ALINCO



VHF/UHF AMATEUR RADIO DIGITAL TRANSCEIVER

DR-MD520T/E

T:145/222/440MHz E:144/430MHz F© (E





- **Built-in GPS** receiver with APRS support
- **Automatic Repeater Roaming**
- DMR Tier I and Tier II
- MAX output power 55W(VHF) / 40W(UHF)
- 4000 channels, 250 zones, 250 scan lists
- 500,000 Digital contact list
- Large 1.77 inch full color LCD display



GPS ReceiverBuilt-in



Real Two-slot DMR



Plenty of Text Messages



Digital Voice Recorder

APRS is a registered trademark of Bob Bruninga, WB4APR.

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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 broadcast receiver with 100 memory channels
- Manually programmable Side and Hot keys
- Automatic date and time calibration by GPS
- X-band repeat, Analog uplink/Digital downlink or vice versa (T-version only)
- · Emergency alarm
- · Mixed Mode Operation: Automatically detects and switches between analog and digital modes depending on the signal received
- · Recording time 4 Hours
- · Automatic date and time calibration by GPS

Digital mode

- · 10,000 Talk Groups, 250 Radio ID, 500,000 contact lists
- Displays the Caller ID and name
- · 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 (DR-MD520T)	RX: 136MHz-474MHz, 220MHz-225MHz, 400MHz-480MHz 108MHz-137MHz (AM) 76MHz-108MHz(WFM) TX: 144MHz-148MHz, 222MHz~225MHz.			
	420MHz~450MHz			
Frequency Range (DR-MD520E)	RX : 136MHz-174MHz, 400MHz-480MHz 108MHz-137MHz (AM) 76MHz-108MHz(WFM)			
,	TX : 144MHz~146MHz, 430MHz~440MHz			
Operating model	16K0F3E/11K0F3E/7K60FXD/7K60FXE			
Number of Channels	4000 channels			
Channel Spacing	Analog: 12.5/25KHz			
Charmer Spacing	Digital: 12.5KHz			
Zones per Radio	250 zone (MAX 250ch/zone)			
Operating Voltage	13.8V DC ±15%			
Operating Temperature Range	-20~+60°C			
Frequency Stability	±2.0ppm			
Antenna Impedance	50Ω			
Dimensions (WxHxD Approx)	141x40x188 mm (5.55x1.57x7.40 inches)			
Weight (Approx)	1.04kg /36.68 ounces			
Recording time	4 Hours			
Current drain	15 A max.			

Transmitter

RF Power Output	145MHz: 55W/25W/10W/1W	
	223MHz: 5W / 1W (Only T version)	
	435MHz: 40W/25W/10W/1W	
Channel Spacing	Less than 1GHz: -36dBm	
	More than 1GHz: -30dBm	
FM Hum & Noise (Analog)	25kHz: 40dB	
	12.5kHz: 36dB	
Adjacent channel power	-60dB	

Receiver

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

Cellular frequencies blocked on T-version.

Standard Accessories

Microph	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		EA-0289 GPS-Anenna	

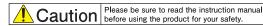


Standard accessories declared herein are our factory default and may vary at moment of sales depending on the market and Dealers' sales policy.

Authorized Dealer:

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Yodoyabashi Dai-Bldg 13F, 4-4-9 Koraibashi, Chuo-ku, Osaka 541-0043 Japan Phone: +81-6-7636-2362 Fax: +86-6-6208-3802