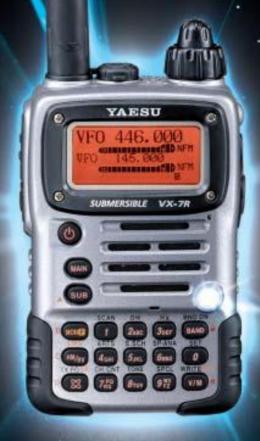
50/144/430 MHz 5W FM Transceiver

# ULTRARUGGED, SUBMERSBLE



The Brightest Star in the Ham Radio Galaxy







**AC Adapter** NC-72B/C\* Innovative Multi-section Antenna! The NC-72B/C\* may by plugged directly into the VX-7R for charging of the FNB-80LI Battely Pack. When used with the optional CD-15A Quick Charger, charge time is only about 2.5 hours! When operating on 144 and 430 MHz, use the bottom section of the supplied antenna. For operation on 50 MHz, simply screw on the antenna extension element and you're ready for DX action! MIC/SP Jack Volume Antenna Jack Control Dial LCD (Display) PTT Switch External Burst Switch Microphone Power Switch Speaker MAIN. SUB Strobe Switches Band Switch MON, Function V/M Switch Internet Key



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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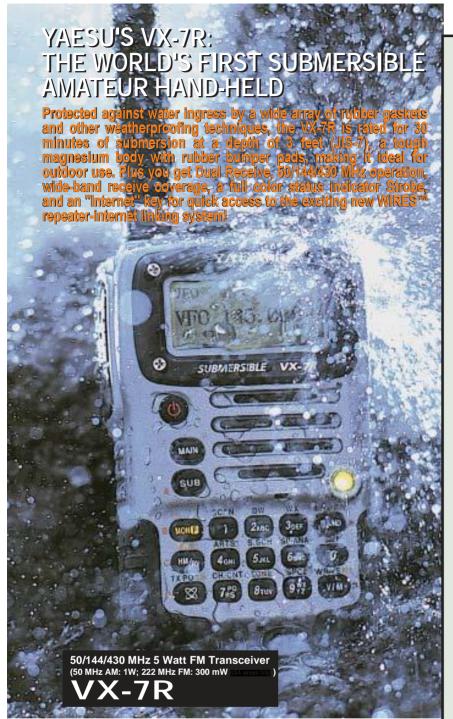
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### THE BEST OUTDOOR HANDIE EVER

#### **Unmatched Weatherproofing**

The VX-7R case, keypad, speaker, and connectors are carefully sealed to protect the internal circuitry against water damage. And the optional CMP460A Speaker/Mic, like the transceiver itself, is rated for 30 minutes of submersion at a depth of up to three feet!







Rugged Magnesium case with rubber bumpers and gaskets.

#### THE BEST VERSATILITY EVER

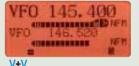
#### 50/144/430 MHz: 5 W Power

Utilizing a reliable FET power amplifier circuit, the VX-7R provides a full 5 Watts of power output on the 50, 144, and 430 MHz Amateur bands, with bonus coverage of the 222 MHz band at 300 mW (USA version Only) of power output. And for 6-meter AM enthusiasts, you also get 1 Watt of carrier power on the 50 MHz band! Four power levels may be selected, for optimum battery life.

Power Source	High Power	L3	L2	L1
Battery Pack	5 W	2.5 W	1 W	0.05 W
External DC (13.8 V)				
AA Batteries	0.3 W			0.05 W

#### Dual Receive: V-V/U-U/V-U/GEN-HAM

The VX-7R is capable of four modes of Dual Receive, including simultaneous reception on (1) two VHF frequencies; (2) two UHF frequencies; (3) one VHF and one UHF frequency; or (4) one "General Coverage" frequency and one "Ham" frequency. And when a call is received on the "Main" band, you can set up the VX-7R to reduce the audio level on the "Sub" band, if you like!



U+U

VFO 145. 400 VFO 445, 000

V+U



VFO 445, 400

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#### Wide Frequency Coverage

With continuous AM/FM reception coverage of 500 kHz to 999 MHz (cellular frequencies are blocked and non-restorable), the VX-7R is ideal for monitoring HF shortwave broadcasts, the AM and FM Broadcast bands, plus a wide variety of Marine, Public Safety, and Government bands. And special memory banks for the Weather, Marine, and Shortwave bands make station selection effortless!

