



The ROVER 4 Receiver is a portable receive-only terminal that displays sensor data from multiple airborne platforms. Supports multiple digital and analog signals.

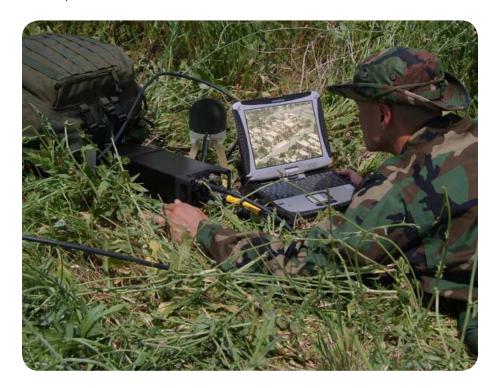
# **ROVER 4 Receiver**

## **Key Features**

- Multi-band reception
  - Ku-band digital
  - · C-band digital and analog
  - S-band digital and analog
  - · L-band digital and analog
- · Included antennas
  - Ku-band omni-Integral LNA with DC power via RF cable
  - C, L, S-band omni-Integral LNA with DC power via RF cable
- Triple DES decryption
- · AES decryption
- Integrated MPEG-4/MPEG-2/ H.261 decoder
- · H.264 video decoder on laptop
- KLV metadata mapped to FalconView™
- · Video display
  - Ruggedized laptop via Ethernet
  - NTSC/RS-170 video port
- Power
  - BA-5590 form factor batteries (battery not included)
  - Battery eliminator that allows AC or DC input
  - · Alternate laptop power supply
    - Allows laptop to be powered from any BA-5590 form factor battery
    - Extends laptop battery operation by 8-10 hours
- Options
  - Directional C-band antenna for increased range

## **Product Description**

ROVER 4 provides real-time, full-motion video for situational awareness, targeting, Battle Damage Assessment (BDA), surveillance, convoy operations and other situations where eyes-on-target are required. ROVER 4 provides enhanced air and ground coordination, which shortens talk-on-target for time-critical operations. It has proven interoperability with data links in Ku, C, S and L-band with platforms such as Predator, Shadow, Dragon Eye, Litening Pod, and other Joint and Coalition assets. ROVER 4 is small, lightweight, and rugged. It comes as a complete, ready-to-use system housed in a rugged transit case, including antennas, cables, video displays, recording capabilities and a wireless access point.





# **Specifications**

## **Physical Characterisitics**

#### Receiver

• Size: 3.8" x 5.5" x 15.5" (with battery)

8 lbs (excluding antennas, displays, Weight:

battery, etc.); 10.25 lbs with battery

Power: Single BA-5590 battery (not included)

11-36 VDC, 25 watts Typ

• Battery eliminator allows DC or AC input

- DC NATO plug cable

- DC vehicle accessory power plug cable

- AC plug cable

- 95-270 VAC, 47-440 Hz

3 feet of water, 30 minutes • Immersion:

• Shock: 9 G, 11 msec, half sine (operating)

< 15,000 feet (operating) Altitude:

• Temperature: -20° C to +55° C ambient (operating) -30° C to +70° C ambient (storage)

## **Physical Characterisitics**

#### **Laptop Power**

- Lithium battery supplies 2-3 hour operation
- BA-5590 adapter for extended 10-12 hour operation

#### Total equipment weight

• Approximately 48 lbs





# **Specifications**

#### **Performance Characterisitics**

#### **Antennas**

- C, L, S-band omni
  - L-band gain: > 1 dBi from 0° to 60° above the horizon
  - C-band gain: > -1 dBi from 0° to 60° above the horizon
  - S-band gain: > 0 dBi from 0° to 60° above the horizon
- Ku-band omni
  - Gain: >1 dBi from 20° to 60° above the horizon
- . LNAs (supplied with antennas)
  - · Powered via RF cable
  - LNA gain > 30db
- Optional C-band directional

#### Interfaces

- Ethernet 10/100 Base-T
- Coaxial TNC RF connector to antenna
- RS-485 (directional antenna controller)
- NEMA-0183 (GPS interface)
- RS-170 (NTSC Video)
- BA-5590 Battery Connector
- Front Panel
  - Four button control
  - · Eight digit LED display

#### Software

- Control GUI
  - Pre-mission configuration
  - Automatic frequency acquisition
  - · Automatic data rate acquisition
  - Software configurable
    - Waveform
    - Band and frequency
    - Video protocol
- · Video display software
  - MPEG-2
  - MPEG-4
  - H.261
  - NTSC/RS-170
  - · H.264

			Waveforms					
			<b>DVB-T</b> (6MHz, 7MHz, and 8MHz)	<b>Tactical</b> (1.6, 3.2 and 6.4 Mbps)	466ER	<b>455</b> (Legacy Digital)	FM Analog	<b>CDL</b> (2.0 and 10.71 Mbps)
Supported Features	Frequency Bands	L	Х	Х	Х		Х	
		S	Х	Х	Х		Х	
		С	Х	Х	Х	Х	Х	
		Ku		Х				Х
	Decryption	AES		Х	Х			Х
		Triple DES		Х	Х			х

RF Band					
	L	S	С	Ku	
Frequency	1.71 – 1.85 GHz	2.30 – 2.50 GHz	4.40 – 5.85 GHz	14.40 – 15.35 GHz	
Frequency Steps	0.5 MHz	1.0 MHz	1.0 MHz	5.0 MHz	



#### Communication Systems - West

640 North 2200 West, P.O. Box 16850, Salt Lake City, Utah 84116-0850 | U.S. Toll Free: 800-874-8178 | International: +801-594-2000 Fax: 801-594-3003 | Email: CSW.Products@L-3com.com | www.L-3com.com/csw

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