## FM Mono Band Hand Held Transceiver

# **VX-120/E-170/E Series**

(8-Key Version / 16-Key Version)

\*E for European Version

## VX-127/E•177/E UHF

### Features

- 5W FM Transceiver
- Wide Receiver Coverage
- IPX7 Submersible 3 feet (1m) for 30 minutes
- Loud Audio 700 mW via 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 Series)
- 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 Banks
- Alpha-Numeric Labeling of Memories
- Dual Watch (Priority Channel Scanning)
- Emergency Feature
- Smart Search Memories
- Internet Connection (WiRES-II) Feature
- Direct DTMF Operation (VX-170 Series)
- DTMF Memory
- DTMF Pager (Requires Optional FTD-7)
- EAI: Emergency Automatic ID (except U.S. version)
- BCLO (Busy Channel Lock Out)
- Cloning
- Keypad/LCD Illumination
- External DC Jack (6-16 V DC)



Big 700 mW Audio! 1400 mAh Long Life Battery



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/E Series (8-Key Version)

VX-170/E Series (16-Key Version)



#### VX-120/E • 170/E Series VHF • UHF FM Mono Band Hand Held Transceiver

The VX-120/E•170/E Series are compact, high-performance Submersible FM hand-helds providing up to five Watts of RF power, along with big audio output (700 mW) for the 2-m or 70-cm amateur bands.

Protected against water ingress to IPX7 specifications (submersion for up to 3 feet/1 meter for 30 minutes), the VX-120/E•170/E Series feature long operating times, thanks to the supplied 1400 mAh Ni-MH Battery Pack. The 8-key VX-120/E Series provides the utmost in operation simplicity, while the 16-key VX-170/E Series includes direct keypad 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!

SPECIFICATION	IS	
	VHF (VX-120/170)	UHF (VX-127/177)
General	· · · · · · · · · · · · · · · · · · ·	
Frequency Ranges	RX 137-174 MHz	RX 430-440 MHz or 420-470 MHz
	TX 144-146(148) MHz	TX 430-440(450) MHz
Channel Steps	5, 10, 12.5, 15, 20, 25, 50, 100 kHz	
Frequency Stability	±5 ppm -10° C to +60° C (-4° F to +140° F)	
Repeater Shift	±600 kHz	±5 MHz, 7.2 MHz, 1.6 MHz
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	165 mA (Receive) 200 mW Output	165 mA (Receive) 200 mW Output
	45 mA (Standby, Saver Off)	50 mA (Standby, Saver Off)
	20.5 mA (Standby, Saver On)	22 mA (Standby, Saver On)
	8 mA(Auto Power Off)	8 mA(Auto Power Off)
	1.5 A (5 W TX 7.2 V DC)	1.8 A (5 W TX 7.2 V DC)
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 and belt clip	
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)	
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Modulation Type	Variable Reactance F2D , F3E	
Maximum Deviation	±5 kHz (F2D , F3E)	
Spurious Emissions	At least 60 dB down (High & Mid)	
Sp 3	At least 40 dB down (Low)	
Microphone Impedance	2 kΩ	
Receiver		
Circuit Type	Double-Conversion Superheterodyne	
Intermediate Frequencies	1st : 21.7 MHz	1st: 47.25 MHz
	2nd: 450 kHz	2nd: 450 kHz
Sensitivity	0.2 μV for 12 dB SINAD (137-140 MHz)	0.2 μV for 12 dB SINAD
• •	0.16 μV for 12 dB SINAD (140-150 MHz)	,
	0.2 μV TYP for 12 dB SINAD (150-174 MHz.)	
Selectivity	NFM 12 kHz / 35 kHz (-6 dB / -60 dB)	
AF Output 700 mW @ 16 Ω for 10 % THD (@ 7.5 V) Internal 400 mW @ 8 Ω for 10 % THD (@ 7.5 V) EXT SP J		
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## **ACCESSORIES & OPTIONS** CMP460A MH-57A4B Waterproof Speaker/ Speaker/Microphone Microphone Earpiece/Microphone FTD-7 DTMF Paging Unit VC-24 **CT-91** Microphone Adapter **VOX Headset** VAC-370B/C/U **CD-26** Dry Cell Battery Case for Desktop Rapid Charger Charger Cradle 6 ÁA-size Alkaline cells E-DC-6 E-DC-5B CN-3 DC Cable: BNC-to-SMA Adapter plug and wire only Cigarette-Lighter Adapter

 Accessories Supplied with the VX-120 /170 Series FNB-83 7.2 V, 1400 mAh Rechargeable Ni-MH Battery Pack NC-88 B/C/U\* 10-Hour Charger **Belt Clip** Antenna

\*B suffix for 120V AC, C/U suffix for 234V AC

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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.



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