Give your team members a compact, discreet, and lightweight radio that allows them to be comfortable in any situation.

Worn on a belt, tucked away in a pocket or clipped to a lapel, the water-submersible and dust-proof EVX-S24 is designed to survive demanding conditions. It operates in both analog and digital modes, so it’s ideal for use with mixed fleets. And in digital mode, enjoy noise cancellation for crisp audio and clear conversations.
GENERAL SPECIFICATIONS

- **Frequency Range**: UHF: 403 – 470 MHz
- **Dimension (H x W x D)**: 3.58 x 2.17 x 1.24 Inches (91 x 55 x 31.5 mm)
- **Weight Approx. with Antenna, Belt Clip**: 7.6 oz [215 g] with [FNB-V142LI, ATU-20, Belt Clip]
- **Display**: 8 Character Alphanumeric
- **Channel Spacing**: 25/12.5 kHz
- **Number of Channels and Groups**: 256/16
- **Programmable Buttons**: 4 (Front: 3, Side: 1)
- **Battery Life [5-5-90 Duty with Battery Saver]**: Digital 3W: 12 Hours/Analog 2W: 11 Hours
- **IP Rating**: 67
- **Power Supply Voltage**: 3.7 VDC (Nominal)
- **Operating Temperature Range**: -22º F to +140º F (-30º C to +60º C)
- **Frequency Stability**: ± 1.5 ppm
- **RF Input-Output Impedance**: 50 Ohms

RECEIVER SPECIFICATIONS measured by TIA/EIA 603

- **Sensitivity**:
  - Analog: 12 dB SINAD: 0.25 uV
  - Digital: 1% BER: 0.28 uV

- **Adjacent Channel Selectivity**:
  - TIA603: 70/60 dB (25 kHz/12.5 kHz)
  - TIA603D: 70/45 dB (25 kHz/12.5 kHz)

- **Intermodulation**: 70 dB
- **Spurious Rejection**: 70 dB
- **Audio Output**: 500 mW @ 4 Ohms 10 % THD
- **FM Hum and Noise**: 45/40 dB (25 kHz/12.5 kHz)
- **Conducted Spurious Emission**: -57 dBm

TRANSMITTER SPECIFICATIONS measured by TIA/EIA 603

- **Output Power**:
  - Digital: 3 W/2 W/1 W/0.5 W
  - Analog: 2 W/1 W/0.5 W

- **Modulation Limiting**:
  - ± 5 kHz (25 kHz); ± 2.5 kHz (12.5 kHz)

- **Conducted Spurious Emission**:
  - ≤ 1 GHz: -36 dBm
  - >1 GHz: -30 dBm

- **FM Hum and Noise**: 45/40 dB (25 kHz/12.5 kHz)
- **Audio Distortion**: < 5 % @ 1 kHz
- **Adjacent Channel Power**: 70/60 dB
- **4FSK Digital Modulation**:
  - 12.5 kHz Data: 7K80F1D/7K80FXD
  - 12.5 kHz Voice: 7K80F1E/7K80FXE

