

# VXR-7000 Series

## VHF/UHF Desktop Repeater/Base Station

SPECIFICATION SHEET – NORTH AMERICA

### Dual-Purpose Repeater, Continuous-Duty and Cycle-Rated

The VXR-7000 helps expand communication range of two-way radio systems, and can operate as a base station. Continuous-duty and cycle-rated to enhance productivity for a maximum return on investment.

### Local or Remote Operating Capability

Controlled by the operator with a press of a button to function as programmed. Or, switch to remote mode and the unit is controlled by instructions received from an external device connected to the accessory connector.

### When Safety Counts

The VXR-7000 has built-in DTMF decoding to coordinate with the Emergency and ANI functions found in Vertex Standard mobile and portable two-way radios. If an Emergency alert is received from a mobile or portable radio, the VXR-7000 will beep loudly and blink the LCD to notify the dispatcher of the alert.

### Uninterrupted Power Supply

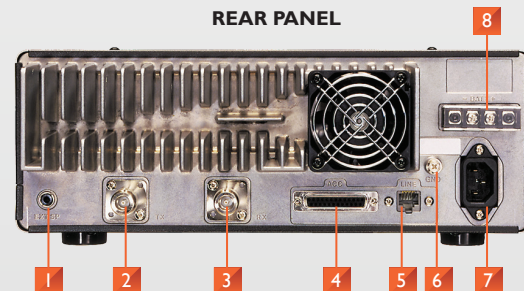
For uninterrupted operation during power failures, a 12 volt rechargeable battery may be connected. During a power outage, the automatic power control circuit will immediately switch the repeater to the backup battery.

### Convert to Talk at a Press of a Button

While a full-featured repeater, the VXR-7000 immediately switches to function in base station mode simply by pressing the Push to Talk Transmit button. Once released, the unit converts back to repeater mode.



VXR-7000



- |                    |                  |
|--------------------|------------------|
| 1. EXT SP Jack     | 5. LINE Jack     |
| 2. TX Antenna Jack | 6. GND Terminal  |
| 3. RX Antenna Jack | 7. AC Jack       |
| 4. ACC Jack        | 8. BATT Terminal |



### The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Vertex Standard radios are built to last and are backed by an industry-leading 3 year warranty.

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www.vertexstandard.com/lmr

### Additional Features

- ✦ 16 Channels
- ✦ 8-Character ANI / ENI ID Display
- ✦ 47 CTCSS / 108 DCS Encode / Decode
- ✦ CW ID Transmission
- ✦ Busy Channel Lockout (BCLO)
- ✦ Busy Tone Lockout (BTLO)
- ✦ DTMF Encode / Decode
- ✦ 5-Tone Encode / Decode
- ✦ Multi-Tone Decode
- ✦ Community repeater operation (up to 16 tones)
- ✦ Time-Out Timer, Hang Timer, Guard Timer
- ✦ D-Sub 25 pin accessory connector
- ✦ Line interface port
- ✦ PC Programmable

### Accessories

- ✦ MH-67A8J: Standard microphone
- ✦ MD-12A8J: Desktop microphone
- ✦ MR-3: 19" Rack mount kit (4U size)
- ✦ MR-4: 19" Rack mount kit (3U size)

### Duplexer Options

- ✦ CT-68: Duplexer installation kit
- ✦ VXD-60VC: Internal duplexer VHF 148 – 160 MHz
- ✦ VXD-60UD: Internal duplexer UHF 440 – 470 MHz

### VXR-7000 Series Specifications

|   | VHF   | UHF                            |
|---|---|--------------------------------|
| <b>General Specification</b>                              |   |                                |
| Frequency Range   | 136 – 150 MHz<br>150 – 174 MHz                  | 400 - 430 MHz<br>450 - 480 MHz |
| Number of Channels  | 16  |                                |
| Power Supply Voltage                                      | 115 / 230 V AC ±10% 50/60 Hz or 13.8 V DC       |                                |
| Channel Spacing   | 12.5 / 25* kHz                                  |                                |
| Operating Temperature Range                               | -22°F to +140°F (-30°C to +60°C)                |                                |
| Frequency Stability                                       | ±2.5 ppm  |                                |
| RF Input-Output Impedance                                 | 50 Ohms   |                                |
| Dimension (H x W x D)                                     | 4.5 x 12.8 x 15.4 inches (115 x 325 x 391.5 mm) |                                |
| Weight (Approx.)  | 22 lbs (10 kg)                                  |                                |
| <b>Receiver Specification: measured by TIA/EIA-603</b>    |   |                                |
| Sensitivity 12dB SINAD                                    | 0.35 µV   |                                |
| Adjacent Channel Selectivity                              | 75 dB / 70 dB                                   |                                |
| Intermodulation   | 75 dB   |                                |
| Spurious and Image Rejection                              | 80 dB   |                                |
| Audio Output  | 4 W @ 4 Ohms                                    |                                |
| <b>Transmitter Specification: measured by TIA/EIA-603</b> |   |                                |
| Output Power  | 10 to 50 W (adjustable)                         |                                |
| Duty Cycle  | 100%  |                                |
| Modulation  | 16K0F3E, 11K0F3E                                |                                |
| Maximum Deviation   | ± 5.0 kHz / ± 2.5 kHz                           |                                |
| Audio Distortion  | < 2.5 % @1 kHz                                  |                                |
| Conducted Spurious Emission                               | Better than 75 dB below carrier                 |                                |