

# Soldier ISR Receiver (SIR) Tactical ROVER



The L-3 Communications' SIR provides secure digital and analog multi-band ISR video directly to the dismounted user for real-time situational awareness.

## Product Description

The Soldier ISR Receiver is an IP-based, multi-band, secure, digital and analog receiver designed for ease of integration with very low SWaP. The SIR is the smallest and most capable tactical ISR receiver in the market.

With its variety of interfaces the user can connect SIR to virtually any Soldier System, existing display device, computer, and power source.

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## Performance Specifications

### Performance Characteristics

#### Receive Bands

- L-band: 1.625–1.85 GHz, 0.5 MHz steps
- S-band: 2.20–2.50 GHz, 0.5 MHz steps
- C-band: 4.40–4.94 GHz, 1.0 MHz steps  
5.25–5.85 GHz, 1.0 MHz steps
- Ku-band<sup>1</sup>: 14.40–14.83 GHz, 1.0 MHz steps  
15.15–15.35 GHz, 1.0 MHz steps

#### Video

- H.261
- H.264
- MPEG-2
- MPEG-4
- MJPEG
- Analog NTSC/PAL

#### Decryption

- AES
- Triple DES

#### External Interfaces

- TNC for RF in
- 10/100 Base-T Ethernet
- USB video out
- External power connector
- BNC for RS-170

#### Compatible Displays

- Head-mounted displays
- Wrist-mounts
- PCs

#### Software Programmable Receiver

- User on-screen display
  - Pre-mission configurations
  - Automatic waveform search/acquisition
- Configurable
  - Waveform
  - Band and frequency
  - Video
- Ease of Use
  - Frequency-only configuration
  - Quick key “speed dial”
  - Easy GUI – Web interface
  - Frequency analyzer

### Physical Characteristics

#### Receiver SWaP (no battery):

- Size: 3.0" x 6.6" x 1.5"
- Weight: < 1 lb
- Power: 4.5 W, 9-16 VDC

#### Environmental:

- Altitude: 20,000 feet
- Vibration: 3.26 gRMS
- Temperature: -40°C to 65°C
- Immersion: 2m



### Digital Waveforms

		DDL	DVB-T	Tactical <sup>2</sup>	CDL <sup>1,3</sup>	Legacy Digital (455)	466ER	VNW <sup>4</sup>	FM Analog
Supported Features	Frequency Band	L	X	X	X		X	X	X
		S	X	X	X		X	X	X
		C		X	X		X	X	X
		Ku			X	X		X	
	Decryption	AES	X	X	X	X		X	X
		Triple DES			X	X		X	X

<sup>1</sup>Compliant data rates and frequencies only available with optional Ku-band accessory.

<sup>2</sup>Tactical data rates include 1.6, 3.2, and 6.4 Mbps

<sup>3</sup>2.0 and 10.71 Mbps supported

<sup>4</sup>VNW data rates range from 50 kbps to 5 Mbps

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