

# VERTEL™ Portable Two-Way Professional Radios



State of Art Features									
Main Features	VL-727	VL-727A	VL-747	VL-767	Main Features	VL-727	VL-727A	VL-747	VL-767
Memory channels	128	200	200	200	Distant alarm	√	√	√	√
Scrambler in built	–	√	√	√	PTT ID	√	√	√	√
DTMF	√	√	√	√	Alphanumeric display	–	–	√	√
Dual display and standby	–	–	–	√	Clone radio-to-radio	√	√	√	√
ANI	–	–	√	√	FM Radio	√	√	√	√
105 DCS/50 CTCSS	√	√	√	√	High/Low power switch	√	√	√	√
Wide/Narrow bandwidth selection (25KHz/12.5KHz)	√	√	√	√	Calling ring and ring overtime auto answer	–	√	√	√
VHF Dual frequencies or UHF Dual frequencies	–	–	–	√	Multi scan mode(TO/CO/SE)	√	√	√	√
Output power VHF 5W/1W UHF 4W/1W	√	√	√	√	Multi silent mode (QT/QTADT/QTXTDT)	√	√	√	√
3 color LCD backlight	–	–	√	√	Keypad lock	–	–	√	√
Voice annunciation	√	√	√	√	PC programmable	√	√	√	√
Side key programmable	√	√	√	√	Field Programming	–	–	√	√
Battery strength indicator	–	–	√	√	Inspection, monitor, stun, kill and emergency	–	√	√	√
TOT(Time-out timer)	√	√	√	√	DCS/CTCSS of RX and TX can be set respectively	√	√	√	√
VOX (Level adjustable)	√	√	√	√	2 tone/5 tone/MDC 1200	–	√	√	√
Busy channel lockout (BCL)	√	√	√	√	1750Hz burst tone	–	√	√	√
Reverse frequency function	√	√	√	√	Priority scan	–	√	√	√



# Optional Accessories for VERTEL™ Portable Radios

					
Li-ion Battery Pack 1700 mah	Rapid Charger	Dual Slot Rapid Charger	Remote Speaker Mic	Earphone Headset	Programming Cable
					
Car charger	AA Battery Pack	Leather Carry case	Cloning cable	Battery Eliminator	Spare Antenna

VERTEL Radio Models : VL-727 / VL-727A / VL-747 / VL-767 use the same accessories and are inter useable

## Technical Specifications (as per TIA/EIA-603 standards)

	VL-727 / VL-727A	VL-747	VL-767
Frequency Range	VHF: 66-88/136-174MHz UHF: 400-470/450-520MHz	VHF: 66-88/136-174MHz UHF: 350-390MHz 400-470/450-520MHz	VHF: 66-88/136-174MHz UHF: 350-390MHz 400-470/450-520MHz
Channel Capacity	128 / 200	200	200
Channel Spacing	25/12.5KHz	25/12.5KHz	25/12.5KHz
Maximum Deviation	±5KHz @25KHz, ±2.5KHz @12.5KHz	±5KHz @25KHz, ±2.5KHz @12.5KHz	±5KHz @25KHz, ±2.5KHz @12.5KHz
Frequency Stability	< ±2.0ppm	< ±2.0ppm	< ±2.0ppm
Operating Voltage	7.4V DC	7.4V DC	7.4V DC
Operating Temperature	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C
Battery	1700mAh(Li-ion)	1700mAh(Li-ion)	1700mAh(Li-ion)
Standby Current	50mA	50mA	50mA
Antenna Impedance	50Ω	50Ω	50Ω
Dimension (without antenna & battery(L×W×H))	103×62×39(mm)	103×62×39(mm)	103×62×39(mm)
Weight (w/antenna & battery)	< 250g	< 270g	< 270g
MIL Standards	Meets MIL-STD 810C/D/E/F	Meets MIL-STD 810C/D/E/F	Meets MIL-STD 810C/D/E/F
RF Power Output	VHF:5W/1W UHF:4W/1W	VHF:5W/1W UHF:4W/1W	VHF:5W/1W UHF:4W/1W
Modulation	16KφF3E/11KφF3E	16KφF3E/11KφF3E	16KφF3E/11KφF3E
Spurious and Harmonious	> 65dB	> 65dB	> 65dB
FM Noise	45dB	45dB	45dB
Adjacent Channel Power	70dB/60dB	70dB/60dB	70dB/60dB
Audio Distortion	≤5%	≤5%	≤5%
Sensitivity (12dB SINAD)	< 0.25μV	< 0.25μV	< 0.25μV
Selectivity	≥ 70dB	≥ 70dB	≥ 70dB
Image Rejection	70dB	70dB	70dB
Intermodulation	≥ 65dB	≥ 65dB	≥ 65dB
Audio Power Output	> 500mW	> 500mW	> 500mW
Audio Distortion	≤3%(0.5W)	≤3%(0.5W)	≤3%(0.5W)



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