YAESU
The radio

Yaesu's Legend Continues

The Best Basic VHF/UHF FM Mobile

144/430MHz DUAL BAND 50W FM TRANSCEIVER

FTM-6000

《 FTM-6000R: US, Asia FTM-6000E: Europe 》

《 Actual Size 》

New " Easy to Operate Ⅲ (E2O-Ⅲ) " Interface

Provides Intuitive Operation and Straightforward access to Features

- **Primary Memory Group (PMG)**
- **VFO Band Skip**
- **Memory Auto Grouping (MAG)**
- **Memory Data VFO Transfer**
- **3W of Powerful, Clear and Crisp Audio**
- **Bluetooth® Wireless Operation***
- **Wide-Range Receive Coverage 108MHz to 999.995MHz**
- **Detachable Front Panel for Flexible Installation**

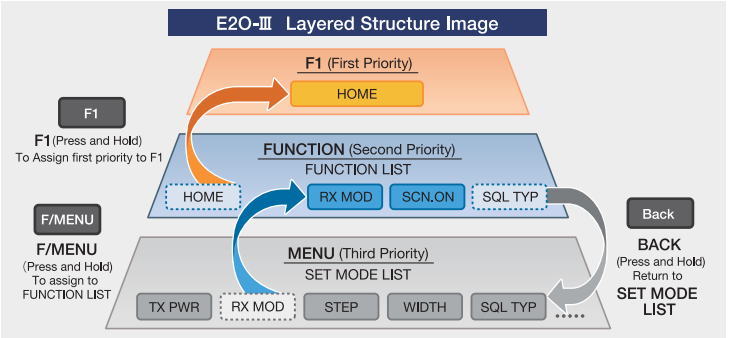
(Supplied Accessories) ●DTMF Microphone SSM-85D ●Mounting Bracket ●Bracket for Controller ●Control Cable 10ft (3m) ●USB Cable ●DC Power Cable

*Requires an optional Bluetooth® Unit (BU-4), and a Bluetooth® Headset (SSM-BT10) or commercially available Bluetooth® headset

New Sequence of Operation E2O-Ⅲ for Ease of use

Easily customize "SET MODE LIST" functions with E2O-Ⅲ, three tier operation

One most often used function may be assigned the highest priority and accessed with a simple press of the [F1] key. Second priority items may be assigned and accessed by pressing [F/MENU] and rotating the dial. All the additional "SET MODE LIST" items may be accessed with a long press of [F/MENU] and then rotating the dial.
It is easy to cancel a setting function or change the assignment by simply pressing and holding the [F1], [F / MENU] or [BACK] key.



[F1] key will Immediately Execute the priority Function

Press and hold the [F1] key, and then select the highest priority function or item from the FUNCTION LIST and assign it to "F1". After assignment, simply press the [F1] key to instantly recall that function, regardless of the current operating mode.
To change the function registered to "F1", select the desired function or item from the function list, then press and hold the [F1] key. Update "F1" to the most frequently needed function according to the operation mode.

Primary Memory Group (PMG) Function

Press and hold the [PMG] key, to register the currently displayed frequency to the PMG, regardless of the VFO or memory channel. After registration, simply press the [PMG] key to instantly recall that frequency.
If multiple frequencies are registered in PMG, press the [PMG] key, and rotate the dial to select the desired frequency and quickly initiate communication. Up to 5 PMG channels can be scanned and communications begun on the PMG channel that receives a signal. It is very convenient to register 3 channels of frequently used frequencies. Add or remove a channel from a group by simply pressing and holding the [PMG] key.

Memory Auto Grouping (MAG) Function

The Memory Auto Grouping (MAG) function automatically categorizes memory channels according Bands, then the memory channels can be quickly recalled by Band groups. By pressing the [BAND] key while operating on a memory channel, the bands will switch in the order of: ALL → AIR band → VHF band → UHF band → OTHER. In ALL, the MAG function is turned OFF and all memory channels are recalled.

VFO Band Skip Function

VFO bands are selected by pressing the [BAND] key. Unused bands can be skipped using the VFO band skip function. A frequency registered to a memory channel can be recalled in memory mode, even if the frequency is in the skipped band on VFO mode.

