

Kydera®

PROFESSIONAL DIGITAL TWO-WAY RADIO

Features:

- ★ On a permitted frequency, DMR radio can obtain double calling capacities by means of TDMA technology.
- ★ Supporting both analogue and digital working modes, and realizing a stable switch between both modes.
- ★ Prolonging battery life. Compared with analogue radio, the battery life between two charging cycles for TDMA digital radio is much better, max up to 40%.
- ★ Integrated voice and data, not only improve the work efficiency, but also support multiple applications.
- ★ Able to define side keys to facilitate users to do some common functions.
- ★ Providing TFT color display and visual icons, and user-friendly menu operation.
- ★ To use digital vocoder AMBE+2™ to ensure excellent audio quality. Whatever in kinds of environment, it could provide clearer sound quality than analogue radio.
- ★ To use TFT high definition display makes operation easier and agiler.



CDM-550H Digital Mobile Radio



GPS(Optional)



Voice Encryption



Digital / Analogue
mode switchable

Main features

- ◆ TOT
- ◆ Scan
- ◆ FM radio
- ◆ Backlight Control
- ◆ High/Low power
- ◆ Language Selection
- ◆ Profiles selection
- ◆ Keytone Control
- ◆ Display mode
- ◆ Zone Setting
- ◆ Talk Around

Digital features

- ◆ Message
- ◆ Remote Stun
- ◆ Remote Kill
- ◆ Remote Revive
- ◆ Private Call
- ◆ Group Call
- ◆ General call
- ◆ Contacts

- ◆ No-address Call
- ◆ Remote Monitor
- ◆ Remote Detection
- ◆ Call Alert
- ◆ Call log
- ◆ Emergent Alarm
- ◆ Voice Encryption
- ◆ GPS (Optional)

Analog features

- ◆ CTCSS
- ◆ DCS
- ◆ Scrambler
- ◆ Compandor

Technical parameters

Specification

Model	CDM-550H(DMR)	
Frequency Range	VHF	UHF
	136-174MHz	400-430 / 440-480MHz
Channel Capacity / Zone	16 / 16	
Digital Mode	TDMA-T2(DMR)	
Temperature	-20°C~+60°C	
Measurement(HxWxD)	140x175x46mm	
Voltage Rating	DC 13.8V	

Receiver

Frequency	136-174MHz	400-430/440-480MHz
Channel spacing	12.5kHz /25kHz /6.25kHz	
Frequency stability (-20°C、+60°C、+25°C)	+/-1.5ppm	
Analog sensibility	0.25 μV (12dB SINAD) 0.3 μV (20dB SINAD)	
Digital sensibility	5% BER: 0.3μV	
Intermodulation	65 dB	
Adjacent channel selectivity	60 dB @ 12.5kHz 65 dB @ 25kHz	
Spurious rejection	65 dB	
Rated audio	2W	
Audio distortion @ rated audio	3%	
FM hum and noise	-40 dB @ 12.5kHz -45 dB @ 25kHz	
Audio response	+1、-3dB	
Spurious emission	-57 dBm	

Transmitter

Frequency range	136-174MHz	400-430/440-480MHz
Channel spacing	12.5kHz /25kHz / 6.25kHz	
Frequency stability (-20°C、+60°C、+25°C)	+/-1.5ppm	
Output power	L: 25W	25W
	H: 50W	40W
Modulation Limited	+/-2.5kHz @ 12.5kHz +/-5.0kHz @ 25kHz	
FM hum and noise	-40 dB @ 12.5kHz -45 dB @ 25kHz	
Conducted / radiated emission	-36 dBm < 1GHz -30 dBm > 1GHz & < 4GHz	
Adjacent channel power	-60 dB @ 12.5kHz -65 dB @ 25kHz	
Audio response	+1、-3dB	
Audio distortion	3%	
FM modulation	12.5 kHz: 11KOF3E 25 kHz: 16KOF3E	
4FSK digital modulation	12.5kHz only data: 7K60FXD 12.5kHz data and audio: 7K60FXE	
Digital vocoder type	AMBE+2™	
Digital agreement	ETSI-TS102 361-1 -2 -3	

GPS (Optional)

Precisely and standard designed for a long-term positioning (95% value > could find 5 satellites @ rated -130dBm signal strength)	
TTFF (time to fist fix) cold start	< 1 min
TTFF(time to fist fix) warm start	< 10 s
Horizontal position accuracy	< 10 ms