

2 m/70 cm Band FM Dual Band Transceiver
FTM-10R/E*

* E for European Version

Great New Features to Support Outdoor Motor Sports Activities



Actual Size

2 m/70 cm Band FM Dual Band Transceiver
(144MHz 50W / 430 MHz 40W)
FTM-10R/E*



Newly Designed Mobile Transceiver with Waterproof/Dustproof Front Operation Panel to Support All-Weather Outdoor Activity.

(* Meets the IP57 standard. Waterproof at 3 ft (1 m) for 30 minutes and protection against dust)

IP57
Submersible
3 feet (1 m) for 30 min
Front panel

The die-cast chassis section is not a waterproof structure (FTM10R/E*).

The detachable Control Panel is shown here mounted on a motorcycle handlebar using the optional MMB-M11 multi-angle bracket.

HIGH QUALITY, WELL BUILT, RUGGED DUAL BAND FM TRANSCEIVER

- The high power RF output of the FTM-10R/E* is produced by the heavy duty, high efficiency, RF POWER MOS FET amplifier. Powerful and reliable 2 m / 70 cm Band operation is guaranteed.



- The FTM-10R/E* has a completely independent AM/FM broadcast radio receiver, in addition to the amateur band receiver. You will enjoy broadcast band receiver coverage, and high quality operation on the 2 m / 70 cm bands at the same time.

Band Group Memory System

The versatile memory system uses up to 500 memory channels. Each memory channel can be labeled with an 8-digit alphanumeric tag. The memory channels may be recalled by a specific operating band, if desired.



- The FTM-10R/E* has a large 2 inch/50 mm ϕ , 1.5W speaker in the die-cast chassis and is equipped with a high power 8-watt audio amplifier, and a PA function for outdoor operation with the optional MLS-200-M10 speaker(s). A high quality 1.1 inch/28 mm ϕ speaker is built into the detachable front panel; you can operate it like an HT!



COMPLETE NEW STYLING EASY-TO-OPERATE PACKAGE!

- Great new appearance! The keys and indicators are illuminated with very bright LEDs. The bright ocean blue negative type LCD display is easy on your eyes.



- Super compact detachable front panel is ready to go with your motor vehicle!

- The microphone and PTT button are built into the front panel. Detach the front panel with one-touch release when transmitting! The detachable front panel may be separated from the main chassis, and attached to a flat metal surface with the magnetic mounting bracket.



• Hanger Bracket

NB:

- 1) Use of a communication device with a display while driving may be prohibited in some states and some Countries.
- 2) Optional microphones and the external microphone jack MEK-M10 are also available.

- The simple hanger type bracket may be attached to the top or bottom. The front panel may be tilted up or down 20 degrees with an adaptor bracket. The basic installation kit is included. (With the adapter bracket, 10 ft / 3 m separation control cable, magnetic mount, and the one-touch release hanger bracket.)



- The optional, moisture and dust protected MLS-200-M10 external loudspeaker is available for use in a noisy outdoor environment.



- Hands-free operation is possible, using the wireless Bluetooth® option, and a headset.

Hands-free operation with VOX function Bluetooth® Options



BH-1
Bluetooth® headset
(Waterproof equivalent to IP55 standard)



CAB-1
Headset charger sleeve for the BH-1 Bluetooth® headset



BU-1
Bluetooth® adapter unit

(The optional BU-1 Bluetooth® unit can be installed either in the control panel unit or in the main body)

HEAVY DUTY YET EASY TO OPERATE

- A minimum number of key buttons on the front control panel, for safer operation during motor sports activities. The large multi-functional dial and durable keys are easy to operate even when wearing gloves.



- Enjoy your FTM-10E* outdoor with your motorcycle, SUV or RV anywhere! The commercial grade front panel meets the IP57 standard. (Waterproof at 3 feet (1 m) for 30 minutes, and protection against dust.) All connectors are waterproof.



* Photo is Using Optional MEK-M10

Note: The FTM-10R/E* chassis section is not a waterproof enclosure.

