

YAESU
The radio

144/430MHz
DIGITAL/ANALOG TRANSCEIVER

C4FM FDMA

FT1DR
FT1DE

Instruction Manual
(WIRES-X Edition)

Thank you for purchasing our product.

This instruction manual explains information related to the "WIRES-X Function".
For information on basic operation of the transceiver, refer to the operating
manual enclosed in the product package.

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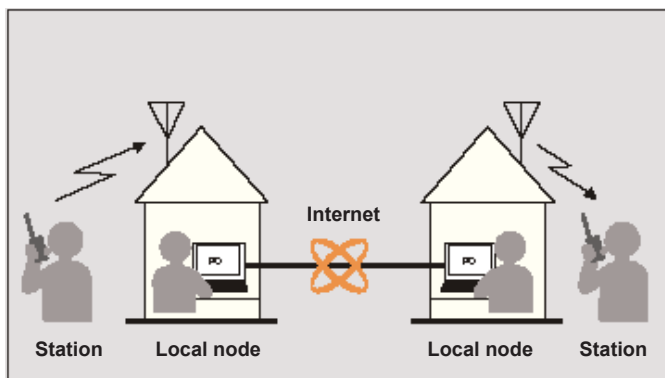
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What is WIRES-X?

WIRES (Wide-coverage Internet Repeater Enhancement System) is an Internet communication system which expands the range of amateur radio communication. By relaying radio signals via the Internet, stations can be connected where radio waves cannot reach each other.

WIRES uses local nodes (stations connected to the Internet via PCs) as access points which repeat communications of conventional amateur radio stations. When the local nodes are connected to each other via the Internet, amateur stations all over the world can communicate with each other just by connecting conventional stations to the local nodes.



In addition to the WIRES features, WIRES-X also supports digital communications. Using WIRES-X, you can transmit and receive digitalized data such as text, image data and audio.

The device allows you to have analog/digital communications with stations far beyond the VHF/UHF radio communication range by using WIRES-X local nodes. In digital communication mode, you can search stations by call signs or keywords, and exchange data such as messages and location information.

Since you can also use WIRES-X together with the GM (Group Monitoring) function on a compatible transceiver to create a group including local nodes, you can also establish a network covering a wider range.

Caution

You cannot connect to a currently in service WIRES-II node from a WIRES-X node, or vice versa.

Terminology

■ Node

Radio repeater connected to the Internet via a PC, which repeats communications of conventional amateur radio stations as an access point

● Local node

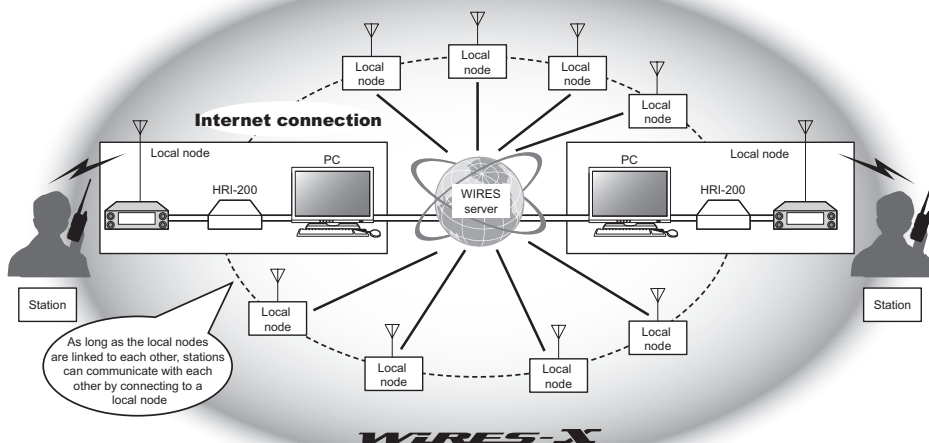
Node within the radio communication range of a conventional amateur radio station

● Analog node

Node which is a transceiver or repeater using the conventional FM format and can only repeat DTMF (Dual Tone Multi Frequencies) codes and analog audio transmissions/receptions

● Digital node

Node which is a transceiver or repeater compatible with digital communications in C4FM (Continuous 4 level FM) format. With this type of node, you can not only relay voice communications, but also text and image data transmissions. You can also repeat DMTF codes and analog audio transmissions/receptions.



■ WIRES-X user ID

YAESU provides identification names with the WIRES-X nodes. For each node, a DTMF ID (5-digit number) and user ID (alphanumeric characters consisting of up to 10 digits) are provided.

If you know the ID of the node you want to connect with, you can transmit the DTMF code from the FT1DR/DE, and directly specify the node to connect to by searching by characters (only for digital nodes).

● ID list

Nodes and rooms which are currently operating WIRES are listed and published on our WIRES website. We provide information such as IDs, call signs and operating frequencies (some may not be published due to the wishes of owners).

■ Room (Round QSO Room)

WIRES system community space to which multiple nodes can connect simultaneously. As well as voice communications, you can also chat with text messages on the PC used for the local node.

● Open room

Room which allows all nodes to connect to

● Closed room

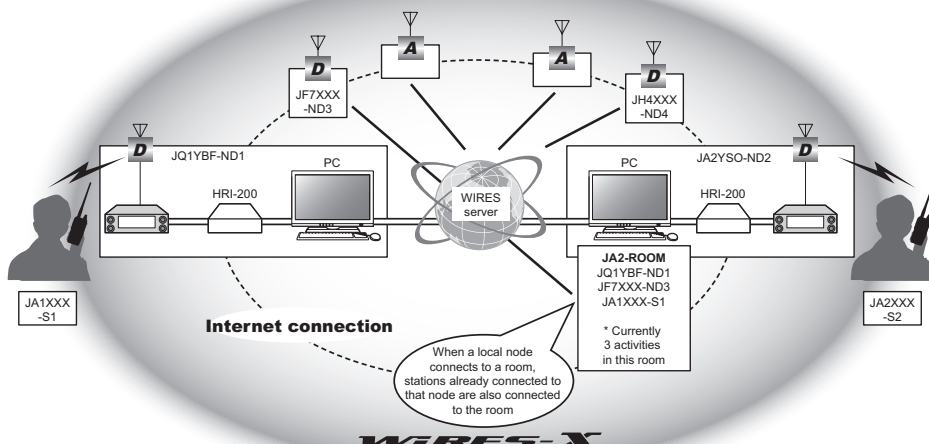
Room only registered nodes can connect to

