



PDR8000 RACKMOUNT REPEATER

COVERAGE WHERE YOU NEED IT

Poor radio coverage can put your team at risk. Enhance two-way radio coverage for special ops and security detail teams with the PDR8000® Rackmount Repeater.

The PDR8000 Rackmount Repeater is designed to be permanently installed in a desired location as either a standalone repeater or a site extender to provide radio coverage in difficult areas. The PDR8000 Rackmount can be linked to your Motorola Solutions dispatch console wherever it may be via a V.24 backhaul connection.

KEY FEATURES AND BENEFITS

- Available in VHF, UHF and 800 MHz bands
- Front display control panel interface
- Optional 50-Watt power amplifier
- Deployment profile capable (optional)
- End-to-end encryption supported
- Voting and comparator operation
- Fits into standard 19" Rack
- Requires 13.8V +/-20-% power (customer supplied)
- Sold exclusively through Motorola Solutions Inc.
- Alarms (optional)

APPLICATIONS AND USES

- RF coverage dead zones
- Incident Command
- State or Provincial parks
- Remote utility sites such as power stations and water stations

PDR8000 SPECIFICATIONS



GENERAL SPECIFICATIONS

| | |
|--|--|
| Dimensions: Height / Width / Depth | 10 1/2" x 19" x 15 3/4" (267 mm x 483mm x 400 mm) 6 RH |
| Approximate Weight | |
| • Without Power Amplifier | 26 lbs (11.8 kg) |
| • With Optional 50W Power Amplifier ^{1,2} | 31 lbs (14.1 kg) |
| Channel Spacing | 12.5 kHz or 25 kHz programmable |
| Number of Channels | 64 |
| Power Supply | 13.8V DC +/- 20% |
| DC Current Drain | |
| • Standby/Receive | 1.0A |
| • Transmit (Without Power Amplifier) | 7.0A |
| • Transmit (With Power Amplifier) | 11.5A |
| Operating Temperature | -30°C to +60°C |
| Antenna Impedance | 50 Ohms |
| Duty Cycle | Continuous (DVR) |
| External Connectors - Front | |
| • Computer Interface | USB |
| • V.24 | RJ-45 Type |
| • LAN | RJ-45 Type |
| • Ground | Stainless steel stud, 0.5" long with 10-32 thread |
| External Connectors - Back | |
| • RF Connector(s) | N Female |
| • DC Input | Terminal Block |
| • Ground | Ground Stud |
| • Alarm (Optional) | Terminal Block |



| TRANSMITTER SPECIFICATION | VHF | UHF | 800 MHz |
|--|--|--------------------|------------|
| Frequency Band [MHz] | 136-174 | 380-430 450-470 | 851-869 |
| Power Output @ Antenna Port | 20W 50W | 19W 50W | 17W 50W |
| <ul style="list-style-type: none"> • Without Power Amplifier • With Power Amplifier (Optional)² | | | |
| TOT Option | 10 seconds to 2550 seconds or Disabled | | |
| Max Spurious Output | -20dBm | | |
| Frequency Stability (-30 °C to +50 °C; +25 °C Ref.) | ± 1.5ppm | | |
| FM Hum and Noise 12.5 / 25 kHz | -37 dB / -43 dB | | |

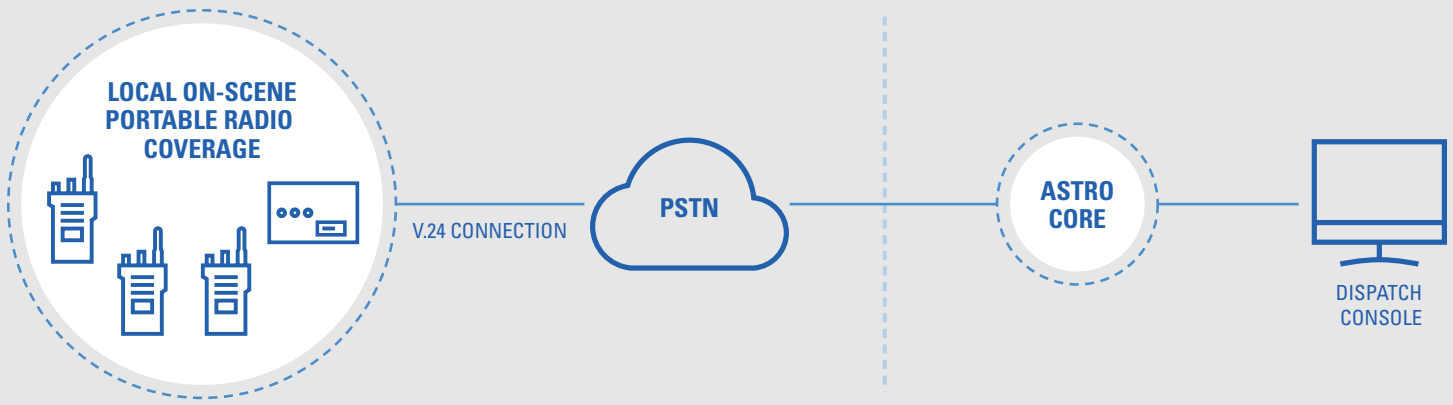
| RECEIVER SPECIFICATION | VHF | UHF | 800 MHz |
|--|---------------------|--------------------|---------|
| Frequency Band [MHz] | 136-174 | 380-430 450-470 | 806-824 |
| Receiver Sensitivity (simplex/duplex) | -115 dBm | | |
| Frequency Stability (-30 °C to +60 °C; +25 °C Ref.) | ± 1.5ppm | | |
| Selectivity 12.5 / 25 kHz | -60 dB / -75 dB | | |
| Intermodulation | -70 dB | | |
| Deviation 12.5 / 25 kHz | ± 2.5 kHz / ± 5 kHz | | |

| EQUIPMENT TYPE ACCEPTANCE | VHF | UHF | 800 MHz |
|---------------------------|------------------------------|---|---|
| FCC | 136-174 MHz L06-DVRSVHF | 380-406 MHz 406.1-512 MHz L06-DVRSUHF | 806-824 MHz 851-869 MHz L06-DVRS800 |
| Industry Canada | 138-174 MHz 2098B-DVRSVHF | 406.1-430 MHz 450-470 MHz 2098B-DVRSUHF | 806-824 MHz 851-869 MHz 2098B-DVRS800 |

Specifications are subject to change without notice

1 Power amplifier mounts in the same rack as PDR8000 Optional
2 50W power amplifier is not available in UHF and 800 MHz in Canada





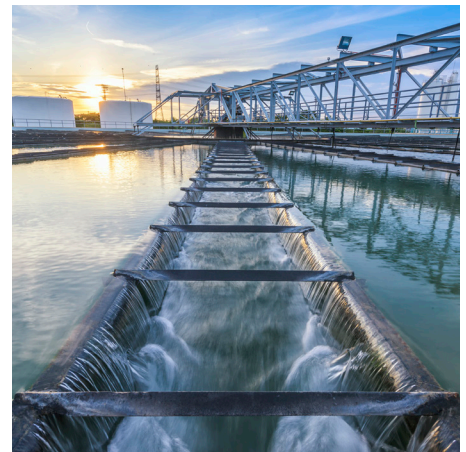
INCIDENT COMMAND

Ensure reliable communications and coordination during special security events and emergency incidents.



STATE AND PROVINCIAL PARKS

Establish reliable communications and increase the safety for visitors and park staff in remote areas.



REMOTE FACILITIES

Stay connected to your team while at remote facilities such as water treatment plants and power stations.



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