

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 and Name
- 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
- 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		± 2.0 ppm
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		ADFM78Z		ADUA36Y 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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Please be sure to read the instruction manual before using the product for your safety.



ALINCO

INCORPORATED / Electronics Division

Yodoyabashi Dai-Bldg 13F, 4-4-9 Koraibashi,
 Chuo-ku, Osaka 541-0043 Japan
 Phone: +81-6-7636-2362 Fax: +86-6-6208-3802
<http://www.ALINCO.com>
 E-mail: export@alinco.co.jp

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