

**YAESU**  
*The radio*

**144/430 MHz**  
**DIGITAL/ANALOG TRANSCEIVER**  
**C4FM/FM**

**FT1XDR/XDE/DR/DE**

**Instruction Manual**

**(GM Edition)**

Thank you for purchasing this Yaesu product.

This instruction manual explains information related to the "GM Function".

For information on basic operation of the transceiver, please refer to the enclosed FT1XDR/XDE/DR/DE instruction manual.

**Company names and products in this manual are trademarks or registered trademarks of the respective company.**

## Table of Contents

Automatically displaying the position of remote station.....	2
Acquiring the position of remote station.....	2
Saving position information of other stations.....	3
Checking received messages and images.....	4
Transmitting MESSAGE and PICT (images).....	6
Creating and transmitting new MESSAGE.....	6
Replying to a checked MESSAGE or PICT (images).....	8
Forwarding checked MESSAGE or PICT (images).....	9
Transmitting captured PICT (images).....	11
GM Set mode list.....	13

The Digital GM (Group Monitor) Function automatically checks if there is another transceiver operating on the same frequency with the GM function within transmission range, and displays the direction, distance and other information for each detected callsign on the LCD. This convenient function not only lets you know if a friend is within transmission range, but also enables instant confirmation of position information between group members.

**Caution**

- The GM function does not function in the FM (analog) mode. Switch from the standard mode to digital mode for operation.
- When using the GM function, operate on the same frequency as group members.

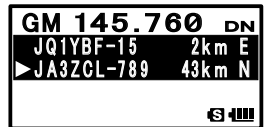
**Automatically displaying the position of remote station**

The position of a member in communication range is shown on compass display. In addition, the position information of remote station at a certain time can be saved.

**Acquiring the position of remote station**

1 Press **GM**.

Members available for communication are shown in reverse display, and the distance and direction to the remote station are displayed.

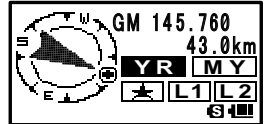


2 Turn **DIAL** to select the desired station

Select the station to display position information.

3 Press **SET DISP**.

The distance and direction to the selected station is shown on the compass display.



With your direction of movement as up, directions (**E, W, S, N**) is displayed on the ring of the compass (Heading Up). The position of the remote stations is indicated on the compass (triangular arrow).

**Tips**

- The display method of position information can be changed in the Set mode option [1 DISPLAY] → [2 TARGET LOCATION].
- Return to the Member List screen by pressing **SET DISP** again.
- In the Set mode option [1 DISPLAY] → [3 COMPASS], you can change the direction [HEADING UP/ NORTH UP] of the compass of your station position. However, if [YR], [☆], [L1], or [L2] is selected, the direction of remote station position can only be displayed in [HEADING UP] and cannot be changed to [North Up].
- [Heading Up]: With your direction of movement as up, directions (**E, W, S, N**) is displayed on the ring of the compass (Heading Up). The direction of remote stations is indicated on the compass (triangular arrow).
- [North Up]: North is always displayed as up. The moving direction of your station is indicated on the compass (triangular arrow).
- Position information of station out of communication range cannot be updated.
- If the position of your station or the remote station is not obtained with GPS or specified with MANUAL, the compass display cannot be used.

### Caution

- If GPS satellite data cannot be obtained, position information of the remote station is not displayed.
- A positioning error by several hundred meters may occur due to the environmental conditions.
- This function is a simple function using the GPS satellite data. Use this as only an estimation of the actual position of remote station.

## Saving position information of other stations

- 1 Press **GM**.

Members available for communication are shown in reverse display, and the distance and direction to the remote station are displayed.

- 2 Turn **DIAL** to select the desired station

Select the station to display position information.

- 3 Press **SET DISP**.

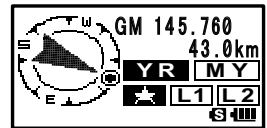
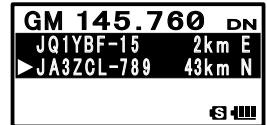
The position information of the selected station is displayed.

- 4 Press **ENT**.

- 5 Turn **DIAL** to select [**☆**], [L1], or [L2].

- 6 Press **ENT**.

The position information of the remote station is saved.

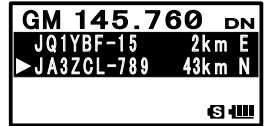


## Checking received messages and images.

Check messages and images on the LOG List using the GM function.

- 1 Press **GM**.