#### Long Battery Life and Multiple Power Sources

The VX-7R is supplied with a super-long-life 7.4 V, 1300 mAh Lithium-lon Battery Pack (FNB-80LI), providing many hours of operation and reliable charging without the "memory" effects that can plague other battery types. With the optional CD-15A Charging stand and NC-72B/C AC Adapter, the FNB-80LI may be charged in as little as 2.5 hours, so you'll quickly be ready for more operating action! And the optional FBA-23 Alkaline Battery Case will accept two "AA" batteries (not

supplied) for low-power emergency operation. The VX-7R's EXT DC j ack will also accept 12 Volts from the NC-72B/C directly (RX only), or from an external power supply.

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Operating Band	Battery Life (Approx.)		
	FNB-80LI	FBA-23	
50 MHz *1	6.5 hours	7.0 hours	
144 MHz *1	6.0 hours	6.5 hours	
430 MHz *1	5.5 hours	6.0 hours	
Other Band *2	15 hours	15 hours	

<sup>\*1</sup> TX 6 sec., RX 6 sec. and Squelched 48 sec

#### THE BEST TONE SIGNALING EVER

Ideal for operation on modern repeater systems, the VX-7R includes built-in Encoder/Decoder circuits providing 50 CTCSS (Subaudible) tones and 104 DCS (Digital Coded Squelch) codes. Adding to the versatility is provision for using "mixed" tone/code configurations (CTCSS for TX, DCS for RX, or vice-versa)

#### ARTS™ (Auto-Range Transponding System)

Utilizing the DCS capability of the transceiver, the ARTS<sup>TM</sup> feature provides audio and/or visual confirmation that another ARTS-equipped station is within communication range. If you are in search-and-rescue operation, and get out of range of the base station, ARTS will warn the base operator to advise you to move to a better location.

## INTERNET KEY FOR INSTANT ACCESS TO TM (Wide-Coverage Internet Repeater Enhancement System)

A unique feature of the VX-7R is the new "Internet" key, prominently located in the bottom right-hand corner of the keypad, providing easy access to the new WIRES" Repeater-Internet-linking system. Pressing the Internet key activates a single-tone DTMF burst at the beginning of each transmission,

as required for Internet linking access via a WIRES-configured repeater system.



WIRES" is an easy-to-install method of linking repeaters via the Internet, for emergency networking, "sister city" repeater communication, or j ust plair fun. Requiring only a 56K dial-up service (not an expensive DSL or T1 line), WIRES" can link up to 10 repeaters (by prior arrangement), with a single DTMF tone (at the start of each transmission) providing access to the WIRES network.

While WIRES" networks may be accessed using any manufacturer's transceiver that is equipped with a DTMF keypad, the VX-7R's Internet key provides automatic transmission of the required DTMF burst, for easy access when seconds count.

#### THE MOST DAZZLING DISPLAY EVER

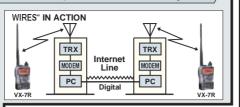
No Amateur hand-held transceiver has a display that even compares to the VX-7R's  $132 \times 64$  dot matrix display. Providing clear, easy-to-read indication of both the Main and Sub band frequencies, operating mode, and S-meters for both bands, the VX-7R's display includes an unparalleled array of graphical and pictorial tools that make operation a breeze.



#### Full Color Strobe LED

Among the more innovative features introduced in the VX-7R is the full-color Strobe LED, which provides indication of a number of transceiver status items using different colors. The Menu allows you to custom-design a color that you will recognize for indication of "Busy Channel" for the Main, Sub, and "Both" receive channels, as well as "TX" indicators for the Main and Sub bands. Different colors may be selected for each of the above conditions, and a total of 256 color shades are available, for customizing the colors j ust the way you like them.





#### On/Off Timers

If you need to be sure to be on the air at an appointed time, but don't want to waste battery power, use the VX-7R's On and Off timers. Utilizing the microprocessor-based 24-hour clock, the Timer will switch the radio on at the programmed time, and j ust before switching off it will emit an alert beep, so you II be aware of the impending

## shut-down of the transceiver. "Quick-Draw" Swivel-Mount Belt Clip

Rugged, yet easy to use, the Quick-Draw Belt Clip locks in place from any angle, but the VX-7R can only be removed from an inverted position, It will swivel as you walk without slipping off your belt, so there's less chance of having your radio fall off your belt than with simpler designs.



