

Ultra Rugged 50 W VHF / UHF Mono Band FM Base Station

# FT-1802M/E & 1807M/E

(2 m Band) (70 cm Band)

The ruggedly-built new FT-1800M Series brings you Yaesu's legendary mechanical toughness, along with outstanding receiver performance and crisp, clean audio that will get your message through!



•Rugged Die-cast Chassis



FT-1802M  
(2 m Band)

FT-1807M  
(70 cm Band)

Actual Size



## FT-1802M/E & 1807M/E

### 50 WATTS OF POWER OUTPUT

Four selectable power output levels are provided: 50/25/10/5 Watts. The power selection may be stored into memory, allowing you to conserve power while using strong local repeaters.

### EXTENDED RECEIVE

Providing coverage of the 2-meter or 70 cm Amateur band, plus a number of business, marine, government, and military frequencies, the FT-1800 Series wide receiver coverage keeps you in touch with the communications action in your area!

### KEYPAD FREQUENCY ENTRY FROM MICROPHONE

Direct entry of operating frequencies from the supplied MH-48A6J Microphone provides the ultimate in operating ease. The microphone may also be used for direct memory channel access, and for generation of DTMF tones for autopatch or Internet link access. And the [A]/[B]/[C]/[D] keys may be used to replicate the functions of the front panel keys, as well.



### FOUR USER-PROGRAMMABLE "SOFT" KEYS ON MICROPHONE

The [P1]/[P2]/[P3]/[P4] keys on the microphone may be programmed by the user for easy remote access to often-used commands or Menu items.

### ILLUMINATED FRONT PANEL KEYS FOR NIGHTTIME USE

The translucent command keys, and large, high-resolution LCD display, yield a front panel that is easy to use day and night. What's more, the microphone's keys also are illuminated, eliminating guesswork during nighttime operation.



### 221 MEMORY CHANNELS WITH ALPHA-NUMERIC LABELING

The FT-1800 Series provides a total of 221 memory channels, including 200 "regular" memories, ten pairs of band-limit memories, and an instant-recall "Home" channel that you may dedicate to a frequently-used repeater or simplex frequency. Memories can store repeater shift information, CTCSS/DCS data, power output level, scanning status ("Skip"), and 6-character Alpha-Numeric Labels.



### EIGHT MEMORY BANKS FOR ORGANIZING MEMORY CHANNELS

The FT-1800 Series memories may be separated into as many as eight memory banks, for efficient organizing and scanning of your radio's memory channels. Each memory bank may be labeled, and a particular channel may be stored in multiple banks, if desired.

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

For the latest Yaesu news, visit us on the Internet:  
<http://www.vertexstandard.com>

### WX CHANNELS WITH "SEVERE WEATHER" ALERT (USA only / FT-1802M)

A special 10-channel Weather Band memory bank is provided in the U.S. version, allowing quick access to NOAA weather broadcasts. When the 1050-Hz "Severe Weather" alert tone is transmitted, the FT-1802M may be configured to emit an alarm tone to get your attention quickly. And with the "Weather Alert" feature enabled, the FT-1802M will scan the ten Weather memories periodically, stopping only if the 1050-Hz tone is received.

### ADJUSTABLE MIC GAIN, WIDE/NARROW DEVIATION & RX BANDWIDTH

For operation in crowded channel environments (12.5/15 kHz channel spacing), the "Narrow" deviation setting will reduce the transmitter deviation, thus reducing potential interference to other users. And the microphone gain is adjustable allowing you to interface after-market microphones or Packet TNCs with ease.

### BUILT-IN CTCSS AND DCS ENCODER/DECODER CIRCUITS

For easy repeater access, or silent monitoring of busy channels, both CTCSS and DCS (Digital Code Squelch) Encoder/Decoder circuits are built in. CTCSS and DCS data may be independently stored on each memory channel. And a "Split" tone mode allows operation on systems where CTCSS and DCS are used separately on the repeater uplink/downlink.

### ENHANCED PAGING AND CODE SQUELCH SYSTEM (EPCS)

The FT-1800 Series includes an Enhanced CTCSS tone encoder/decoder and a dedicated microprocessor providing paging and selective calling features. This allows you to place a call to a specific station (Paging), and to receive calls of your choice directed only to you (Code Squelch). A Bell Alarm may also be engaged during EPCS operating, if desired.

### CW TRAINER: PRACTICE MORSE CODE BETWEEN QSOs!

The FT-1800 Series provides a CW Training feature, which sends random Morse Code via the sidetone (heard in the speaker), so you can improve your CW proficiency. You may select letters, numbers, or mixed five-character code groups, with variable speed and instant feedback of correct copy on the FT-1800 Series display!

