FTM-400XDR/DE



8 Mute kev

9 Band scope key

11 microSD memory card slot

10 DATA terminal

4 GM operation key

5 Band A communication

mode switch / WIRES-X key

Please enter Your Callsign (Max 10 letters) CALLSIGN Touch the blinking [CALLSIGN] on the screen to begin inputting the call sign (the display will switch to the character input screen automatically if there are no operations for about 3 seconds). JA1ZRL-123 ARC I I ENG screen, or turning and pressing the IDIAL1 knob at the top right of the screen, touch and on the screen to confirm and enter the call sign.

out.

Input / change call sign or name

Enter a call sign or name when The call sign or name entered using the FTM-400XDR/DE for can be changed any time. the first time after purchase, or after a factory reset is carried Press the I key for one



Touch CHANGE on the screen and ollow the same process as the input

After entering the call sign or name, procedure to change the call sign or by touching the characters on the name (moving the cursor to the left end using 📭 and 🐼 and touching will return the display to the previous screen without the change being reflected). Press the to return to the frequency screen.

Automatic mode operation using the AMS function

Digital communication between fellow C4FM digital amateur transceivers and also communication with FM amateur transceivers are possible.

Using the AMS (Automatic Mode Select) function, the transceiver can switch its communication mode automatically to match the received signal. This is very convenient because there is no need to pay attention to the communication mode of the partner. Turn on the AMS function during normal operation. When the AMS function is active, a bar will be displayed on top of the mode (Example: DN) In the AMS mode, transmission and reception is carried out using the normal DN mode. However, when transmitting after receiving in other modes, the mode last received will be used. To transmit using the normal DN mode, touch the Real key and set the AMS function again. When operating using the digital fixed mode (DN/VW), try to be aware of the FM signal status and do not transmit when there is a possibility of interfering with the FM signals on the channel

Selecting the communication mode

Normally use the auto mode (AMS). Switch the Band A mode manually by pressing the R key.

	→	DN	→	VW	\rightarrow	FM	
Auto		Digital	High-quality voice communication (digital)		Analog		

DN : C4FM FDMA Digital basic mode.

UN High-quality voice communication mode using the full 12.5 kHz bandwidth

- DW : High-speed data communication mode that uses the full 12.5 kHz bandwidth for data communication. The mode automatically switches to this mode for picture communication
- FM :Conventional FM mode that uses the 25 kHz FM mode.

Switching the operating band

Switch to the operating band by touching the frequency

display on the screen, or pressing the () [DIAL] knob VFO 146.580 on the right side of the operating band



Displaying the function keys

Press the 🔚 key on the frequency display screen. The function keys will be displayed under the operating band Touch or is on the screen to switch the display and select the desired function



These keys can be substituted by the four operation keys normally displayed at the lower part of the frequency display screen (refer to the operating manual for details)

* (d) is displayed on when the optional voice unit FVS-2 is installed The function key will disappear and the display returns to the previous screen when 🔚 key is pressed again.

Frequency operations

Press the [DIAL] knob or touch the frequency display on the screen on the operating side and the MHz digits will blink. The frequency can then be adjusted in 1 MHz steps for a few seconds

Press the @[DIAL] knob for one second or longer to display only the MHz digits. The frequency can then be adjusted in 5 MHz steps for a few seconds.



Reception nequency bands	RA COVERAGE Settin			
of Bands A & B	NORMAL(Default)	WIDE		
108 to 137MHz (air band)	-	0		
137 to 174MHz (144MHz band)	0	0		
174 to 400MHz	-	0		
400 to 480MHz (430MHz band)	0	0		
480 to 999.99MHz	-	0		

Using the band scope

The band scope switches on or off each time scope is touched on the screen.

The display bandwidth of the band scope is either ±25 frequency steps (for wideband) or ±12 frequency steps (for narrowband)



Saving to a memory channel

Tune in the frequency to be saved in the memory and press the 🔚 key for one second or longer on the frequency

display screen

An empty memory channel will be selected and displayed automatically.

To write the desired frequency to the selected memory channel number, press the IDIAL1 knob at the top right of the screen or touch the screen directly to select the memory channel When the 🔚 key is pressed, memory writing will end and the memory channel and frequency will appear in the display.



