

FM 5 W COMPACT HANDHELD TRANSCEIVER

VHF **FT-270R**

UHF **FT-277R**

Commercial Grade Field Radio
Submersible Construction



2m
MONO BAND

IPX7
Submersible
3 feet (1m) for 30 min.

FT-270R

70cm
MONO BAND

IPX7
Submersible
3 feet (1m) for 30 min.

FT-277R

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-6
- FBA-25A Alkaline Battery Case (for 6 X AA cells)
- FTD-7 DTMF Paging Unit

 **YAESU**

FT-270R VHF FM 5 W 2 m • FT-277R UHF FM 5 W 70 cm COMPACT HANDHELD TRANSCEIVER

The FT-270R•FT-277R is a compact, high-performance Submersible FM hand-held providing up to 5 Watts of RF power, along with Loud audio output (800 mW) for the 2 m or 70 cm amateur bands. Protected against water ingress to IPX7 specifications (submersion for up to 3 feet/1 meter for 30 minutes), the FT-270R•FT-277R features long operating times, thanks to the supplied 1400 mAh Ni-MH Battery Pack. This 16-key versatile handheld includes direct keypad frequency entry and direct DTMF input and provides quick one-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 moved 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	 CD-47+PA43B* Desktop Charger (4 hours)
 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* (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	Supplied Accessories	

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.

 **YAESU**
Amateur Radio Division of Vertex Standard

SPECIFICATIONS

	FT-270R	FT-277R
General		
Frequency Ranges	RX 136 - 174 MHz TX 144 - 146 (148) MHz	RX 430 - 440 MHz or 400 - 480 MHz TX 430 - 440 MHz or 430 - 450 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	± 5 MHz, ± 7.2 MHz, or ± 1.6 MHz
Emission Type	F2D, F3E	F2D, F3E, F2A
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 Charging)	
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)	165 mA (Receive) 200 mW Output 47 mA (Standby, Saver Off) 19.5 mA (Standby, Saver On) 8 mA (Auto Power Off) 2.0 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)	2.36" x 4.72" x 1.26" (60 x 120 x 32 mm) (w/o knob & antenna)	
Weight	13.8 oz. (390 g) with FNB-83, antenna, and belt clip	
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	- 60 dB below (High & Mid) - 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	1st: 47.25 MHz 2nd: 450 kHz
Sensitivity	0.2 μ V for 12 dB SINAD (136-140 MHz, NFM) 0.16 μ V for 12 dB SINAD (140-150 MHz, NFM) 0.2 μ V TYP for 12 dB SINAD (150-174 MHz, NFM)	0.3 μ V for 12 dB SINAD (400 - 420 MHz) 0.2 μ V for 12 dB SINAD (420 - 470 MHz) 0.25 μ V for 12 dB SINAD (470 - 480 MHz)
Selectivity	12 kHz/35 kHz (-6 dB / -60 dB)	
AF Output	800 mW @ 16 Ohms for 10 % THD (@7.4 V) Internal SP 450 mW @ 8 Ohms for 10 % THD (@7.4 V) EXT SP Jack	

*B for 120V AC US plug
Specifications are subject to change without notice, and are guaranteed within the amateur bands only. Frequency ranges will vary according to transceiver version.

VERTEX STANDARD CO., LTD. http://www.vxstd.com
4-8-8 Nakameguro, Meguro-ku, Tokyo 153-8644, Japan
VERTEX STANDARD USA http://www.vertexstandard.com
US Headquarters 10900 Walker Street, Cypress, CA 90630, U.S.A.
YAESU UK LTD. http://www.yaesu.co.uk
Unit 12, Sun Valley Business Park, Winnall Close Winchester, Hampshire, SO23 0LB, U.K.
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
VERTEX STANDARD AUSTRALIA PTY., LTD.
Normanby Business Park, Unit 14/45 Normanby Road http://www.vxstd.com.au Notting Hill 3168, Victoria, Australia

