

VX-1700

HF Multi Mode Mobile Radio



- Frequency Coverage :
 - RX: 30 kHz ~ 30.0000 MHz in 10 Hz Steps
 - TX: 1.600 ~ 30.0000 MHz
- A1A (CW), J3E (LSB/USB), A3E (AM), J2B (USB/LSB),
- 200 Memory Channels (arranged in five banks)
- Alpha-Numeric Labeling of Memory Channels
- Power Output:
 - 125 Watts (A1A, J2B, J3E @1.6000 ~ 3.9999 MHz)
 - 100 Watts (A1A, J2B, J3E @4.0000 ~ 30.000 MHz)
 - 31 Watts AM Carrier (A3E @1.6000 ~ 3.9999 MHz)
 - 25 Watts AM Carrier (A3E @4.0000 ~ 30.000 MHz)
- Mobile Antenna (Optional)
- Selcall / Telcall Built-in
 - Selcall
 - Telcall
 - Message Call
 - Position Request Call
 - Position Send Call
 - (with GPS receiver connected)
 - Beacon Request Call
- ALE Operation (requires optional ALE-1 unit)
- Dual Watch Operation
- External Automatic Antenna Tuner, FC-30 (Coax) and FC-40 (Wire) Available
- VOX
- Noise Blanker
- Dimmer Function
- CW Side Tone Function
- CW Semi-break-in
- Transcript® SSB Encryption Unit SC20-455 Available (Optional)
- PC Programmable
- MIL-STD 810D / E / F



VX-1700 HF Multi Mode Mobile Radio

The Vertex Standard VX-1700 is a low-cost, integrated HF communications transceiver designed for the Land Mobile market.

The VX-1700 includes 200 memory channels (arranged in five banks) with Alpha-Numeric labeling of Memory channels. And the Selcall feature allows paging of a single transceiver or groups of transceivers by a dispatch center.

Available options include the VL-1000/VP-1000 1 kW Linear Amplifier/Power Supply, FP-1030A AC Power Supply, FC-30 Automatic External Antenna Tuner (for 50 Ohm unbalanced antenna feedlines), FC-40 Automatic External Antenna Tuner (for an end-fed random-length wire or long whip antenna), YA-30 Broadband Dipole Antenna, YA-007FG Mobile Antenna, MD-200A8X Desktop Microphone, MLS-100 External Speaker, and the ALE-1 Automatic Link Establishment Unit which automatically selects the channel with the best LQA (Link Quality Analysis) score from the programmed channels.

Rear Panel



Accessories & Options

| | |
|---|---|
|  <p>VL-1000 Linear Amplifier VP-1000 AC Power Supply for the VL-1000</p> |  <p>FP-1030A AC Power Supply</p> |
|  <p>MD-200A8X Desktop Microphone</p> |  <p>FC-40 External Antenna Tuner (Wire/Whip Antennas)</p> |
|  <p>FC-30 External Antenna Tuner (Coaxial Lines)</p> |  <p>MLS-100 External Speaker</p> |

Various accessories listed may not be available in some countries.

Specifications

| General Specifications | | | |
|---|---|-------------------------|-----------|
| Receiver Frequency Range | 30 kHz ~ 30.0000 MHz | | |
| Transmitter Frequency | 1.600 ~ 30.0000 MHz | | |
| Emission Modes | A1A (CW), J3E (LSB/USB), A3E (AM), J2B (USB/LSB) | | |
| Frequency Synthesizer Steps | 10 Hz, 100 Hz, 1 kHz | | |
| Frequency Stability | ±1 ppm (14° F ~ 131° F / -10° C ~ +55° C) TYP | | |
| Operating Temperature Range | 14° F ~ 131° F (-10° C ~ +55° C) | | |
| Antenna Impedance | 50 Ohms | | |
| Supply Voltage | 13.8 Volts DC ±15%, negative ground | | |
| Power Consumption | Standby | 25 mA | |
| | Receive, no signal | 1.0 A | |
| | Receive | 1.5 A | |
| | Transmit | 22 A (125 Watts output) | |
| Dimensions (WxHxD) | 9.5" x 3.9" x 11.2" (241 x 99 x 285 mm) | | |
| Weight (approx.) | 9.5 lbs (4.3 kg) | | |
| Receiver Specifications | | | |
| Intermediate Frequencies | 1st: 45.274 MHz, 2nd: 24 kHz | | |
| Sensitivity (A1A/J2B/J3E/A3E: S/N 10 dB) | A1A/J2B/J3E | | A3E |
| | 0.5 ~ 1.6 MHz: | 1.41 µV | 8 µV |
| | 1.6 ~ 30 MHz: | 0.16 µV | 1 µV |
| Squelch Sensitivity (A1A/J2B/J3E) | 0.5 ~ 1.6 MHz: 2.5 µV | | |
| | 1.6 ~ 30 MHz: 2 µV | | |
| IF Rejection | Better than 80 dB | | |
| Image Rejection | Better than 80 dB | | |
| Selectivity | -6 dB | | -60 dB |
| | A1A(W), J2B(W), J3E | > 2.2 kHz | < 4.5 kHz |
| | A1A(N), J2B(N) | > 500 Hz | < 2.0 kHz |
| | A3E | > 6 kHz | < 20 kHz |
| Audio Output | 2.2 Watts into 8 Ohms @ 10% THD | | |
| Audio Output Impedance | 4 ~ 16 Ohms (8 Ohms Nominal) | | |
| Conducted Radiation | Less than 4000 µµW | | |
| Transmitter Specifications | | | |
| Power Output*1 | 125 Watts (A1A, J2B, J3E @ 1.6000 ~ 3.9999 MHz)*2 | | |
| | 100 Watts (A1A, J2B, J3E @ 4.0000 ~ 30.000 MHz) | | |
| | 31 Watts AM Carrier (A3E @ 1.6000 ~ 3.9999 MHz) | | |
| | 25 Watts AM Carrier (A3E @ 4.0000 ~ 30.000 MHz) | | |
| Modulation Types | J3E: PSN type modulator | | |
| | A3E: Low-level (early stage) | | |
| Spurious Radiation | -56 dB (Harmonics) | | |
| J3E Carrier Suppression | Better than 50 dB below peak output | | |
| Undesired Sideband Suppression | Better than 60 dB below peak output | | |
| J3E Audio Response | Not more than -6 dB from 400 Hz ~ 2500 Hz | | |
| Occupied Bandwidth | A1A: less than 0.5 kHz | | |
| | J3E: less than 3.0 kHz | | |
| | A3E: less than 6.0 kHz | | |
| Microphone Impedance | 200 ~ 10 k Ohms (600 Ohms Nominal) | | |

Specifications are subject to change without notice or obligation.

*1 Duty Cycle RX : TX = 4 min : 1 min

*2 100 Watts when using FC-30.

Applicable MIL-STD

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

ALE-1 Automatic Link Establishment Unit
SC20-455 Encryption Unit
YA-30 Broadband HF Antenna
YA-007FG HF Multi-Band Mobile Antenna for FC-40
MMB-89 One-Touch Mobile Bracket
MHG-1 Carrying Handle
CT-118 Linear Amplifier Control Cable
CE77 Programming Software
CT-62 Programming Cable

ISO9001:2000



YAESU MUSEN CO., LTD
ISO9001:2000 certification

ISO14001:1996



YAESU MUSEN CO., LTD
ISO14001:1996 certification



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