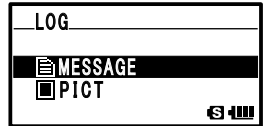
Members available for communication are shown in reverse display, and the distance and direction to the remote station are displayed.



- 2 Press **MW** and then **LOG**.

- 3 Turn **DIAL** to select [MESSAGE] or [PICT].

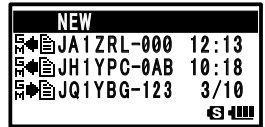
Select the information type (MESSAGE or PICT) you would like to check.




- 4 Press **ENT**.

**Tip** • The icon that appears on the left side of the LOG List indicates the following meanings:

- : GM MESSAGE Received
- : GM MESSAGE Received (Unread)
- : GM MESSAGE Sent
- : GM MESSAGE Failed to send
- : GM PICT Received
- : GM PICT Received (Unread)
- : GM PICT Sent
- : GM PICT Failed to send



## Checking received messages and images.


5 Turn  to select the information you would like to check.





[For MESSAGE]


6 Press .


The selected information is displayed.

**Tip** • When  is pressed, the position where MESSAGE was sent, or PICT was taken, is shown in the compass display.

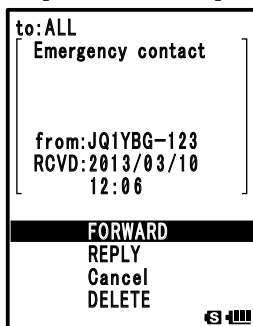
• Received information can be forwarded to other members by selecting [FORWARD] with  (See page 9).

• You can reply to the sender by selecting [REPLY] with  (See page 8).

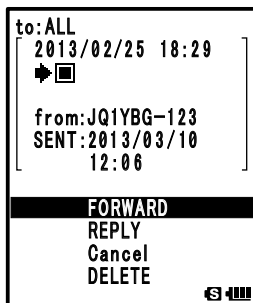
• Received information can be deleted by selecting [DELETE] with .

7 Press  over 1 second.

Returns to a list screen of members



[For PICT]



# Transmitting MESSAGE and PICT (images)

Transmit messages and images using the GM function.  
There are 4 methods for transmitting a message or picture.

- (1) Create and transmit new MESSAGE
- (2) Reply to a checked MESSAGE or PICT (images)
- (3) Forward a checked MESSAGE or PICT (images)
- (4) Transmit a captured PICT (images)

## Creating and transmitting new MESSAGE

Create and transmit a new message to a member

- 1 Press **GM**.

Members available for communication are shown in reverse display, and the distance and direction to the remote station are displayed.

- 2 Press **MW** and then **LOG**.
- 3 Turn **DIAL** to select [MESSAGE].
- 4 Press **ENT**.

The LOG List appears

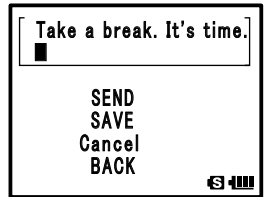
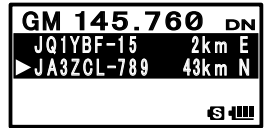
- 5 Turn **DIAL** to select [NEW].
- 6 Press **ENT**.

The MESSAGE entry screen appears.





- 7 Enter a message using numeric keys.

Referring to the following table, enter a message using the keypad keys.


Numeric key	Alphabetic Character
1	1
2	abc2ABC
3	def3DEF
4	ghi4GHI
5	jkl5JKL
6	mno6MNO
7	pqrs7PQRS
8	tuv8TUV
9	wxyz9WXYZ
0	0_-%/?!:.#




## Transmitting MESSAGE and PICT (images)

- Tip**
- To delete a character, press . When  is pressed, a character is deleted and the cursor moves to the left.
  - Pressing  moves the cursor to the right.
  - By selecting the fixed text icon with , you can select a message from 19 types of registered fixed texts.


1	QRM	11	Good night
2	QRP	12	Send messages
3	QRT	13	Send pictures
4	QRX	14	on my way
5	QRZ	15	wait for you
6	QSY	16	Pick me up
7	Good morning	17	Thank you
8	Good job	18	OK
9	Good day	19	urgent
10	Good evening		

- 8 Press  over 1 second.


The entered character is determined.

- 9 Turn  to select [SEND].

- Tip**
- To cancel transmission, select [BACK].
  - To save a entered message, select [SAVE].
  - To continue entering a message, select [Cancel].

- 10 Press .

The List screen appears.

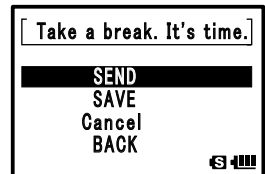
- 11 Turn  to select a member in communication range.

- Caution** • Messages cannot be transmitted to members outside of communication range.

- Tip** • Even if a CALLSIGN (name) for another station is specified as the destination, other stations operating GM on the same frequency in communication range can view the message.

- 12 Press .


The message is transmitted.



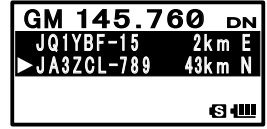


## Replying to a checked MESSAGE or PICT (images)


Reply to a station that has sent a MESSAGE or PICT.

- 1 Press .

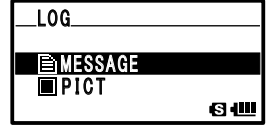
Members available for communication are shown in reverse display, and the distance and direction to the remote station are displayed.




- 2 Press  and then .

- 3 Turn  to select [MESSAGE] or [PICT].


Select the information type (MESSAGE or PICT) you would like to reply to.




- 4 Press .

The LOG List appears



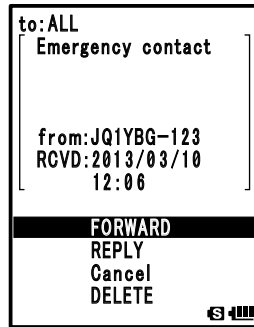
- 5 Turn  to select the information you would like to reply to.



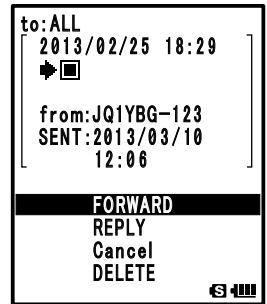
- 6 Press .



The selected information is displayed.

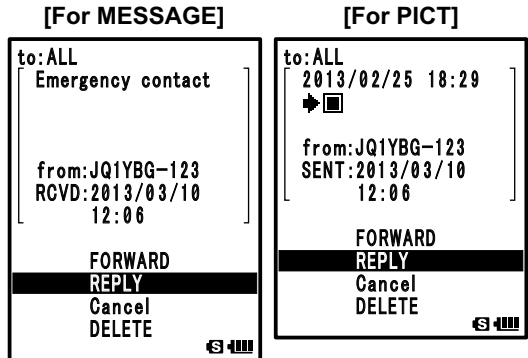
[For MESSAGE]



[For PICT]





- 7 Turn  to select [REPLY].
- 8 Press .  
The MESSAGE entry screen appears.



- 9 Enter a reply message.  
Enter a reply message by following steps in [Creating and transmitting new MESSAGE (See page 6)].

**Tip** • When REPLY is selected, the destination is automatically specified as the station that sent the MESSAGE or PICT.

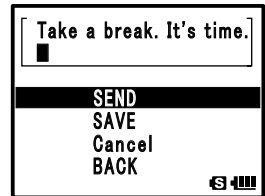
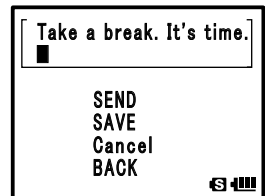
- 10 Press  over 1 second.  
The entered character is determined.

- 11 Turn  to select [SEND].

- 12 Press .







The reply is transmitted to the station that has sent a MESSAGE or PICT.

**Tip** • Even if the CALLSIGN (name) of the station that sent the MESSAGE or PICT is specified as the destination, other stations operating GM on the same frequency in communication range can view the message.



## Forwarding checked MESSAGE or PICT (images)

Forward a checked MESSAGE or PICT to members.

- 1 Press .  
Members available for communication are shown in reverse display, and the distance and direction to the remote station are displayed.
- 2 Press , and then press .
- 3 Turn  to select [MESSAGE] or [PICT].  
Select the information type (MESSAGE or PICT) you would like to forward.
- 4 Press .  
The LOG List appears
- 5 Turn  to select the information you would like to forward.

## Transmitting MESSAGE and PICT (images)

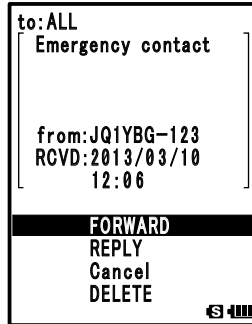
- 6 Press **[ENT]**.

The selected information is displayed.

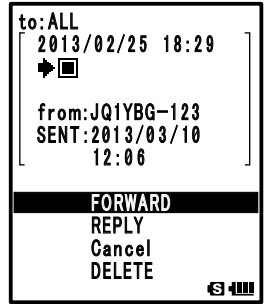
- 7 Turn **[DIAL]** to select **[FORWARD]**.

