



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 Characteristics

Receiver

- Size: 3.8" x 5.5" x 15.5" (with battery)
- Weight: 8 lbs (excluding antennas, displays, battery, etc.); 10.25 lbs with battery
- Power: Single BA-5590 battery (not included)
 - 10–12 hour operation
 - 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
- Immersion: 3 feet of water, 30 minutes
- Shock: 9 G, 11 msec, half sine (operating)
- Altitude: < 15,000 feet (operating)
- Temperature: -20° C to +55° C ambient (operating)
-30° C to +70° C ambient (storage)

Physical Characteristics

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 Characteristics

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					
		DVB-T (6MHz, 7MHz, and 8MHz)	Tactical (1.6, 3.2 and 6.4 Mbps)	466ER	455 (Legacy Digital)	FM Analog	CDL (2.0 and 10.71 Mbps)
Supported Features	Frequency Bands	L	X	X	X		X
		S	X	X	X		X
		C	X	X	X	X	
		Ku		X			X
	Decryption	AES		X	X		X
		Triple DES		X	X		X

RF Band				
	L	S	C	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



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