

# 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

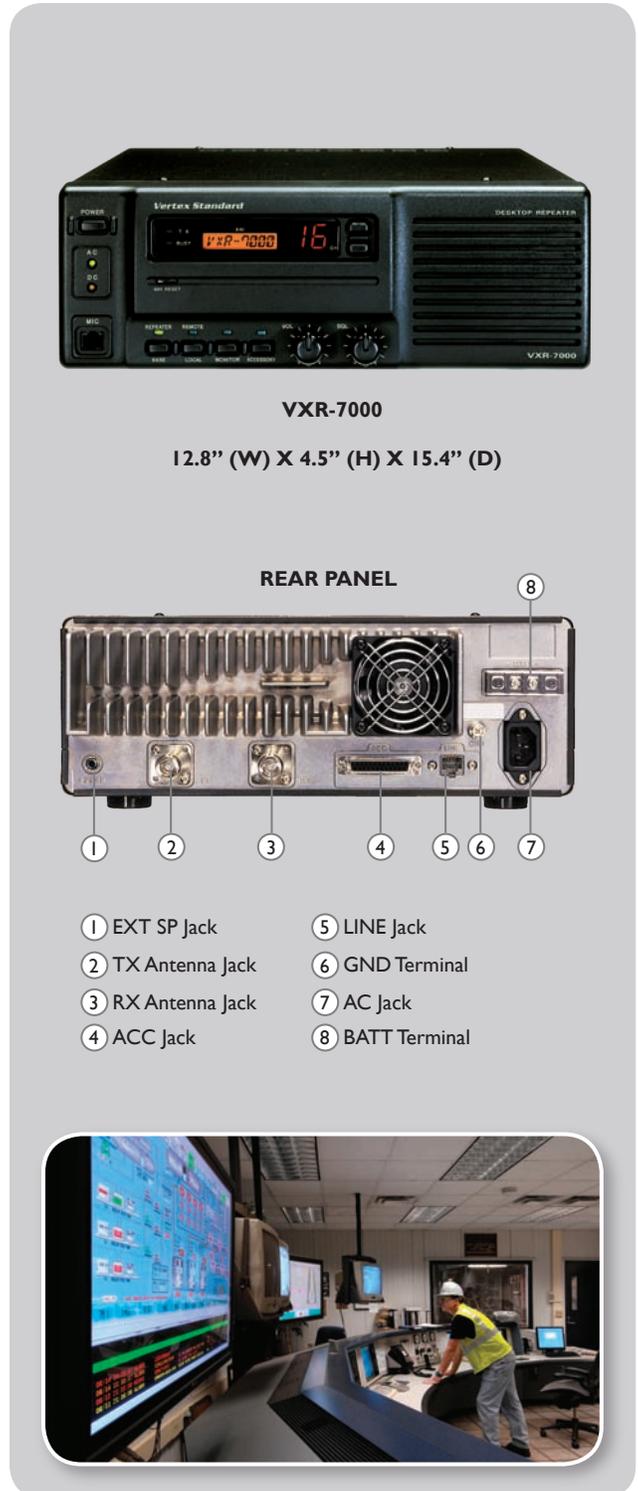
Controlled by the operator with a press of a button, the VXR-7000 is designed to function as programmed. Or, switch to remote mode and the unit is controlled by instructions received from an external device connected to the accessory connector.

#### 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.



#### 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 – another great reason to choose Vertex Standard. 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 - 470 MHz

## VXR-7000 Series Specifications

	VHF	UHF
<b>General Specification</b>		
Frequency Range	134 - 150 MHz (A) 150 - 174 MHz (C)	400 - 430 MHz (A) 450 - 480 MHz (D) 480 - 512 MHz (F)
Number of Channels	16	
Power Supply Voltage	115 / 230 V AC $\pm 10\%$ 50/60 Hz or 13.8 V 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	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	$\pm 5.0$ kHz / $\pm 2.5$ kHz	
Audio Distortion	< 2.5% @ 1kHz	
Conducted Spurious Emission	Better than 75 dB below carrier	