

DMR Digital Two Way Radio UHF 2W  
VOX SCAN Scrambler CTCSS/DCS Function

**RETCVIS**

# RT53

Walkie Talkie with DMR Alarm



## Main Features

- UHF Full-Frequency Radio
- DMR True2-Slot dual time slot
- Digital and analog compatible
- Digital signaling function
- High/low power switch
- High sound quality
- Alarm function
- Digital mode supports the use of repeater
- Side buttons can be customized without changing the users operating habits

## Main technological specification

Frequency range	UHF:400-470MHz
Memory Channel	Up to 1024
Frequency Stability	±1.0ppm
Operating Temperature	-30°C~+60°C
Operating Voltage	DC 3.7V
Dimension	128×60×34mm ( no including antenna)
Weight	191g

## Transmission

Output power	High:2W Low:0.5W
Output Consumption	Analog≤1.2A Digital≤0.8A≤0.18A
Consumption	16K♠F3E@25KHz
FM modulation	141K♠F3E@20KHz11K♠F3E@12.5KHz
4FSK digital modulation	12.5KHz for data:7K60FXD 12.5KHz for data and voice :7K60FXE
Modulation Distortion	≤5%
Signal-to-noise(wide/narrow)	≥45dB@25KHz ≥40dB@12.5KHz
Adjacent Channel power	≤-65dB ≤-60dB
Audio Response	+1~3dB
Antenna Port Spurious	9KHz-1GHz: ≤-36dBm 1GHz-12.75GHz: ≤-30dBm
Digital Protocol	ETSI-TS102 361-1,-2,-3
Vocoder type	AMBE+2 TM

## Reception

Analog receive sensitivity	-122dBm (12dB SINAD)
Digital receive sensitivity	-120dBm (BER≤5%)
Audio power	1W
Audio distortion	<10%
Audio response	+1~-3dB
Signal imitation	≥70dB
Inter-mediation (Wide/ narrow)	≥62dB/≥58dB
Adjacent channel selectivity	≥65dB/≥60dB
Receive Current	≤380mA
PM noise	≥45dB@25KHz /≥40dB @12.5KHz

## Package includes

- 1 x RT53 Two Way Radio
- 1 x Antenna
- 1 x Battery
- 1 x Belt Clip
- 1 x Sling
- 1 x Power Adapter
- 1 x User Manual

CE FCC RoHS 

## Shenzhen Retevis Technology Co.,Ltd

Add: 7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli  
6th Road, Jihua Street, Longgang District, Shenzhen, China

Web: [www.retevis.com](http://www.retevis.com)

E-mail: [kam@retevis.com](mailto:kam@retevis.com)

Facebook: [facebook.com/retevis](https://facebook.com/retevis)