

THE NEW GENERATION DUAL BAND HANDHELD

# FT-60R

144/430 MHz FM DUAL BAND HANDHELD

The FT-60R is a new dual-band FM transceiver with extensive receive frequency coverage, providing versatile two-way amateur communications along with unmatched monitoring. A new-generation Emergency Automatic ID (EAI) feature, for Search-and-Rescue operations, is introduced in the FT-60R!

144/430 MHz  
FM

- WIDE BAND RECEPTION  
108-520 MHz/700-999.990 MHz (Cellular Blocked)
- **NEW** EMERGENCY AUTOMATIC ID SYSTEM
- HUGE LCD
- HIGH POWER OUTPUT 5W
- Ni-MH LONG-LIFE BATTERY  
FNB-83 (7.2 V, 1400 mAh)  
(overnight charger included)
- PROGRAMMABLE KEYS FOR USER  
CONVENIENCE
- SPLIT CTCSS/DCS AND DCS ENCODE-ONLY  
CAPABILITY



Actual Size



# FT-60R THE NEW GENERATION DUAL BAND HANDHELD

## 144 / 430 MHz DUAL BAND HANDHELD WITH WIDE BAND RECEPTION

The FT-60R's small size allows you to take it anywhere - hiking, skiing, or while walking around town - and its operating flexibility brings the user many avenues of operating enjoyment. Its incredibly tiny FNB-83 Rechargeable Nickel-Metal Hydride Battery Pack provides up to 5 Watts of transmit power on the 144 MHz and 430 MHz Amateur Bands. Besides 144- and 430-MHz transceive operation, the FT-60R provides receive coverage of the VHF and UHF TV bands, the VHF AM aircraft band, and a wide range of commercial and public safety frequencies!











## NEW FEATURES ON THE FT-60R

New and exciting features of the FT-60R are the Emergency Automatic ID (EAI) function, that will automatically cause your FT-60R to transmit your callsign and engage your rig's microphone, even if you are disabled and unable to press the PTT switch; Enhanced Paging and Code Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; and a security Password feature, to prevent unauthorized use of your transceiver.

## FEATURE HIGHLIGHTS

- Over 1000 Memory Channels w/Alpha-numeric Labels
- Ten Memory Banks for Channel Allocation
- High Power Output: 5 Watts
- Long-life FNB-83 (7.2 V/1400 mAh) and Overnight Charger included
- CTCSS and DCS Encode/Decode, with Split Tone and DCS Encode-only Capability
- One-Touch NOAA Weather Access
- NOAA Severe Weather Alert with Alert Scan
- Nine DTMF Auto-Dialer Memories
- Two Front Panel Programmable Keys
- Convenient Access Key for Vertex Standard's WIRES™ (Wide-coverage Internet Repeater Enhancement System)
- RF Squelch (only passes signals exceeding programmed level)
- Mono-band and Memory-only Operating Modes
- Rugged Die-cast, Water-resistant Case Construction
- Huge LCD Display
- Transmit Time-Out Timer (TOT) and Automatic Power-Off (APO)
- Automatic Repeater Shift (ARS)
- YAESU's exclusive ARTS™ (Auto-Range Transponder System) which "beeps" the user when you move out of communications range

## Accessories & Options

 <b>FBA-25A</b> Dry Cell Battery Case	 <b>CD-29 B/C/U*</b> Rapid Charger	 <b>E-DC-6</b> DC Cable; plug and wire only	 <b>CN-3</b> BNC-to-SMA Adapter	 <b>CT-27</b> Cloning Cable
 <b>CT-44</b> Microphone Adapter	 <b>E-DC-5B</b> DC Cable with Cigarette-Lighter Adapter	 <b>MH-34B4B</b> Speaker/Microphone	 <b>MH-37A4B</b> Earpiece/Microphone	 <b>VC-25</b> VOX Headset

• **Supplied Accessories** FNB-83 7.2 V, 1,400 mAh Rechargeable Nickel-Metal Hydride Battery Pack, NC-88B/C/U\* Overnight Battery Charger \*B for 120 VAC/C for 220-240 VAC/ U for 230 VAC

## Specifications

### General

Frequency Ranges: RX 108-137 MHz (Air Band)  
137-520 MHz (AM / FM)  
(Cellular phone Blocked)  
700-999 MHz (FM)  
(Cellular phone Blocked)  
TX 144-148 MHz  
430-450 MHz

Channel Steps: 5, 10, 12.5, 15, 20, 25, 50, 100 kHz  
Frequency Stability:  $\pm 5$  ppm ( $-10^{\circ}$  C to  $+60^{\circ}$  C,  $+14^{\circ}$  F to  $+140^{\circ}$  F)  
Repeater Shift:  $\pm 600$  kHz (144 MHz)  
 $\pm 1.6 / 5.0 / 7.6$  MHz (430 MHz)

Emission Type: F2, F3  
Antenna Impedance: 50  $\Omega$   
Supply Voltage: Nominal: 7.2 V DC, Negative Ground  
Operating: 6.0-16 V, Negative Ground (EXT DC JACK)  
11-16 V, Negative Ground (EXT DC JACK with Charging)  
Current Consumption: 125 mA (Receive)  
45 mA (Standby, Saver Off) VHF

47 mA (Standby, Saver Off) UHF  
19 mA (Standby, Saver On)  
0.8 mA (Auto Power Off)  
1.3 A (5 W Tx, 144 MHz) 7.2 V DC  
1.5 A (5 W Tx, 430 MHz) 7.2 V DC  
Operating Temperature:  $-20^{\circ}$  C to  $+60^{\circ}$  C ( $-4^{\circ}$  F to  $+14^{\circ}$  F)  
Case Size: 2.3" (W) x 4.3" (H) x 1.2" (D) (58 x 109 x 30 mm)  
(W/O knob & antenna)  
Weight: 13.05 oz (370 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 F2, F3  
Maximum Deviation:  $\pm 5$  kHz F2, F3  
Spurious Emission: At least 60 dB below (High & Mid)  
At least 40 dB below (Low)  
Microphone Impedance: 2 k $\Omega$

### Receiver

Circuit Type: Double-Conversion Super heterodyne  
Intermediate Frequencies: 1st: 47.25 MHz  
2nd: 450 KHz  
Sensitivity: 0.8  $\mu$ V TYP for 10 dB SN (108-137 MHz, AM)  
0.2  $\mu$ V for 12 dB SINAD (137-140 MHz, NFM)  
0.16  $\mu$ V for 12 dB SINAD (140-150 MHz, NFM)  
0.2  $\mu$ V TYP for 12 dB SINAD (150-174 MHz, NFM)  
0.3  $\mu$ V TYP for 12 dB SINAD (174-300 MHz, NFM)  
0.8  $\mu$ V TYP for 12 dB SINAD (300-336 MHz, NFM)  
0.25  $\mu$ V TYP for 12 dB SINAD (336-420 MHz, NFM)  
0.2  $\mu$ V for 12 dB SINAD (420-470 MHz, NFM)  
0.25  $\mu$ V TYP for 12 dB SINAD (470-520 MHz, NFM)  
0.5  $\mu$ V TYP for 12 dB SINAD (800-900 MHz, NFM)  
0.8  $\mu$ V TYP for 12 dB SINAD (900-999.99 MHz, NFM)  
Cellular Blocked  
Selectivity: NFM, AM 12 KHz / 35 KHz ( $-6$  dB /  $-60$  dB)  
AF Output: 400 mW @ 8  $\Omega$  for 10% THD (@ 7.5 V)

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. This product has not received FCC certification. It may not be sold or marketed, or offered for sale or marketing, until FCC certification has been received.

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