● Owner

Node which opens and organizes a room

● Activity

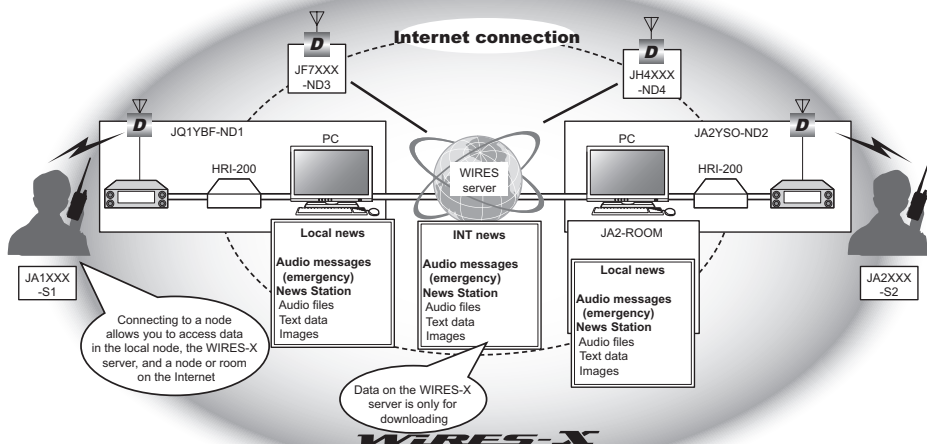
Nodes which are currently connected to a specific room



■ News function

This feature allows you to save digital data such as text, image and audio data on the PC used for the local node, and access the data from the connected digital station. From the digital station, you can access the local node (local news), the data storage area (news station) in the connected destination node or room to read data (upload data) and write data (download data).

The owners of a node or room can read/write data to their own station via a PC. The owner can also delete data and change information such as its name and attribution. The WIRES-X server also has its own news station (INT NEWS) where you can read information and data supplied by YAESU.



■ Preset search function

If the preferred channel for connecting to a local node is programmed (preset) in the digital station, the channel can be scanned automatically when you start up WIRES-X. Utilize this function as follows:

- Quickly connect to the local node you usually access by presetting its frequency in advance.
- By presetting to a shared channel frequency with your friends nodes, you can quickly connect the FT1DR/DE to a local node even while you are traveling in other areas

You can use 2 transceivers as nodes, one for the preset search channel (receive only channel) and the other for the voice channel (operation channel).

Connecting to a Faraway Station Using WIRES-X

Finding a local node

To communicate using WIRES-X, a WIRES-X node station (local node) must be established within radio contact range of the user transceiver.

WIRES-X nodes are stations users voluntarily registered with Yaesu. Their information such as locations and operation styles are listed on our website:


<https://www.yaesu.com/jp/en/wires-x/index.php>

First use this list to search for a nearby local node, and nodes on the Internet used by people you want to communicate with; write down the node names and frequencies. Since the connection procedure differs between digital stations and analog stations, confirm whether the node is an analog station or a digital station.


- When the local node is a digital station:
Connect from your transceiver in digital mode.
(Nodes on the Internet can connect to both digital and analog stations.)
- When the local node is an analog station:
Connect from your transceiver in analog mode.
(Nodes on the Internet can connect only to analog stations.)


Connecting in digital mode


Caution

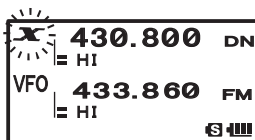
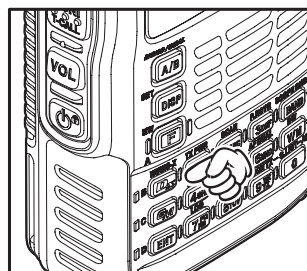
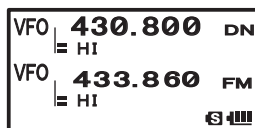
Before using WIRES-X, press  to set the communication mode of band A (shown on the top part of the screen) to any mode other than [FM]. For details, refer to "Selecting Communication Mode" in the basic operating manual.

Connecting to a local node

- 1 Rotate  to set band A to the frequency of the desired local node

Tip You can directly enter the frequency using the numerical keypad. After entering, press .

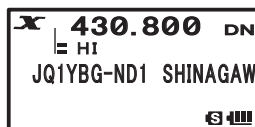
- 2 Press and hold  for 1 second or more
[X] will flash on the left side of the frequency indication.



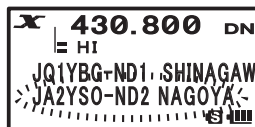
When a local node is found, [X] will be lit solid, and the node name and city name will appear on the bottom part of the screen.

Tip Depending on the connection status, the screen will show one of four display patterns.

- (1) Connected to the local node, but unable to connect to Internet nodes or rooms (never before established connection to Internet nodes or rooms)



- (2) Connected to the local node, but unable to connect to Internet nodes or rooms (previously succeeded in establishing connection to Internet nodes or rooms)




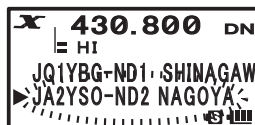
- (3) Connected to the local node, successfully connected to Internet nodes or rooms (nodes or rooms are the same as ones previously used)




- (4) Connected to the local node, successfully connected to Internet nodes or rooms (nodes or rooms are different from ones previously used)



When the ► is displayed, rotate the . Call signs of nodes or rooms where you previously established connection will flash.



Tip While the [X] is flashing, press the  to re-establish connection to the local node.


Tip When any local node cannot be found, [X] will disappear in 5 minutes.

Tip When the detected local node is a repeater station, [[R]] will appear below [X].



Caution

WIRES-X can be used only on band A.


When using band B (shown on the bottom part of the screen) as the operation band, after pressing and holding  for 1 second or more, band A (shown on the top part of the screen) will automatically become the operation band.

Connecting to a node or room on the Internet

You can connect to a desired node or room in one of the following ways.

- Selecting an accessible node or room from the list
- Specifying the node name or room name
- Selecting the most recently connected node or room
- Specifying the DTMF ID of the desired node or room

● Searching from the node & room lists

- 1 When the connection destination is displayed, press and hold  for 1 second or more.

The menu list of the local node will appear.




Connecting to a Faraway Station Using WIRES-X

2 Rotate  to select **[ALL]**

3 Press 

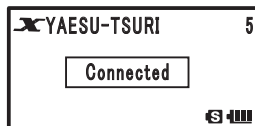
Accessible node and room lists will appear.

- Tips**
- [Waiting] will keep flashing until the list is displayed.
 - Connection destinations are displayed from the room list and then node list.
 - On the connection destination room columns, the number of activities (the number of nodes connecting to each room) appears on the right side.

4 Rotate  to select the connection destination

5 Press 

The FT1DR/DE will initiate connection and [Waiting] will flash.




When connection is successfully established, [Connected] will appear, followed by the menu list of the connection destination.

- Tip** If connection is unsuccessful, an error message will appear and the screen will return to the list of nodes and rooms.
- For explanation of error messages, please refer to the "Error Message Guide" (page 45).

