

Ultra Rugged 50 W VHF FM Transceiver

FT-1802M/E*

*E for European Version

The ruggedly-built new FT-1802M 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



Actual Size

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: 136 – 174 MHz

Providing coverage of the 2-meter Amateur band, plus a number of business, marine, government, and military frequencies, the FT-1802M/E's wide receiver coverage keeps you in touch with the communications action in your area!

KEYBOARD 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-1802M/E 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-1802M/E's 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 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.

WX CHANNELS WITH "SEVERE WEATHER" ALERT (USA only)

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, AND 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 interference potential 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-1802M/E 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-1802M/E 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-1802M/E's display!

SECURITY PASSWORD HELPS PREVENT UNAUTHORIZED USE

The FT-1802M/E 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-1802M/E 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).

AND MUCH, MUCH MORE...

- Big Three Watts of 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	
Frequency Ranges	TX: 144 to 146 MHz or 144 to 148 MHz RX: 144 to 146 MHz or 136 to 174 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
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)
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 5.3" 140 x 40 x 146 mm (w/o knobs / connectors)
Weight	2.6 lb / 1.2 kg
Transmitter	
RF Power Output	50 W / 25W / 10W / 5W
Modulation Type	Variable Reactance
Maximum Deviation	Wide ±5 kHz / Narrow ±2.5 kHz
Spurious Emission	Better than –60 dB
Microphone Impedance	2 kΩ
Receiver	
Circuit Type	Double-Conversion Superheterodyne
Intermediate Frequencies	1st: 21.7 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 144 MHz 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
- DC Power Cord w/ Fuse

OPTIONS

MLS-100 High-Power External Speaker	FP-1023 (23 A: USA only) AC Power Supply	FP-1030A (25 A) AC Power Supply



VERTEX STANDARD CO., LTD.

4-8-8 Nakameguro, Meguro-ku, Tokyo 153-8644, Japan

VERTEX STANDARD

<http://www.vxstdusa.com>
Email: 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

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