



# VL-747-IP

## Professional Two-Way Radio

VL-747-IP, a professional radio with LCD, full keypad and enhanced signaling features, offers you visible operation and protected communication privacy.

Mutiple Signaling and Flexible Selective Call  
Versatile Scanning Features  
Audio Compander  
Remote Kill/Stun/Activate/Revive  
Lone Worker



IP - 65

Dependable in Critical Communication

## KEY FEATURES

### • Multiple Signaling and Flexible Selective Call

Use built-in CTCSS, DCS, DTMF signalling capability to set up talk groups and quiet stand-by when others are talking. Special tone code for group and individual calls, and more features are available to support flexible, perfect selective calling operations.

### • Versatile Scanning Features

Radio offers multiple scanning modes & versatile features. Call Back allows immediate response to a received call without manually searching or changing channels.

### • Audio Componder

Built-in audio compander compresses the audio before transmitting and expanding it to the receiver side. As a result, the SINAD ratio improves to provide clear audio.

### • Remote Kill/Stun/Activate/Revive

If the radio is killed or stunned, all attempts on operation by users, except power on/off will be ignored. The radio will be activated or revived only when it receives the correct code.

### • Lone Worker

The radio enters emergency mode if the user does not respond to a warning call (Lone Worker), adding security and safety for individuals who work remotely and lonely.

### • Dust and Rain Resistant

Built tough to take rough treatment, Radio meets IP65 standard and MIL-STD 810 C/D/E/F environmental standards.

### • GPS Capable(RSM Optional)

GPS function supported by control center and management software, allows uses to be located instantly, either to dispatch among groups or to locate an emergency call. Allowing more efficient use of resources or positioning location in life-threatening situations.

• **Other Features**- Battery Bar Indicator with Low Battery Alert, Receiver Signal Strength Indicator, Voice Operated Transmission for Hand free, Programmable Keys,

## RADIO SPECIFICATIONS

### General(All Parameters tested as per TIA/EIA-603)

Frequency Range	136~174MHz, 400~470MHz 350~400MHz, 450~520MHz
Channel Capacity	199
Channel Spacing	12.5KHz/20KHz/25KHz
Operating Temperature	-30°C ~ +60°C
Operating Voltage	7.5V DC $\pm$ 20%
Battery	2300mAh Li-ion(Standard) 2500mAh Li-ion(Optional)
Frequency Stability	$\pm$ 2.5 ppm
Dimension(with battery and antenna)	56mmx120mmx35mm
Weight(with battery and antenna)	270g
Average Battery Life @ 5/5/90 Cycle	>20Hrs@Low, >16Hrs@High
Sealing	MIL STD 810 C/D/E/F & IP65
Shock and Vibration	MIL STD 810 C/D/E/F & IP65
Dust and Humidity	MIL STD 810 C/D/E/F & IP65

### Transmitter

RF Power	5W/2W/0.5W(VHF), 4W/2W/0.5W(UHF)
Channel spacing	12.5 / 20 / 25kHz
Freq Stability	$\pm$ 2.5ppm (-30°C to 60°C, +25°C Ref.)
Modulation limiting	$\pm$ 2.5@12.5, $\pm$ 4.0@20, $\pm$ 5.0@25KHz
FM Hum & Noise	-40dB
Conducted/Radiated Emission	-36 dBm < 1 GHz / -30dBm > 1 GHz
Modulation FCC Type	12.5KHz@11K0F3E, 25KHz@16K0F3E
Audio Response(300-3000Hz)	+1 to -3dB pre-emphasis 6db/octave
Audio Distortion	< 3%

### Receiver

Sensitivity	< 0.25uV@12dbSinad
Intermodulation(EIA) Adjacent	> 70 dB
Channel Selectivity Spurious	> 65 dB @ 12.5kHz, 70dB @ 25kHz
Rejection	> 70 dB
Rated Audio	> 500mW
Audio Distortion	< 3%
Hum and Noise	-45dB@12.5kHz, -50dB@25kHz
Audio Response(300-3000Hz)	+1 to -3 dB de-emphasis 6db/octave

NOTICE:Vertel reserves the right to change any specifications without warning due to the technology improvement. For more information, please visit [www.Vertel.in](http://www.Vertel.in)

## STANDARD ACCESSORIES



AC Adaptor



VBC-60



VB-23Li



VB-25Li



Belt Clip



Antenna



**VERTEL INFOTEL PVT.LTD**

An ISO 9001:2008 Certified Company

[www.vertel.in](http://www.vertel.in)

Tel: +91-11-47697000

Fax: +91-11-47697010

For more information, please contact:

