

MOTOTRBO™

Professional Digital Two-Way Radio System
DR 3000 Repeater



CLARITY

PRODUCTIVITY

VERSATILITY

VALUE



Shift into digital.

Introducing MOTOTRBO Professional Digital Two-Way Radio System. The future of two-way radio.

MOTOTRBO brings you more performance, productivity and value, thanks to digital technology that delivers increased capacity and spectrum efficiency, integrated data communications and enhanced voice communications. MOTOTRBO is ideal for professional organisations that need a customisable, business-critical communication solution.

Unique MOTOTRBO System Benefits for Enhanced Productivity

MOTOTRBO offers a private, standards-based, highly cost-effective solution with a complete system of portable radios, mobile radios, repeaters, accessories and services. It:

- Provides **twice the calling capacity** (compared to analogue radios) for the price of one license. A second call does not require a second repeater.
- **Doubles the number of users** you can have on a single licensed 12.5 kHz channel.
- **Supports applications** through Motorola's Application Partner Programme
- Provides **clearer voice communications** over a greater range than comparable analogue radios.
- Offers **enhanced battery life**.
- Enables **additional functionality** including dispatch data, and enhanced call signaling.
- Provides **easy migration** from analogue to digital.





DR 3000

Repeater



- 1 100% continuous full duty cycle
- 2 Supports two simultaneous voice or data paths in digital TDMA mode.
- 3 Integrated power supply.
- 4 Operates in analogue or digital mode, bright, clear, colored LEDs indicate mode.
- 5 LEDs clearly indicate transmit and receive modes in both channel slots.
- 6 Sturdy handles make installation and handling easier.

Repeater Standard Package

- Repeater
- Power Cord

Additional Features

- Repeater Diagnostics and Control
- Multiple Site Support (IP Site Connect)
- 16 channels

MOTOTRBO™ System Components and Benefits

DR 3000 - REPEATER

Specifications

GENERAL SPECIFICATIONS

Channel Capacity	16
Typical RF Output	
Low Power UHF1 and VHF	1-25 W
High Power UHF2 (450-512 MHz)	1-40 W
High Power UHF2 (512-527 MHz)	1-25 W
High Power UHF1	25-40 W
High Power VHF	25-45 W
Frequency	136-174 MHz (VHF) 403-470 MHz (UHF1) 450-527 MHz (UHF2)
Dimensions (HxVxL)	132.6 x 482.6 x 296.5 mm
Weight	14 kg
Voltage Requirements	100-240 V AC (13.6 V DC)
Current Drain:	
Standby	0.1A (100 V AC) 0.5A (240 V AC) 1.0A (typical) (13.4 V DC)
Transmit	
Low Power	2.5A (100 VAC) 1.5A (240 VAC) 7.5A (typical) (13.4 VDC)
High Power	4.0A (100 V AC) 1.8A (240 V AC) 12A (typical) (13.4 V DC)
Operating Temperature Range	-30°C to +60°C
Max Duty Cycle	100%

TRANSMITTER

Frequency	136-174 MHz (VHF) 403-470 MHz (UHF1) 450-527 MHz (UHF2)
Channel Spacing	12.5 kHz/ 20 kHz/ 25 kHz
Frequency Stability	+/- 0.5 ppm (-30° C, +60° C, +25° C)
Power Output	
Low Power UHF1 and VHF	1-25 W
High Power UHF2 (450-512 MHz)	1-40 W
High Power UHF2 (512-527 MHz)	1-25 W
High Power UHF1	25-40 W
High Power VHF	25-45 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 4 kHz @ 20 kHz +/- 5.0 kHz @ 25 kHz
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz
Audio Response	+1, -3 dB
Audio Distortion	3%
Digital Vocoder Type	AMBE+2
Digital Protocol	ETSI-TS 102 361-1, 2 & 3

RECEIVER

Frequency	136-174 MHz (VHF) 403-470 MHz (UHF1) 450-527 MHz (UHF2)
Channel Spacing	12.5 kHz/ 20 kHz/ 25 kHz
Frequency Stability	+/- 0.5 ppm (-30° C, +60° C, +25° C)
Analogue Sensitivity	0.30 uV (12 dB SINAD) 0.22 uV (typical) (12 dB SINAD) 0.4uV (20 dB SINAD)
Digital Sensitivity	5% BER: 0.3 uV
Intermodulation	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz, 70 dB @ 20/25 kHz
Spurious Rejection	70 dB
Audio Distortion @ Rated Audio	3% (typical)
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz
Audio Response	+1, -3 dB
Conducted Spurious Emission	-57 dBm < 1GHz

For more information please contact your local Motorola Authorised Dealer or Distributor



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