

RT90

DIGITAL MOBILE TWO-WAY RADIO

Dual band, dual standby, dual display, dual time slot

- RT90 supports analog and digital mode, It provides dual band, dual standby, dual display, dual time slot, operating on both 400-480MHz UHF frequencies and 136-174MHz VHF at up to 50 watts VHF and 45 watts UHF.
- Using Time-Division Multiple-Access digital technology, AMBE++ vocoder, compatible with Mototrbo and DMR Tier I & II.
- The RT90 supports 250 zones, 3000 channel, 10000 contacts, It has built-in CTCSS/DCS, channel scan, priority scan, short text message features, draft message edit, contacts check and edit, and encryption.
- RT90 has other function, including Private Call, Group Call and All Call, it also includes Lone worker mode, power save mode, low power alarm, an emergency alarm and VOX capability.



RETC VIS



RT90

Feature:

- Output power: 50W
- Use TDMA digital function
- Compatible with Mototrbo Tier I &II
- Dual band, dual standby, dual display, dual time slot
- 250 zone, 3000 channel, 10000 contacts
- Digital mode and Analog mode
- Single call, group call and all call
- Emergency function
- Remote kill/stun/Activate
- Group match/single match
- Record function
- PC programmable function
- CTCSS.DCS encoding and decoding function
- PC password protection function
- Color LCD Display
- Programmable functional keys
- Low Voltage prompt
- Upgradeable by firmware
- TOT
- SQL Setting
- Scanning Function and priority scanning
- Monitor Function
- VOX Transmitting
- Lone Worker
- Time and zone setting

Transmitter

Audio Response	+1dB ~ -3dB
RF Power Output	L:25W H:50W (VHF) L:25W H:45W (UHF)
Digital vocoder type	AMBE++
FM Hum and Noise	-40dB @12.5KHz -45dB @25KHz
Digital agreement	DMR
Modulation limited	+/- 2.5KHz @ 12.5 KHz +/-5.0KHz @ 25KHz
Audio distortion	3%
Conducted/radiated emission	-36 dBm < 1GHz -30 dBm > 1GHz < 4GHz
Digital protocol	ETSI TS 102361-1,-2,-3
Adjacent channel power	-60dB @12.5KHz -65dB @25KHz
FM Modulation	12.5KHz:11KOF3E 25KHz:16KOF3E
4FSK digital modulation	12.5KHz only date:7K60FXD 12.5KHz date and audio:7K60FXE

General

Frequency Range(MHz)	VHF: 136-174Mhz UHF:400-480Mhz
Channel	3000
PLL Channel Spacing	6.25/12.5/25KHz
Voltage Rating	DC 13.8V
Operating Temperature	-30℃~+60℃
Storage Temperature	-30℃ ~+85℃
Dimention	143*50*175 mm
Compatible With American Military Standard	(MIL-STD-810C/D/E)

Package includes:



Mobile radio



Handheld mic



Bracket



Power cable



Accessories



User's manual

Receiver

Frequency stability (-20℃ +60℃, +25℃)	+/-1.0ppm
Digital Sensibility	0.3uV/-117.4dBm (BER 5%) 0.7uV/-110 dBm (BER 1%)
Audio distortion @ rated audio	≤3%
Analogue Sensibility	0.35uV/-116dBm(20dB SINAD) 0.22uV/-120dBm(20dB SINAD)
Rated audio	5W
Adjacent Channel Selectivity	TIA603C:60dB@ 12.5 KHz ETSI: 60dB@12.5 KHz
C0-Channel Rejection	2dB @12.5KHz
Intermediation	TIA603C:65 dB ETSI:65dB
Audio response	+1dB~-3dB
Spurious Rejection	TIA603C:70dB ETSI:70dB
Audio response	+1dB~-3dB
FM Hum and Noise	-40dB @12.5KHz -45dB @25KHz
Spurious emission	-57dBm@m < 1GHz -47dBm@m < 1GHz