

144/430 MHz Dual-Band Hand-Held FM Transceiver

# VX-6R/E\*

\*E for European version

144/430 MHz  
FM DUAL BAND  
SUBMERSIBLE  
222 MHz for US Version



Actual size

**YAESU**  
Choice of the World's top DX'ers

## Specifications

General	
Frequency Ranges (USA Version)	RX 0.5 - 1.8 MHz (BC Band), 1.8 - 30 MHz (SW Band), 30 - 76(59) MHz (50 MHz HAM Band), 76(59) - 108 MHz (FM Band), 108 - 137 MHz (Air Band), 137 - 174 MHz (144 MHz HAM Band), 174 - 222 MHz (VHF TV Band), 222 - 420 MHz (ACT1 Band), 420 - 470 MHz (430 MHz HAM Band), 470 - 800 (729) (UHF TV Band), (757 - 774) (UHF TV Band), 800 - 998.990 MHz (ACT2 Band; USA Cellular Blocked) TX 144 - 146(148) MHz, 222 - 225 MHz (USA only) 430 - 440(450) MHz,
Channel Steps	5/9/10/12.5/15/20/25/50/100 kHz
Frequency Stability	±5 ppm @14 °F to 122 °F (−10 °C to +50 °C)
Repeater Shift	±600 kHz (144 MHz), ±1.6/5.0/7.6 MHz (430 MHz)
Emission Type	F2D, F3E
Antenna Impedance	50 Ω
Supply Voltage (Negative Ground)	Nominal: 7.4 V DC, Negative Ground Operating: 5.0 ~ 16.0 V DC (EXT DC Jack) 11.0 ~ 16.0 V DC (EXT DC Jack while Charging)
Current Consumption (Approx. @ 7.4 V)	150 mA (Receive) 60 mA (Standby, Saver Off) 20 mA (Standby, Saver On) 1 mA (ON Timer Activated) 200 mA (Auto Power Off) 1.6 A (5 W TX, 144 MHz) 1.5 A (1.5 W TX, 222 MHz: USA only) 1.8 A (5 W TX, 430 MHz)
Operating Temperature	−4 °F to 140 °F (−20 °C to +60 °C)
Case Size	2.3 (W) x 3.5 (H) x 1.1 (D) (58 x 89 x 28.5 mm) (w/o knob, antenna, and belt clip)
Weight	9.5 Oz (270 g) with FNB-80LI, and antenna
Transmitter	
RF Power Output	High Low 3 Low 2 Low 1 144 MHz/430 MHz 5.0 W 2.5 W 1.0 W 0.3 W 222 MHz (USA Only) 1.5 W 1.0 W 0.5 W 0.2 W
Modulation Type	Variable Reactance F2D, F3E
Maximum Deviation	±5.0 kHz (F2D, F3E)
Spurious Emission	At least 60 dB down (@High power) At least 50 dB down (@Low 2 and Low 1 power)
Microphone Impedance	2 kΩ
Receiver	
Circuit Type	AM, NFM: Double-Conversion Superhetrodyne WFM: Triple-Conversion Superhetrodyne
IFs	1st 2nd 3rd AM, NFM: 47.25 MHz 450 kHz - WFM: 47.25 MHz 10.7 MHz 1 MHz
Sensitivity	1.0 μV TYP for 10 dB SN (1.8-30 MHz, AM) 0.35 μV TYP for 12 dB SINAD (30-54 MHz, NFM) 0.5 μV TYP for 12 dB SINAD (54-76(59) MHz, NFM) 1 μV TYP for 12 dB SINAD (76(59)-108 MHz, WFM) 1.5 μV TYP for 10 dB SN (108-137 MHz, AM) 0.2 μV for 12 dB SINAD (137-140 MHz, FM) 0.16 μV for 12 dB SINAD (140-150 MHz, FM) 0.2 μV for 12 dB SINAD (150-174 MHz, FM) 0.5 μV TYP for 12 dB SINAD (174-250 MHz, WFM) 0.5 μV for 12 dB SINAD (300-350 MHz, NFM) 0.2 μV for 12 dB SINAD (350-420 MHz, NFM) 0.18 μV for 12 dB SINAD (420-470 MHz, NFM) 1.0 μV for 12 dB SINAD (470-540 MHz, WFM) 1.0 μV TYP for 12 dB SINAD (580-800 MHz, WFM) 0.5 μV TYP for 12 dB SINAD (800-999.990 MHz, NFM)
Selectivity	AM, NFM: 12 kHz/35 kHz (−6 dB /−60 dB) WFM: 200 kHz/300 kHz (−6 dB /−20 dB)
AF Output	200 mW @8 Ω for 10 % THD (@7.4 V) 400 mW @8 Ω for 10 % THD (@13.8 V)

Specifications are subject to change without notice, and are guaranteed within the 144, 222, and 430 MHz amateur bands only. Frequency ranges will vary according to transceiver version; check with your dealer.

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.



VERTEX STANDARD CO., LTD.

4-8-8 Nakameguro, Meguro-ku, Tokyo 153-8644, Japan

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## Component parts (Set)



**CD-15 (A)**  
Rapid Charger  
(requires NC-72B/C/U\*)

**CN-3**  
BNC-to-SMA  
Adapter

**SU-1**  
Barometric Pressure  
Sensor Unit

\*B for 120 VAC/C for 220-240 VAC/U for 230 VAC

## Component parts (set)

- FNB-80LI 7.4 V, 1,400 mAh Rechargeable Lithium Ion Battery Pack
- NC-72B/C/U\* 5-Hour Battery Charger

VERTEX STANDARD <http://www.vxstdusa.com>  
Email: [amateursales@vxstdusa.com](mailto:amateursales@vxstdusa.com)

**US Headquarters**  
10900 Walker Street, Cypress, CA 90630, U.S.A.  
Phone 714/827-7600; Fax 714/827-8100

**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](mailto: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