



communications
Communication Systems-West

Multi-band Manpack Receiver

The Multi-band Manpack Receiver is a portable receive-only terminal that provides the capability to receive sensor data from multiple airborne platforms. Supported waveforms include Ku-Band, C/L-Band Analog, and C-Band FSK.

PRODUCT DESCRIPTION

L-3's Multi-band Manpack receiver provides the warfighter with connectivity to multiple types of aerial surveillance platforms, including Shadow, Predator, Dragon Eye and others. With the wireless access point in the laptop, images and data can be broadcast to provide squad level situational awareness. The unit is small, lightweight and rugged and is supplied with an variety of display options, two antennas, control devices, and a carrying case.

L-3's Multi-band Manpack is the next generation of our field proven C-band only version and provides the same ruggedness along with enhanced capabilities.



KEY FEATURES AND BENEFITS

- Multi-band reception
 - Ku-band
 - C-band
 - L-band
- Included antennas
 - Ku-band omni - Integral LNA with DC power via RF cable
 - C/L-band - Integral LNA with DC power via RF cable
- User friendly GUI interface
 - Laptop via Ethernet
 - Front panel display
- Display
 - Laptop via Ethernet
 - Pocket PC 802.11b wireless
 - NTSC/RS-170 video for a TV monitor
- Software
 - Control GUI
 - Pre-mission configuration
 - Automatic frequency acquisition
 - Easy access to multiple platforms
- Wireless access point
 - Allows untethered operation
- Power
 - Battery not included
 - AC adapter
 - DC - DC adapter
 - Supports batteries with a BA-5590 form factor
- User position via included GPS
- Video display software
 - MPEG-2
 - H.261

Planned additional features/options
Directional antenna for increased range
Integrated COMSEC
Integrated MPEG-2 encoder/decoder
Integrated 802.11b/g wireless
Ruggedized integrated display system

Surface Terminal Data Link Products

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SPECIFICATIONS

Manpack Receiver

PERFORMANCE CHARACTERISTICS

RF Characteristics:	Ku-band
Frequency Range:	14.4 to 14.83 GHz and 15.15 to 15.35 GHz, 5 MHz steps
RF Characteristics:	L-band
Frequency Range:	1710 MHz to 1850 MHz, 0.5 MHz steps
Analog FM	NTSC/RS-170 Video NAV data (None standard, platform dependent)
RF Characteristics:	C-band (A)
Frequency Range:	4.40 GHz to 5.85 GHz, 1.0 MHz steps
Analog FM	NTSC/RS-170 Video NAV data (None standard, platform dependent)
RF Characteristics:	C-band (B)
Frequency Range:	5.25 GHz to 5.85 GHz, 1.0 MHz steps
FSK	H.261 Video (Video conferencing video) Nav data: Aircraft position and target position
Antennas:	C/L-band omni (standard) Gain: 0 dBi at L-band Gain: 4.5 dBi at C-band Ku-band omni (standard) Gain: 3.5 dBi GPS antenna / Receiver LNAs: Supplied with antennas Powered via RF cable
Interfaces	Ethernet 10/100 BaseT Coaxial RF connector to antenna RS-485 (Directional antenna controller) NEMA-0183 RS-170 (NTSC Video) BA-5590 Battery connector COMSEC fill connector Front Panel Four button (Control) Eight digit display
Power:	Single BA-5590 battery (not included) 10 - 12 Hour operation AC adapter DC-DC Battery adapter (cigarette lighter)

PHYSICAL CHARACTERISTICS

Receiver

Size:	3.8" x 5.5" x 15.5" (with battery)
Weight:	< 8 lbs (excluding antennas, displays, battery, etc) 12 lbs with battery
Immersion:	3 feet of water
Shock, operating:	9g, 11msec, half sine
Vibration, Operating:	MIL-STD-810F
Altitude, operating:	>15,000 feet
Temperature, operating:	-40°C to +70°C

Total Equipment

Weight:	~35 lbs.
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For further information on Multi-band Manpack contact:

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