Areas of reduced radio system coverage can exist due to lack of in-building coverage, outdoor terrain or the omission of adequate fixed site infrastructure. In these scenarios a permanently mounted P25 DVRS can help fill in areas of poor coverage and assist in keeping emergency responders connected in the moments that matter.

The Fixed Mount DVR includes an indoor wall mount enclosure, power supply, battery backup, filtering and cabling. It seamlessly integrates with remote mount Motorola APX™ or XTL™ series mobile radios. The Fixed Mount DVR is also available in an optional outdoor enclosure and can be configured for pole mount installation.

Key Features & Benefits

- Programmable output power: 1-10 watts.
- Available in VHF, UHF, 700 MHz and 800 MHz bands.
- Extends key P25 trunking features to the 'DVRS Enabled' portable radio users including:
  - Portable Push-to-talk and Emergency ID pass-through.
  - Go Ahead and Deny Tones.
  - Out of Range, Site Trunking and Failsoft System Status Broadcasts.
- Cost effective alternative to incremental fixed site infrastructure in low traffic areas.
- P25 Digital / Analog operation.
- Full duplex or simplex operation.
- In-Band or Cross-Band configurations.
- Integrates with remote mount APX™5500, APX™6500 and APX™7500 mobile radios.
- Only 30dB of isolation required between antennas.
- Sold exclusively through Motorola Solutions.
## GENERAL SPECIFICATIONS

### Dimensions: Height / Width / Depth / Weight

**Indoor Cabinet**
- 520.5mm (20.5") x 520.5mm (20.5") x 228.6mm (9")
- 85 lbs. (22.7 Kg)

**Outdoor Cabinet**
- 1168mm (46") x 566mm (22.3") x 258mm x (10.1")
- 198 lbs. (90 kg) without batteries

**Battery Enclosure (Included with Outdoor Cabinet)**
- 406mm (16") x 508mm (20") x 254mm (10")

### Battery Backup

**Indoor Cabinet**
- 30 Minutes (50/50% Duty Cycle)

**Outdoor Cabinet**
- 2 hours (50/50% Duty Cycle) - 25°C, New Battery

### Operating Temperature

**Indoor Cabinet**
- -30°C to +40°C

**Outdoor Cabinet**
- -30°C to +40°C

### Antenna Impedance
- 50 Ohms

### Duty Cycle
- Continuous (DVR)

### External Connectors

**Antenna**
- N Female

**Computer Interface**
- USB

### Power Supply

**Indoor Cabinet**
- 115V or 230 VAC +/- 15%

**Outdoor Cabinet**
- 115V or 230V AC +/-15%, 47-63Hz,
- Single Phase, Hard wired

### Current Drain

<table>
<thead>
<tr>
<th></th>
<th>Indoor Cabinet</th>
<th>Outdoor Cabinet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby/Receive</td>
<td>0.5A (110V AC)</td>
<td>6A AC Max (115 AV)</td>
</tr>
<tr>
<td>Transmit</td>
<td>2.8A</td>
<td>3 A Max at 230V AC</td>
</tr>
</tbody>
</table>
### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Equipment Type Acceptance</th>
<th>VHF</th>
<th>UHF</th>
<th>700 MHz</th>
<th>800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FCC</strong></td>
<td>136 – 174 MHz</td>
<td>380-408 MHz</td>
<td>764-776 MHz</td>
<td>806-824 MHz</td>
</tr>
<tr>
<td></td>
<td>406.1-512 MHz</td>
<td>794-806 MHz</td>
<td>851-869 MHz</td>
<td>LOG-DVRS800</td>
</tr>
<tr>
<td></td>
<td>LO6-DVRSUHF</td>
<td>LO6-DVRS700</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Industry Canada</strong></td>
<td>138 – 174 MHz</td>
<td>406.1-430 MHz</td>
<td>768-776 MHz</td>
<td>806-824 MHz</td>
</tr>
<tr>
<td></td>
<td>450-470 MHz</td>
<td>798-806 MHz</td>
<td>851-869 MHz</td>
<td>20988-DVRS800</td>
</tr>
<tr>
<td></td>
<td>2098B-DVRSUHF</td>
<td>2098B-DVRS700</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Transmitter Specifications