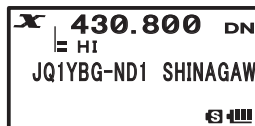
Tip

You can list items in order according to the number of activities or access history from **[7 WIRES-X]** → **[3 SEARCH SETUP]** in setting mode.

● Searching by node or room name

1 When the connection destination is displayed, press and hold  for 1 second or more

The menu list of the local node will appear.



2 Rotate  to select **[SEARCH & DIRECT]**

3 Press 

The character input screen will appear.







- 4 Use the numerical keypad to enter all or part of the room name or user ID of the connection destination.

The characters you have just entered will appear on the screen.

- Tips**
- Refer to the following table and enter the name or ID using up to 16 alphanumeric characters.

Number keys	Characters
1	1
2	ABC2
3	DEF3
4	GHI4
5	JKL5
6	MNO6
7	PQRS7
8	TUV8
9	WXYZ9
0	0

- To modify characters, press . Pressing  will move the cursor to the left and erase a character.
- Pressing  will move the cursor to the right.
- To select symbols such as "-" and "/", rotate .

- 5 Press and hold  for 1 second or more [SEARCH] will become selected.

DIRECT ENTRY

FOOTBA

SEARCH




DIRECT ENTRY

FOOTBA



SEARCH




- 6 Press .

Connection destination search will start and [Waiting] will flash.



If connection destinations with a name partially matching the name you entered are found, they will be listed.

- Tips**
- If there is no connection destination matching the entered name, [No Matches] will appear, and then the screen will return to the SEARCH screen.
 - To edit the name, rotate the , select [Cancel], press , then make changes on the input screen.
 - If the name you entered is found, the FT1DR/DE will initiate the connection immediately.
 - The screen will display the room list search results, followed by the node list search results.
 - On the room columns in the search results, the number of activities (the number of nodes connecting to each room) appears on the right side.


FOOTBA

SEARCH

Cancel






Connecting to a Faraway Station Using WIRES-X

7 Rotate  to select the connection destination

8 Press 

The FT1DR/DE will initiate connection and [Waiting] will flash.

Tip Instead of , you can press  to establish connection while continuing to transmit from your transceiver

When connection is successfully established, [Connected] will appear, followed by the menu list of the connection destination.

Tip If connection is unsuccessful, an error message will appear and the screen will return to the list of nodes and rooms.

For an explanation of error messages, please refer to the "Error Message Guide" (page 45).


FOOTBALL05	14
FOOTBALL003	12
FOOTBALLCLUB	10
FOOTBALL	7
	


Tip

You can list items in order according to the number of activities or access history from [7 WIRES-X] → [3 SEARCH SETUP] in setting mode.

● Connecting to the node or room you have most recently connected

If you have previously connected to a node or room, it will be displayed and flashing at the bottom of the screen.

When this happens, press  to start connection, and once connection is established, A list of available nodes will appear.

If there is a ► to the left of the node name, rotate the  to display the node you have most recently connected to.

Tip If connection is unsuccessful, an error message will appear and the node name will return to flashing mode.

For an explanation of error messages, please refer to the "Error Message Guide" (page 45).

	430.800	DN
= HI		
JQ1YBG-ND1 SHINAGAW		
►JA1ZRL-789 SHINAGAW		

● Specifying the DTMF ID of the desired node or room


1 Press 


2 Press 

The DTMF input screen will appear.

3 Enter the 5-digit DTMF ID

4 Press and hold  for 1 second or more

Tip Press  to cancel input.

DIRECT ENTRY
[#]


Communicating with others

- 1 When the connection destination is displayed, press



The FT1DR/DE will switch to transmit mode.



- 2 Speak into **[MIC]**

Tip Place the microphone about 5 cm away from your mouth when you speak.

Caution Do not continuously transmit over an extended period of time to reduce the risk of overheating, malfunction, and injury.

- 3 Release



The FT1DR/DE will switch to receiving mode.

Tip

You can communicate with the connection destination by pressing even when viewing data in a node or room on the Internet using the NEWS function in digital mode (Page 21).

Useful functions in digital mode

Using a preset channel

Programming (presetting) a channel frequency allows you to easily connect to a local node.

By sharing a channel frequency with other nodes, you can connect the transceiver to a local node even while you are out. This is useful for a group to operate a station.

● Presetting a channel

- 1 Press and hold for 1 second or more

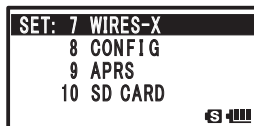
The FT1DR/DE will enter setting mode.



- 2 Rotate to select **[7 WIRES-X]**

- 3 Press

The menu list will appear.



- 4 Rotate to select **[2 RPT/WIRES FREQ]**


- 5 Press

The selection items will appear.



Connecting to a Faraway Station Using WIRES-X





6 Rotate to select **[PRESET]**

- Tips**
- Rotating  switches between [MANUAL] and [PRESET].
 - The default setting is [MANUAL].

7 Press

The frequency will appear.

8 Rotate to select the frequency

- Tips**
- Rotating  changes the frequency by the increments specified in setting mode. Pressing  and rotating  changes the frequency by 1 MHz increments.
 - Pressing  will change the preset frequency band.
 - The default settings are 145.780 for band A and 438.980 for band B.

9 Press , 4 times

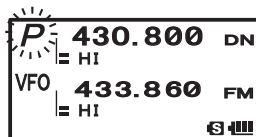
The frequency will be set, and then the screen will return to the frequency display screen.



● Connecting to a preset channel

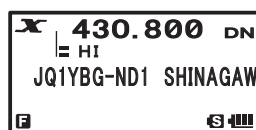
1 Follow the procedure in "Presetting a channel" to make the preset channel available in advance.

2 Press and hold for 1 second or more, [P] will flash on the left side of the frequency indication.



When a local node is found, [X] will light up, and the node name and city name will appear on the bottom part of the screen.

- Tip** When any local node cannot be found, [P] will disappear in 5 minutes.



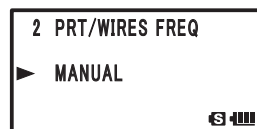
Tip


If the local node has a different frequency than your preset channel frequency, your settings will automatically change to the node frequency.

● Ending searching by a preset channel

1 Follow steps 1 to 5 in “Presetting a channel” to display the selection items of **[2 RPT/ WIRES FREQ]**

2 Rotate  to display **[MANUAL]**
Tip Rotating  switches between [MANUAL] and [PRESET].



3 Press , 3 times
 The screen will return to the frequency display screen.

■ Connecting to a registered node or room

You can register names of nodes and rooms on the Internet and sort them into 5 categories. Up to a total of 20 nodes and rooms can be registered in each category.

