

## ■ Features

- EPCS (Enhanced Paging & Code Squelch) Operation
- Microphone Gain Setting
- Adjustable TX Deviation Level
- DC Voltage indication feature
- Displaying the Temperature
- Setting the Display illumination level
- Automatic Power-Off (APO)
- Time-Out Timer (TOT)
- Busy Channel Lock-Out (BCLO)
- Weather Broadcast Reception (US version only)
- Severe Weather Alert Feature (US version only)
- Band Edge Beeper
- CTCSS/DCS Bell Operation
- DCS Code Inversion
- Lock Feature
- Cloning

### Specifications

#### General

Frequency Range:  
Band RX: 136 - 174 MHz  
TX: 144 - 146 MHz or 144 - 148 MHz  
Channel Steps: 5, 6.25, 10, 12.5, 15, 20, 25, 50, 100 kHz  
Frequency Stability:  $\pm 2.5$  ppm  $-4^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )  
Emission Type: F3E, F7W \*1  
Supply Voltage: Nominal 13.8VDC, Negative Ground  
Operating 11.7 - 15.8VDC, Negative Ground  
Current Consumption: 0.5A (Receive)  
15A (65W TX)  
Operating temperature :  $-4^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )  
Case Size (W×H×D): 6.1" x 1.7" x 6.1" (154 x 43 x 155mm) w/o Knob  
Weight (Approx): 2.86 lbs (1.3kg)

#### Transmitter

RF Power Output: 65W / 30W / 5W  
Modulation Type: F3E: Variable Reactance Modulation  
F7W: 4FSK (C4FM) \*1  
Spurious Emission: At least 60dB down  
At least 61.1dB down (FTM-3200DE, FTM-3100E 65 W)

#### Receiver

Circuit Type: Double-Conversion Super-heterodyne  
Intermediate Frequencies: 1st: 47.25 MHz 2nd: 450 kHz  
Sensitivity: 0.2 $\mu\text{V}$  for 12dB SINAD (Amateur Band, FM Narrow)  
0.22 $\mu\text{V}$  for 12dB SINAD (Amateur Band, FM Wide)  
0.22 $\mu\text{V}$  TYP for BER1% (Amateur Band, Digital) \*1  
Selectivity : 12 kHz / 28 kHz (  $-6\text{dB}$  /  $-60\text{dB}$  )  
AF Output : 3W (8 $\Omega$ , THD10%, 13.8V)

\* 1 Only for FTM-3200DR and FTM-3200DE

Supplied Accessories: DTMF Microphone MH-48A6JA, USB Cable, Mounting Bracket and DC Power Cable

### Options



\*2 US and Asian versions only \*3 US version only

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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2016.0410IN(U/EXP/EU) B9200754 Printed in Japan

Heavy Duty C4FM Digital/FM VHF Mobile Transceiver

**FTM-3200DR** (US, Asia, Australia) **FTM-3200DE** (Europe)

- Genuine 65 W Output Power with FACC: Funnel Air-Convection Conductor (Wind Tunnel)
- Loud Audio output with 3 Watts 35 x 58 mm front speaker
- Advanced Digital C4FM operation
- FM friendly operation with AMS (Automatic Mode Select) and large LED Mode indicator for easy operation
- System Fusion Compatible



Heavy Duty FM VHF Mobile Transceiver

**FTM-3100R** (US, Asia, Australia) **FTM-3100E** (Europe)

- Genuine 65 W Output Power with FACC: Funnel Air-Convection Conductor (Wind Tunnel)
- Loud Audio output with 3 Watts 35 x 58 mm front speaker



Photo shows the FTM-3200DR/FTM-3200DE

**YAESU**  
The radio





FM VHF Mobile Transceiver

**FTM-3100R** (US, Asia, Australia)  
**FTM-3100E** (Europe)



(Actual Size)

