



L-3 Communications and Thales Defense & Security bring you the ROVER Full-Motion Video Mission Module (FMV-MM) for the Thales AN/PRC-148 JEM radio. The Mission Module adds secure digital and analog multi-band ISR video capability, directly to the dismounted user for real-time situational awareness.

Key Features

- Battle-proven AN/PRC-148, L-3 Tactical ROVER
- Interoperable with all major, non-proprietary platforms
- Simultaneous full-motion video and Tx/Rx Combat Net Operations
- Field upgradable
- Simultaneous use of the AN/PRC-148 radio and Mission Module
- L, S, C and Ku-band frequency analog and digital feeds

Product Description

The AN/PRC-148 ROVER FMV-MM is an IP-based, multi-band, secure, digital and analog receiver designed for ease of integration with very low SWaP. Together, the Mission Module and AN/PRC-148 radio are the most capable and integrated ISR and C2 comms solution on the market.

With its variety of interfaces, the user can connect the FMV Mission Module to most existing soldier systems, existing display devices, computers, and power sources.



Specifications

Compatible Radios

- AN/PRC-148 JEM V.3-V.6

FMV-MM 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-band¹: 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 peripheral power
- 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
 - Auto-selectable waveform
 - Auto-selectable frequencies
 - Auto-selectable video
 - Low power standby mode
 - Presets
- Ease of Use
 - Frequency-only configuration
 - UI through radio keypad
 - Easy GUI – Web interface
 - Frequency analyzer
 - Power supplied by MBITR battery
 - Android interface

Physical Characteristics

Module SWaP:

- Size (Envelope): 6.13" x 2.83" x 1.18"
- Weight: IAM: 0.235 lbs
MM: 0.725 lbs
Total weight w/radio: ~2 lbs
- Power: 4.7W (MM and IAM) from radio battery

Environmental:

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

AN/PRC-148 Radio

FMV-MM



Interface Adapter Module (IAM)



AN/PRC-148 Battery

		Digital Waveforms							
		DDL	DVB-T	Tactical ²	CDL ^{1,3}	Legacy Digital (455)	466ER	VNW ⁴	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	X
Decryption	AES	X	X	X	X		X	X	
	Triple DES			X	X		X	X	

¹Compliant data rates and frequencies only available with optional Ku-band accessory.

²Tactical data rates include 1.6, 3.2, and 6.4 Mbps

³2.0 and 10.71 Mbps supported

⁴VNW data rates range from 50 kbps to 5 Mbps

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