

# VXR-7000 Series

## VHF/UHF Desktop Repeater/Base Station

### SPECIFICATION SHEET

### Dual-Purpose Repeater For Efficient Communications

The VXR-7000 not only helps expand the communication range of two-way radio systems, but it also serves as a base station for convenient, easy fleet communications in public safety, industrial or administrative work areas. Continuous-duty and cycle-rated, this one unit is designed to enhance productivity for a maximum return on investment.

#### 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.

#### Local Or Remote Operating Capability

Controlled by the operator with a press of a button, the VXR-7000 is designed 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 DTMF decoding built-in 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 emergency alert.

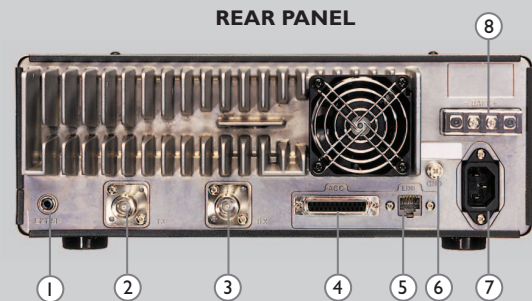
#### Uninterrupted Power Supply

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.



VXR-7000

12.8" (W) X 4.5" (H) X 15.4" (D)



REAR PANEL

- |                   |                 |
|-------------------|-----------------|
| 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 |



## Additional Features

- 16 Channels
- 47 CTCSS tones / 108 DCS codes encode & decode
- 8-Character ANI / ENI ID Display
- CW ID Transmitter
- BCLO, BTLO
- DTMF Encode and decode
- Community repeater operation (up to 16 tones)
- Time-Out Timer, Hang Timer, Guard Timer
- D-Sub 25 pin accessory connector
- Line interface port

## 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   | 134 - 150 MHz (A)<br>150 – 174 MHz (C)          | 400 – 430 MHz (A)<br>450 – 480 MHz (D) |
| Number of Channels  | 16  |  |
| Power Supply Voltage                                      | 115 / 230V AC $\pm 10\%$ 50/60 Hz or 13.8V DC   |  |
| Channel Spacing   | 12.5 / 20 / 25 kHz                              |  |
| Operating Temperature Range                               | -22° F to +140° F (-30° C to +60° C)            |  |
| Frequency Stability                                       | $\pm 2.5$ ppm                                   |  |
| RF Input-Output Impedance                                 | 50 Ohms   |  |
| Dimension (W X H X D)                                     | 12.8 x 4.5 x 15.4 inches (325 x 115 x 391.5 mm) |  |
| Weight (Approx.)  | 22 lbs (10 kg)                                  |  |
| <b>Receiver Specification: measured by TIA/EIA-603</b>    |   |  |
| Sensitivity 12dB SINAD                                    | 0.35 $\mu$ V                                    |  |
| Adjacent Channel Selectivity                              | 80 dB / 74 dB                                   |  |
| Intermodulation   | 75 dB   |  |
| Spurious and Image Rejection                              | 90 dB   |  |
| Audio Output  | 4W @ 4 Ohms                                     |  |
| <b>Transmitter Specification: measured by TIA/EIA-603</b> |   |  |
| Output Power  | 10 to 50W (adjustable)                          |  |
| Duty Cycle  | 100%  |  |
| Modulation  | 16K0F3E, 11K0F3E                                |  |
| Maximum Deviation   | $\pm 5.0$ kHz / $\pm 2.5$ kHz                   |  |
| Audio Distortion  | < 2.5% @ 1kHz                                   |  |
| Conducted Spurious Emission                               | Better than 75 dB below carrier                 |  |