	2400 ~ 19200bps		
MECHANICAL			
Material	Stainless steel 304		

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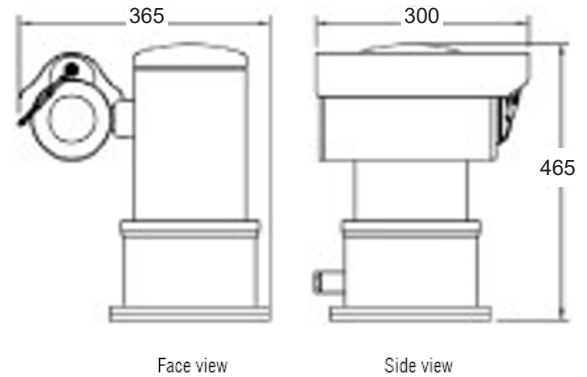
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IP	IP67
Pan / Tilt	360° continuous pan rotation / -90°~ 90°
Variable Speed	Rotation speed 10°/S (Max)
Weight	49 lb (22Kg)
Mounting	Base or Wall Mount
ENVIRONMENTAL	
Air Pressure	80KPa ~ 106KPa
Temperature	-25°C ~ 65°C (-13 ~ - 85°F)
Humidity	<95%RH [77°F (25°C)]
Temperature Shock (5°/min)	Yes
Operational Altitude	Up to 40,000'
Vibration	4.3g three axis, 8 hr each
Operational	200g shock pulse w/11 msec sawtooth
Approvals	ROHS, REACH, WEEE

Dimensions



Short Range Thermal Images

Image: Mailbox and man at center of image are 49m from camera



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Long Range Thermal Images

Image: Freeway off ramp is 827m from camera, directly above light pole at center of image (36m)