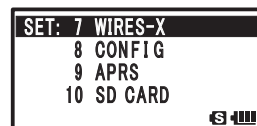
● Registering category name

1 Press and hold  for 1 second or more
 The FT1DR/DE will enter setting mode.




2 Rotate  to select **[7 WIRES-X]**

3 Press 
 The menu list will appear.




4 Rotate  to select **[4 EDT CATEGORY TAG]**

5 Press 
 The category name setting screen will appear.



6 Rotate  to select one of [C1] to [C5].

7 Press 
 The character input screen will appear.



Connecting to a Faraway Station Using WIRES-X

8 Use the keypad to enter the category name.

The characters you have just entered will appear at the center of the screen.

- Tips**
- Refer to the following table to enter the category name using up to 16 alphanumeric characters.

Number keys	Characters
1	1
2	abc2ABC
3	def3DEF
4	ghi4GHI
5	jkl5JKL
6	mno6MNO
7	pqr7PQRS
8	tuv8TUV
9	wxyz9WXYZ
0	0 -%/?!.:#

- To modify characters, press . Pressing will move the cursor to the left and erase a character.
- Pressing will move the cursor to the right.
- To select symbols such as "-" and "/", rotate .
- You can switch between alphanumeric characters and Japanese katakana by selecting [7 **WIRES-X**] → [1 **LANGUAGE**].

9 Press and hold for 1 second or more.

The screen will return to the category name setting screen. The category name you entered will appear.

- Tip** Repeat steps 6 to 9 to set more category names.

10 Press , 3 times

The category name will be set, and then the screen will return to the frequency display screen.



● Registering a node or room

1 Connect to the desired node or room.

2 When the connection destination is displayed, press

The menu list of the connection destinations will appear.



3 Rotate to select [ADD]

4 Press

The category list will appear.




5 Rotate to select a category

6 Press

The connection destinations list will appear, and then the name of the node or room currently connected will be added to the list.



7 Rotate  to select **[BACK]**

8 Press 

The screen will return to the menu options.



● Connecting to the registered node or room

1 Press and hold  for 1 second or more

The menu list of the local node will appear.




2 Rotate  to select one of **[C1]** to **[C5]**

3 Press 

[Waiting] will appear, followed by a list of nodes and rooms.





Tip On room columns, the number of activities (the number of nodes connecting to each room) appears on the right side.

4 Rotate  to select the connection destination

5 Press 

Connection will begin and [Waiting] will flash.



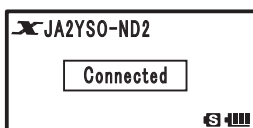
Tip Instead of pressing , press  to establish connection while continuing to transmit from your transceiver.



If connection is successful, [Connected] will be displayed, and menu options for the node will appear.

Tip If connection is unsuccessful, an error message will appear, and the screen will return to the list of nodes and rooms.

For an explanation of error messages, please refer to the "Error Message Guide" (page 45).




Tip

You can list items in order according to the number of activities or access history from **[7 WIRES-X]** → **[3 SEARCH SETUP]** in setting mode.

Connecting to a Faraway Station Using WIRES-X


● Disconnecting from a node or room

- 1 Press and hold  for 1 second or more
If disconnection is successful, [Not Connected] will be displayed.

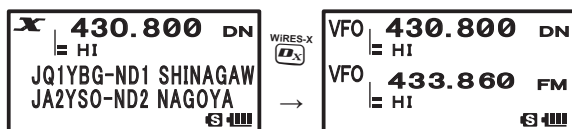
Tip Once [Not Connected] has appeared, the display will return to the local node connection screen.



Releasing the WIRES-X connection

Press and hold  for 1 second or more. The display will return to the frequency screen, and the [X] to the left of the frequency will disappear.




Tip The local node and connection destination nodes or rooms will remain connected.



Connecting to an analog node


When the desired node is an analog station, use the DTMF function on the transceiver. For details on how to use the DTMF function, refer to “Using the DTMF Function” in the basic operating manual.

■ Connecting to a node or room on the Internet


- 1 Set the main band frequency to the local node frequency
- 2 Press  to switch to analog FM mode
Tip For details, refer to “Switching the communication mode” in the basic operating manual.
- 3 While pressing , press the DTMF ID key of the node or room where you want to connect
The DTMF code will be delivered.
- 4 Release , and keep the FT1DR/DE in receiving mode for about 10 seconds
Once connection is established, you will be able to hear audio.

Caution The connection destination screen will not appear.

Tip

You can store DTMF codes consisting of up to 16 digits for 10 channels on the FT1DR/DE. If you register the codes of frequently-used connection destinations in advance, you can easily transmit a code by pressing its abbreviated number while pressing . For details, refer to “Using the DTMF Function” in the basic operating manual.

■ Communicating with others

- 1 Press 
The FT1DR/DE will switch to transmit mode.

2 Speak into [MIC]


Tip Place the microphone about 5 cm away from your mouth when you speak.

Caution Do not continuously transmit over an extended period of time to reduce the risk of overheating, malfunction, or injury.

3 Release

The FT1DR/DE will return to receive mode.




■ Disconnecting from a node or room

While pressing , press the #99999 (DTMF disconnection command) key.

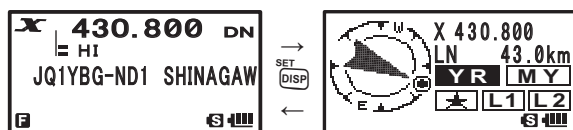
Various display functions

■ Confirming the digital node location

When the signal from the local node you are connected to contains GPS location information, you can display the location data on the screen.

While viewing the connection destination screen, press , and while  is displayed on the destination screen, press  to display the compass screen. The direction and distance from the present station to the local node will be displayed.



Press  again to return to the connection destination screen.



Tip

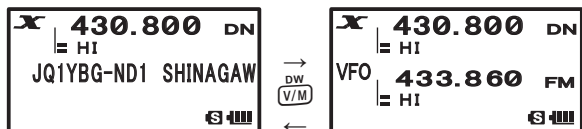
When [NUMERIC] is selected from [1 DISPLAY] → [2 TARGET LOCATION] in the setting mode, the latitude & longitude screen appears instead of the compass screen.

■ Confirming the frequency

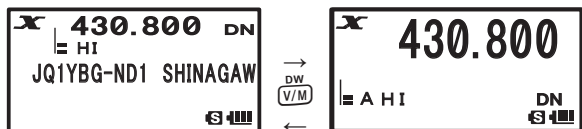
On the WIRES-X screen, press  to change to the frequency display screen that was displayed before using WIRES-X. Press  again to return to the WIRES-X screen.