### SECURITY PASSWORD HELPS PREVENT UNAUTHORIZED USE

The FT-1800 Series provides a password feature which can minimize the chance that your transceiver could be used by an unauthorized party. When the password feature is activated, the radio will ask for the four-digit password to be entered when the radio is first turned on. If the wrong password is entered, the microprocessor will shut down the radio automatically.

### ONE-TOUCH ACCESS TO WIRES-II™ VoIP INTERNET LINKING!

The FT-1800 Series includes a conveniently-located "Internet" key, for quick access to Internet-linked repeater systems such as the renowned WIRES-II™ system developed by Vertex Standard. For more information on WIRES-II, please visit our Web site ([www.vxstd.com/en/wiresinfo-en](http://www.vxstd.com/en/wiresinfo-en)).

### AND MUCH, MUCH MORE. . .

•Powerful Three Watt Audio Output •Automatic Repeater Shift (ARS) •Automatic Power-Off (APO) •Busy Channel Lock Out (BCLO) •Dual Watch •Multi-level Display Dimmer •RF-level Squelch •Advanced Track Tuning (ATT) for excellent intermod rejection •Time-Out Timer (TOT) •ARTS™ (Auto-Range Transponder System) •DTMF Auto-dialer •Smart Search™ Automatic Memory Loading •Versatile VFO and Memory Scanning

### SPECIFICATIONS

General	FT-1802M	FT-1807M
Frequency Ranges	TX: 2 m Amateur Band RX: 144-146 MHz or 136-174 MHz	TX: 70 cm Amateur Band RX: 420-470 MHz or 400-470 MHz
Channel Steps	5, 10, 12.5, 15, 20, 25, 50, 100 kHz	
Frequency Stability	Better than ±10 ppm (−20° C to +60° C)	
Repeater Shift	±600 kHz	±5, 7.6, 1.6 MHz
Emission Type	F2D, F3E	
Antenna Impedance	50 Ω	
Supply Voltage	13.8 V DC (±15%), negative ground	
Current Consumption	RX: less than 0.7 A (signal) less than 0.3 A (squelched)	
	TX:10 A (50W) / 7A (25W) / 5A (10W) / 4A (5W)	TX:11A (50W) / 8A (25W) / 6A (10W) / 5A (5W)
Operating Temperature	−4° F to +140° F (−20° C to +60° C)	
Case Size (W x H x D)	5.6" x 1.6" x 5.8" 140 x 40 x 146 mm (w/o knobs / connectors)	
Weight	2.6 lb / 1.2 kg	
<b>Transmitter</b>		
RF Power Output	50 W / 25 W / 10 W / 5 W	
Modulation Type	Variable Reactance	
Maximum Deviation	Wide ±5 kHz / Narrow ±2.5 kHz	
Spurious Emission	Better than −60 dB	
Microphone Impedance	2 kΩ	
<b>Receiver</b>		
Circuit Type	Double-Conversion Superheterodyne	
Intermediate Frequencies	1st: 21.7 MHz 2nd: 450 kHz	1st: 47.25 MHz 2nd: 450 kHz
Sensitivity	Better than 0.2 μV for 12 dB SINAD	
Selectivity Wide	12 kHz / 28 kHz (−6 dB / −60 dB)	
Narrow	9 kHz / 22 kHz (−6 dB / −60 dB)	
IF Rejection	Better than 70 dB	
Image Rejection	Better than 70 dB	
AF Output	3.0 W @ 4 Ω for 10 % THD	

Specifications are subject to change without notice, and are guaranteed within the amateur band only. Frequency range will vary according to transceiver version; check with your dealer.

### Supplied Accessories

MH-48A6J DTMF Keypad Microphone  
MMB-36 Mobile Mounting Bracket

### OPTIONS

 <b>MLS-100</b> High-Power External Speaker	 <b>FP-1030A (25 A)</b> AC Power Supply
--	--

**VERTEX STANDARD** <http://www.vertexstandard.com>  
Email: [amateursales@vxstdusa.com](mailto:amateursales@vxstdusa.com)

**US Headquarters** Phone 714/827-7600; Fax 714/827-8100  
10900 Walker Street, Cypress, CA 90630, U.S.A.

**YAESU EUROPE B.V.**  
P.O. Box 75525, 1118 ZN Schiphol, The Netherlands

**YAESU UK LTD.** <http://www.yaesu.co.uk>  
Email: [sales@yaesu.co.uk](mailto:sales@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