

VHF FM 5 W COMPACT HANDHELD TRANSCEIVER

FT-270R/E*

*E for European Version

Commercial Grade Field Radio Submersible Construction



Actual Size

- Large Backlit LCD Display for easy operation
- 5 Watts of Stable RF Power with Minimum Components for Reliability
- 800 mW of Loud Audio for noisy field operations
- 200 Memory Channels for Serious users
- Commercial Grade Receivers Performance
- Submersible Construction (3 ft./1 meter for 30 min)
- Yaesu Exclusive Power Saving Circuit Design Guarantees Longer Operating time
- Hands Free Operation with Optional VC-24 VOX Headset

Wide Range of available Options includes:

- CD-26 Charger Cradle
- VAC-370B 1.5 Hour Desktop Rapid Charger
- External DC Jack for Cigarette-Lighter adapter E-DC-5B or DC Cable E-DC-5C
- FBA-25A Alkaline Battery Case (for 6 X AA cells)
- FTD-7 DTMF Paging Unit

YAESU
Choice of the World's top DX'ersSM

The FT-270R/E is a compact, high-performance Submersible FM hand-held providing up to 5 Watts of RF power, along with audio output (800 mW) for the 2-m amateur bands. Protected against water ingress to IPX7 specifications (submersion for up to 1 meter for 30 minutes), the FT-270R/E features long operating times, thanks to the supplied 1400 mAh Ni-MH Battery. This 16-key versatile handheld includes direct keypad frequency entry and direct DTMF input and provides quick touch access to Yaesu's exciting and fun WIRES II™ VoIP Internet Linking System!

Main Features

- 200 Memory Channels with Alpha-numeric tags (maximum 6 characters)
- Ten Memory banks for Channel allocation
- High Power Output: 5 Watts (FNB-83 or FBA-25A with dry batteries)
- Loud Audio 800 mW with the Internal Speaker
- Long life FNB-83 (7.2 V / 1400 mAh) and Overnight Charger included
- Emergency Automatic ID (EAI) function (w/o US Version)
- Emergency function
- Enhanced Paging and Code Squelch (EPCS)
- Password function
- CTCSS (50 tones) and DCS (104 codes) Encode/Decode, with split Tone and DCS Encode-only capability
- Scanning Mode: VFO / Memory / PMS / Dual Watch
- Nine DTMF Auto-dialer memories
- Keypad/Dial Lockout capability
- Two front panel programmable keys
- Convenient Access key for the Vertex Standard's WIRES (Wide-coverage Internet Repeater Enhancement System)
- RF squelch (only pass signals exceeding the programmed level)
- Memory-only operating mode available
- Rugged case construction and Submersible (IPX7, 3 ft / 1 meter 30 minutes)
- Huge LCD Display
- Smart Search Operation
- Battery Voltage Display
- Adjustable TX Deviation Level (± 5 kHz or ± 2.5 kHz)
- Transmit Time-Out-Timer (TOT) and Automatic Power-Off (APO)
- Busy Channel Lock-Out (BCLO)
- Automatic Repeater Shift (ARS)
- ARTS™ (Auto-range Transponding System) which "beeps" the user when you move out of communication range

ACCESSORIES & OPTIONS

 MH-73A4B Waterproof Speaker/Microphone	 VC-24 VOX Headset	 FNB-83 (Spare) 1400 mAh Ni-MH Battery	 VAC-370B/C/U* Desktop Rapid Charger
 MH-57A4B Speaker/Microphone	 CT-91 Microphone Adapter	 FBA-25A Dry Cell Battery Case for 6 AA-size Alkaline cells	 CD-26 Charger Cradle
 VC-27 Earpiece/Microphone	 FTD-7 DTMF Decoder Unit	 NC-88B/C/U* (Spare) Standard Charger	 E-DC-5B DC Cable with Cigarette-Lighter Adapter
		 E-DC-6 DC Cable; plug and wire only	 CN-3 BNC-to-SMA Adapter

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. Information may have been updated since the time of printing; please check with your Authorized Yaesu Dealer for complete details.

YAESU VERTEX STANDARD CO., LTD.
4-8 Nakameguro, Meguro-ku, Tokyo 153-8644, Japan

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SPECIFICATIONS

General	
Frequency Ranges	RX 136 - 174 MHz TX 144 - 146 (148) MHz
Channel Steps	5, 10, 12.5, 15, 20, 25, 50 and 100 kHz
Frequency Stability	± 5 ppm ($+14^{\circ}$ F to $+140^{\circ}$ F / -10° C to $+60^{\circ}$ C)
Repeater Shift	± 600 kHz
Emission Type	F2D, F3E
Antenna Impedance	50 Ohms
Supply Voltage	Nominal: 7.2 V DC, Negative Ground
Operating	6.0 ~ 16 VDC, Negative Ground (EXT DC JACK) 11 ~ 16VDC, Negative Ground (EXT DC JACK with Ch.)
Current Consumption	165 mA (Receive) 200 mW Output 45 mA (Standby, Saver Off) 20.5 mA (Standby, Saver On) 8 mA (Auto Power Off) 1.5 A (5 W Tx 7.2 V DC)
Operating Temperature	-4° F to $+140^{\circ}$ F (-20° C to $+60^{\circ}$ C)
Case Size (W x H x D)	2.4" x 4.7" x 1.3" (60 x 120 x 32 mm) (w/o knob & antenna)
Weight	13.8 oz. (390 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 F2D, F3E
Maximum Deviation	± 5 kHz F2D, F3E
Spurious Emission	At least 60 dB below (High & Mid) At least 40 dB below (Low)
Microphone Impedance	2 k Ohms
Receiver	
Circuit Type	Double-Conversion Super heterodyne
Intermediate Frequencies	1st: 21.7 MHz 2nd: 450 kHz
Sensitivity	0.2 μ V for 12 dB SINAD (136-140 MHz, N) 0.16 μ V for 12 dB SINAD (140-150 MHz, N) 0.2 μ V TYP for 12 dB SINAD (150-174 MHz, N)
AF Output	800 mW @ 16 Ohms for 10 % THD (@ 7.4 V) Intern 450 mW @ 8 Ohms for 10 % THD (@ 7.4 V) EXT SPK

*B for 120V AC US plug, C for 220-240 VAC EU plug/U for 220-240 VAC U

Specifications are subject to change without notice, and are guaranteed within the bands only. Frequency ranges will vary according to transceiver version.

Supplied Accessories

- FNB-83 Ni-MH Battery (7.2 V, 1400 mAh)
- NC-88B/C/U* Standard Charger
- Antenna
- Belt Clip

VERTEX STANDARD <http://www.vertexstandard.com>

US Headquarters 10900 Walker Street, Cypress, CA 90630, U.S.A. Phone +1 714-8

YAESU UK LTD. <http://www.yaesu.co.uk>
Email: sales@yaesu.co.uk

Unit 12, Sun Valley Business Park, Winnall Close, Winchester, Hampshire, SO23 0LB, U.K. Phone +44 1962

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 Phone +852 27

VERTEX STANDARD AUSTRALIA PTY. LTD.

Normanby Business Park, Unit 14/45 Normanby Road, Notting Hill 3168, Victoria, Australia <http://www.vxstd.com.au>
Phone +61 3 95