Connecting to a Faraway Station Using WIRES-X

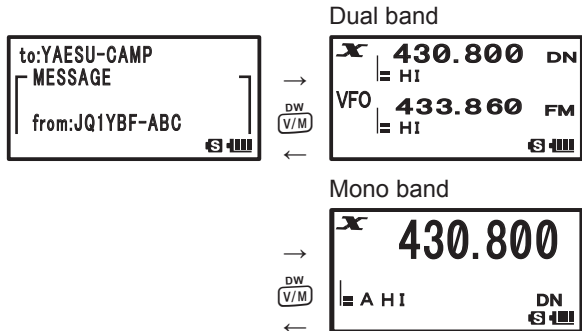
[Dual band screen]



[Single band screen]



[When viewing text data of the local node]



Returning to the initial screen

While on the WIRES-X screen, press and hold ^{MONO/DUAL}
(A/B) for 1 second or more to return to WIRES-X startup screen (initial screen).

Using the News Function of WIRES-X

When using WIRES-X in digital mode, you can transmit and receive messages (text data) and images; you can also record/play audio messages.

Viewing messages

You can read messages (text data) that are transmitted/received by either a local node, or a node or room on the Internet, from the FT1DR/DE transceiver.

Caution


To read messages, insert a microSD card into the FT1DR/DE in advance. For details, refer to "Using a microSD memory card" in the basic operating manual.

Viewing text data in a local node

- 1 Press and hold **[ENT]** for 1 second or more
The menu list of the local node will appear.
- 2 Rotate **[DIAL]** to select **[LOCAL NEWS]**
- 3 Press **[ENT]**
[Waiting] will be displayed.
If data reception is successful, a list of available sources at the local node will appear.
- 4 Select one, then press **[ENT]**
[Waiting] will be displayed.
If data reception is successful, menu options for the local node will appear.
- 5 Press **[ENT]**
The upload/download select screen will appear.
- 6 Rotate **[DIAL]** to select **[DOWNLOAD]**
- 7 Press **[ENT]**
The data type select screen will appear.



Connecting to a Faraway Station Using WIRES-X


8 Rotate  to select **[MESSAGE]**

9 Press 

[Waiting] will be displayed.


If data reception is successful, a list of available data messages will appear.


Tip The list will show data in reverse chronological order.

10 Rotate  to select a message

11 Press 

[Waiting] will be displayed.

If data reception is successful,  **DOWNLOAD** will be displayed. Data will be imported, and then the content of the message will appear.




12 Rotate  to select **[BACK]**

13 Press 


The data list will appear again.



Tips

- On the data content display screen, press  to display the sender's location information when the data was imported.
- On each screen, rotate  to the end to display **[BACK]**. Select **[BACK]** and press  to return to the previous screen.

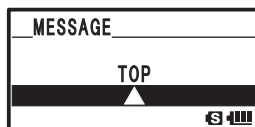
● Operations on the data list

When there is a large number of data items available, the list will be divided into smaller lists with 20 data items each. At the end of each list, the following icons will appear to allow you to move to the other lists. Rotate  to select a list, and press **[ENT]** to enter the list.

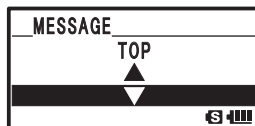
[TOP] Displays the beginning of the first list.



[▲] Displays the previous list.
Not available on the first list.



[▼] Displays the next list.
Not available on the last list.




■ Viewing text data on the WIRES-X server (INT NEWS)

You can read text information provided by Yaesu on the WIRES-X server from the FT1DR/DE transceiver.

1 Press and hold **[ENT]** for 1 second or more
The menu list of the local node will appear.




2 Rotate  to select **[INT NEWS]**
3 Press **[ENT]**
The menu of the WIRES-X server will appear.



4 Press **[ENT]**
The data type select screen will appear.




5 Rotate  to select **[MESSAGE]**
6 Press **[ENT]**
The data list will appear.




Tip The list will show data in reverse chronological order.

Connecting to a Faraway Station Using WIRES-X

7 Rotate  to select a message

8 Press 

[Waiting] will be displayed.

If data reception is successful,  **DOWNLOAD** will be displayed. Data will be imported; the content of the message will appear.

9 Rotate  to select **[BACK]**

10 Press 

The data list will appear again.



Viewing text data in a node or room on the Internet

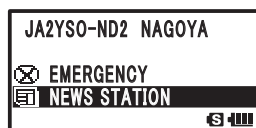
1 When the connection destination is displayed, press 

The menu list of the node or room on the Internet will appear.



2 Press 

The upload/download select screen will appear.




3 Rotate  to select **[DOWNLOAD]**

4 Press 

The data type select screen will appear.




5 Rotate  to select **[MESSAGE]**

6 Press 

The data list will appear.


Tip The list will show data in reverse chronological order.




7 Rotate  to select a message

8 Press 

[Waiting] will be displayed.

If data reception is successful,  **DOWNLOAD** will be displayed. Data will be imported, and then the content of the message will appear.


10 Rotate  to select **[BACK]**

11 Press 


The data list will appear again.



Tip

On the content display screen, press  to display the sender's location information when the data was imported.

Caution

When the category list or data list is displayed, if you press , the FT1DR/DE transceiver will be ready to transmit audio to the currently connected node or room on the Internet.

Importing images

You can import images transmitted/received by either a local node, or a node or room on the Internet onto the FT1DR/DE transceiver.

Cautions

- To import images, insert a microSD card into the FT1DR/DE in advance. For details, refer to “Using a microSD memory card” in the basic operating manual.
- Imported images cannot be viewed on the FT1DR/DE. To view images after importing, remove the microSD card from the FT1DR/DE, and then view the data on the card using a PC, etc.

Importing images from a local node


1 Follow steps 1 to 7 in “Viewing text data in a local node” to display the data type select screen

2 Rotate  to select **[PICT]**

3 Press 

The data list will appear.

Tip The list will show data in reverse chronological order.

4 Rotate  to select an image

5 Press 

The image data information will appear.

6 Rotate  to select **[DOWNLOAD]**

7 Press 

Data import will start and [DOWNLOAD] will flash.



After data import completes, [Completed] will appear, and then the data list will appear again.

- Tips**
- Data in unsupported formats cannot be imported. In such a case, [Not Completed] will appear, and then the screen will return to the data type select screen.
 - When the microSD card does not have enough free space, data cannot be imported. In such a case, [Memory is full] will appear, and then the screen will return to the data type select screen.

Importing images from the WIRES-X server

You can import images provided by Yaesu on the WIRES-X server onto the FT1DR/DE transceiver.


1 Follow steps 1 to 4 in “Viewing text data on the WIRES-X server” to display the data type select screen

2 Rotate  to select **[PICT]**

3 Press 

The data list will appear.

Tip The list will show data in reverse chronological order.

