

FT1DR/DE C4FM FDMA

Quick Manual



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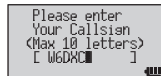
EH044M551

Entering/Changing Call Sign or Name

Enter a call sign or name when operating the transceiver for the first time or after a full reset.



Turn the [DIAL] knob and press [ENT], or use the keyboard. [ENT] removes one character at a time.

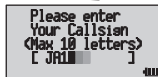


Press the [PTT] button, or hold down [ENT] for one second, to save the setting.

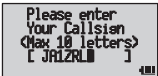
The entered call sign or name can be changed at any time. Hold down [DISP] for one second or longer. Select "12 CALLSIGN" by turning the [DIAL] knob.



Press [ENT].



Change the call sign or name by following the same steps as the entry procedure.



Press the [PTT] button.

If a Problem or Confusion Occurs During Operation

Pressing the [PTT] button, while configuring settings in SET mode, usually returns to the main screen of the current operating mode.

* Full reset: Hold down [PA], [QW], and [ENT] and press [P] (Power). Press [ENT] in response to the screen directions. (This also clears all content registered in the memory.)

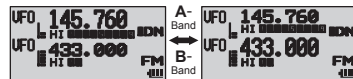
* Reset only the SET mode settings: Hold down [PA] and [VFO] and press [P] (Power). Press [ENT] in response to the screen directions.

Adjusting the Volume

Hold down [VOL], while turning the [DIAL] knob to adjust the volume. Press the [VOL] button briefly to turn the mute function on or off.

Selecting the Operating Band and Changing the Frequency

Toggle between operating bands by pressing [A/B].



The operating band frequency is displayed in large numbers.

Hold down [A/B] for one second or more to toggle between mono band operation, in which only the operating band is displayed, and the dual band operating display.

Presses [BAND] to switch between the operating receive frequency bands displayed in the table below.

Press [BAND] and then [BAND] to switch between the receive bands in the opposite direction. Transmission is possible in the 144 MHz and 430 MHz Amateur bands.

Reception Frequency Bands	A-Band	B-Band
0.5MHz - 1.8MHz (AM radio band)	↓	—
76 (88) MHz - 108MHz (FM radio band)	↓	—
1.8MHz - 30MHz (short wave band)	↓	—
30MHz - 76 (88) MHz (50MHz band)	↓	—
108MHz - 137MHz (aviation radio band)	↓	↓
137MHz - 174MHz (144MHz band)	↓	↓
174MHz - 222MHz	↓	↓
222MHz - 420MHz (information radio band (1))	↓	↓
420MHz - 470MHz (430MHz band)	↓	↓
470MHz - 774 (800) MHz	↓	↓
*B-band is capable of up to 580MHz only		
803 (800) MHz - 999MHz (information radio band (2))	↓	—

(): EXP/European Version

Tuning the Frequency

In VFO mode, Change the frequency by turning the [DIAL] knob, or enter a frequency using the number keys. (Press [VFO] to toggle between VFO and memory mode.)

Selecting a Communication Mode

Usually, select the auto communication mode. This automatically changes the communication mode to that of the received signal.

* Digital communication is only possible on A-band.

Press [MODE] to toggle between communication modes.

"Analog (FM)" → "Auto (□□: Auto changing)" → "Digital (DN)" → "Wide digital (W)"

DN: A simultaneous voice/data communication mode, in which information (such as the call sign and position) is communicated at the same time as the voice, in standard C4FM modulation mode.

W: A full rate, high definition mode with emphasis on sound quality for voice communication.

DW: A high-speed data communication mode, to which the radio automatically adjust when an image or GM operation range signal is sent or received.

Changing Transmit Power Output

Press [P], then [1], and then turn the [DIAL] knob.

"HIGH" (5W) → "LOW1" (0.1W) → "LOW2" (1W) → "LOW3" (2.5W) → (when connected to the lithium ion battery pack or an external power source.)

Press [PTT] to return to the frequency display.

Locking the Keys and Switch

Press [P] (power switch) briefly to lock the Keys and Switches. Unlock by pressing [P] (power switch) again.

