

50/144/430 MHz 5W FM TRANSCEIVER

VX-7R

ULTRA-RUGGED, SUBMERSIBLE
TRI-BAND MAGNESIUM HANDIE



INTERNET KEY FOR ACCESS TO
WIRES™ II

50/144/430 MHz 5 Watt FM Transceiver
(50 MHz AM: 1W; 222 MHz FM: 300 mW (USA version Only))

VX-7R/VX-7Rb

Magnesium Silver

New Black Version Available



YAESU
Choice of the World's top DX'ersSM

Actual Size

And Much, Much More...

- 16-digit, 9-memory DTMF Auto-dialer
- Automatic Repeater Shift (ARS)
- Battery-saving Auto Power Off feature (APO)
- Transmit Time-Out Timer (TOT)
- TX-Battery Saver to reduce power during local QSOs
- Two-channel Dual Watch with 5-second polling
- Keypad/Dial Lockout capability
- Easy-to-use Menu customization of many functions
- Battery Voltage Meter
- Vox operation (Required VC-27)
- Cloning capability between VX-7Rs
- Easy interface to Packet TNCs (using optional CT-91 Mic Adapter)

Display Setup: 8
METER SYMBOL
S2 10000000

General

Frequency Ranges:
MAIN Rx: 0.5-1.8 MHz (BC Band)
1.8-30 MHz (SW Band)
30-59 MHz (50 MHz HAM: USA version)
30-75 MHz (50 MHz HAM: EXP version)
59-108 MHz (FM: USA version)
76-108 MHz (FM: EXP version)
108-137 MHz (Air Band)
137-174 MHz (144 MHz HAM)
174-222 MHz (VHF-TV)
222-225 MHz (220 MHz HAM: USA version)
222-420 MHz (ACT1: Action Band 1: USA version)
222-420 MHz (ACT1: Action Band 1: EXP version)
420-470 MHz (430 MHz HAM)
470-729 MHz (UHF-TV: USA version)
470-800 MHz (UHF-TV: EXP version)
800-999 MHz (ACT2: Action Band 2, cellular Blocked)
SUB Rx: 50-54 MHz (137-174 MHz: 420-470 MHz)
Tx: 50-54 MHz (MAIN & SUB)
144-146 MHz or 144-148 MHz (MAIN & SUB)
222-225 MHz (MAIN: USA version)
430-440 MHz or 430-450 MHz (MAIN & SUB)
Channel Steps: 5/9/10/12.5/15/20/25/50/100 kHz
Frequency Stability: ± 5 ppm (-10°C to $+50^{\circ}\text{C}$) (-14°F to $+122^{\circ}\text{F}$)
Repeater Shift: ± 600 kHz (144 MHz) ± 1.6 MHz (222 MHz/USA version)
 $\pm 1.6/5.0/7.6$ MHz (430 MHz)
Emission Type: A3/F2/F3
Antenna Impedance: 50 Ohms
Supply Voltage: Nominal: 7.4 V DC, Negative Ground
Operating: 6-16 V DC, Negative Ground (EXT DC jack)
Current Consumption: 200 mA (Mono Band Receive)
(Approx.) 240 mA (Dual Band Receive)
67 mA (Mono Band Receive, Standby, Saver Off)
100 mA (Dual Band Receive, Standby, Saver Off)