- 8 Press **[ENT]**.

**[For MESSAGE]**



**[For PICT]**



- 9 Turn **[DIAL]** to select a member in communication range.

**Caution** • Messages cannot be transmitted to members outside of communication range.

**Tip** • Even if a CALLSIGN (name) for another station is specified as the destination, other stations operating GM on the same frequency in communication range can view the message.

• A PICT (image) can be received without GM operation when on the same frequency.



- 10 Press **[ENT]**.

MESSAGE or PICT (image) is forwarded to members.

## Transmitting captured PICT (images)

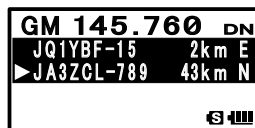
Transmit a picture captured with the optional camera equipped speaker microphone (MH-85A11U) to other members.

### Tip

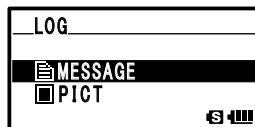
- For instructions on how to capture pictures using the optional camera equipped speaker microphone (MH-85A11U), refer to [Taking picture with the optional camera mounted on speaker microphone Snapshot Function (See page 86)] in Basic Operation.

1 Press **GM**.

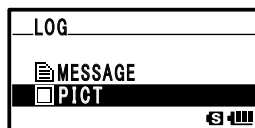
Members available for communication are shown in reverse display, and the distance and direction of the other station are displayed.



2 Press **MW** and then **LOG**.

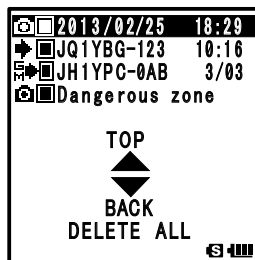


3 Turn **DIAL** to select [PICT]



4 Press **ENT**.

A list of images saved to the microSD memory card is displayed.



5 Turn **DIAL** to select the image you would like to transmit.


6 Press **ENT**.

The image selected for transmission is determined.

**Tip** • The time displayed in the 1st character position can be freely edited as the title by following the steps below.

- (1) Turn **DIAL** to specify the time.
- (2) Press **ENT**.
- (3) Enter the characters using keypad keys.
- (4) Press **ENT** over 1 second when entry is finished.


## Transmitting MESSAGE and PICT (images)

7 Turn  to select [SEND].

The selected image is transmitted to members.

- Tip**
- To cancel transmission, select [Cancel].
  - To delete the image, select [DELETE].

8 Press .

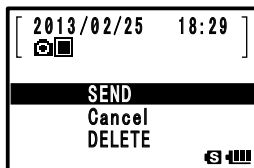
9 Turn  to select a member in communication range.

- Caution**
- Images cannot be transmitted to members outside of communication range.

- Tip**
- Even if a CALLSIGN (name) for another station is specified as the destination, other stations on the same frequency in communication range can view the PICT (image).

10 Press .

The image is transmitted.



## GM Set mode list

Set mode item No./Item	Description of function	Options (Bold letters: Default)
LANGUAGE	Select the language to use in the GM Function	JAPANESE / <b>ENGLISH</b>
DP-ID LIST	Registering the DP-ID to the transceivers.	—
RADIO ID CHECK	Transceiver specific number(ID) appears. (This cannot be edited)	—

### ● 1 LANGUAGE

#### Select language to use

**Setting item:** JAPANESE / ENGLISH

**Default:** ENGLISH

**Explanation:** Set the language to use in the GM Function

Switch between English and Japanese for Member Name, and Message entry.

### ● 2 DP-ID LIST

#### Display of the DP-ID list screen

**Explanation:** Every C4FM digital transmit communication contains the individual ID information (Radio ID) of each transceiver. The DP-ID function uses this individual ID information.

When communicating with another transceiver, if the DP-ID of the stations are registered in each other's transceivers, they can communicate even if the DG-ID numbers are different.

For details, refer to the FT1XDR/XDE/DR/DE operating Manual.

### ● 3 RADIO ID CHECK

#### Display of RADIO ID CHECK

**Explanation:** In the GM Function, a fixed ID respective to a transceiver is transmitted separately from CALLSIGN.

RADIO ID is a 5 digit code consisting of alphanumeric characters that is written into the transceiver during factory production.

RADIO ID cannot be edited.



Copyright 2017  
YAESU MUSEN CO., LTD.  
All rights reserved.

No portion of this manual may be  
reproduced without the permission of  
YAESU MUSEN CO., LTD.