Memory Data Transfer to the VFO Register

By pressing and holding the [SQL/BACK] key when the memory channel is displayed, the contents of the currently selected memory channel can be transferred into the VFO register. Depending on the operating situation, either the VFO or Memory channel operations are separately useable.

Excellent Basic Performance and Capability deliver Full-Fledged Mobile Operation

Wide-band Receive Coverage

The FTM-6000 provides continuous wide-range receive coverage from 108MHz - 999.995MHz.

Large 1100 Memory channels

The FTM-6000 makes available a wide variety of memory resources, including 999 “Basic” memories, one “Home” channel for favorite frequencies and 50 sets of memories for PMS (Programmable Memory Scan). The channel TAGs are programmable with 6 alpha-numeric characters for easy recognition.

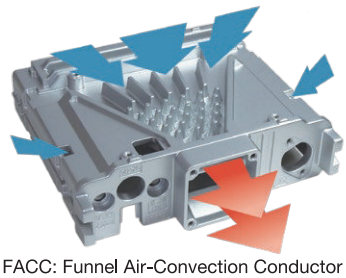
3W Exceptional Quality Audio

A 3W audio speaker ensures clear and crisp sound. The circuit has been specifically tuned for quality audio. You can enjoy communications with outstanding quality audio even in outdoor or noisy environments.

3Watts (66mm) Speaker

FACC Cooling system,ensures Stable High-Power Output

FACC Wind Tunnel construction gathers cool air through the wide-open front and side air intakes and directs it to the final amplifier area and then out the rear cooling fan. This efficient cooling system ensures stable transmit power for sustained long distance communications.



FACC: Funnel Air-Convection Conductor (Wind Tunnel)

Bluetooth® Wireless Operation

By installing the optional Bluetooth® unit (BU-4), wireless operation is possible using a Bluetooth® headset (SSM-BT10: optional) or a commercially available headset*. The SSM-BT10 operates for approximately 20 hours on a single charge.

SSM-BT10
Bluetooth® headset

* Although other commercially available Bluetooth® headsets can be used, the operation of all Bluetooth® products is not guaranteed. We recommend using the Bluetooth® headset SSM-BT10.

Flexible Installation (Detachable Front Panel)

The Front panel can be attached or detached from the main unit, making it possible to mount it at the most desirable operating position.
The supplied 10ft (3m) control cable or the optional 20ft (6m) cable, permit flexible installation and comfortable operation.

Includes Multi-Function DTMF microphone

The included multi-functional microphone can be operated with a single hand for frequency input, DTMF transmission, temporary mute of received audio, various settings and functions. The microphone has four program keys that can be set for quick access to frequently used functions.

Versatile Scanning Capabilities

The FTM-6000 supports efficient scanning capabilities. In addition to VFO scan and memory scan, it is equipped with PMG scan that monitors the receive status of channels registered in the PMG (Primary Memory Group). Also, the PMS (Programmable Memory Scan) that scans only within a specified frequency range and enables quickly searching for band activity and signals.

Additional Features

- Built-in: CTCSS; DCS; and Pager (EPCS) encode/decode functions, enable the Selective Call features
- DTMF Encode
- DTMF Memory
- Microphone Gain Adjust
- Audio Mute
- TX Power Select
- Frequency Step Select
- BEEP and BELL
- Busy Channel Lock Out (BCLO)
- ARS (Automatic Repeater Shift)
- Automatic Power Off (APO)
- Time-out Timer (TOT)
- Automatic Range Transponder System (ARTS)
- Voltage display
- Single-Touch Removable Mounting Bracket
- External Speaker jack

SSM-85D Multifunctional Microphone with DTMF provides the user with quick access to major functions (Supplied accessory)

[MUTE] Audio Mute
[1] to [0] Enters the numbers and letters
[∗] Changes the VFO/Memory operating mode
[#] Changes the operating band
[A] Changes the frequency in 1MHz steps
[B] Adjusts the squelch level
[C] Recalls PMG (Primary Memory Group) mode
[D] Recalls the Function list mode
[P1] Opens the squelch (SQL OFF)
[P2] Recalls HOME channel
[P3] Starts or stops the scanning function
[P4] Switches WX channel or T-CALL (Depends on the transceiver version)

