



Raditek Handset

VHF, UHF Portable Radios



Features:

- Easy to grip, volume and channel selection knobs
- LCD color display
- Big Push Buttons for easy operation
- Multiple and programmable special function buttons
- Tri-color Status Indicator
- Compatible Accessory Connector
- Large speaker for low distortion, high quality audio
- MIL-STDF compliant
- Meets IP67



Our radios combine exceptional, two-way radio functionality with analog and TDMA digital technology to deliver increased capacity, spectrum efficiency, integrated data, longer battery life, enhanced voice communications and greater range.

Superior Product Features:

Ergonomic design

The large size color display allows good visibility even under extremely strong light. The industrial design ensures convenient operation and remarkable performance for the most extreme uses.

Increased Operations

Compared to analog operations these radios can obtain up to 40% additional operation time in digital mode. They are equipped with a standard high capacity 2000mAh Li-ion battery. An optional 2500mAh battery is also available.

Reliable Quality

They are strictly compliant with MIL STD-810 C/D/E/F/G and IP67 standards, ensuring outstanding performance even under harsh environments.

Dual Modes (Analog + Digital)

RHS-VHF/UHF series can operate in either analog or digital mode. It is compatible with the prevalent analog system, ensuring a smooth analog-to-digital transition.

Versatile Voice Calls

Intelligent signaling of **RHS-VHF/UHF** supports various voice call types, including Private Call, Group Call, All Call and Emergency Call.

Superior Voice

With the combined application of narrowband codec and digital error-correction technologies, these radios are capable of ensuring superior voice under noisy environment or at the edge of the coverage area. In addition, voice is optimized with the adoption of AGC technology and a 1.5 Watt speaker for loud, clear and crisp voice communication.

Higher Spectrum Efficiency Higher Channel Capacity

Benefitting from the TDMA technology, they allow twice the channels based on the same spectrum resource. This is beneficial to relieve the increasing shortage of spectrum resources

Versatile Features

In addition to conventional communications services, they feature rich data services and selectable functions, such as message, scan, emergency, lone worker, man down (optional), etc.

Standard Package

Radio, 2000 mAh Li-ion battery, rapid rate desktop charger, antenna, belt clip and user manual.

Options also include:

Bluetooth (optional)

Vibrate (optional)

Alerts the reception of any voice or message in a noisy or low-volume conditions.

GPS (optional)

Various Analog Signaling Types

RHS-VHF/UHF supports various analog signaling types (QDC1200, DTMF Encode, 2-Tone and 5-Tone).

Order Examples: RHS-VHF-v20

Description: (Handset, VHF(136-174MHz))

Additional Options: **UHF1(400-470MHz), UHF2(450-520MHz)**

Raditek Handset VHF, UHF Portable Radios

General	
RHS-VHF	136-174 MHz
RHS-UHF1	400-470 MHz
RHS-UHF2	450-520 MHz
Channel Capacity	1024
Zone Capacity	64 (each with 16 channels max.)
Channel Spacing	25/20/12.5 kHz Analog.
Spacing	12.5 KHz Digital.
Operating Voltage	7.4V
Battery Capacity	2000 mAh Li-Ion
Battery Life Analog	10.5 hours,
Battery Life Digital	14 hours (90-5-5 duty cycle)
Frequency Stability	± 1.0 ppm
Antenna Impedance	55 Ω
Dimensions (H/W/D)	5.2 x 2.2 x 1.5" (130 x 55 x 38mm)
Weight	11.75 oz. (333g)
Front Case	PC
LCD Display	1.8 TFT
Environmental	
Operating Temperature	-30° C to +60° C
Storage Temperature	-40° C to +85° C
ESD	IEC 61000-4-2/±8KV/±15 KV
U.S. Military Standard	MIL-STD-810 C/D/E/F/G
Dust & Water Protection	IP67 Standard
Humidity/Vibration	MIL-STD-810 C/D/E/F/G Std

Transmitter	
RF Output Power	VHF 5/1 Watt, UHF 4/1 Watt
FM Modulation	11K F3E (12.5 kHz), 14K F3E (20 kHz), 16K F3E (25 kHz)
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD,
	12.5 kHz Data & Voice: 7K60FXW
Conducted/Rad. Emission	-36dBm<1GHz, -30dBm>1GHz
Modulation Limiting	± 2.5 kHz (12.5 kHz) ± 4.0 kHz
	(20 kHz) ± 5.0 kHz (25 kHz)
FM Noise	40dB (12.5 kHz), 43dB (20 kHz), 45dB (25 kHz)
Adjacent Channel Power	60dB (12.5 kHz), 70dB (20/25 kHz)
Audio Distortion	<3%
Digital Vocoder Type	AMBE3000
Digital Protocol	ETSI-TS102 361-1-2-3
Receiver	
Sensitivity	Analog 0.22μ V (Typical) (12dB SINAD)
Sensitivity	Digital 0.3μ V/BER 5%
Selectivity TIA-603	ETSI 60dB 12.5kHz 70dB 20/25kHz
Intermodulation TIA-603	ETSI 70dB (12.5/20/25 kHz)
S/N	40dB (12.5 kHz), 43dB (20 kHz), 45dB (25 kHz)
Audio Output Power	1.5 Watt
Audio Distortion	<3%
Audio Response	+1 to -3dB
Spurious Emission	< -57dBm

Additional accessories include:

- Earhook Speaker with Lapel Mic/PTT
- Heavy Duty Speaker Microphone
- Rapid Rate, Desktop Charger
- Six Unit, Ganged Charger
- Single Slot, Vehicular Charger
- 2500 mAh (Extra capacity) Li-Ion Battery
- Nylon Carry Case
- Leather Carrying Case with Belt Loop Swivel
- Spring Loaded Belt Clip
- Programming Software/Cable

