

2 m FM Hand Held Transceiver

VX-120/VX-170

(8 key Version / 16 key Version)



Features

- 2m Band/ 5W FM Transceiver
- Wide coverage receiver
- IPX7 Submersible 30 minutes @ 3 feet (1m)
- 700 mW Internal Speaker
- Long Life Battery FNB-83 (7.2 V/1400 mAh) included
- Huge Display (LCD)
- Enhanced Paging and Code Squelch (EPCS)
- CTCSS/DCS included
- Security Password Feature
- Direct Keypad Frequency Entry (VX-170)
- Transmit Time-Out Timer (TOT)
- Automatic Power-OFF (APO)
- Automatic Repeater Shift (ARS)
- YAESU's exclusive ARTS™ (Auto-Range Transponder System)
- RF Squelch Circuit
- 200 Standard Memory Channels with 10 Memory Bank
- Labeling Memories
- Dual Watch (Priority Channel Scanning)
- Emergency Channel
- Smart Search Memories
- Internet Connection (WiRES) Feature
- Direct DTMF Operation (VX-170)
- DTMF Memory
- DTMF Pager (Requires Optional FTD-7)
- EAI (Emergency Automatic ID Except US Version)
- BCLO
- Cloning
- Keypad/LCD Illumination
- External DC Jack (6-16 V DC)

**Huge
LCD**

**Big
700 mW
Audio!**

**1400 mAh
Long Life
Battery**

IPX7
Submersible
30 minutes @ 3 feet (1 m)

Waterproofing specifications are assured only when using the genuine YAESU FNB-83 Battery Pack or FBA-25A Battery Holder. The use of after-market batteries or other accessories may compromise the effectiveness of the waterproofing.

VX-120/VX-170 2 m FM Hand Held Transceiver

The VX-120/VX-170 are compact, high-performance FM hand-helds providing up to five Watts of RF power, along with big audio output (700 mW) and unmatched protection against the elements!

Protected against water ingress to IPX7 specifications (submersion for up to 30 minutes at a depth of 3 feet), the VX-120/170 feature long operating times, thanks to the supplied 1400 mAh NiMH Battery Pack. The 8-key VX-120 provides the utmost in operation simplicity, while the 16-key VX-170 includes direct keyboard frequency entry and direct DTMF input. And both models provide quick, one-touch access to YAESU's exciting and fun WiRES-II™ VoIP Internet Linking system!

SPECIFICATIONS

General	
Frequency Ranges	RX 137-174 MHz TX 2 m Amateur Band
Channel Steps	5, 10, 12.5, 15, 20, 25, 50, 100 kHz
Frequency Stability	±5 ppm (-10° C to +60° C)
Repeater Shift	±600 kHz
Emission Type	F2D, F3E
Antenna Impedance	50 Ω
Supply Voltage	Nominal: 7.2 V DC, Negative Ground Operating: 6.0 ~16 V, Negative Ground(EXT DC JACK) 11~16 V, Neg. Ground (EXT DC JACK while Charging)
Current Consumption	125 mA (Receive) 200mW Output 45 mA (Standby, Saver Off) VHF 20.5 mA (Standby, Saver On) 8 mA(Auto Power Off) 1.5 A (5 W Tx 7.2 V DC)
Battery Life	
Operating Temperature	-4° F to +140° F (-20° C to +60° C)
Case Size	2.4" x 4.7" x 1.3" WHD (60 x 120 x 32 mm)
Weight	13.8 oz. (390 g) with FNB-83 & antenna

Transmitter

RF Power Output	High 5 W (@ 7.2 V FNB-83) Mid 2 W (@ 7.2 V FNB-83) Low 0.5 W (@ 7.2 V FNB-83)
Modulation Type	Variable Reactance F2D, F3E
Maximum Deviation	±5 kHz F2D, F3E
Spurious Emissions	At least 60 dB down (High & Mid) At least 40 dB down (Low)
Microphone Impedance	2 kΩ

Receiver

Circuit Type	Double-Conversion Superheterodyne
Intermediate Frequencies	1st : 21.7 MHz 2nd: 450 kHz
Sensitivity	0.2 μV for 12 dB SINAD (137-140 MHz, NFM) 0.16 μV for 12 dB SINAD (140-150 MHz, NFM) 0.2 μV TYP for 12 dB SINAD (150-174 MHz, NFM)
Selectivity	NFM, AM 12 kHz / 35 kHz (-6 dB / -60 dB)
AF Output	700 mW @ 16 Ω for 10 % THD (@ 7.5 V) Internal SP 400 mW @ 8 Ω for 10 % THD (@ 7.5 V) EXT SP Jack

About this brochure: we have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time in equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Yaesu Dealer for complete details.

YAESU VERTEX STANDARD CO., LTD.
4-8-8 Nakameguro, Meguro-ku, Tokyo 153-8644, Japan

For the latest Yaesu news, visit us on the Internet:
<http://www.vxstd.com>

2005.0610NA

B9200488B Printed in Japan

ACCESSORIES & OPTIONS

 CMP460A Waterproof Speaker/Microphone	 MH-57A4B Mini Speaker/Microphone	 VC-27 Ear piece/Microphone
 VC-24 VOX Headset	 CT-91 Microphone Adapter	 FTD-7 DTMF Paging Unit
 VAC-370 Rapid Desktop Charger	 CD-26 Charger Cradle	 FBA-25A Dry Cell Battery Case for 6 AA-size cells
 E-DC-5B DC Cable w/ Cigar Adapter	 E-DC-6 DC Cable; plug and wire only	 CN-3 BNC-to-SMA Adapter

• Accessories Supplied with the VX-120 /170

FNB-83 7.2 V, 1400 mAh Rechargeable Ni-MH Battery Pack
NC-88 B/C/U 10-Hour Charger ('B' suffix for 120V AC, 'C/U' suffix for 234V AC)
Belt Clip
Antenna

• Available Options For The VX-120 /170

FNB-83 7.2 V, 1400 mAh Rechargeable Ni-MH Battery Packs
NC-88 B/C/U 10-Hour Charger ('B' suffix for 120V AC, 'C/U' suffix for 234V AC)

VERTEX STANDARD <http://www.vxstdusa.com>
Email: amateursales@vxstdusa.com
US Headquarters Phone 714/827-7600; Fax 714/827-8100
10900 Walker Street, Cypress, CA 90630, U.S.A.

YAESU EUROPE B.V.
P.O. Box 75525, 1118 ZN Schiphol, The Netherlands

YAESU UK LTD. <http://www.yaesu.co.uk>
Email: sales@yaesu.co.uk
Unit 12, Sun Valley Business Park, Winnall Close
Winchester, Hampshire, SO23 0LB, U.K.

VERTEX STANDARD HK LTD. <http://www.vxstd.com.hk>
Unit 5, 20/F., Seaview Centre, 139-141 Hoi Bun Road,
Kwun Tong, Kowloon, Hong Kong