*[P1] to [P4] Assignable from 9 functions

Specifications

General

Frequency Range:	RX:	108 - 137MHz (AIR Band) 137 - 174MHz (144MHz HAM / VHF Band) 174 - 400MHz 400 - 480MHz (430MHz HAM / UHF Band) 480 - 999.995MHz *1
	TX:	144 - 148MHz or 144 - 146MHz 430 - 450MHz or 430 - 440MHz (Depends on the transceiver version)
Channel Steps:		5, 6.25, (8.33), 10, 12.5, 15, 20, 25, 50, 100kHz (8.33kHz: Only for Air band)
Frequency Stability:		±2.5ppm -4°F to +140°F (-20°C to +60°C)
Emission Type:		F2D, F3E
Supply Voltage:		Nominal 13.8V DC, Negative Ground
Current Consumption:		0.5A (Receive) 10A (50W TX, 144MHz) 10A (50W TX, 430MHz)
Operating Temperature:		-4°F to +140°F (-20°C to +60°C)
Case Size:		Radio Unit 5.47"(W) x 1.66"(H) x 5.2"(D) (139 x 42 x 132mm) w/o Fan Controller 5.51"(W) x 1.6"(H) x 1.38"(D) (140 x 40.5 x 35mm) w/o Knob
Weight (Approx.):		2.43 lbs. (1.1kg) with Radio Unit, Controller, Control Cable

Transmitter

RF Power Output:	50W/25W/5W
Modulation Type:	F2D, F3E Variable Reactance Modulation
Maximum Deviation:	±5kHz
Spurious Emission:	At least 60dB below
Microphone Impedance:	2kΩ
Data Jack Impedance:	10kΩ

Receiver

Circuit Type:	Double-Conversion Super heterodyne
Intermediate Frequencies:	1st: 58.05MHz 2nd: 450kHz
Sensitivity:	0.8μV TYP for 10dB SN (108 - 137MHz, AM) 0.2μV for 12dB SINAD (137 - 150MHz, FM) 0.25μV for 12dB SINAD (150 - 174MHz, FM) 0.3μV TYP for 12dB SINAD (174 - 222MHz, FM) 0.25μV TYP for 12dB SINAD (222 - 300MHz, FM) 0.8μV TYP for 10dB SN (300 - 336MHz, AM) 0.25μV for 12dB SINAD (336 - 420 MHz, FM) 0.2μV for 12dB SINAD (420 - 470 MHz, FM) 0.2μV for 12dB SINAD (470 - 520MHz, FM) 0.4μV TYP for 12dB SINAD (800 - 900MHz, FM) 0.8μV TYP for 12dB SINAD (900 - 999.99MHz, FM) *1
Selectivity:	NFM, AM 12kHz / 30kHz (-6dB / -60dB)
AF Output:	3W (8Ω, THD 10%, 13.8V) Internal Speaker 3W (8Ω, THD 10%, 13.8V) External Speaker
AF Output Impedance:	8Ω
Strength of secondary radio waves:	4nW and below

*1 USA Cellular Blocked ■ Specifications are subject to change without notice, and are guaranteed within the amateur bands only. Frequency ranges and functions will vary according to transceiver version; check with your dealer.

Options

SSM-85D*2
DTMF Microphone

MH-42C6J
Microphone

SSM-BT10
Bluetooth® Headset

BU-4
Bluetooth® Unit

MLS-100
High-Power
External Speaker

MMB-98
Vacuum Cup
Mount Bracket for Controller

MEK-5
Mic Extension Kit
10ft (3m) for SSM-85D and MH-42C6J

SCU-47
Control Cable 20ft (6m)
(Radio – Controller connection cable)

FP-1030A*3
AC Power Supply (25A)

FP-1023*4
AC Power Supply (23A)

CT-166
Cloning Cable

CT-163
Data Cable
MDIN10 pin to MDIN6 pin + Dsub9

CT-164
Data Cable
MDIN10 pin to MDIN6 pin

CT-167
Data Cable
MDIN10 pin to open

*2 The same as the supplied accessory *3 US and Asian versions only *4 US version only

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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 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.

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