

P25 TRANSPORTABLE DIGITAL VEHICULAR REPEATER SYSTEM



Bringing critical two-way radio communications to a large building or critical incident can be a challenge. The P25 Transportable DVRS is a rapid deployment repeater designed to bring two-way portable radio communications to a critical incident, command post, or special event. It is an ideal solution that keeps public safety and federal government agencies connected in the moments that matter.

The P25 Transportable DVRS consists of a best in class vehicular repeater (DVRS), filters and power supply installed in a protective carrying case. Mounting space is provided to add the certified, remote mount APX™ or XTL™ series mobile radios of the user's choice. The case can be powered by 12VDC or 120VAC. An optional external battery pack provides 2 hours of use.

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.
- 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.
- Operated through mobile radio control head.
- Available in Orange or Black.
- Made of Ultra High impact structural copolymer polypropylene with solid wall design, to meet the most demanding environments.
- Sold exclusively through Motorola Solutions.



GENERAL SPECIFICATIONS



Dimensions: Height / Width / Depth / Weight

523.2mm (20.6") x 431.8mm (17") x 218.4mm (8.6")
50 lbs. (22.7 Kg)

Channel Spacing

12.5 or 25 kHz programmable

Number of Channels

192

CTCSS / DCS

Programmable per channel

Power Supply

13.8V DC +/- 20%, negative ground only
117 V AC or 220V AC

Current Drain	117 VAC	13.8 VDC
Standby Receive	0.5A	1.6A
Transmit	2.8A	14.5A

Operating Temperature

-30°C to +60°C

Antenna Impedance

50 Ohms

Duty Cycle

Continuous (DVR)

External Connectors

Antenna

N Female

Computer Interface

USB

Power Supply

AC-MS3102E14-7P; DC – MS3102E16-11P



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Tel. 1-800-701-9180 or (905) 660-5548, Fax (905) 660-6858

GENERAL SPECIFICATIONS



Equipment Type Acceptance	VHF	UHF	700 MHz	800 MHz
FCC	136 – 174 MHz LO6-DVRSVHF	380-406 MHz 406.1512 MHz LO6-DVRSUHF	764-776 MHz 794-806 MHz LO6-DVRS700	806-824 MHz 851-869 MHz LO6-DVRS800
Industry Canada	138 – 174 MHz 2098B-DVRSVHF	406.1-430MHz 450-470MHz 2098B-DVRSUHF	768-776 MHz 798-806 MHz 2098B-DVRS700	806-824 MHz 851-869 MHz 2098B-DVRS800
Transmitter Specifications	VHF	UHF	700 MHz	800 MHz
Frequency Band [MHz]	136 – 174 MHz	380-430 MHz 450-470 MHz 470-512 MHz	764-776 MHz	851-869 MHz
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			
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	VHF	UHF	700 MHz	800 MHz
Frequency Band [MHz]	136 – 174 MHz	380-430 MHz 450-470 MHz 470-512 MHz	794-806 MHz 764-776 MHz	806-824 MHz 851-869 MHz
Receiver Sensitivity	-115 dBm			
Frequency Stability	+/- 1.5 ppm			
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%			

Please note that 09 Control heads are not compatible with the Transportable DVRS suitcase models. High Power VHF mobile Radios are also not compatible with any Transportable DVRS suitcase models



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Optional Battery Pack and Charger for Transportable DVRS Specifications

Backup Time for DVRS

(50:50 Tx-Rx Duty Ratio, with New Batteries) 2 hrs

Dimensions Height / Width / Depth

Battery Pack 245mm (9.65") / 280mm (11.0") / 175mm (6.9")

Battery Charger 51mm (2.0") / 127mm (5.0") / 124.5mm (4.9")

Weight

Battery Pack 13.0kg (28.5lb)

Battery Charger 1.8kg (4.0lb)

Battery Charger Input Voltage 100-132V AC, 50-60 or 220V AC, 50-60 Hz

Battery Pack Output Voltage Range 10.9V DC – 13.8V DC

Charging Temperature +20°C to +25°C (+68°F to +77°F)

Operating Temperature -15°C to +50°C (+5°F to +122°F)

Storage Temperature +25°C (+77°F)

Charger Output DC Fuse 7.5A, Automotive Blade Type, Fast Blow

(Reverse DC Polarity Protection)

Charger Compliance CSA C22.2, UL 1236

Charger DC Plug Compliance MIL-C-5015

Connectors

Battery Pack DC Output CA3102E16-11SB, "MIL-C-5015" Bayonet

Charger AC Input NEMA 5-15P Three Prong AC Plug

Charger DC Output CA3106E16-11PB, "MIL-C-5015" Bayonet

Charging Time 10 hrs approx.

Float Charge Required

Note: Specifications are subject to change without notice

DVRS Battery Pack



3277 Langstaff Road, Concord, ON Canada L4K 5P8
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