FOR YOUR OUTDOOR MOTOR SPORTS ACTIVITIES

- Equipped with a high power 8-watt audio amplifier. Use the PA function with the optional, commercial grade MLS-200-M10 speaker.
- With the intercom feature, you can communicate with a fellow passenger. Hands-free intercom operation is available with the optional Bluetooth® function.
- AF Dual Monitor Function: Listen to your favorite AM or FM stereo broadcast station, and monitor an amateur band at the same time! External audio input is also available to connect your iPod®!

NB: AF Dual Monitor Function does not permit monitoring two different amateur bands at the same time.

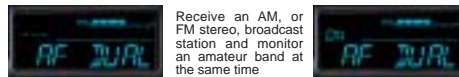


- The main body of the FTM-10R/E* is a solid die-cast aluminum sandwich structure. The high quality die-cast aluminum chassis doubles as the heat sink providing more than enough air-cooled ventilation for the power modules. The sandwich structure also provides far better resistance to vibration and shock than many conventional transceivers and radios.
- The design shields against ignition noise and alternator whine for mobile operation!

- The Smart Key feature: The "F" key on the control panel accesses the most frequently used functions.



"Up" / "Down" Select a function ← "F" Execute/Accept



Receive an AM, or FM stereo, broadcast station and monitor an amateur band at the same time

- **DIMMER** Adjust brightness of the display
- **INTERCOM** Turn Intercom function On/Off
- **MONI** Disables the noise squelch, allowing you to hear weak signals.
- **PA** Enables/Disables the PA function. Press PTT to activate.
- **SCAN** Scan frequencies or memory channels.
- **SQL LEVEL** Adjust the squelch threshold level.
- **SSCH** Activate Smart Search function
- **TX POWER** Select the transmitter power level
- **VOL.ITCOM** Adjust the intercom audio level.

- **AF Pre-Set Function**
The audio volume bar appears on the LCD screen and shows an orange warning if the volume is below a Pre-set level, preventing you from missing lower volume audio stations.



COMMUNICATE WITH YOUR FRIENDS ON THE ROAD! LOADED WITH MANY HANDY FUNCTIONS FOR USE DURING ALL-WEATHER OUTDOOR MOTOR SPORTS ACTIVITIES

- The Club Channel Monitor function permits your group to always monitor the designated user-defined frequency.
- The message function can transmit alphanumeric messages (up to 20 messages/16 characters maximum) with a sender's ID. In an emergency the message can be communicated even in a noisy outdoor environments.



- Wireless cloning allows transfer of memory information without any cable.

Note: The Wireless cloning function can only be performed by and between the FTM-10R/E transceivers. Other transceivers and radios are not supported.



- Includes an event timer stopwatch with an interval function to support many outdoor motor sports activities.





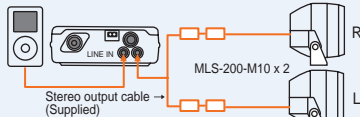
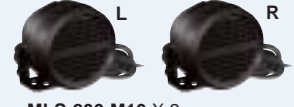


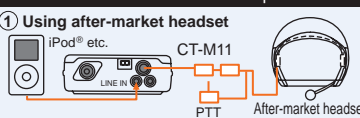
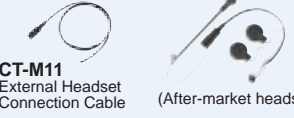
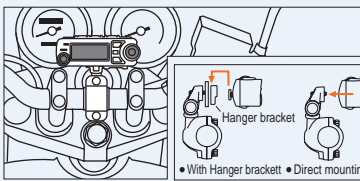



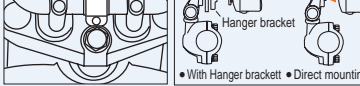
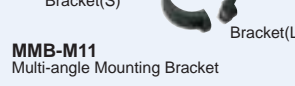
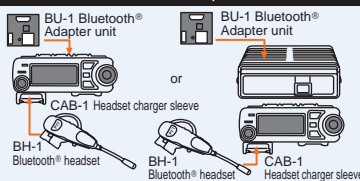
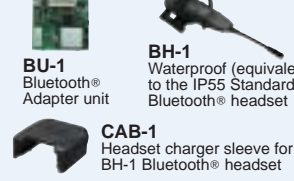
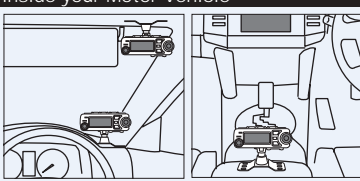

