BWM

Body Worn Video and Audio Mesh Radio

The BWM is a Mesh enabled radio for video & audio, specifically designed as a body worn solution.

Mesh radios can be combined in a fluid self forming, self healing network containing up to sixteen radios. Radios within the Mesh exchange data on a single frequency, simplifying spectrum management.

The radios offer excellent RF penetration and performance in the presence of multipath. They can operate over typical ranges of 500m in an urban environment or 10KM where line-of-sight is available.

The BWM incorporates a Mesh radio, rechargeable battery, OLED display and control interface into a rugged water proof chassis. GPS positioning, PTT microphone together with an optional audio headset and VE body worn cameras complete the solution.

The battery is detachable such that it can either be docked on to the base of the transmitter or split to be worn in two separate parts. Batteries can be recharged using the charger unit supplied in the kit.

A Fischer connector supports an Ethernet interface for direct configuration of the radio and connections to wider networks. Power and comms connections to an IP camera is supported via the second Fischer connector on the top of the unit.

The BWM also has an expansion port that supports the breakout of Ethernet, USB, Power and I²C signals.

Status is available via the OLED display, whilst comprehensive control of the Mesh radio is made available via a web browser.

AES encryption is available to ensure the security of transmissions.

Overview
Mesh Enabled Radio
Body Worn Solution
Excellent RF Performance
Integral Battery
Direct or Remote Battery Mounting
Supplied with PTT Microphone
Optional Audio Headset
IP Camera Input
User OLED Display
GPS Positioning
Web Browser Control Interface
Expansion Port
Optional AES Encryption
Water Proof Housing
Rugged Build for Tactical Use

The BWM transmitter includes an integral battery, this can be connected directly to the base of the transmitter as shown on the right.

Alternatively the battery may be remotely positioned to the transmitter with a cable connection between the two.

The two part configuration allows the solution to be belt worn on either side of the body.

The Body Worn Mesh Radio supports an IP camera connection.

The VE body worn camera shown on the right can be clipped to the chest and plugged directly into the Fischer connector on top of the BWM transmitter.

Alternatively the VE helmet camera, can be used which connects directly on to a Picatinny rail mount.

Both cameras options have a 1920x1080 HD resolution and support either IR or white LED illumination.

Part Number & Description			
BWM	L-Band	1Watt	110-8903

Specifications

Frequency Options	L, S and C Bands	**Mesh Antennas Supplied**	Flexible Omnis & Body Worn
Modulation	COFDM	**GPS Antenna Connector**	SMA
Sensitivity	-110dBm	**Camera & Control**	Fischer Connectors
Bandwidth	2.5 to 10MHz	**User Control**	OLED & Buttons
Max Capacity	12.5Mb/s	**Audio Interface**	PTT Microphone Supplied Optional Headset
RF Power	1Watt	**Expansion Port Signals**	Ethernet, USB, Power, I²C
Typical Range	500m Light Urban 10KM Line of Sight	**Total Weight**	740 grams
Optional Encryption	AES128, AES256	**Dimensions With Battery**	200 x 80 x 30mm
Antenna Connectors	QMA	**Environmental**	IP67

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