<table>
<thead>
<tr>
<th>Frequency Band [MHz]</th>
<th>VHF</th>
<th>UHF</th>
<th>700 MHz</th>
<th>800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>136 – 174 MHz</td>
<td>380-430 MHz</td>
<td>764-776 MHz</td>
<td>851-869 MHz</td>
</tr>
<tr>
<td></td>
<td>450-470 MHz</td>
<td>794-806 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>470-512 MHz</td>
<td>851-869 MHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Power Output @ Antenna Port**: 10 W (programmable per channel from 1W to 10W)

**CTC Option**: 15 sec to 15 min or Disabled

**Max Spurious Output**: -20dBm

**Frequency Stability**: +/- 1.5ppm (Note 1)

**FM Hum and Noise 12.5/25 kHz**: 37 dB / 43 dB

**Audio Response**: +1, -3 dB of 6 dB / octave pre-emphasis characteristic over 300 Hz – 3 kHz

**Audio Distortion**: <2%

### Receiver Specifications

<table>
<thead>
<tr>
<th>Frequency Band [MHz]</th>
<th>VHF</th>
<th>UHF</th>
<th>700 MHz</th>
<th>800 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>380-430 MHz</td>
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</tr>
<tr>
<td></td>
<td>470-512 MHz</td>
<td>851-869 MHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Receiver Sensitivity**: -115 dBm

**Frequency Stability**: 

**Selectivity 12.5 / 25 kHz**: 60 dB / 75 dB

**Intermodulation**: 70 dB

**Deviation 12.5 / 25 kHz**: +/-2.5 kHz / +/-5 kHz

**FM Hum and Noise 12.5 / 25 kHz**: 37 dB / 43 dB

**Audio Output (Repeater Detect Audio)**: 600 mV RMS nominal, flat response

**Audio Response**: +1, -3 dB of 6 dB / octave de-emphasis characteristic over 300 Hz – 3 kHz

**Audio Distortion**: <2%

**Note 1**: +/- 1.0ppm at 800Mhz in order to meet FCC / IC regulations
## General Specifications

### Indoor Enclosure

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Type</td>
<td>Textured light-gray polyester powder paint</td>
</tr>
<tr>
<td>Mounting Options</td>
<td>Wall Mount</td>
</tr>
<tr>
<td>Locks</td>
<td>Padlock Handle</td>
</tr>
</tbody>
</table>

### Outdoor Enclosure

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure Type</td>
<td>NEMA / EEMAC TYPE 4, 12, 13, IP66</td>
</tr>
<tr>
<td>Mounting Options</td>
<td>Pole Mount or Wall Mount</td>
</tr>
<tr>
<td>Battery Protection</td>
<td>Low Voltage Disconnect (LVD), Reverse Protection, Temperature Compensated Charging Voltage</td>
</tr>
<tr>
<td>Battery Low Voltage</td>
<td>10.5V DC (AC voltage has to be reapplied to reconnect the battery after it is disconnected by LVD)</td>
</tr>
<tr>
<td>RF Connector Lightning Protection</td>
<td>GAS Capsule (Spark Gap)</td>
</tr>
<tr>
<td>Locks</td>
<td>Padlock Handle</td>
</tr>
</tbody>
</table>

*Specifications are subject to change without notice*

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Motorola Customers have installed Fixed Mount Digital Vehicular Repeaters in the following applications:

- Fire Stations
- College Campuses
- Elementary and High Schools
- Hospitals
- Manufacturing Plants
- Outdoor coverage holes
- Subway Stations
- Road Tunnels
- Military Bases
- Airports