4 Rotate  to select an image

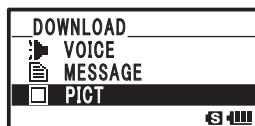
5 Press 

The image data information will appear.

6 Rotate  to select **[DOWNLOAD]**

7 Press 

Data import will start and **[DOWNLOAD]** will flash.



After data import completes, **[Completed]** will appear, and then the data list will appear again.

- Tips**
- Data in unsupported formats cannot be imported. In such a case, **[Not Completed]** will appear, and then the screen will return to the data type select screen.
 - When the microSD card does not have enough free space, data cannot be imported. In such a case, **[Memory is full]** will appear, and then the screen will return to the data type select screen.

Importing data from a node or room on the Internet

1 Follow steps 1 to 4 in “Viewing text data in a node or room on the Internet” to display the data type select screen

2 Rotate  to select **[PICT]**

3 Press 

The data list will appear.

Tip The list will show data in reverse chronological order.




Connecting to a Faraway Station Using WIRES-X

- Follow steps 4 to 7 “Importing data of a local node” to import data




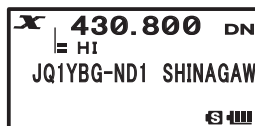
Caution



When the category list or data list is displayed, if you press , the FT1DR/DE will be ready to transmit audio to the currently connected node or room on the Internet.

Viewing imported data later



You can also view the imported data later.

- Press and hold  for 1 second or more
The menu list of the local node will appear.

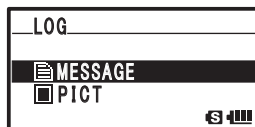




- Rotate  to select **[LOG]**
- Press 
The data type select screen will appear.





- Rotate  to select **[MESSAGE]** or **[PICT]**
- Press 
The data list will appear.

Tip The list will show data in reverse chronological order.



- Rotate  to select data
- Press 
The content of the message or image data information will appear.







- Rotate  to select **[Cancel]**
- Press 
The data list will appear again.

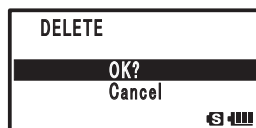


Deleting imported data





Deleting a file

- 1 Follow steps 1 to 7 “Viewing imported data later” to display the content of the message or image data information
- 2 Rotate  to select **[DELETE]**
- 3 Press 
- 4 Rotate  to select **[OK?]**
- 5 Press 

The file will be deleted, and then the data list will appear again.



Deleting all files

- 1 Follow steps 1 to 5 “Viewing imported data later” to display the data list
- 2 Rotate  to select **[DELETE ALL]**
- 3 Press 
- 4 Rotate  to select **[OK?]**
- 5 Press 

The files will be deleted, and then the data list will appear again.



Listening to audio messages

You can play and listen to audio files transmitted/received by a local node, or node or room on the Internet.

Audio files are categorized into the following 2 types:

EMERGENCY: Emergency information. Depending on the node or room settings, mandatory updates will be supplied to connected nodes and rooms in 5-minute intervals for 2 hours starting from the initial dissemination of the news.

NEWS STATION: Normal message. You can listen to the message anytime you (LOCAL NEWS) want as long as the message is not deleted from the node or room.

Caution

You can play and listen to audio files on the FT1DR/DE transceiver but you cannot save audio files to the FT1DR/DE.

Listening to the information in the local node

● Listening to emergency information


1 Follow steps 1 to 4 in “Viewing text data in a local node” to display the menu list of the local node

2 Rotate  to select **[EMERGENCY]**

3 Press 

The data list will appear.

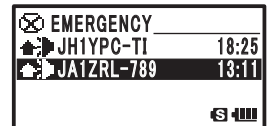
- Tips**
- The list will show data in reverse chronological order.
 - Data registered within the past 2 hours will flash.

4 Rotate  to select an audio file

5 Press 

Audio playback will start and the title of the audio file will flash.

When playback stops, the data list will appear again.




Tip

During audio playback, press  to display the sender's location information when the audio file was recorded.

● Listening to a routine message


1 Follow steps 1 to 7 in “Viewing text data in a local node” to display the data type select screen

2 Rotate  to select **[VOICE]**

3 Press 

The data list will appear.

Tip The list will show data in reverse chronological order.

4 Rotate  to select an audio file

5 Press 

Audio playback will start and the title of the audio file will flash.

When playback stops, the data list will appear again.



Tip

During audio playback, press  to display the sender's location information when the audio file was recorded.

■ Listening to the WIRES-X server (INT NEWS) information

You can play and listen to the audio data provided by Yaesu on the WIRES-X server.

● Listening to emergency information

1 Follow steps 1 to 3 in “Viewing text data on the WIRES-X server” to display the category list of the WIRES-X server


2 Rotate  to select **[EMERGENCY]**

3 Press 

The data list will appear.

Tips • The list will show data in reverse chronological order.

• Data registered within the past 2 hours will flash.

4 Rotate  to select an audio file

5 Press 

Audio playback will start and the title of the audio file will flash.


When playback stops, the data list will appear again.



Connecting to a Faraway Station Using WIRES-X

● Listening to a routine message


1 Follow steps 1 to 4 in “Viewing text data on the WIRES-X server” to display the data type select screen

2 Rotate  to select **[VOICE]**

3 Press 

The data list will appear.

Tip The list will show data in reverse chronological order.

4 Rotate  to select an audio file

5 Press 

Audio playback will start and the title of the audio file will flash.

When playback stops, the data list will appear again.



■ Listening to information on a node or room on the Internet

● Listening to emergency information

1 Follow step 1 in “Viewing text data in a node or room on the Internet” to display the menu list of the connection destination


2 Rotate  to select **[EMERGENCY]**

3 Press 

The data list will appear.

Tip • The list will show data in reverse chronological order.

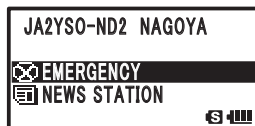
• Data registered within the past 2 hours will flash.

4 Rotate  to select an audio file

5 Press 

Audio playback will start and the title of the audio file will flash.

When playback stops, the menu list of the connection destination will appear again.




Tip

During audio playback, press  to display the sender's location information when the audio file was recorded.

● Listening to a routine message

1 Follow steps 1 to 4 in “Viewing text data in a node or room on the Internet” to display the data type select screen

2 Rotate  to select **[VOICE]**

3 Press 

The data list will appear.

Tip The list will show data in reverse chronological order.

4 Rotate  to select an audio file


5 Press 

Audio playback will start and the title of the audio file will flash.

When playback stops, the data list will appear again.



Tip

During audio playback, press  to display the sender's location information when the audio file was recorded.

Transmitting messages and images

You can transmit data such as messages (text data) and images saved on the microSD card inserted into the FT1DR/DE, to a local node, or a node or room on the Internet. You can also create a new message and transmit it.

