Vertex Standard

# VX-3000
# 4/48/120 Channel LVHF/VHF/UHF Mobile Radio

When it comes to feature rich mobile, the VX-3000 fits all the requirements of public safety and commercial users alike. Whether the basics, for a fleet of school buses, to alphanumeric capabilities that meet the high demands of Public Safety. The VX-3000, rugged and reliable unit, allows all the flexibility you need.

- Frequency Range:

| | |
|---|---|
| Lowband: | 37-50 MHz |
| VHF: | 146-174 MHz |
| UHF: | 450-490 MHz |
| | 480-512 MHz |

- 4/48/120 Channels LED or LCD Displays
- 8 Character Alphanumeric Display (48ch & 120ch version)
- 70/50/40 Watts Power Output
- CTCSS/DCS
- Two Tone, 5/6 Tone with ANI
- 12.5/25 Bandwidth
- DB-9 Connector for Data Applications
- 3 Year Warranty

| SPECIFICATIONS | | | |
|---|---|---|---|
| | | | |
| General Specifications | **VX-3000L** | **VX-3000V** | **VX-3000U** |
| | VHF Lowband | VHF Highband | UHF Band |
| Number of Channels | 4, 48 Channels (120 optional) | | |
| Frequency Range | 29.7-37 MHz (A) | 134-150 MHz (A) | 400-460 MHz (A) |
| | 37-50 MHz (B) | 146-174 MHz (C) | 450-490 MHz (D) |
| | | | 480-512 MHz (F) |
| Maximum Channel Spread | 7.3 MHz (A) | 16 MHz (A) | 60 MHz (A) |
| | 13 MHz (B) | 28 MHz (C) | 40 MHz (D) |
| | | | 32 MHz (F) |
| Channel Spacing | 20 kHz | 12.5 kHz / 25 kHz / 30 kHz | |
| Power Supply Voltage | 13.8 VDC | | |
| Current Consumption | | | |
| Standby | 400 mA | 400 mA | |
| Receive | 1.4 A | 1.4 A | |

| | | | |
|---|---|---|---|
| Transmit | 15 A | 13 A | |
| Ambient Temperature Range | -30°C to +60°C | | |
| Frequency Stability | ± 0.002 % | ± 0.00025 % | |
| RF Input-Output Impedance | 50 ohms | | |
| Audio Output Impedance | 4 ohms | | |
| Dimensions (W x H x D) | 6.3" x 1.6" x 6.3" (160 x 40 x 160 mm) | | |
| Weight | 3 lbs. (1.4 kg) | | |
| Receiver Specifications | Measurements made per EIA standard EIA-204D | | |
| Circuit Type | Double Conversion Superheterodyne | | |
| Sensitivity | | | |
| EIA 12 dB SINAD | 0.25 µV | 0.25 µV | 0.30 µV |
| 20 dB Quieting | 0.35 µV | 0.35 µV | 0.45 µV |
| Threshold Squelch | 0.20 µV | 0.20 µV | 0.20 µV |
| Adjacent Channel Selectivity | 70 dB | 70 dB (25 kHz), 60 dB (12.5 kHz) | |
| Intermodulation | 70 dB | | |
| Spurious and Image Rejection | 70 dB | | |
| Audio Response | +3 / -8 dB from the 6 dB / oct. De-emphasis curve | | |
| Audio Output | 10 W into 4 ohms w / <10% THD | | |
| Transmitter Specifications | Measurements made per EIA standard EIA-152-C | | |
| Power Output | 70 / 10 W | 50 / 5 W | 40 / 5 W |
| Modulation | 16K0F3E | 16K0F3E, 11K0F3E | |
| Maximum Deviation | ± 5 kHz | ± 5 kHz (25 kHz), ± 2.5 kHz (12.5 kHz) | |
| Conducted Spurious Emissions | 70 dBc | | |
| FM Hum and Noise | 50 dB | 46 dB (25 kHz), 38 dB (12.5 kHz) | |
| Audio Response | +1 / -3 dB from the 6 dB / oct. Pre-emphasis curve | | |
| Audio Distortion (@ 1 kHz) | <5% | | |