



VCR780

Professional SDR HF Radio

- Smarter
- Smaller



Overview

Professional HF Radio is a digital, intelligent, high-performance professional HF radio for professional users. It can meet the needs of users in specific industries for various application scenarios such as intelligent frequency selection, diversified business types, high-quality voice, data security, flexible use, and durability, and help industry users improve communication efficiency and business efficiency. The radio has military quality, advanced functions, and professional price.

Application

Communications support for critical infrastructure

When man-made or natural disasters strike, especially in power, transportation, medical services, Land line telephones are not reliable or available, satellite communications are far too expensive and cellular mobile technology is not available in all locations,, With intelligent frequency selection and intelligent old link maintenance, VCR780 can provide stable and reliable 7*24 hours, infrastructure independent voice or data message communication services.

Rapid response of emergency rescue

When natural disasters knock out crucial communications infrastructure, VCR780 radio works as an effective emergency communications solution. Beyond the range where typical line of sight VHF and UHF systems fail; and where alternative satellite communications (SATCOM) or terrestrial solutions are unavailable, The VCR780's convenient operation and easy-to-use antenna enable rapid deployment and establish a reliable emergency rescue communication link in less than an hour. The Crystal clear digital voice communications, email, files transfer and chat functionality provided by the VCR780 provides rapid response capabilities for rescue teams.



Highlights

Communication Ability



Data Transmission

Professional HF radio has a built-in MODEM for data transmission, and the rate can reach 38.4kbps.



High Quality Voice

Using advanced digital modulation, channel coding and channel estimation technology to provide users with stable digital voice; application software noise reduction and hardware noise reduction combined solution to provide users with clear analog voice. Also supports voice message sending and receiving function.

Intelligent Link Maintenance And Establishment(ILEM)



Intelligent Link Maintenance

Equipped with intelligent link maintenance technology, dynamically monitors link status, and can set various link maintenance strategies to ensure smooth links throughout the day.



Intelligent Frequency Selection

Using a high-performance hardware platform, SDR architecture, and equipped with spectrum sensing and multi-channel parallel receiving technology, it helps users automatically select the best communication frequency in the entire frequency band to complete efficient communication.

Usability



Large And High Brightness Screen

Large OLED screen provide high brightness, wider viewing range, and readable capability under direct sunlight. Intuitive and user-friendly interface.



Various Expansion Interfaces

It has multiple interfaces such as WIFI, RS232, Ethernet, and telephone, which can be connected to an external smart terminal for remote control of the radio station.

Reliability



Ruggedized

Professional HF radio and its accessories meet MIL-STD-810G requirements, ensure product performance and communication stability and reliability during disaster and exercise.



Electromagnetic Compatibility

Complied with MIL-STD-461F.

Specifications

General	
Frequency Range	250kHz~30MHz(Rx) 1.5MHz~30MHz(Tx)
Channels	1000
Frequency Stability	0.5ppm
Channel Spacing	10Hz
Modulation	USB/LSB/CW/AM
Power Supply Voltage	11V DC -28V DC
Data Interface	WIFI/RS232/Ethernet/USB
Dimension (W×H×D, mm)	226×82×247(Without protrusion)
Weight	≤4kg
Service Type	voice message, high-speed data (up to 38.4kbps), telephone

Transmitter	
Output Power	150W
Power Consumption	≤600W
Receiver	
Sensitivity	-125dBm(SINAD=10dB)
RX power consumption	≤20W
Environmental	
Storage Temperature	-55°C~70°C
Operating Temperature	-30°C~65°C
Immersion	IP54
Environmental Conditions	MIL-STD-810G

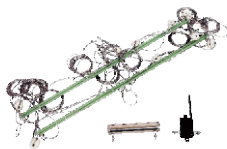
Optional Accesories



Intelligent Terminal



NVIS Antenna



Broadband Antenna



Palm Microphone
with Display



Tuner

All specifications are tested according to applicable standards and subject to change without notification due to continuous development.