

## General

|                       |   |   |
|-----------------------|---|---|
| Frequency Ranges      | TX : 144-146 (148) MHz (Ham Band)   | 430-440 (450) MHz (Ham Band)              |
|                       | RX : 88-108 MHz (FM Radio) *  | 108-137 MHz (Air Band) *                  |
|                       | 136-174 MHz (144 MHz HAM Band)  | 174-225MHz (GEN) *                        |
|                       | 300-400 MHz (AM&FM) *   |   |
|                       | 400-520 MHz (430 MHz HAM Band)  | *(RX Only)                                |
| Channel Steps         | 2.5 /5 / 6.25 / 10 / 12.5 / 25 / 50 / 100 KHz                               |   |
| Channel Bandwidth     | 12.5 / 25 kHz   |   |
| Emission Type         | F1,F2, F3,  |   |
| Frequency Stability   | +1.5 ppm  |   |
| Number Of Channels    | 32*6  |   |
| Antenna Impedance     | 50 Ω  |   |
| Supply Voltage        | Nominal:13.8V DC, Negative Ground    Operating: 11.7-15.8V, Negative Ground |   |
| Current Consumption   | 0.5A (Receive)  | 9A (TX,430 MHz50W)    9A (TX,144 MHz 50W) |
| Operating Temperature | -4°F to +140°F (-20°C to +60°)  |   |
| Case Size             | 160 (L) x 135 (W) x 38 (H) mm (with the fan)                                |   |
| Weight                | 1.2 kg Rear Chassis   |   |

## Transmitter

|                      |                               |
|----------------------|-------------------------------|
| RF output power      | H 50 / M 25 / L 8             |
| Spurious Emission    | At least 65dB below           |
| Modulation Type      | Variable Reactance F1, F2, F3 |
| Maximum Deviation    | ±5 kHz                        |
| Microphone Impedance | 2 KΩ                          |

## Receiver

|                       |   |
|-----------------------|---|
| Sensitivity           | 88-108 MHz(WFM) 0.5 μV TYP for 12 dB SINAD                                  |
|                       | 108-137 MHz(AM) 0.5 μV TYP for 10 dB SN                                     |
|                       | 136-174 MHz (FM) 0.15 μV TYP for 12 dB SINAD                                |
|                       | 174-225MHz (FM) 0.25 μV TYP for 12 dB SINAD                                 |
|                       | 300-400 MHz(AM) 0.7μV TYP for for 10 dB SN                                  |
|                       | 300-400 MHz(FM) 0.2μV TYP for 12 dB SINAD                                   |
|                       | 400-520 MHz(FM) 0.15 μV TYP for 12 dB SINAD                                 |
| Squelch Sensitivity   | 0.13 μV (144 / 430 MHz Band)  |
| Selectivity (NFM, AM) | 12 kHz / 30 kHz (-6 dB / -60 dB)    2 W ( 4Ω for 10 % THD ) Internal Speker |
| AF Output             | 5 W ( 4Ω for 10 % THD (@ 13.8 V ) External Speker                           |
| AF Output impedance   | 4-8 Ω   |

Your Local Dealer

**VERO Global Communication Co.,Ltd.**

Tel: 0595-2249 6660    E-mail: info@verotelecom.com  
www.vero-china.cn

Note: The above specifications are all from laboratory data; Due to continuous technological upgrades, data is subject to change without prior notice.

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Dual Band U&V Mobile Radio

**VR-N7600**

## Most Advanced Feature Set On The Market

- 50 Watts Output Power
- Onboard GPS & Compass
- AI Noise Reduction
- Remote Link Management
- APRS with Real-Time Tracking
- Connect & Control via App



TEXT



Location Sharing



GPS



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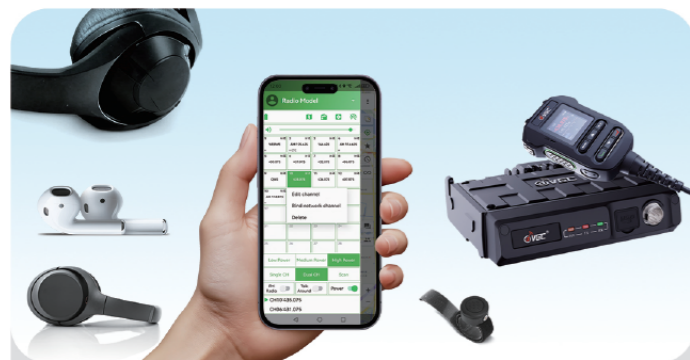
# VGC VR-N7600

The Future of Mobile Ham Radio

Connect & Control via App



Redefine mobile communication with the VGC VR-N7600. This 50W dual-band radio combines powerful 2m/70cm operation with extensive receive coverage up to 520MHz. Its revolutionary app-controlled design installs discreetly, connecting via Bluetooth for full control from your smartphone. Featuring built-in GPS, APRS with Smart Beacons™, and AI noise reduction for crystal-clear audio, it's the ultimate all-in-one solution for the modern ham. Operate smarter, not harder.