DEL SOP/SEL

NINE 144 000

01 145 000

Assign a name to the memory

Touch with a screen for one second or longer to



Touch the screen, or turn the m [DIAL] knob at the top right of the screen to select the memory channel. After entering the name on the character input screen, press the E key for one second or longer, and touch to return to the memory list. Press the 🔚 key again to return to the previous screen EH034M581



Finding the call sign and position of a partner station

The call sign and position information of a partner station can be displayed when receiving a C4FM digital signal

Displaying the direction and distance of a partner station on the compass screen

Press the Rev to display the compass screen. When the received signal contains position information, the "station name and time of receipt" and the "direction" and "distance" to the transmitter location will be displayed.



During transmissions, movements of the partner station or your own station will be updated in real time in the display.

Other positions may be viewed using YR Message sending position, picture taking position, APRS beacon position information

*The display can be switched between "Heading Up" and "North Up" by touching the screen close to the compass center

Returning to the frequency display screen e 🔢 key to return to the frequency display Press the screen

Registering the departure point and returning to that position

Registering the departure point

Press the press the key to display the compass screen. Touch on the screen to display your current location



Touch WEWORY on the screen want to register. The current location will be registered in the touched

kev.

Returning to the departure point

Heading

Press the est key to display the compass screen. Touch Touch Touch or Touch where the return point was registered

The distance and a triangular arrow showing the direction from the current location to the registration point will be displayed.



Upon arrival at the registered point, the triangular arrow will turn into a green aiming mark.

Taking pictures with the microphone camera and sending and receiving pictures

Taking snapshots with the optional camera attached to the speaker mike MH-85A11U Point the lens at the object to



8.TX

PTT

shutter button (Maintain a focal distance of at least 50 cm from the object to be captured in order to take clear pictures)



After appearing for 10 seconds, the picture taken will be saved on the micro-SD card in JPEG format You can check and retake the picture as many times as you want

Sending pictures

Press the [D-TX] key on the microphone with the built-in camera to send the latest picture taken. Press IPTTI to stop the transmission (it may take a while for the transmission to stop).

Receiving pictures

When picture reception starts with the AMS function active. "DATA RX" will appear and then ">>>" representing the progress status will appear.

The received picture will be shown for 10 seconds on the screen, after which the display returns to the previous screen. To view a received picture, press the E key followed by Log on the screen. Touch we to display the picture list and then select the desired picture from the list

Using the GM (Group Monitor) function

Group members within and outside the sphere of communication can be shown in different colors Information such as the distance and position can be displayed.

Messages and pictures can also be sent and received The member from which new messages are received is also displayed in "M"

Tune Band A to the GM operating frequency and press the gw key to display "ALL" and commence GM operation. The frequency cannot be changed when GM is active. To change the frequency, press the w key to cancel GM operation.

The GM function can also be used among friends only (refer to the GM operating manual for details).



Station within the communication range



/ Station outside the communication range information of the partne station. Press the pise key again

* Remains even when the station moves to return to the screen in the outside the communication range figure on the right

(gray)

When operating the sub-band with the GM function active



446.520 The GM function will be temporari stopped and operation will be on -v/w-l-soc-levrelscorel ma Band B. Upon pressing the [DIAL] knob of Band A after the sub-band operation, the GM function will resume operation.

Changing the transmit power

Touch the function key TIPHE to change the transmit power

	TI PWR	→	Tx PWR MD	→	Tx PWR
FTM-400XDR/DE	5W		20W		50W

Locking the dial and keys

Press the extension key and will appear temporarily on the display, indicating the keys and dial are locked. Press the set key again and UNLOCK will appear temporarily on the display indicating the keys and dial are unlocked.

When in doubt during operation set-up

To return to the frequency display during setting, press the second or longer, or press the microphone [PTT] while in the set-up menu. *Touch [RESET/CLONE] in the set-up menu, and then run [1 FACTORY RESET] in the next screen to return to the default factory settings. The settings registered at a certain point in time under [2 PRESET] can be recalled using [3 RECALL PRESET].

Displaying the "LOG" (MSG / PICT list)

Press the E key and touch Log on the screen to display the message and picture list (the micro-SD card must be inserted).

Touch Touch to switch between the lists. The contents can be checked and new messages can be created, sent, replied to and forwarded.

Sending and receiving messages

Creating and sending new messages





Replying to messages received