Tips

- For details on microSD cards, refer to “Mounting and dismounting microSD memory card” in the basic operating manual.
- You can also transmit photos taken with the camera that is built into the optional speaker microphone “MH-85A11U”. For details on how to take photos, refer to “Taking picture with the optional camera mounted on speaker microphone” in the basic operating manual.

Transmitting data to a local node

● Creating and transmitting a message

1 Follow steps 1 to 5 in “Viewing text data in a local node” to display the upload or download select screen


2 Rotate  to select **[UPLOAD]**

3 Press 

The data type select screen will appear.



Connecting to a Faraway Station Using WIRES-X

4 Rotate  to select **[MESSAGE]**

5 Press 

The data list will appear.



6 Rotate  to select **[NEW]**

7 Press 

The character input screen will appear.






8 Use the keypad to enter a message

The characters you have just entered will appear on the top part of the screen.

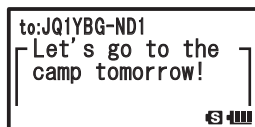
Tips • Refer to the following table and enter the message using up to 80 characters and numerals.

Number keys	Characters
1	1
2	abc2ABC
3	def3DEF
4	ghi4GHI
5	jkl5JKL
6	mno6MNO
7	pqr7PQRS
8	tuv8TUV
9	wxyz9WXYZ
0	0 -%/?!..#

- To modify characters, press . Pressing  will move the cursor to the left and erase a character.
- Pressing  will move the cursor to the right.
- You can switch between alphanumeric characters and Japanese katakana by selecting **[7 WIRES-X] → [1 LANGUAGE]**.

9 Press and hold  for 1 second or more

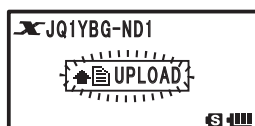
The entered content will be confirmed.






10 Rotate  to select **[UPLOAD]**

11 Press 

Message transmission will start and **[UPLOAD]** will flash. When the message has been transmitted, **[Completed]** will appear, and then the data list will appear again.



Tip

On the character input screen, rotate  to select the fixed phrase icon () and then press  to select one of the 19 fixed phrases.

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

● Transmitting a saved message or image

1 Follow steps 1 to 3 in “Creating and transmitting a message” to display the data type select screen

2 Rotate  to select [MESSAGE] or [PICT]

3 Press 

The data list will appear.



4 Rotate  to select a message or image

5 Press 

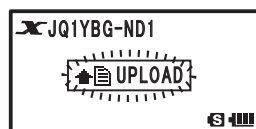
The data content will appear.



6 Rotate  to select [UPLOAD]

7 Press 

Message transmission will start and [UPLOAD] will flash. When the message has been transmitted, [Completed] will appear, and then the screen will return to the data type select screen.



■ Transmitting data to a node or room on the Internet

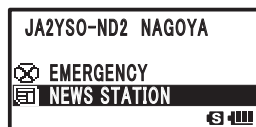
● Creating and transmitting a message

1 Display the menu list of the node or room on the Internet


2 Rotate  to select [NEWS STATION]

3 Press 

The upload/download select screen will appear.



Connecting to a Faraway Station Using WIRES-X

4 Rotate  to select **[UPLOAD]**

5 Press 

The data type select screen will appear.



6 Follow steps 4 to 11 in “Creating and transmitting a message” under “Transmitting data to a local node” to create and transmit a message

● Transmitting a saved message or image

1 Follow steps 1 to 5 in “Creating and transmitting a message” to display the data type select screen

2 Follow steps 2 to 7 in “Transmitting a saved message or image” under “Transmitting data to a local node” to select and transmit data

Transmitting an audio message

You can transmit audio messages spoken into the microphone as data to a local node, or node or room on the Internet.

Audio files are categorized into the following 2 types.

EMERGENCY: Emergency information. Depending on the node or room settings, mandatory updates will be supplied to connected nodes and rooms in 5-minute intervals for 2 hours starting from the initial dissemination of the news.

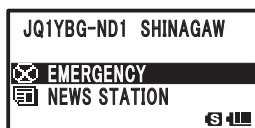
NEWS STATION: Routine message. You can listen to the message anytime you (LOCAL NEWS) want as long as the message is not deleted from the node or room.

Transmitting data to a local node

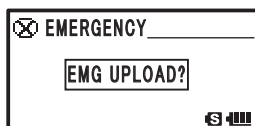
● Transmitting emergency information


1 Follow steps 1 to 5 in “Viewing text data in a local node” to display the upload or download select screen

2 Rotate  to select **[EMERGENCY]**

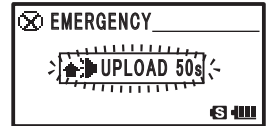


3 Press and hold 
[EMG UPLOAD?] is displayed and a 3-second beep can be heard.




Tip Releasing  will cancel upload of emergency information.

Continue to hold  until  **UPLOAD** is displayed and countdown begins.



- 4 Continue to hold  and speak into the [MIC]


Tip The maximum recording time is 1 minute.

Transmission of the message will begin. The screen will display  **UPLOAD** and the countdown will be flashing.

When the message has been transmitted, [Completed] will appear, and then the menu list of the local node will appear again.

● Transmitting a routine message


- 1 Follow steps 1 to 5 in “Viewing text data in a local node” to display the upload or download select screen

- 2 Rotate  to select [**UPLOAD**]

- 3 Press 

The data type select screen will appear.




- 4 Rotate  to select [**VOICE**]

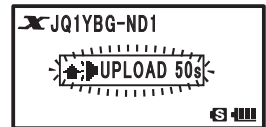


- 5 Speak into [MIC] while pressing 

Tip The maximum recording time is 1 minute.

Transmission of the message will begin. The screen will display  **UPLOAD** and the countdown will be flashing.

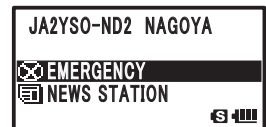
When the message has been transmitted, [Completed] will appear, and then the screen will return to the data type select screen.



■ Transmitting data to a node or room on the Internet

● Transmitting emergency information

- 1 Display the menu list of the node or room on the Internet



- 2 Follow steps 2 to 3 in “Transmitting emergency information” under “Transmitting data to a local node” to transmit a message

● Transmitting a routine message

1 Display the menu list of the node or room on the Internet

2 Press 

The upload/download select screen will appear.




3 Follow steps 3 to 6 in “Transmitting a routine message” under “Transmitting data to a local node” to transmit a message

Using WIRES-X and the GM Function Simultaneously


You can use WIRES-X even when using the GM (Group Monitor) function on the FT1DR/DE transceiver. By forming a group including local nodes and organizing the GM, group members can also utilize WIRES-X to communicate with a node or room on the Internet, including exchanging data.