## A Real Bluetooth Two Way Radio.

The VR-N7600 redefines wireless communication with true Bluetooth integration. It enables online firmware updates and programming via a smartphone, ensuring convenient maintenance. The radio connects seamlessly to vehicle audio systems and Bluetooth headsets via the BS-PTT accessory. By combining audio, data, and updates in one device, it sets a new standard for modern communication.



## AI Noise Reduction

Achieve professional clarity in any environment. The advanced AI Noise Reduction system actively suppresses common background interference—such as wind, engine rumble, and crowd noise—to ensure your voice is transmitted and received with pristine quality. Enable it effortlessly via the radio menu for seamless communication during mobile or field operations.



## Comprehensive Situational Awareness

The built-in GPS, electronic compass, and gyroscope provide real-time data on your position, direction, altitude, and speed. Integrated with APRS featuring Smart Beacons™, it automatically and intelligently shares your journey data based on movement.



## KISS TNC Support

With built-in KISS TNC support, the VR-N7600 integrates seamlessly with apps like APRSdroid, Winlink, and RadioMail. This enables advanced functions including real-time tracking, digital messaging, and robust packet data operations for off-grid and emergency communication.

## Product Features

### • 50 Watts Output Power

Engineered by VGC for reliability, the VR-N7600 delivers a full 50W of stable power across U/V bands. Its rugged construction ensures crystal-clear communication where it matters most—from coordinating convoy movements to connecting on remote mountain trails. Your trusted partner in every transmission.

### • Wide Receive Range

Covers 136-174 MHz & 300-520 MHz, offering exceptional versatility for monitoring a broad spectrum of communications.

### • Air Band Reception

Monitor air traffic clearly with dedicated aviation band reception for enhanced situational awareness.

### • APRS/BSS with Real-Time Tracking

Supports APRS on an independent channel and the BSS protocol for teams without callsigns, ensuring seamless tracking and compatibility for all user groups.

### • Unique Signaling & Messaging

Exchange short data messages and use the calling feature to alert other units, all without cellular service. The "Nearby People" function provides real-time location feedback.

### • Dedicated Mobile App

Customize your radio with ease by downloading the "HT" Programmer App (Google Play) or "BS HT" (Apple App Store).

### • Frequency Sync & Rapid Scan

Quickly find and lock onto active frequencies in your area with the Frequency Sync rapid scanning feature.

### • Audio Relay

Extend your communication range through store-and-forward voice messaging between radios.

### • Global Network Groups

Use the HT app to join worldwide network groups and stay connected across the globe.

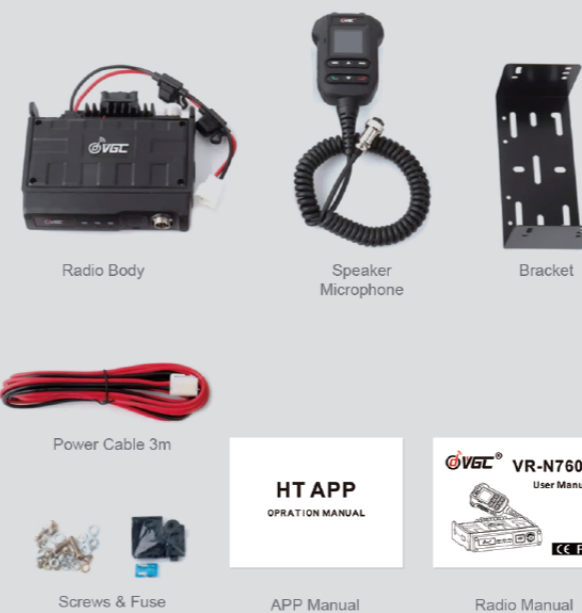
### • Remote Link Management

Operate your home base station and connect to local repeaters remotely via your smartphone.

### • USB Power Hub

The VR-N7600 features a 5V/2A USB port that can directly charge your radio, mobile phone, action camera, or flashlight.

## Accessories



## Optional accessories

