

# 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.

#### 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

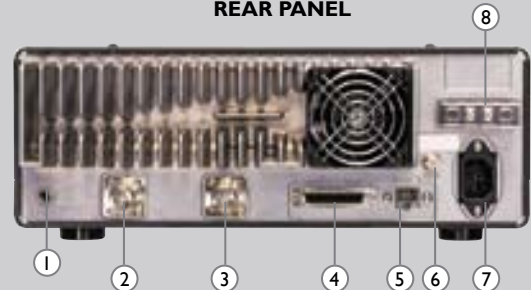
For uninterrupted operation during power failures, a 12 volt rechargeable battery may be connected. During a power outage, the automatic power control circuit will immediately switch the repeater to the backup battery.



VXR-7000

325 (W) X 115 (H) X 391.5 (D) mm

#### 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 |



### The Vertex Standard Difference

Our number one goal is achieving superior customer satisfaction by delivering products and services that exceed your expectations. Count on Vertex Standard for radios that are built to last and designed to provide more features for a better return on your investment. Ask your Dealer for more details.

## 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 – 480 MHz

## VXR-7000 Series Specifications



	VHF	UHF
<b>General Specification</b>		
Frequency Range	136 - 150 MHz (A) 150 - 174 MHz (C)	400 - 430 MHz (A) 450 - 480 MHz (D) 480 - 520 MHz (F)
Number of Channels	16	
Power Supply Voltage	200 / 240 V AC $\pm$ 10% 50/60 Hz or 13.8V DC	
Channel Spacing	12.5 / 20 / 25 kHz	
Operating Temperature Range	-30° C to +60° C / -5° C to +55° C (EN)	
Frequency Stability	$\pm$ 2.5 ppm / $\pm$ 1.0 kHz (EN)	
Antenna Impedance	50 Ohms (unbalanced)	
Dimension (W X H X D)	325 x 115 x 391.5 mm	
Weight (Approx.)	10 kg	
<b>Receiver Specification: measured by EN 300 086</b>		
Sensitivity 20 dB SINAD	-2 dB $\mu$ V emf	
Selectivity	80 dB / >70 dB @ SEP 25 kHz 60 dB @ SEP 12.5 kHz	
Intermodulation	80 dB, 70 dB	
Spurious and Image Rejection	80 dB, 70 dB	
Audio Output	4 W @ 4 Ohms 10% THD	
<b>Transmitter Specification: measured by EN 300 086</b>		
Output Power	5 to 25 W	
Duty Cycle	50%	
Modulation	16K0G3E, 8K50G3E	
Modulation Limiting	$\pm$ 5.0 kHz / $\pm$ 2.5 kHz	
Audio Distortion	< 2.5% @ 1kHz	
Spurious Emission	Better than 75 dB below carrier -36 dBm @ $\leq$ 1 GHz, -30 dBm @ > 1 GHz	

Specifications are subject to change without notice or obligation.

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