

VX-1700 HE Mobile Radio

SPECIFICATION SHEET

Multi-Mode Mobile HF Radio

The multi-purpose 125 Watt VX-1700 is designed to operate as a mobile radio or as a base station for long-haul land mobile communications. Operating modes include LSB/USB (J3E and J2B), AM (A3E) and CW (A1A), making the VX-1700 ideal for a wide variety of applications.

Large Channel Capacity

The VX-1700 can store 200 channels arranged in five groups with the flexibility to have any number of channels per group. Each channel can be programmed with a 6-character alphanumeric description for quick and easy call management.

Automatic Link Establishment (ALE) Option

With the ALE-I option installed, the VX-I700 Automatic Link Establishment feature selects the channel with the best LQA (Link Quality Analysis) score from the programmed channels automatically.

Flexible Calling Options

The VX-1700 provides six different built-in calling modes to support various communications requirements including SELCALL, TELCALL, Message Call (for text messages), Position Request Call, Position Send Call and Beacon Request Call to check signal quality.

Dual Watch Operation

Operate the VX-1700 radio on one channel while periodically monitoring the designated memory channel to ensure a call is not missed. Ideal for emergency management situations when it is important that a call gets through to dispatch.



VX-1700

241mm (W) x 99mm (H) x 285mm (D)



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 industryleading 3 year warranty – another great reason to choose Vertex Standard. Ask your Dealer for more details.



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- **Additional Features**
- · Four programmable keys
- Noise blanker
- · CW Semi break-in
- CW Side tone function
- VOX
- VFO Mode
- · Field memory channel storage

Accessories

- MD-12A8J: Desktop microphone
- MD-100A8X: Channel control desktop microphone
- FP-1030A: External power supply
- MLS-100: External speaker
- · ALE-1: Automatic link establishment unit
- FC-30: Antenna tuner (coaxial lines)
- FC-40: Antenna tuner (wire/whip antennas)
- YA-30: Broadband HF antenna 23.4m
- YA-31: Broadband HF antenna 15m
- YA-007FG: HF Multi-band mobile antenna (7MHz to 30MHz requires FC-40)
- MMB-89: One-touch mobile bracket
- MHG-1: Carrying handle

Option Board

• FVP-39:Variable split-band voice scrambler (FVP-24 compatible)

VX-1700 Specifications

General Specification			
Frequency Range	RX: 30kHz – 30.0000MHz; TX: 1.600 – 30.0000MHz		
Number of Channels	200		
Emission Type	AIA(CW); J3E(LSB/USB); A3E(AM); J2B (USB/LSB)		
Power Requirements	DC 13.8V ±15%, negative ground		
Frequency Synthesizer Steps	10Hz, 100Hz, 1kHz		
Frequency Stability	± Ippm (-10°C to +55°C) TYP		
Current Consumption	Standby: 25mA; RX, no signal: 1.0 A; RX: 1.5 A TX: 24 A (125W output)		
Operating Temperature Range	-10°C to +55°C		
Antenna Impedance	50 Ohms		
Dimension (W x H x D)	241mm x 99mm x 285mm		
Neight (Approx.) 4.3kg			
Receiver Specification			
Intermediate Frequency	l st: 45.274MHz, 2nd: 24kHz		
Sensitivity (AIA/J2B/J3E/A3E: S/N 10 dB)	0.5 – 1.6MHz: 1.41µV (A1A/J2B/J3E); 8µV (A3E) 1.6 – 30MHz: 0.16µV (A1A/J2B/J3E); 1µV (A3E)		
Squelch Sensitivity (A1A/J2B/J3E)	0.5 – 1.6MHz: 2.5µV 1.6 – 30MHz: 2µV		
IF and Image Rejection	Better than 80dB		
Selectivity	A1A(W), J2B(W), J3E: > 2.2kHz @ -6dB; < 4.5kHz @ -60dB A1A(N), J2B(N): > 500Hz @ -6dB; < 2.0kHz @ -60dB A3E: > 6kHz @ -6dB; < 20kHz @ -60dB		
Audio Output	t 2.2 Watts into 8 Ohms @ 10% THD		
Audio Impedance	4 – 16 Ohms (8 Ohms Nominal)		
Conducted Radiation	Less than 4000μ μW		
Transmitter Specification			
Output Power	125 Watts (A1A, J2B, J3E @ 1.6000 – 3.9999MHz)* 100 Watts (A1A, J2B, J3E @ 4.0000 – 30.000MHz) 31 Watts AM Carrier (A3E @ 1.6000 – 3.9999MHz) 25 Watts AM Carrier (A3E @ 4.0000 – 30.000MHz)		
Duty Cycle	RX:TX = 4min. : 1min.		
Modulation	J3E: PSN type modulator A3E: Low-level (early stage)		
Spurious Radiation	-50dB (Harmonics)		
J3E Carrier Suppression	Better than 50dB below peak output		
Undesired Sideband Suppression	Better than 60dB below peak output		
Audio Response (J3E)	Not more than -6dB from 400Hz – 2500Hz		
Occupied Bandwidth	AIA: less than 0.5kHz; J3E: less than 3.0kHz; A3E: less than 6.0kHz		
Microphone Impedance	200 – 10k Ohms, (600 Ohms Nominal)		

*100W when using FC-30

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Applicable MIL-STD					
	Standard	MIL 810D Methods/ Procedures	MIL 810E Methods/ Procedures	MIL 810f Methods/ Procedures	
	Vibration	514.3 / Procedure 1 Cat. 10	514.4 / Procedure I Cat. 10	514.5/Procedure 1 Cat. 20/24 Figure 514.5C-1	
	Shock	-	-	516.5/Procedure I	

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