Specifications

28 mA (Mono Band Receive, Standby, Saver On/Save Ratio 1:5)
34 mA (Dual Band Receive, Standby, Saver On/Save Ratio 1:5)
200 μA (Auto Power Off)
1.6 A (50 MHz, 5 W Tx)
1.7 A (144 MHz, 5 W Tx)
1.0 A (220 MHz, 0.3 W Tx/USA version)
1.9 A (430 MHz, 5 W Tx)
Operating Temperature: -4°F to $+140^{\circ}\text{F}$ (-20°C to $+60^{\circ}\text{C}$)
Case Size (W x H x D): 2.4 x 3.5 x 1.1 inch (60 x 90 x 28.5 mm) w/o knob & antenna
Weight (Approx.): 9.2 oz (260 g) with FNB-80LI & antenna
Transmitter
RF Power Output: 5.0 W (@7.4 V & 13.8 V EXT DC IN)
0.3 W (@7.4 V & 13.8 V EXT DC IN, 222 MHz/USA version)
1.0 W (@7.4 V & 13.8 V EXT DC IN, 50 MHz AM)
Modulation Type: F2, F3: Variable Reactance (MAIN & SUB)
A3: Low Level Amplitude Modulation (MAIN, 50 MHz)
Maximum Deviation: ± 5 kHz F2/F3
Spurious Emission: At least 60 dB down (@ Tx H/L3)
At least 50 dB down (@ Tx L2/L1)
Microphone Impedance: 2K Ohms
Receiver
Circuit Type: N-FM, AM: Double-Conversion Superheterodyne
W-FM: Triple-Conversion Superheterodyne
IF: MAIN Rx
1st: 47.25 MHz (N-FM, AM), 45.8 MHz (W-FM)
2nd: 450 kHz (N-FM, AM), 10.7 MHz (W-FM)
3rd: 1 MHz (W-FM)
SUB Rx
1st: 46.35 MHz
2nd: 450 kHz

Sensitivity:
MAIN Rx: 3.0 μV for 10 dB S/N (0.5-30 MHz, AM)
0.5 μV (TYP) for 12 dB SINAD (30-50, N-FM)
0.16 μV for 12 dB SINAD (50-54, N-FM)
1.0 μV (TYP) for 12 dB SINAD (57-76, N-FM)
1.0 μV for 12 dB SINAD (76-108, W-FM)
1.5 μV (TYP) for 10 dB SN (108-137, AM)
0.2 μV for 12 dB SINAD (137-140, N-FM)
0.16 μV for 12 dB SINAD (140-150, N-FM)
0.2 μV for 12 dB SINAD (150-174, N-FM)
0.3 μV for 12 dB SINAD (174-225, N-FM)
0.5 μV for 12 dB SINAD (300-350, N-FM)
0.2 μV for 12 dB SINAD (350-400, N-FM)
0.18 μV for 12 dB SINAD (400-470, W-FM)
0.35 μV for 12 dB SINAD (470-540, W-FM)
3.0 μV (TYP) for 12 dB SINAD (540-800, W-FM)
1.0 μV (TYP) for 12 dB SINAD (800-999, N-FM)
(Cellular Blocked/USA version)
SUB Rx: 0.18 μV for 12 dB SINAD (50-54, N-FM)
0.18 μV for 12 dB SINAD (137-174, N-FM)
0.2 μV for 12 dB SINAD (420-470, N-FM)
12 kHz/25 kHz (-6dB /20dB, N-FM, AM)
200 kHz/300 kHz (-6dB /20dB, W-FM)
AF Output: 200 mW @ 8 Ohms for 10% THD (@ 7.4 V DC)
400 mW @ 8 Ohms for 10% THD (@ 13.8 V DC)
Specifications are subject to change without notice, and are guaranteed within the amateur bands only.

Supplied Accessories: AC Adapter NC-72B/C*, Lithium-ion Battery Pack FNB-80LI, Antenna, Belt Clip

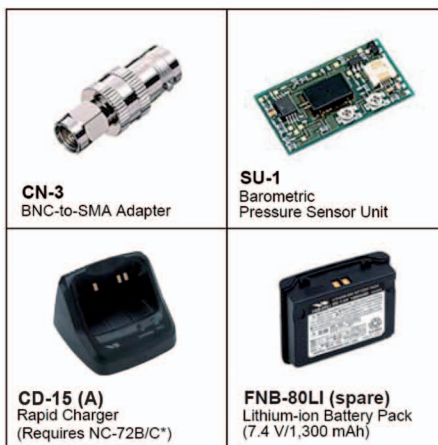
AC Adapter NC-72B/C*



The NC-72B/C* may be plugged directly into the VX-7R for charging of the FNB-80LI Battery Pack. When used with the optional CD-15A Quick Charger, charge time is only about 2.5 hours!

*B for 120 VAC / C for 240 VAC

COMPONENT PARTS (SET)



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. 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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