AN/PRC-148E Spear
Single Channel Handheld Radio

Small Form Factor Tactical Communications
The AN/PRC-148E Spear radio offers all of the existing functionality of the combat proven AN/PRC-148 JEM in a reduced size. This small, lightweight, rugged package equips users with command and control communications with the smallest, lightest, and most widely-fielded tactical handheld radio covering the 30-512 MHz frequency range. The AN/PRC-148E Spear’s programmable cryptography supports the requirements of the National Security Agency’s (NSA) crypto modernization program and is certified by NSA. The AN/PRC-148E Spear provides the reliability that warfighters have trusted for many years with more than 300,000 AN/PRC-148 family of tactical radios fielded.

**Key Features**

- Smallest and Lightest, Single Channel Handheld Radio Available
- Type-1 Certified Programmable Encryption Engine (AEM)
- 2M/20M Immersible
- Simple, Intuitive HMI
- 256 Programmable Presets
- Rechargeable Lithium-Ion 3.5 Ah
- Compliant with the Universal Battery Charger (UBC) family of tactical chargers

**Physical Parameters**

- **Length:** 8.50 inches (21.59 cm) (with battery attached, excluding antennas)
- **Width:** 3.2 inches (8.13 cm)
- **Depth:** 1.1 inches (2.79 cm)
- **Weight:** 1.26 lb – Radio and Battery (571 g)

**Environmental Specifications**

- **Operating Temperature:** -31 °C to +55 °C
- **Storage Temperature:** -33 °C to +71 °C
- **Immersion:** 2M/20M

**Waveforms/Modes of Operation Dependent on Configuration of Radio**

- MIL-STD-188-241-1/-2 (SINCGARS - Standard/TH2 EOM)
- MIL-STD-188-181C, -182B, -183B (SATCOM IV)
- HAVEQUICK I and II
- ANDVT (LPC-10, MELP)
- AM/FM
- Project 25
- Over-The-Air-Cloning (OTAC)
- Situational Awareness
- Retransmission
- AM Swept Tone Beacon

**Technical Specifications**

**Narrowband Channel**

- **Frequency Range:** 30 MHz – 512 MHz
- **Transmit Power:** 5 Watt in all frequencies, 10 Watt in SATCOM
- **Step Size:** 5 kHz and 6.25 kHz
- **Channel Bandwidth:** 5 kHz, 12.5 kHz, 25 kHz (8.33 kHz Future Waveform)