

VHF/UHF Desktop Repeater

VXR-7000

16 Channel 50 W Continuous Duty

 **Vertex Standard**

With a long list of built in features, the VXR-7000 Series Base / Repeater Station sets the standard for mid-power, continuous duty base station and repeater applications.

Designed with long term reliability in mind. The VXR-7000 Series offers unmatched features and performance for all segments of industry and Public Safety. Whether used as a base station, with it's attractive housing and user friendly controls, or as a remote repeater, in the most demanding environments, the VXR-7000 series will provide years of reliable service.

Manufactured utilizing the most advanced state-of-the-art computer aided design and manufacturing processes. The VXR-7000 series sets the standard for rugged environment applications now, and into the next century.

Features

- Frequency Range*:
 - VHF : 136~150 MHz (A) or 150~174 MHz (C)
 - UHF : 400~430 MHz (A) or 450~480 MHz (D) or 480~512 MHz (F)
- 16 Channel synthesized
- 10~50 Watts Power Output (100 % Duty)
- 12.5 / 25 kHz Bandwidth Programmable by Channel
- PLL step : 2.5/ 5 / 6.25 kHz (VHF)
5 / 6.25 kHz (UHF)
- 47 CTCSS Tones / 104 DCS Codes Encode and Decode
- 5-tone / DTMF Encode and Decode
- Community Repeater Operation (Up to 16 Tones / Codes)
- ANI / ENI ID Display (Dealer programmed)
- CW Transmitter ID (Dealer programmed)
- Time-Out Timer, Hang Timer, Guard Timer (Dealer programmed)
- BCLO, BTLO
- Selectable REPEATER mode or BASE transceiver mode
- Selectable LOCAL mode or REMOTE mode
- AC Power Supply Voltage Selection (115 / 230 VAC (±10 %) Dealer Selectable)
- Automatic DC Power Supply Backup
- Optional Internal Duplexer (Limit 40 Watts)
- PC Programming
- ACC Connector Port & LINE Interface Port
- VX-Trunk operation (optional)

*Not all Frequency Ranges Listed are Available in all countries



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Specifications

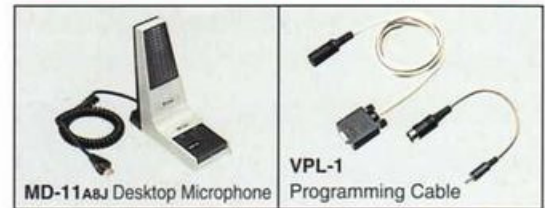
General Specifications	
Frequency Range	VXR-7000V : 136~150 MHz (A) or 150~174 MHz (C) VXR-7000U : 400~430 MHz (A) or 450~480 MHz (D) or 480~512 MHz (F)
Number of Channels	16 Channels
Channel Spacing	12.5 / 25 kHz
Frequency Stability	±2.5 ppm
Antenna Impedance	50 Ω (N-Type)
Tx Activation System	Carrier-operated, CTCSS tone operated, DCS operated, or remote control
Power Requirements	115 / 230 V AC ±10 %, 50 / 60 Hz or 13.8 VDC
Ambient Temperature Range	-30 °C~+60 °C
Dimensions (w/o knobs)	115 (H) × 325 (W) × 391.5 (D) mm (4.5 × 12.8 × 15.4 inches)
Weight (approx.)	10 kg (22 lbs.)

Receiver Specifications	
Receiver type	Double-conversion Superheterodyne
Sensitivity	0.35 μV for 12 dB SINAD, 0.45 μV for 20 dB NQ
Selectivity	80 dB
Intermodulation	80 dB
Spurious & Image Rejection	80 dB
Audio Output	4 W @ 4 Ω

Transmitter Specifications	
RF Output	10~50 W (Adjustable)
Duty Cycle	100 %
Maximum Deviation	±5.0 kHz (25 kHz spacing), ±2.5 kHz (12.5 kHz spacing)
Modulation Type	16K0F3E / 11K0F3E
Audio Distortion	Less than 2.5 % @ 1 kHz
Spurious Emissions	Better than 75 dB below carrier

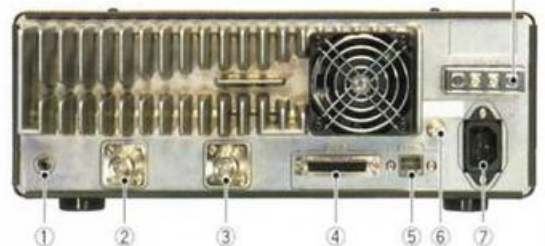
*Specifications subject to change without notice or obligation.

Accessories & Options



- CE-27 Programming Software
- CT-68 Antenna Cable w / Mount screws (for the Antenna Duplexer)
- VTS-300 VX-Trunk Controller

Rear Panel



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

Front Panel



- ① POWER Switch
- ② LED Indicators
- ③ MIC Jack
- ④ BASE/REPEATER Switch
- ⑤ LOCAL/REMOTE Switch
- ⑥ MONITOR Switch
- ⑦ ACCESSORY Switch
- ⑧ VOL Knob
- ⑨ SQL Knob
- ⑩ Channel Selector Buttons
- ⑪ Channel Indicator
- ⑫ ANI Display
- ⑬ TX/BUSY Indicator
- ⑭ ANI RESET Button

Measurements per EIA standards unless noted above. Specifications subject to change without notice or obligation. Various accessories listed may not be available in some countries.



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