

ALINCO

Quality. Style. Performance!



VHF/UHF Dual Band Transceiver

DR-MD500 FC



Featuring Auto Repeater Roaming!



■ DMR Tier I and Tier II

■ MAX output power 55W(VHF) / 40W(UHF)

■ 4000 channels, 250 zones, 250 scan lists

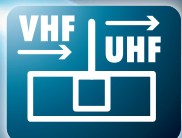
■ 300,000 Digital contact list

■ Large 1.77 inch full color LCD display

■ Preset Digital encryption codes



Real Two-slot
DMR



Cross-band
Repeater



Digital Voice
Recorder



Plenty of
Text Messages

Versatile features

Common to Digital and Analog modes



- 4000 channels, 250 zones, 250 scan lists
- Displays DMR ID, Call sign, Name and Geographical info
- Allows CSV export/import of setting parameters
- Easy import of DMR contact database (entire world wide)
- Single or dual channel selectable
- FM Broadcasting receiver with 100 memory channels and VFO
- Manually programmable Side and Hot keys
- Automatic date and time calibration by GPS
- X-band repeat, Analog uplink/Digital downlink or vice versa
- Emergency alarm
- Mixed Mode Operation: Automatically detects and switches between analog and digital modes depending on the signal received
- Recording time 4 Hours

Digital mode

- 10,000 Talk Groups, 250 Radio ID, 300,000 contact lists
- Displays the Caller ID and name
- 32 preset encryption codes plus 255 preset AES 256bit Encryption codes
- Selective calls including Individual, Group or All
- Digital Monitor function to receive signals without matching ID or color codes
- Plenty of Text Messages 100 pre-programmable short messages of up to 200 characters each, capable of editing through the keys without using a PC

Analog mode

- Variety of signaling; CTCSS/DCS/DTMF/ 2-TONE/5-TONE encode and decode
- Four different Tone-burst tones
- Programmable Auto Repeater Shift in VFO mode
- Kill & Stun functions

Specifications

General

Frequency Range	TX/RX	136 - 174MHz / 400 - 480MHz
	RX only	76-108MHz
Number of Channels	4000ch	
Zones per Radio	250 zone (MAX 250ch/zone)	
Channel Spacing	Analog : 12.5/25kHz	
	Digital : 12.5kHz	
Operating Voltage	13.8V DC nominal \pm 15%	
Operating Temperature Range	- 20°C to + 60°C (- 4 °F to + 140 °F)	
Frequency Stability	\pm 2.0ppm	
Antenna Impedance	50Ω	
Dimensions (W x H x D Approx.) with battery pack	141 x 40 x 188 mm (5.55 x 1.57 x 7.40 inches)	
Weight (Approx.)	1.04 kg / 36.68 ounces	

Transmitter

RF Power Output	VHF : 55W (144-148MHz) / 50W / 25W / 10W / 1W	
	UHF : 40W / 25W / 10W / 1W	
Spurious Emission	Less than 1GHz : - 36dBm	
	More than 1GHz : - 30dBm	
FM Hum & Noise (Analog)	25kHz	: 40dB
	12.5kHz	: 36dB
Modulation	Analog : 16K0F3E / 11K0F3E	
	Digital : 7K60FXD / 7K60FXE	

Receiver

Sensitivity (Analog/12dB SINAD)	25kHz	: 0.25uV
	12.5kHz	: 0.35uV
Sensitivity (Digital/BER)	5%	: 0.3uV
	1%	: 0.7uV
FM Hum & Noise (Analog)	25kHz	: 45dB
	12.5kHz	: 40dB
Audio Distortion	Less than 5%	
Audio Output	2W /8Ω	

Standard Accessories

Microphone		Mobile Bracket		DC Cable	
EMS-88 with DTMF keyboard		ADFM78		ADUA38 with Fuse Holder	
Spare Fuses (15A) 2pcs	Hardware Kit for Bracket	Mic Hanger	ERW-21 PC Interface Cable		



Standard accessories declared herein are our factory default and may vary at moment of sales depending on the market and Dealers' sales policy.

Authorized Dealer:

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 * Projections are not included in the declared dimension values.
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Caution Please be sure to read the instruction manual before using the product for your safety.



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