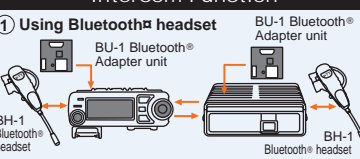
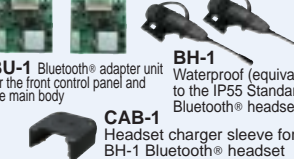
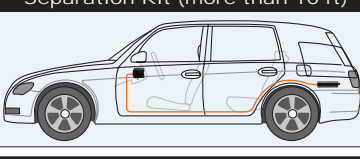

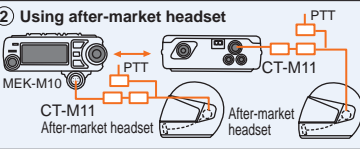
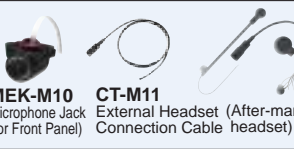



OTHER USEFUL FEATURES

- Tone control
- Band Up/Down key for easy operation.
- Simple key locking.
- Automatic Volume Control can adjust the speaker volume relative to a nearby noisy environment.
- Dimmer — Display brightness control.
- Three transmit power levels are available: 50W (70 cm : 40W) / 20W /5W
- The VOX function includes automatic audio delay on transmit to ensure transmission of the start of your message.
- The Time-Out Timer (TOT) function can end a continuous transmission after a preset time.
- The Internet Connection Feature can be used to access the Vertex Standard WiRES-II™ system.
- Various scanning features.
- DC input voltage display
- The Smart Search feature that will scan and load frequencies automatically where activity is found.
- The ARTS™ (Automatic Range Transponder System) feature which provides audio and/or visual confirmation that another ARTS™ equipped station is within communication range.

*E for European Version

Options

Operation	Customizing Options	Operation	Customizing Options
Audio Amplifier/PA Function 	 <p>MLS-200-M10 Waterproof (Equivalent to the IP55 Standard) external speaker (8 W)</p> <p>* Monoral audio output</p>	External Microphone 	 <p>MH-68A6J Waterproof DTMF Hand Microphone</p> <p>or</p> <p>MH-68B6J Waterproof Hand Microphone</p>
External Audio Input (CD player, iPod®, etc.) 	 <p>MLS-200-M10 X 2 Waterproof (Equivalent to the IP55 Standard) external speaker (4 W x2)</p>		 <p>MEK-M10 Microphone Jack for the front control panel</p> <p>or</p> <p>MH-68A6J Waterproof DTMF Hand Microphone</p> <p>or</p> <p>MH-68B6J Waterproof Hand Microphone</p>
External Stereo Audio Output ① Using after-market headset 	 <p>CT-M11 External Headset Connection Cable (After-market headset)</p>	Mount the FTM-10R/E Front Control Panel on a Motorcycle Handlebar 	 <p>MMB-M11 Multi-angle Mounting Bracket</p>
② Using Bluetooth® headset 	 <p>BU-1 Bluetooth® Adapter unit</p> <p>BH-1 Waterproof (equivalent to the IP55 Standard) Bluetooth® headset</p>		 <p>FEP-4 Ear Phone for BH-1</p>
Hands Free Operation 	 <p>BU-1 Bluetooth® Adapter unit</p> <p>CAB-1 Headset charger sleeve for BH-1 Bluetooth® headset</p>	Mount the FTM-10R/E Front Control Panel inside your Motor Vehicle 	 <p>MMB-M10 Multi-angle Stand Bracket</p>
Intercom Function ① Using Bluetooth® headset 	 <p>BU-1 Bluetooth® adapter unit for the front control panel and the main body</p> <p>BH-1 Waterproof (equivalent to the IP55 Standard) Bluetooth® headset x 2</p>	Separation Kit (more than 10 ft) 	 <p>CT-M10 20ft/6 m Front Panel Separation Cable (NB : 10ft/3 m Front Panel Separation Cable is included as a supplied accessory.)</p>
② Using after-market headset 	 <p>MEK-M10 Microphone Jack (for Front Panel)</p> <p>CT-M11 External Headset (After-market) Connection Cable (headset)</p>	Supplied Accessories 	

