

# MOTOTRBO™

Professional Digital Two-Way Radio System  
DR 3000 Repeater



CLARITY

PRODUCTIVITY

VERSATILITY

VALUE

Shift into digital.

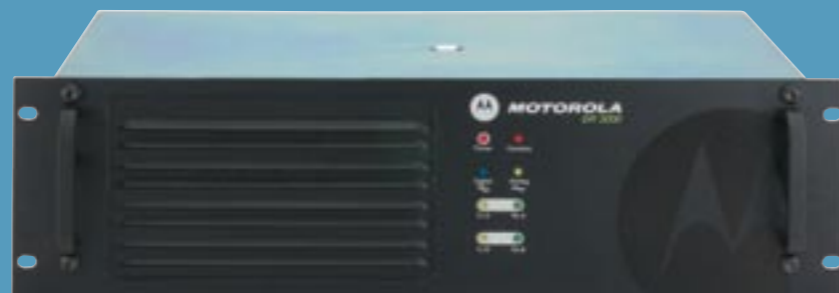
# Introducing MOTOTRBO Professional Digital Two-Way Radio System. The future of two-way radio.

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.



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## MOTOTRBO System Components and Benefits

### DR 3000 Repeater



- 1 100% continuous full duty cycle at 25-40W
  - 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

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## MOTOTRBO™ System Components and Benefits

### DR 3000 - REPEATER

## Specifications

### GENERAL SPECIFICATIONS

Channel Capacity	1
Typical RF Output	
Low Power	1-25 W
High Power	25-40 W
Frequency	403-470 MHz
Dimensions (HxWxL)	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	0.5A (1A DC typical)
Transmit	1.5A (1.1A DC typical)
Operating Temperature Range	-30°C to +60°C
Max Duty Cycle	100%

### RECEIVER

Frequencies	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz
Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.5 ppm
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 @ 25 kHz
Spurious Rejection	70 dB
Audio Distortion @ Rated Audio	3% (typical)
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz
Audio Response	+1, -3 dB
Conducted Spurious Emission	-57 dBm < 1GHz

### TRANSMITTER

Frequencies	403-470 MHz
Channel Spacing	12.5 kHz / 25 kHz
Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.5 ppm
Power Output	
Low Power	1-25 W
High Power	25-40 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 25 kHz
Audio Response	+1, -3 dB
Audio Distortion	3%
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361-1



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