APPLICABLE MIL-STD

<table>
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<tr>
<th>Standard</th>
<th>MIL 810C</th>
<th>MIL 810D</th>
<th>MIL 810E</th>
<th>MIL 810F</th>
<th>MIL 810G</th>
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<td>500.2 proc 2</td>
<td>500.3 proc 2</td>
<td>500.4 proc 1/2</td>
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<td>501.3 proc 1/1A proc 2/1A</td>
<td>501.4 proc 1/1D proc 2/1DT</td>
<td>501.5 proc 1/1A proc 2/A2</td>
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<tr>
<td>Low Temperature</td>
<td>502.1 proc 1</td>
<td>502.2 proc 1/1Cat 3 proc 2/Cat 2/1</td>
<td>502.3 proc 1/1Cat 3 proc 2/Cat 2/1</td>
<td>502.4 proc 1/1Cat 3 proc 2/Cat 1</td>
<td>502.5 proc 1/1Cat 3 proc 2/Cat 1 proc 3/Cat 1</td>
</tr>
<tr>
<td>Temperature Shock</td>
<td>503.1 proc 1</td>
<td>503.2 proc 1/1A Cat 3 proc 2/Cat 1</td>
<td>503.3 proc 1/1A Cat 3 proc 2/Cat 1</td>
<td>503.4 proc 1</td>
<td>503.5 proc 1/C</td>
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<tr>
<td>Solar Radiation</td>
<td>505.1 proc 1</td>
<td>505.2 proc 1</td>
<td>505.3 proc 1</td>
<td>505.4 proc 1</td>
<td>505.5 proc 1/1A</td>
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<tr>
<td>Rain</td>
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<td>506.2 proc 1/2</td>
<td>506.3 proc 1/2</td>
<td>506.4 proc 1/3</td>
<td>506.5 proc 1/3</td>
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<td>Humidity</td>
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<td>507.2 proc 2</td>
<td>507.3 proc 2</td>
<td>507.4</td>
<td>507.5 proc 2/Agg</td>
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<tr>
<td>Salt Spray/Fog</td>
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<td>509.2 proc 1</td>
<td>509.3 proc 1</td>
<td>509.4</td>
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<tr>
<td>Dust</td>
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<td>510.2 proc 1</td>
<td>510.3 proc 1</td>
<td>510.4 proc 1</td>
<td>510.5 proc 1</td>
</tr>
<tr>
<td>Blowing Sand</td>
<td>–</td>
<td>510.2 proc 2</td>
<td>510.3 proc 2</td>
<td>510.4 proc 2</td>
<td>510.5 proc 2</td>
</tr>
<tr>
<td>Vibration</td>
<td>514.2 proc 8/F, W</td>
<td>514.3 proc 1/1Cat 10 proc 2/Cat 3</td>
<td>514.4 proc 1/1Cat 10 proc 2/Cat 3</td>
<td>514.5 proc 1/Cat 24</td>
<td>514.6 proc 1/Cat 24</td>
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<tr>
<td>Shock</td>
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<td>518.4 proc 1/4/6</td>
<td>518.5 proc 1/4/6</td>
<td>518.6 proc 1/4/6</td>
</tr>
</tbody>
</table>

ACCESSORIES

- **Antennas**:
  - ATU-6A: 400-430 MHz 6.5” (16.51 cm)
  - ATU-6B: 420-450 MHz 6.1” (15.49 cm)
  - ATU-6C: 440-470 MHz 6.1” (15.49 cm)
  - ATU-6D: 450-485 MHz 6” (15.24 cm)
  - ATU-20AS: Stubby 400-430 MHz 3.15” (8 cm)
  - ATU-20CS: Stubby 420-450 MHz 3.15” (8 cm)
  - ATU-20DS: Stubby 440-470 MHz 3.15” (8 cm)
  - ATU-20FS: Stubby 450-480 MHz 3.15” (8 cm)
  - ATU-21AS: Super Stubby 400-420 MHz 2” (5.08 cm)
  - ATU-21CS: Super Stubby 420-440 MHz 2” (5.08 cm)
  - ATU-21DS: Super Stubby 440-460 MHz 2” (5.08 cm)
  - ATU-21FS: Super Stubby 460-480 MHz 2” (5.08 cm)

- **Battery**: PMNN4468B: 2300 mAh Li-ion Battery

- **Carry Solutions**:
  - LCC-S24: Leather Case, Belt Loop
  - LCC-S24S: Leather Case, Swivel Belt Loop
  - Clip-27: Belt Clip

- **Chargers**:
  - PA-57: Power Adapter
  - CD-65: Standard Single Unit Charging Cradle
  - CD-66: Enhanced Single Unit Charging Cradle
  - VAC-8066: Multi Unit Charger

- **Audio Accessories**:
  - MIH-8904B: Earpiece Microphone
  - MIH-9004B: Compact Speaker Microphone
  - MIH-664B: IP57 Submersible Speaker Microphone
  - VH-190: VOX Lightweight Headset, Behind-the-Head