• DC Power Supply FP-1030A (25 A) / FP-1023A (25 A / USA Version)

Specifications

<p>General</p> <p>Frequency Range: RX: 0.5 - 1.8 MHz (AM BC) 76 - 108 MHz (FM BC) 108-137 MHz (Air Band) 137-174 MHz (144 MHz HAM) 174-222 MHz (GR1 VHF TV) 300-420 MHz (GR2) 420-470 MHz (430 MHz HAM) 470-800 MHz (GR1 UHF TV) 800-999 MHz (GR2 USA Cellular Blocked)</p> <p>TX: 2 m / 70 cm Amateur Bands</p> <p>Channel Steps: 5/6.25/8.33/9/10/12.5/15/20/25/50/100/200 kHz (9): AM Only Emission Type: F3E, F2D Antenna Impedance: 50 Ohms Frequency Stability: ± 5 ppm @ 14° F ~ +140° F (-10° C ~ +60° C) Operating Temperature Range: -4° F ~ +140° F (-20° C ~ +60° C) Supply Voltage: Nominal: 13.8 V DC, Negative Ground Operating: 11.7 ~ 15.8 V, Negative Ground</p>	<p>Current Consumption: RX: 0.5 A (Receive) (Approx.) 8.3 A / 6 A / 2A (TX, 2 m 50W / 20 W / 5 W) 8.5 A / 6 A / 2A (TX, 70 cm 40W / 20 W / 5 W)</p> <p>Case Size (W x H x D): 4.4" x 1.5" x 7" (112 x 37.6 x 178 mm) (w/o knobs & connectors)</p> <p>Weight (Approx.): 2.9 lb. (1.3 kg)</p> <p>Transmitter RF Power Output: 50/20/5 W (2 m) 40/20/5 W (70 cm)</p> <p>Modulation Type: Variable Reactance Maximum Deviation: ±5 kHz Spurious Radiation: At least -60 dB below Microphone Impedance: 2 kΩ</p> <p>Receiver Circuit Type: FM / AM: Double-Conversion Super heterodyne WFM: Triple-Conversion Super heterodyne AM / FM Radio: Single-Conversion Super heterodyne</p> <p>Intermediate Frequencies: FM / AM: 1st: 47.25 MHz, 2nd: 450 kHz WFM: 1st: 45.8 MHz, 2nd: 10.7 MHz, 3rd: 1 MHz FM Radio: 130 kHz, AM Radio: 50 kHz</p>	<p>Sensitivity: 5 μV TYP for 10 dB SN (0.5-1.7 MHz, AM) 2 μV TYP for 12 dB SINAD (76-108 MHz, WFM) 0.8 μV TYP for 10 dB SN (108-137 MHz, AM) 0.2 μV for 12 dB SINAD (137-140 MHz, FM) 0.2 μV for 12 dB SINAD (140-150 MHz, FM) 0.25 μV for 12 dB SINAD (150-174 MHz, FM) 1 μV TYP for 12 dB SINAD (174-222 MHz, WFM) 0.8 μV TYP for 10 dB SN (300-336 MHz, AM) 0.25 μV TYP for 12 dB SINAD (336-420 MHz, FM) 0.2 μV for 12 dB SINAD (420-470 MHz, FM) 5 μV TYP for 12 dB SINAD (470-540 MHz, WFM) 5 μV TYP for 12 dB SINAD (540-800 MHz, WFM) 0.4 μV TYP for 12 dB SINAD (800-899.99 MHz, FM) 0.8 μV TYP for 12 dB SINAD (900 - 999.99 MHz, FM)</p> <p>Squelch Sensitivity: Better than 0.16 μV (Amateur Band) Selectivity: NFM, AM 12 kHz / 30 kHz (-6 dB / -60 dB) AF Output: 8 W @ 4 Ohm for 10 % THD (@ 13.8 V) BTL EXP SP 4 W @ 4 Ohm for 10 % THD (@ 13.8 V) Normal EXP SP/CH AF Output Impedance: 4-16 Ω</p>
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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.

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