



## MFR-DB-PSR

### Wireless PTZ Optical & Thermal Camera

The MFR-DB-PSR 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 Tau 2 thermal camera incorporates radiometric technology delivering 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.

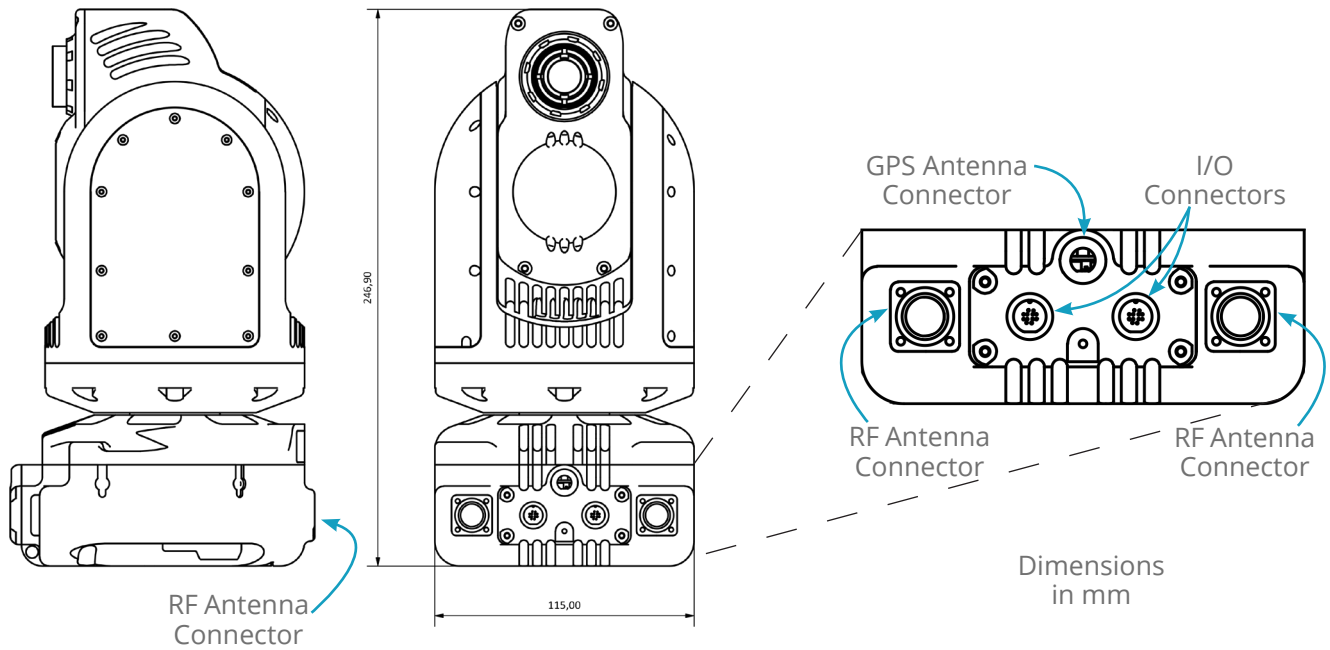
The pan and tilt axes have absolute position feedback, which allows the camera to self correct its actual position if external forces act upon it.

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.

#### Overview

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			
<b>Data Rate</b>	Up to 150 Mbps	<b>Radiometric Technology</b>	As Standard
<b>Waveform</b>	Advanced Wave Relay®	<b>Thermal Spot Metering</b>	Enabled
<b>3 x 3 MIMO</b>	Extended Range	<b>Pan &amp; Tilt Range</b>	360° Pan , 170° Tilt
<b>Frequency Bands</b>	L-Band, S-Band, C-Band	<b>Input Volts</b>	10-18V DC
<b>Configurable Bandwidth</b>	5MHz, 10MHz, 20MHz	<b>RF Connectors</b>	N-Type
<b>GPS</b>	Cursor On Target	<b>GPS Connector</b>	SMA
<b>Encryption</b>	CTR-AES-256	<b>I/O Connectors</b>	Fischer MiniMax
<b>Optical Zoom</b>	30x	<b>Mounting Holes</b>	Tripod
<b>Optical Resolution</b>	1920 x 1080 Pixel	<b>Environmental</b>	IP67
<b>Thermal Resolution</b>	640 x 512 Pixel	<b>Dimensions</b>	ø115 x 247mm
<b>NEdT</b>	< 30mK	<b>Casing</b>	Anodised Aluminium

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Product specifications subject to change without notice

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