

AN/PRC-170 Javelin **MANET Handheld Radio**

Small Form Factor Radio
with TSM™ Waveform



AN/PRC-170 Javelin

AN/PRC-170 Javelin is a rugged, small, and lightweight single-channel radio that provides Warfighters with tactical command and control communications in a variety of challenging radio-operating environments. Using the TSM waveform, AN/PRC-170 Javelin provides wideband MANET coverage, regardless of the environment, and superior voice and data communications across harsh multipath and highly dynamic environments, such as shipboard, caves and urban operational settings. AN/PRC-170 Javelin is interoperable with the IMBITR 2-channel Leader Radio, and other third party radios running the TSM waveform.



Technical Specifications

Key Features

- Simultaneous Voice, PLI and Data Transport
- Embedded GPS
- Type-3 AES 256 Encryption
- Supports UHF, Upper UHF, L and S Band Communications
- Future Waveforms: NB Voice
- 32 Talk Groups
- Integrated Nett Warrior Power and Data Connector
- Removable/Re-chargeable Battery
- Rechargeable Lithium-Ion 3.5 Ah
- Compliant with the Universal Battery Charger (UBC) Family of Tactical Chargers

Physical Parameters

Length: 5.2 inches (13.21 cm)
(excluding antennas)

Width: 2.6 inches (6.60 cm)
(with battery attached, excluding antennas)

Depth: 1.8 inches (4.57 cm)

Weight: 1.25 pounds Radio and Battery
(567 g)

Environmental Specifications

Operating Temperature: -31° to +55° C

Storage Temperature: -33° to +71° C

Immersion: 2M

Waveforms/Modes of Operation

TSM

- Infrastructure-less MANET
- High-speed wireless IP networking
- Self-Forming, self-healing
- Scalable to 200+ nodes
- Robust in harsh environments
- Fast, seamless network join/merge
- Instant adaptation to network topology change

Wideband Channel

Transmit Power: Up to 2 watt

Operating Frequencies: L-UHF: 225–450 MHz, U-UHF: 698–970 MHz, L/S Bands: 1250–2600 MHz

Network Throughput: up to 16 Mbps

Encryption Security: AES-256

Dedicated PTT Voice Channels: supports up to 32 talk groups, AMR 5.9 or MELPe

Occupied Bandwidth: 1.2–40 MHz

Net entry time <1 sec

Supports up to 8 hops for voice and data

Scalable to 200+ nodes in a single RF channel

Multiple simultaneous streaming videos

Position Location Information (PLI) support with Cursor-on-Target (CoT)

OTA Remote Control

Specifications are subject to change without notice.

Thales Defense & Security, Inc.

22605 Gateway Center Drive | Clarksburg, MD 20871
TF+1.800.914.0303 | P: +1.240.864.7643
solutions@thalesdsi.com | www.thalesdsi.com

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16516 Via Esprillo, Suite 300 | San Diego, CA 92127
P: +1.858.753.1600 | F: +1.858.753.1640
www.trellisware.com | info@trellisware.com