



# X↔BAND 50

Crossband Repeater

## BRIDGING THE GAP BETWEEN BANDS



VHF

### CROSSBAND COMMUNICATIONS

Connecting VHF to UHF, UHF to UHF, and VHF to VHF, the X-Band 50 is an interoperable solution that provides over-the-air programming (OTAP).

This crossband repeater is compact in size, easy to use, and operates as a control station without the need of a network.

#### Powerful Crossband Capability

- Full UHF and VHF interoperability; provides seamless inter-band communications. Inter-agency communications just got easier!
- 50 Watts VHF; 45 Watts UHF
- Local controlled operation; can also be used as a dual base unit (with optional mic)
- Feature rich

#### Maximum Frequency Flexibility/ Alpha Tag Your Channels

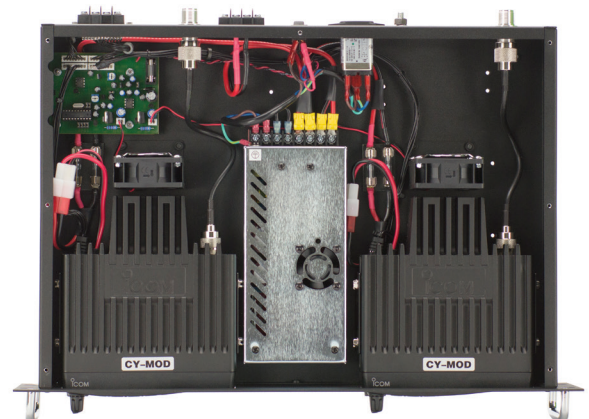
- 128 Memory channels with 8 memory banks per radio
- 8-Character alphanumeric display/easy to read

#### Battery Backup

Configurable to 120V or 220V AC input. Can switch over to customer-supplied 12 volt DC battery backup if AC power fails.

#### Compact Size

Set the X-Band 50 on a desktop, or mount it in a 19" industry standard rack frame



Radios, controller, and power supply, all in one box. Dual forced-air fans keep the unit cool. 19" Rack mountable. Battery backup capable.

VHF and UHF Interoperability

**ADDITIONAL FEATURES**

**Advanced Multi 2-Tone/5-Tone Systems**

- Programmable actions when a matched tone is received
  - Bell icon indication ON/OFF/blink
  - Answer back calls
  - Beep sounds
  - Scan start/stop
  - Auto transmission
  - Stun/kill functions (prevents use of a lost or stolen radio)
  - External out for horn drive (optional OPC-617 is required)
- 32 Tx and 9 Rx 5-Tone codes available
- 11 Tx and Rx 2-Tone codes available

**Other Features**

- 10 scanning lists and normal/priority scan
- Power ON password
- Backlit LCD and keys for night time operations
- Meets MIL-STD 810 C, D, E and F specifications



A clean rear panel design allows for easy setup and operation. An options connector allows for customized applications such as Interconnect, CWID, and more.

**SPECIFICATIONS**

**GENERAL**

Frequency coverage	: VHF	136-174MHz
	: UHF	400-470MHz
		450-512MHz
Number of programmable channels	: 128 channels/8 zones	
Channel spacing	: 12.5/25kHz, 15/30kHz*	
PLL channel step	: 2.5/3.125kHz	
Frequency stability	: ±2.5 ppm	
Operating temp. range	: -30°C to +60°C; -22°F to +140°F	
Power supply voltage	: 13.6 V DC	
Current drain (approx.)	: Tx VHF (50W)	10 A
	UHF (45W)	11A
	Rx max. Audio/stand-by	0.7A/250mA
Antenna impedance	: 50Ω (normal)	
Dimensions (WxHxD)	: 482.6 x 127 x 393.7mm	
	: 19" x 5" x 15.5"	
Weight	: 8.6kg; 19 lbs	

\*25kHz bandwidth is no longer available for FCC Part 90 licenses for USA versions. Ask your dealer if you need 25kHz bandwidth

**TRANSMITTER**

Output power (at 13.6V DC)	: VHF	50W
	: UHF	45W
Max. frequency deviation	: ±5.0/±2.5 kHz (wide/narrow)	
Spurious emission	: 70 dB typ.	
Adjacent Ch. power	: 45/40dB (wide/narrow)	
Audio harmonic distortion	: 3% typ. (AF 1 kHz, 40% deviation)	
Mic. impedance	: 600Ω (8-pin modular)	

**RECEIVER**

Sensitivity	: 0.25 μV typ. (at 12dB SINAD)
Squelch sensitivity	: 0.25 μV typ.
Adjacent ch. selectivity	: 75/65dB typ. (wide/narrow)
Spurious response	: 80dB
Intermodulation (typical)	: 75dB typ.
Audio output power	: 4W typical at 5% distortion with a 4Ω load
External SP connector	: 2-conductor 3.5 (d) mm (1/8")/4Ω

**OPTIONS**

**MICROPHONES:**

SM-26



HM 152T



HM 152



**Supplied Accessories**

- AC Power Cord
- DC Power Cord

**Applicable U.S. Military Specifications**

The X-Band 50 meets (MIL-STD requirements and strict environmental standards for shock MIL 810 C, D, E and F) and vibration (MIL 810 C, D, E and F).

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GSA contract #GS-35F-0109L