Quick-Draw Belt Clip locks into mount from any angle, but won't disengage unless VX-7R is inverted.

Rotation over wide range of angles does not cause disconnection from mount



#### THE BEST TRAVELING COMPANION EVER A

Whether you re walking around town, or walking down a mountain, the VX-7R is equipped with the features and durability that you need.

#### **Emergency Strobe/Beep Feature**

If you press and hold in the EMG(HM/RV) key for two seconds, the VX-7R will be placed in the Emergency mode, wherein (A) it will automatically be set to the 430 MHz Home Channel, (B) a loud Alarm beep will be put out from the speaker, and (C) the front

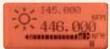
panel Strobe will brightly flash in sequential colors. If you press the PTT switch during Emergency operation, the Alarm will be temporarily silenced, and you may now call a friend, family member, or a rescuer on the UHF Home Channel.



#### Optional SU-1 Barometric Pressure Unit with Weather Forecast Feature

The optional SU-1 Barometric Pressure Sensor Unit provides indication of the current pressure, calibrated in either units of inches or mm of mercury, hpa, or millibars. On a hike, altitude (in feet or meters) can be deduced from a starting pressure calculation, and a basic weather trend forecast will also appear on the display! While the transceiver is turned off, it can be set up to monitor and display the temperature (in \$F\$ or \$C\$), pressure, altitude, or any combination of these.





#### 24 Hour Clock

The VX-7R includes a built-in 24-hour clock, with calendar, powered by a separate (rechargeable) Lithium-lon battery that will maintain clock data for up to two months without use of the main transceiver battery power.

#### **Change Icons and Fonts**

During monoband operation, the huge size of the dot matrix display allows the use of pictorial icons to depict a number of band and operational status notations. You can

substitute icons, if you like, from a selection of alternative icons, or you can use the icon editor feature to create your own icon or font.





#### **Audio Wave Meter**

During monoband operation, you can also choose to have the VX-7R display a

depiction of the incoming audio waveform, j ust below the frequency display field.



#### Spectrum Scope Display

When you engage the Spectrum Scope, the display will indicate relative signal strengths on adj acent

channels (you may select either -5 or -8 channels from the current frequency), allowing you truly to keep an eye on the band.



#### **Battery-Saving Illumination Control**

The  $\mathsf{Omni}\text{-}\mathsf{Glow}^\mathsf{TM}$  display/key illumination may be

configured in a number of batterysaving ways. Both Brightness and Contrast are adj ustable. You can set the illumination to appear continuously, or only for a few seconds after a key is pressed. You can even turn the "Busy" Strobe off, for additional battery conservation.



## THE MOST MEMORIES EVER

Sporting the most memory capability of any Amateur transceiver, the VX-7R includes over 900 memory channels of one kind or another, yet access is simple and intuitive, thanks to 8-character

Alpha-Numeric labeling capability, so you Il never miss any of the excitement stored inside! These memories include.



#### • 450 "Main" Memories

Storing frequency, mode, and CTCSS/DCS data, the 450 Memory Channels may be assigned into any of 9 Memory Groups, for easy recall (up to 48 channels per group may be stored).

#### • 10 One-Touch (OTM) memories

Store your most-used frequencies in the quick-access OTM bank!

#### 40 Programmable Memory Scan (PMS) Band-Limit Memories

Use the PMS memories for setting upper and lower scanning/operating limits in the Amateur bands.

#### • 12 Home Channel Memories

The "Home" channels may be set to a "favorite" operating frequency, or a central operating frequency that may be used as a starting point for operation. The 430 MHz Home Channel is also used for the "Emergency" beacon.

#### • 10 Weather Band Memories (U.S. Version)

Ideal for quick access to the Weather Band broadcasts, these memories may be scanned in search of the loudest Weather station in your area.

## • 89 Shortwave Broadcast Station Memories The most popular HF Shortwave Broadcast stations

The most popular HF Shortwave Broadcast stations are pre-stored at the factory, for instant selection of your favorite station and program.

#### • 280 Marine Channels

The huge 280-channel Marine Bank allows full access to the excitement of monitoring the world of Marine operation.

#### • 10 "Hyper" Memories

The Hyper memories may be used to store and recall a complete set of transceiver configuration data, such as Dual Receive status, Spectrum Scope configuration, scanning features, etc.