C4FM Digital/FM VHF Mobile Transceiver

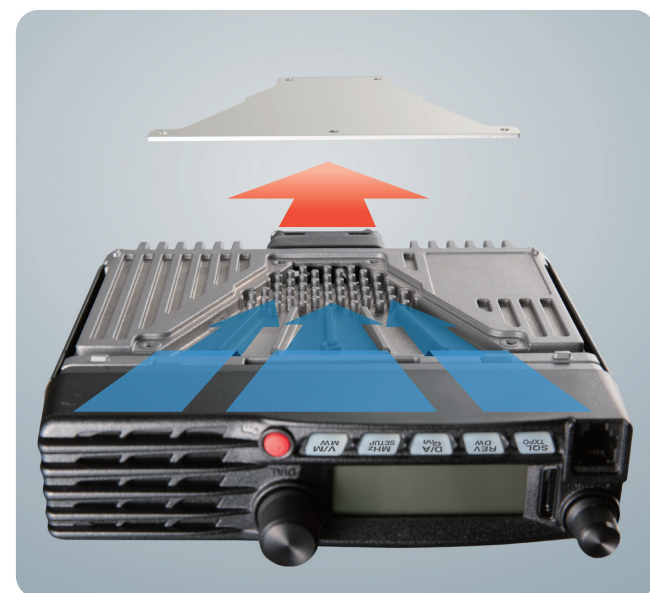
**FTM-3200DR** (US, Asia, Australia)  
**FTM-3200DE** (Europe)



(Actual Size)

**65 Watts Stable High Power Output with FACC**

The ruggedly built yet compact new 2-meter Mobile Transceiver offers the Yaesu legendary mechanical toughness and 65 Watts of stable high output power. The FACC: Funnel Air-Convection Conductor (Wind Tunnel) gathers cool air through the wide open front air intake and directs it to the final amplifier area and out the rear cooling fan. This efficient cooling system ensures stable output power for continuous long-distance communications.



FACC: Funnel Air-Convection Conductor (Wind Tunnel)

**Loud Audio with 3W Front Speaker**

The front facing speaker provides 3 watts of loud audio, The FTM-3200DR/DE, FTM-3100R/E speaker audio has been tuned for even better sound quality. An optional MLS-100 external speaker supports noisy field operation.



3 Watt (35 x 58mm) Front Speaker

**User-Programmable Microphone Keys**

Four Programmable keys on the microphone allow one-touch access to your favorite command functions. The commands available from the microphone replicate the corresponding front panel functions.

Available Key functions:

- Recall HOME channel
- Scan operation
- Set the TX Power
- Select communication Mode (D/A)\*
- Activate the GM (Group Monitor)\*
- Open the Squelch

\*Only available in the FTM-3200DR/FTM-3200DE

**220 Memory channels with 8 alpha-numeric characters**

The FTM-3200DR/DE and FTM-3100R/E make available a wide variety of memory resources, including 199 "Basic" memories, one "Home" channel for favorite frequencies and 10 sets of band-edge memories. The channel TAGs are programmable with 8 alpha-numeric characters for easy recognition.

**The FTM-3200DR/FTM-3200DE operates C4FM Digital and Conventional FM modes**

In addition to conventional FM operation, C4FM Digital mode is available for FTM-3200DR / FTM-3200DE. C4FM has better BER (Bit Error Rate) characteristics compared to other Digital modulation systems, and permits stable long distance communications. The C4FM digital modulation provides exceptional audio quality.

**Digital Group Monitor**

When communicating in C4FM digital mode, the digital GM function automatically alerts users when group members are within communication range, and their ID or Call Signs are shown on the display.



Digital Group Monitor Screen

**AMS with Multi-colored LED Mode-Indicator for Easy Operation**

FM friendly digital operation is made possible by AMS (Automatic Mode Select)

AMS (Automatic Mode Select) automatically recognizes the received signal as C4FM Digital or conventional FM, and switches the receiver to the appropriate mode. The AMS function enables hassle-free operation by removing the need to manually switch between modes. The MODE indicator shows the Transmit/Receive mode at a glance.



Mode Indicator  
 \* C4FM mode is only available in the FTM-3200DR, FTM-3200DE

**Features**

- Modulation Modes: Conventional FM, C4FM Digital (V/D Mode, VFR Mode, DFR Mode) \*
- 126 DSQ (Digital Squelch Code) signaling feature \*
- Memory-Only Mode
- Keyboard entry of operating frequencies from the Microphone
- CTCSS (50 tones) and DCS (104 codes) Encode/Decode, with split Tone and DCS Encode-only capability
- Scan feature: Preferential Memory Scan, Programmable memory scan, VFO scan, Priority Channel Scanning (Dual Watch), and Weather Alert Scan: (USA version only)
- Separate Transmit offset Frequency Memories ("Odd Splits")
- RF squelch (only passes signals exceeding the programmed squelch level)
- DTMF Auto dialer (10 channel) Operation
- Expanded receiver coverage: 136-174 MHz
- Automatic Repeater Shift
- Tone/DCS Search Scanning

\* Only available in the FTM-3200DR and FTM-3200DE