

## PDR8000 PORTABLE DIGITAL REPEATER

Special ops and security detail teams requiring enhanced Conventional two-way radio network coverage can look to the PDR8000® Portable Digital Repeater as their solution of choice when on the move. Designed with these special teams in mind, the lightweight suitcase is ideal for discreet travel.

Set up the PDR8000 suitcase at a special event or incident to swiftly provide local P25 or analog FM on-scene portable radio coverage. Connect to your Motorola Solutions dispatch console wherever it may be via a V.24 telephone connection or Ethernet IP (analog or P25) connection.

## **KEY FEATURES AND BENEFITS**

- All Bands VHF, UHF, 700 MHz and 800 MHz
- Lightweight construction less than 28 lbs.
- Rapid deployment with AC or DC power source capability
- Closed case operation
- Patented method to easily connect/swap duplexer and Booster Pack
- Wireline Ethernet IP connection to consoles supporting Digital Fixed Station Interface Protocol Version 1 (analog and digital)

- Able to use external duplexer
- · Local user interface
- Deployment profile capability
- End-to-end Encryption supported
- Voting and comparator operation
- · Cross patch capability
- Optional booster pack provides 50 watts output
- Platform support for future interfaces including Bluetooth, Wi-Fi and Ethernet

## **APPLICATIONS AND USES**

- Special events
- Interoperability
- Dignitary protection
- · In-building coverage
- · Natural disaster







488 mm (19.2") x 386 mm (15.2") x 185 mm (7.3")
27.8 lbs (12.6 kg)
IP65
100 VAC to 240 VAC, 47 Hz to 63 Hz
2.9A
UL60950-1 and IEC60950-1
13.8V DC -15% / +20%
0.9A 7.0A
-30 to +55 °C (-22 to 131 °F) -30 to +50 °C (-22 to 131 °F)
50 Ohms
N female, with Dustcap N female, with Dustcap N female, with Dustcap N female, with Dustcap powerCON TRUE1, NAC3MPX, with Sealing Cover LEMO push pull, EGL.2K.302.CLA, with Dustcap LEMO push pull, EGG.1K.308.CLL, with Dustcap RJ-45 Type, 17-111574, with Dustcap RJ-45 Type, 17-111574, with Dustcap Stainless steel stud, 0.5" long with 10-32 thread
USB (type B)
Digital 12.5 kHz programmable Analog: 12.5 or 25 kHz programmable
64

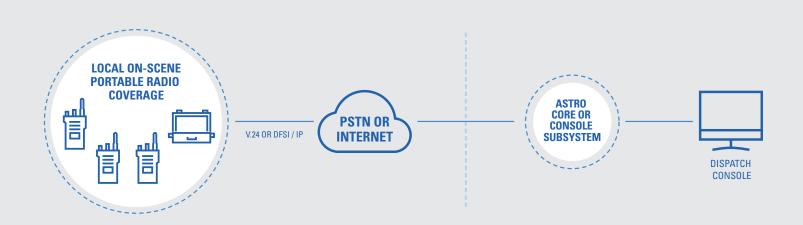


EQUIPMENT TYPE ACCEPTANCE	VHF	UHF	700 MHz	800 MHz
FCC	LO6-DVRSVHF	LO6-DVRSUHF	L06-DVRS700	LO6-DVRS800
Industry Canada	2098B-DVRSVHF	2098B-DVRSUHF	2098B-DVRS700	2098B-DVRS800

TRANSMITTER SPECIFICATION	VHF	UHF	700 MHz	800 MHz
Frequency Band [MHz]	136-174	380-430 450-470	764-775	851-869
RF Output Power (without Duplexer) — Programmable per channel	20W	19W	16W	17W
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 25 kHz	-37 dB			

MILITARY STANDINGS COMPLIANCE	MIL-STD-810G
High Temperature	501.6
Low Temperature	502.6
Temperature Shock	503.6
Rain	506.6
Humidity	507.6
Salt Fog	509.5
Vibration	514.7
Shock	516.7
Safety	EN 62368-1

RECEIVER Specification	VHF	UHF	700 MHz	800 MHz
Frequency Band [MHz]	136-174	380-430 450-470	794-805 764-775	806-824 851-869
Receiver Sensitivity — Digital P25 5% BER (on Internal RX Port)	-115dBm			
Selectivity 12.5kHz	60dB			
Intermodulation	70dB			
Deviation 12.5 / 25 kHz	37dB			



## **OPTIONAL EXTERNAL BOOSTER PACK**

The PDR8000 combined with the Booster Pack can provide wider coverage for your mobile users. The Booster Pack is housed in a separate suitcase the same size as the PDR8000. During operation, the PDR8000 automatically detects the presence of the Booster Pack and adjusts its operating parameters to be compatible with the Booster Pack, providing a pre-duplexer output signal of 50 watts.

**EQUIPMENT TYPE** 

**ACCEPTANCE** 

Industry Canada

FCC

GENERAL SPECIFICATIONS	
Dimensions: Width / Height / Depth (without Antenna)	488 mm (19.2") x 386 mm (15.2") x 185 mm (7.3")
Weight (without duplexer)	23.2 lbs (10.5 kg)
AC Supply Voltage	100 VAC to 240 VAC, 47 Hz to 63 Hz
AC Current at 120V AC	4.0A
AC Supply Approvals	UL60950-1 and IEC60950-1
DC Supply Voltage	13.8V DC -15% / +20%
DC Current Drain • Standby/Receive • Transmit	0.7A 14.3A
Operating Temperature,Full Power Output  • 50% duty cycle (case closed)  • 100% duty cycle (case open)	-30 to +55 °C (-22 to 131 °F) -30 to +60 °C (-22 to 140 °F)
External Connectors  • RF Input  • RF Output  • AC Input  • DC Input	N female, with Dustcap N female, with Dustcap powerCON TRUE1, NAC3MPX, with Sealing Cove LEMO push pull, EGL.2K.302.CLA, with Dustcap

TRANSMITTER SPECIFICATION	VHF	UHF	700/800 MHz
Frequency Band (MHz)	136-174	380-430 450-470	764-775 851-869
Typical Power Output		50W	

**VHF** 

CWWDSDTV100XX

7291A-DSDT-

V100XX

**UHF** 

CWWDSDTUL50

CWWDSDTUN50

n/a

700/800 MHz

CWWDSDTJK50

n/a



AUX

Ground

Learn more at www.motorolasolutions.com/pdr8000





LEMO push pull, EGG.1K.308.CLL, with Dustcap

Stainless steel stud, 0.5" long width 10-32 thread

<sup>1.</sup> Specifications are typical and subject to change without notice.

<sup>2.</sup> Optional 50 W booster not available in UHF and 700/800 MHz in Canada.