



The ROVER 5 Handheld is a portable transceiver device that transforms sensor-to-shooter networking with the highest levels of collaboration. It transmits time-sensitive targeting data and displays sensor data from multiple airborne platforms.

Key Features

- Multi-band reception and transmission
 - Ku-band*
 - C-band*
 - L-band
 - S-band
 - UHF
- Integrated video display
- Highly compatible and interoperable
 - Digital and analog waveforms
 - Metadata (KLV supported)
 - Video encode/decode
- Intuitive Control GUI
 - Pre-mission configuration
 - Waveform control
 - Band and frequency
- Power
 - Lithium-polymer battery
 - AC/DC vehicle accessory power cable

* Transmit function requires external PA and antenna.

Product Description

The ROVER 5 is a small, lightweight, rugged Software Defined Radio that provides a digital capability for full-motion video, situational awareness, targeting, Battle Damage Assessment (BDA), surveillance, convoy operations and other situations where eyes-on-target are required. ROVER 5 provides enhanced air and ground coordination which shortens talk-on-target for time-critical operations. Because ROVER 5 is a versatile Software Defined Radio, it is forward compatible through easily loadable upgrades for both radio and video codecs. ROVER 5 is designed to operate with encryption, and is CDL and STANAG compliant. It is backward compatible and interoperable with the thousands of ROVER III, eROVER and ROVER 4 units fielded to date, as well as the platforms they support, including Predator, Shadow, Dragon Eye, Litening Pod and other Joint and Coalition assets.



Specifications

Performance Characteristics

Transmit and Receive Bands

- Ku-band*: 14.4–15.35 GHz, 1.0 MHz steps
- C-band*: 4.40–4.950 GHz, 1.0 MHz steps
5.25–5.85 GHz, 1.0 MHz steps
- S-band: 2.2–2.5 GHz, 0.5 MHz steps
- L-band: 1.71–1.85 GHz, 0.5 MHz steps
- UHF: 400–470 MHz

Data Rates

- 200 kbps spread and unspread
- 400 kbps spread and unspread
- 455 kbps
- 466 kbps
- 1.6 Mbps
- 2.0 Mbps spread and unspread
- 3.2 Mbps
- 10.71 Mbps
- 21.42 Mbps
- 44.73 Mbps
- 50 kbps to 5 Mbps

Video

- Analog NTSC
- H.261 (receive only)
- H.264
- MPEG-2
- MPEG-4
- MJPEG

Modulation

- FM
- FSK
- BPSK (CDL interoperable)
- O-QPSK (CDL interoperable)

* Transmit function requires external PA and antenna.

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Performance Characteristics (continued)

Encryption

- Triple DES
- AES
- Type 1

FEC (Forward Error Correction)

- Rate 1/2 convolutional
- Rate 1/2 convolutional with concatenated Reed-Solomon
- Turbo product code

External Interfaces

- 10/100 Base-T Ethernet
- USB 2.0 for file storage
- Configurable RS-232 (qty. 2) or RS-422 (qty. 1)
- RS-422 (qty. 2)
- Audio input/output
- External power connector
- BNC external video input/output

User Interfaces

- Menu-driven user interface
 - Integrated touch screen LCD display
 - Button control
- Display: 5.6 inch, sunlight readable

Physical Characteristics

- Size: 9.5" x 5.6" x 2.25" (with antenna)
- Weight: 3.5 lbs
- Power: Lithium-ion battery
 - 2.5–3 hour operation (estimated)
 - Power supplies allow DC or AC input
 - 9–36 VDC (with power supply)
 - 95–270 VAC, 47–440 Hz
- Temperature, operating: 0° C to +45° C