

THE NEW GENERATION DUAL BAND HANDHELD

FT-60R/E

E for European Version

144/430 MHz 5 W HANDHELD

144/430 MHz
FM



Actual Size

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

Versatile two-way Amateur communications, along with unmatched monitoring, are yours with Yaesu's exciting new FT-60R Dual Band FM Hand-Held with wideband receiver coverage. Extreme ruggedness and its new Emergency Automatic ID feature make the FT-60R your best choice for operating in tough environments!



Actual Size

144/430 MHz FM DUAL BAND HANDHELD

FT-60R/E

**144 / 430 MHz DUAL BAND HANDHELD WITH WIDE BAND RECEPTION
108-520 MHz/700-999.990 MHz (Cellular Blocked*) *US Version**

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.

NEW EMERGENCY AUTOMATIC ID SYSTEM

The Emergency Automatic ID (EAI) Feature can be used for searching for persons who are incapacitated in disasters like earthquakes, especially search-and-rescue personnel who may need assistance. An EAI-equipped searcher sends out a unique command (CTCSS tone pair), and the radio of the incapacitated party, who may not be able to speak or even press the PTT, will automatically be placed in the transmit mode, so others may perform direction finding and effect a rescue. The callsign of the incapacitated person will also be transmitted, to assist the rescue team.



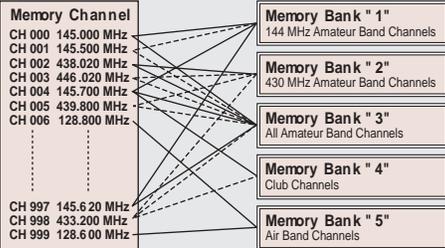
OVER 1000 MEMORY CHANNELS w/ALPHA-NUMERIC LABELS

The FT-60R's unmatched memory capabilities include 1000 Standard memory channels, five Home channels, 50 sets of band-edge memories, and ten "Weather Broadcast" channels. Each memory channel may have an alpha-numeric label appended, for quick channel recognition.



TEN MEMORY BANKS FOR CHANNEL ALLOCATION

Any of the "standard" or "band edge" memories may be allocated into the ten memory banks, allowing easy recall of memories according to geographical, frequency, or other ways you want to organize them.



HIGH POWER OUTPUT: 5 W

The FT-60R's powerful transmitter puts out a full five Watts of power on both the 144 and 430 MHz bands. For longer battery life, reduced power settings of 2 Watts and 0.5 Watt are provided, along with a Transmit Battery Saver (TBS), that automatically lowers power when you utilize a strong local repeater.

Pwr. Source	TX PO	HI	MID	LOW
FNB-83 FBA-25A Ext. DC		5.0W	2.0W	0.5W

Battery Life

Band	Battery	FNB-83 / FBA-35
144 MHz		Approx. 9 Hr. *1
430 MHz		Approx. 8 Hr. *1
Receiving		Approx. 15 Hr. *2

*1 Duty Cycle based on 5W PO, 6 min. TX, 6 min. RX w/ audio, and 48 min. Rx squelched.

*2 Using FNB-83, Audio Volume set to 50%

Ni-MH LONG LIFE BATTERY FNB-83 (7.2 V, 1400 mAh) with Overnight Charger

Long hours of outdoor operation demand the ultimate in battery capacity, and the FT-60R is supplied with a long-life 1400 mAh Nickel-Metal Hydride battery pack and overnight charger, to keep you operating when others' batteries have died.



Available as an option for the FT-60R is the FBA-25A Alkaline Battery Tray, which allows you to use "AA" Alkaline cells to power your FT-60R to a full 5 Watts of TX power. . . a Yaesu exclusive capability!

CONVENIENT ACCESS KEY FOR VERTEX STANDARD' s WIRES™ (Wide-Coverage Internet Repeater Enhancement System)

The FT-60R can be used to access a node (repeater or base station) which is tied into the Vertex Standard WIRES™. (Wide-Coverage Internet Repeater Enhancement System) network, operating in the SRG (Sister Radio Group) mode. Operating details may be found at the WIRES-II Web site: <http://www.vxs td.com/en/wires inf o-en/>

CTCSS AND DCS ENCODE/ DECODE, WITH SPLIT TONE AND DCS ENCODE-ONLY CAPABILITY

The outstanding tone signaling capability of the FT-60R includes full Encode/ Decode capability for CTCSS and DCS, along with Split CTCSS/ DCS and DCS Encode-only operation, to meet your changing requirements.

ONE-TOUCH NOAA WX BAND ACCESS *US Version

The FT-60R provides a dedicated memory bank for reception of NOAA Weather broadcasts. Pressing the PTT switch activates scanning of the Weather memories, and another press of PTT will halt the scan.



NOAA SEVERE WEATHER ALERT WITH ALERT SCAN

You can also command the FT-60R to scan for an incoming "Severe Weather" alert tone from NOAA, to advise you of an impending severe storm.

TWO PROGRAMMABLE KEYS

Two of the keys on the front panel's keyboard may be assigned with user-defined functions from the configuration Menu, so as to provide quick access to special setup options you use frequently. Menu access was never easier!



