

VXR-9000 SERIES

50 Watt Rack-Mount FM Repeater



- FREQUENCY RANGE: 148 – 174 MHz (VHF)
450 – 490 MHz (UHF)
- 32 CHANNELS SYNTHESIZED
- POWER OUTPUT: 50/25/10 W (HIGH/MID/LOW)
- WIDE OR NARROW BANDWIDTH
PROGRAMMABLE PER CHANNEL
- PLL STEP SIZES: 2.5/5.0/6.25 kHz
- LOW LEVEL AND HIGH LEVEL ENCRYPTION
OPTIONS
- 3.15" SQUARE COOLING FAN WITH
"MALFUNCTION" SENSOR OUTPUT
- CTCSS REVERSE BURST WITH
PROGRAMMABLE LENGTH
- MULTI-TONE DECODE
- 5-STEP COMMAND SEQUENCE FOR STARTUP,
POWER SOURCE: MAIN TO SUB, AND SUB TO MAIN
- CW ID AND CW MESSAGES SELECTED BY TRIGGER
- COAXIAL RELAY DRIVERS FOR SINGLE
ANTENNA OPERATION; ALSO TX ATTENUATOR
- PROGRAMMED MESSAGE BANKS FOR
MAINTENANCE LOGS OR ANY OTHER FREE TEXT
- REPEATER OCCUPATION SETTINGS TO HOLD
THE LAST TONE CODE (PRESET TIMER)
- AUDIO VOICE COMPANDING BUILT IN
- CHANNEL SCANNING WITH PRIORITY CHANNEL
- AUTOMATIC DC BACKUP SWITCHING WITH ALERT



Specifications

	VXR-9000 (VHF)	VXR-9000 (UHF)
General Specifications		
Frequency Range	134~160 MHz (A) 148~174 MHz (C)	400~430 MHz (A) 450~490 MHz (D) 480~512 MHz (F)
Number of Channels	32 Channels	
Channel Spacing	2.5 kHz/5 kHz/6.25 kHz	
Operating Voltage	13.6V DC \pm 10 %	
Current Drain	12A Maximum	
Duty Cycle	Receive : 100 % , Transmit : 100 % (@25 W output)	
Frequency Stability	1.5 ppm , 1.0 ppm (30 min after wake up)	
Operating Temperature Range	-22° F to +140° F (-30° C to +60° C)	
Dimensions (W x H x D)	19" x 3.5" x 13.5" (483 x 88 x 343 mm)	
Weight (approx.)	21.4 lbs. (9.7 kg)	
Receiver Specifications		
Antenna Impedance	50 Ohms	
Antenna Connector	BNC	
Receiver Type	Double-Conversion Superheterodyne	
Sensitivity	0.25 μ V (12dB SINAD)	0.30 μ V (12dB SINAD)
	0.35 μ V (20dB Noise Quieting)	0.45 μ V (20dB Noise Quieting)
Selectivity	84 dB (Wide), 77 dB (Narrow)	
Intermodulation	82 dB (Wide), 80 dB (Narrow)	
Image Rejection	90 dB	
Squelch Threshold	0.4 μ V (Adjustable)	
Audio Output	4 W @ 4 Ohms	
Audio Distortion	< 3 %	
Hum and Noise	> 50 dB	
Audio Frequency Response	De-emphasis : 6 dB/oct (From 300 Hz to 3 kHz)	
Conducted Spurious	< -90 dBm	
Transmitter Specifications		
RF Output Power (50 W)	50/25/10 W (High/Mid/Low)	
Antenna Impedance	50 Ohms	
Antenna Connector	Type-N	
Modulation Type	16K0F3E/11K0F3E	
System Deviation	\pm 5.0 kHz (Wide), \pm 2.5 kHz (Narrow)	
Hum and Noise	>50 dB (Wide), >45 dB (Narrow)	
Microphone Sensitivity	5mV	
Audio Frequency Response	Pre-emphasis : 6dB/oct (From 300 Hz to 3 kHz)	
Spurious Emission	80dB below carrier	
Audio Distortion	2.5% @1 kHz	
Microphone Impedance	600 Ohms	

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.

Options



MD-11A8J Desktop Microphone



MH-27A8J Hand Microphone



FVP-25 Encryption Unit



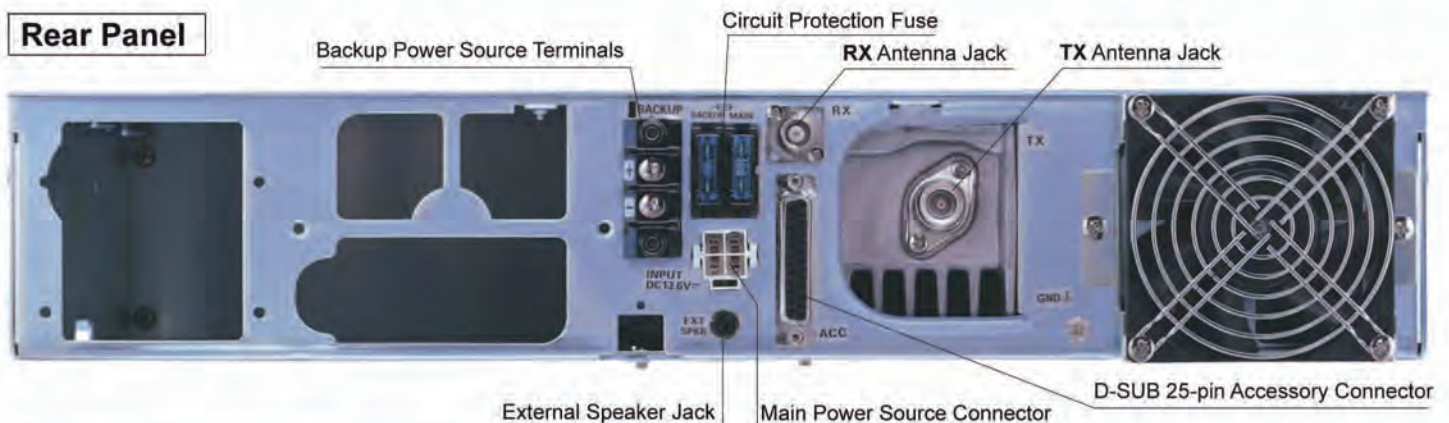
FVP-35 Rolling Code Encryption Unit



FIF-9 4 Wire Line Interface Unit

Supplied Accessories
DC Power Cord, 15-A Blade Fuse,
Knob Cap

Rear Panel



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