Communicating

This transceiver can be used for digital communication with other YAESU C4FM digital amateur transceivers; and also to communicate with YAESU analog amateur transceivers. When using Auto mode with A-band (■DN/UW/IFM), the transceiver will automatically recognize and communicate with C4FM digital signals or analog signals used by the other station. Do not transmit using fixed digital mode (DN/UW) if there is any possibility that it may cause interference to other stations that may be using analog signals.

* Select a mode according to the situation.

Transmitting

Hold down [PTT] and speak into the microphone, holding it around 5 cm (2 inches) away.

The BUSY/TX lamp of the transmitter operating band (■A or ■B) is lit in red and the transmission output is shown on the PO meter in the display.

Receiving

Release [PTT] to return to the receive mode.

When a C4FM digital signal is received in A-band, the transmitting station's call sign or name is displayed.



* The time duration of the displayed call sign in "DIGITAL"/"DIGI POPUP" may be changed by holding down for one second or longer, and then turning the [DIAL] knob to select "2 TX/RX" and pressing [ENT].

Automatically Displaying the Other Station's Position

Press to display the compass screen.

Select "YR" using the [DIAL] knob to display the direction and distance to the location from which the other station's signal is transmitted.

(C4FM digital signal or APRS beacon)

Turn the [DIAL] knob and select "MY" to display the direction in which you are moving.



Registering Position Information and Using BACKTRACK

"YR" Displayed Indicated Position* and "MY" Displayed Own Current Position* can be stored in [L1] [L2] register.

Press [ENT] while displaying YR or MY. The [L1] or [L2] register is highlighted and flashes.



Turn the [DIAL] knob to highlight the mark (position) you want to register and press [ENT]. The position information for the selected mark - YR or MY - is overwritten.

After registering the positions, turn the [DIAL] knob and select [L1] [L2] to display the direction and distance from your position to the registered position using the BACKTRACK function.

Using GM (Group Monitor)

Group members are divided into members within communication range, and members out of range. The direction and distance of in-range members from your position can be displayed, allowing you to ascertain their relative positions in real time.

Messages and images can also be exchanged with members. (A Micro SD memory card is required to manage this data. Be sure to install a memory card according to the instructions "Using a Micro SD Memory Card" in the operating manual.)

Displaying In-Range and Out-of-Range Parties in "ALL" Operation Without Group Settings

Tune the frequency in A-band, and then press in auto mode (■○○) or digital mode (■DN/UW), to display the Select Operation Group/Create New screen.



Turn the [DIAL] knob, select ALL and press [ENT].

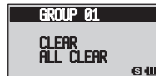
This displays up to 24 in-range parties using GM operation on that frequency.



In range

Still displayed even when out of range.

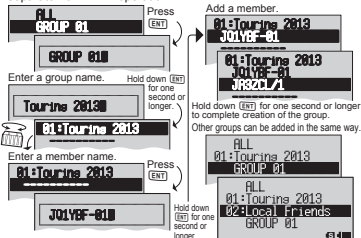
Use the [DIAL] knob to move the cursor to a displayed party and press [ENT]. The selected entry flashes. (Multiple parties can be selected.) Hold down [ENT] for one second or longer to select "Create Group for Selected Party", "Add Selected Party to an Existing Group", "Delete Selected Party" or "Delete All Parties".



* Press while operating GM to exit GM operation and return to the VFO/Memory operation screen.

Creating a Group

Select [GROUP 01] in the Select Operation Group/Create New screen to create up to 16 groups (up to 24 members each) separate from "ALL" operation.



Checking Messages and Images

Press [F] and [LOG] to display the LOG, where you can check new entries in your message list and image list, create and send new messages, and reply to or forward messages.

- [NEW] Create and send a new message
- Message or image sent to the displayed party
- [X] Message or image for which a reception confirmation signal was not received from the addressee
- Read message or confirmed image received from the displayed party
- Unread message or unconfirmed image received from the displayed party
- Photograph taken with the optional camera microphone



See the GM Function Online Manual for details on other functions such as:

- Creating a message
- Editing and deleting groups or members
- The "SYNC" function, which syncs with other parties or operation group members by radio
- Transfer of group information via the Micro SD card