



VE-PTZ-CAM

Wireless PTZ Optical & Thermal Camera

Overview:

The VE-PTZ-CAM incorporates both optical and thermal cameras in an environmentally sealed rugged PTZ unit. Wireless connectivity is powered by the Wave Relay® mobile ad hoc network (MANET). Wave Relay® is the core focus of Persistent Systems and is unmatched by any other MANET. It can quickly adapt to fluctuations in terrain and environmental conditions, rapidly re-routing data and continuously working to maximise connectivity and performance.

Using MIMO technology, it is capable of delivering extremely high bandwidth and extended link distances, whilst Wave Relay's® unlimited hopping without any master nodes extends the network beyond the edge. The integrated Sony HD camera provides a 30x optical zoom lens and a 63.7° wide angle of view. The Flir thermal camera incorporates radiometric technology which delivers high precision temperature monitoring. It supports an 8x digital zoom and spot metering to further optimise the exposure control for each particular scenario.

The video output can be user switched between either camera as required. The zoom is synchronised between the two cameras, up to the maximum FOV capability of the thermal camera. This allows convenient switching between the two camera views. The pan and tilt axes have absolute position feedback, which allows the camera to self correct its actual position if external forces act upon it.

Speeds are zoom factor corrected, giving control over the entire range of the lens with pan speeds up to 100° per second. The outer casing is machined from aluminium and includes tripod mounting holes in the base. External mating surfaces are gasket sealed to maintain the IP67 environmental rating.

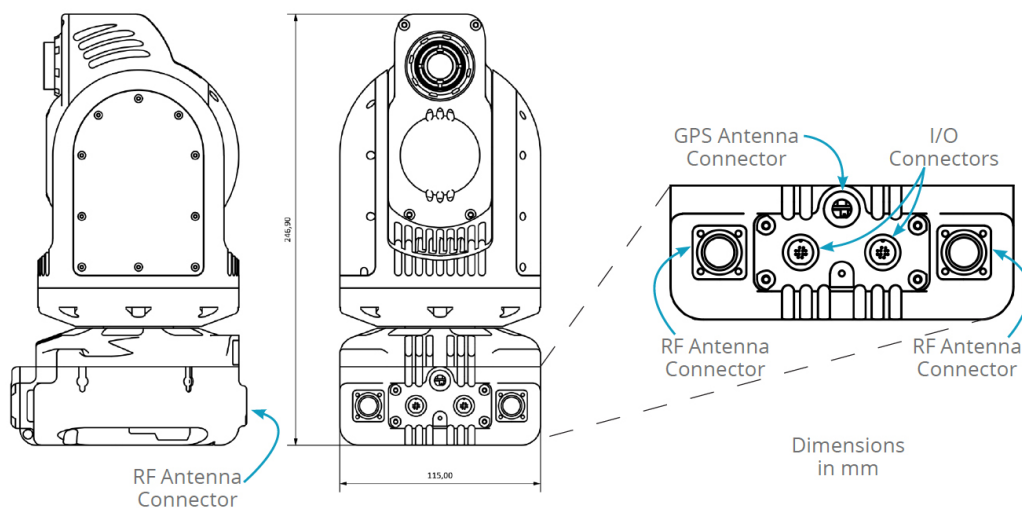
Key features

- Wave Relay® Wireless Connectivity
- MIMO Technology
- Extremely High Bandwidth
- Frequency Band Selectable
- GPS Enabled
- Optical Resolution 1080/30p
- 30x Optical Zoom
- 8x Thermal Digital Zoom
- Zoom Synchronisation
- Radiometric Thermal Technology
- Thermal Spot Metering
- Encrypted Transmission
- IP67 Environmental Rating
- Tripod Mounting
- Rugged Build

Specifications

Data Rate	Up to 150 Mbps.	
Waveform	Advanced Wave Relay®.	
3 x 3 MIMO	Extended Range.	
Frequency Band Options	L Band: RF-1150	Part No: VE-PTZ-CAM-L
	S Band: RF-2150	Part No: VE-PTZ-CAM-S
	Lower C Band: RF-4100	Part No: VE-PTZ-CAM-LC
	Upper C Band: RF-5100	Part No: VE-PTZ-CAM-UC
Configurable Bandwidth	5MHz, 10MHz, 20MHz.	
GPS	Cursor On Target.	
Encryption	CTR-AES-256.	
Optical Zoom	30x.	
Optical Resolution	1920 x 1080 Pixel.	
Thermal Resolution	640 x 512 Pixel.	

NEdT	< 30mK.
Radiometric Technology	As Standard.
Thermal Spot Metering	Enabled.
Pan & Tilt Range	360° Pan , 170° Tilt.
Input Volts	10-18V DC.
RF Connectors	N-Type.
GPS Connector	SMA.
I/O Connectors	Fischer MiniMax.
Mounting Holes	Tripod.
Environmental	IP67.
Dimensions	ø115 x 247mm.
Casing	Anodised Aluminium.



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Technical specifications are subject to change without notice. E & OE Issue A.