NINE DTMF AUTO-DIALER MEMORIES

Nine DTMF Autodial memories are provided in the FT-60R, allowing you to store telephone numbers for autopatch use. You can also store short autopatch or Internet-link access code streams so as to avoid having to send them manually.

HUGE LCD

The large Liquid Crystal Display (LCD) contains a host of valuable operating status information, and Yaesu's exclusive Omni-Glow display/ keypad illumination system ensures easy reading of the information you need during nighttime operation, without compromising your night vision.



RF SQUELCH SYSTEM

For operation in crowded RF environments where you don't want to use tone decoding, the FT-60R includes an innovative RF Squelch system, that only passes signals exceeding a user-defined signal strength level. So if you only want to receive signals stronger than "S7," you just configure the Menu and the FT-60R will ignore all stations weaker than S7!

MONO-BAND AND MEMORY-ONLY OPERATING MODES

For the ultimate in operating simplicity, at those times when you need it, the FT-60R offers capability for single-band (144 MHz or 430 MHz only) or Memory-channel-only operating configurations. These may be particularly useful during search-and-rescue or public service operations, when a new user may need to be trained quickly for use of the FT-60R.



ARTS™ (Automatic Range Transponder System)

The ARTS™ feature uses DCS signaling to inform both parties when you and another ARTS™-equipped station are within communications range. This may be particularly useful during Search-and-Rescue situations, where it is important to stay in contact with other members of your group.

COMMERCIAL-QUALITY AUDIO

The FT-60R features outstanding transmit and receive audio, thanks to its commercial-grade microphone element and speaker. You get crisp, clean audio that will get your message through even under difficult operating or propagation conditions.

AND MUCH MUCH MORE . . .

- VFO, Memory, and Band-Segment Scanning
- Dual Watch Scanning with Priority Revert
- Direct Keypad Frequency Entry
- Battery Voltage Meter
- Smart Search Automatic Memory Loading
- Automatic Repeater Split
- Automatic Power-Off (APO) Battery Saver
- Busy Channel Lock-Out (BCLO)
- 1750 Hz Tone Calling for European Repeater Access

SPECIFICATIONS

General	
Frequency Ranges	RX 108-137 MHz (Air Band) 137-520 MHz (AM / FM) 7 00-999 MHz (FM) (Cellular Blocked) TX 2 m Amateur Band 70 cm Amateur Band
Channel Steps	5, 10, 12.5, 15, 20, 25, 50, 100 kHz
Frequency Stability	±5 ppm (+14° F to +140° F, -10° C to +60° 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	Nominal: 7.2 V DC, Negative Ground
Operating Voltage	6.0~16 V, Negative Ground(EXT DC J ACK) 11~16 V, Neg. Ground (EXT DC J ACK while 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) 1.5 A (5 W TX , 144 MHz) 7.2 V DC 1.6 A (5 W TX , 430 MHz) 7.2 V DC
Operating Temperature	-4° F to +14° F, -20° C to +60° C
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
Maximum Deviation	±5 kHz
Spurious Emissions	At least 60 dB down (High & Mid) At least 40 dB down (Low)
Microphone Impedance	2 kΩ

Receiver	
Circuit Type	Double-Conversion Superheterodyne
Intermediate Frequencies	1st : 47.25 MHz 2nd: 450 kHz
Sensitivity	0.8 μV TYP for 10 dB SN (108-137 MHz, AM) 0.2 μV for 12 dB SINAD (137-140 MHz, NFM) 0.16 μV for 12 dB SINAD (140-150 MHz, NFM) 0.2 μV TYP for 12 dB SINAD (150-174 MHz, NFM) 0.3 μV TYP for 12 dB SINAD (174-300 MHz, NFM) 0.8 μV TYP for 12 dB SINAD (300-336 MHz, AM) 0.25 μV TYP for 12 dB SINAD (336-420 MHz, NFM) 0.2 μV for 12 dB SINAD (420-470 MHz, NFM) 0.25 μV TYP for 12 dB SINAD (470-520 MHz, NFM) 0.5 μV TYP for 12 dB SINAD (800-900 MHz, NFM) 0.8 μV TYP for 12 dB SINAD (900-999.99 MHz, NFM)
Selectivity	NFM, AM 12 kHz / 35 kHz(-6 dB / -60 dB)
AF Output	400 mW @8 Ω 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.

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<http://www.vxstd.com>

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ACCESSORIES & OPTIONS

 MH-34B4B Speaker/ Microphone	 MH-37A4B Earpiece/ Microphone	 VC-25 VOX Headset
 FBA-25A Dry Cell Battery Case	 VAC-370B/C/U* (1.5 hours) Rapid Desktop Charger	 CT-44 Microphone Adapter
 E-DC-5B DC Cable with Cigarette-L ighter Adapter	 E-DC-6 DC Cable; plug and wire only	 CN-3 BNC-to-SMA Adapter
 CT-27 Cloning Cable	<p>*B for 120 VAC/ C for 220-240 VAC/ U for 230 VAC</p> <p>• Supplied Accessories FNB-83 7.2 V, 1,400 mAh Rechargeable Nickel-Metal Hydride Battery Pack, NC-88B/C/U* Overnight Battery Charger(10 hours)</p>	

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