This section explains how to use a local node which is registered as a group member. For details on how to use the GM functions, refer to the separate GM instruction manual available on our website.

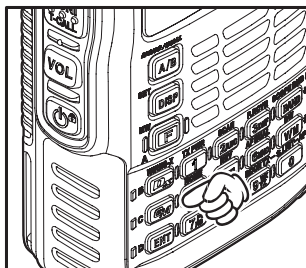
Cautions

- The local node must be a digital station and have the GM function enabled as well.
- Before using the GM functions, press  to set communication mode of band A (shown on the top part of the screen) to any mode other than [FM]. For details, refer to "Selecting Communication Mode" in the basic operating manual.

Registering a local node with a group

- 1 Check the call sign of the local node
- 2 Set band A to the frequency used for the GM operation
- 3 Press 

The group list will appear.




- 4 Rotate  to select [ALL]

- 5 Press 

Call signs, distance and direction to other nearby stations will appear.

Tip Stations within communication range are highlighted.


- 6 Rotate  to select a local node

- 7 Press 

The call sign of the local node will flash.

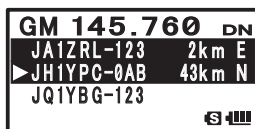
- 8 Press and hold  for 1 second or more

The group list will appear.

- 9 Rotate  to select a group where you want to register the local node

- 10 Press 

The local node will be added to the selected group



Using WIRES-X and the GM Function Simultaneously


11 Press

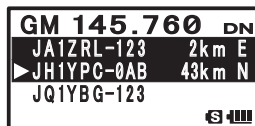
The screen will return to the frequency display screen.


Tip

Use the SYNC function after registering the local node as a group member, so that other members can check the local node from their stations. For details, refer to the separate GM instruction manual.

Using the News Function of WIRES-X in GM Operation

- 1 Rotate , select a node on the group list that lies within communication range




- 2 Press and hold  for 1 second or more
Menu options for the node will be displayed.




- 3 Follow steps outlined in "Using the News Function of WIRES-X".

Confirming the frequency

While on the group list screen or the WIRES-X screen, press  to switch to the frequency screen that was displayed before starting GM operation.

Pressing  again will return to the group list or WIRES-X screen.

Returning to the group list screen

While on the WIRES-X screen, press and hold  for 1 second or more to return to the group list screen.

WIRES-X Setting Mode Menus

Menu/Item	Functions	Setting items (Bold items are default settings.)
1 LANGUAGE	Changing the language used for setting mode and menu, etc.	JAPANESE/ ENGLISH
2 RPT/WIRES FREQ	Setting the transmission frequencies for repeaters/ WIRES-X Setting preset frequencies	MANUAL/PRESET 144.000 to 146.000 145.780 430.000 to 440.000 438.980
3 SEARCH SETUP	Setting the item order on the node & room lists	HISTORY/ACTIVITY
4 EDIT CATEGORY TAG	Editing category names	C1 to C5
5 REMOVE ROOM/NODE	Deleting registered nodes/rooms	C1 to C5 1 to 20 in total in each category


Using the WIRES-X Setting Mode

Setting the language displayed on the screen

You can select the language displayed on the screen from [JAPANESE] and [ENGLISH].

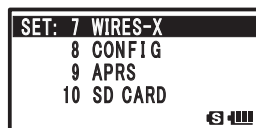
- 1 Press and hold  for 1 second or more

The FT1DR/DE will enter setting mode.

- 2 Rotate  to select [**7 WIRES-X**]

- 3 Press 

The menu list will appear.



- 4 Rotate  to select [**1 LANGUAGE**]

- 5 Press 

The selection items will appear.



- 6 Rotate  to select [JAPANESE] or [ENGLISH]



- 7 Press 


The screen will return to the frequency display screen.

Setting the transmission frequencies for repeaters/WIRES-X

You can select how to set the transmission frequency used when connecting to a local node.

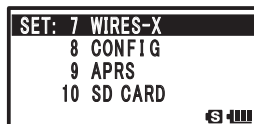
- 1 Press and hold  for 1 second or more

The FT1DR/DE will enter setting mode.

- 2 Rotate  to select **[7 WIRES-X]**

- 3 Press 

The menu list will appear.




- 4 Rotate  to select **[2 RPT/WIRES FREQ]**

- 5 Press 

The selection items will appear.




- 6 Rotate  to select [MANUAL] or [PRESET]

Rotating  switches between [MANUAL] and [PRESET].




MANUAL: Set the frequency every time you look for a local node.

PRESET: Use the preset frequency every time you look for a local node by setting the frequency in advance as follows:

Selecting [PRESET] and pressing  will display the frequency select screen.



- 7 Rotate  to select the frequency

Tip If you rotate , the frequency will change by the increments specified in setting mode. If you press  and rotate , the frequency will change by 1 MHz increments.



- 8 Press 

The screen will return to the frequency display screen.


Tip Press  to switch between preset frequency bands.

Setting the item order on the node & room lists

You can select the criteria to sort the list of connection destinations on the Internet.

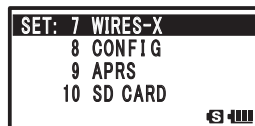
- 1 Press and hold  for 1 second or more

The FT1DR/DE will enter setting mode.

- 2 Rotate  to select **[7 WIRES-X]**

- 3 Press 

The menu list will appear.




- 4 Rotate  to select **[3 SEARCH SETUP]**

- 5 Press 

The selection items will appear.



- 6 Rotate  to select **[HISTORY]** or **[ACTIVITY]**

Rotating  switches between **[HISTORY]** and **[ACTIVITY]**.

HISTORY: Displays the list sorted in order of the connection destination that your station most recently connected to.

ACTIVITY: Displays the list sorted in descending order from the room with the most nodes connected. Nodes come after rooms.



- 7 Press 

The screen will return to the frequency display screen.

Editing a category name

You can name 5 categories where nodes and rooms are registered. Up to 16 alphanumeric characters can be used for each category name.


For details, refer to "Registering a node or room" (page 16).

Deleting the registered nodes and rooms

You can delete nodes and rooms registered in the 5 categories.

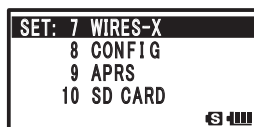
- 1 Press and hold  for 1 second or more

The FT1DR/DE will enter setting mode.

- 2 Rotate  to select **[7 WIRES-X]**

- 3 Press 

The menu list will appear.




- 4 Rotate  to select **[5 REMOVE ROOM/NODE]**

- 5 Press 

The category list will appear.



- 6 Rotate  to select a category

- 7 Press 

The connection destination list will appear



- 8 Rotate  to select a connection destination

- 9 Press 

The delete confirmation screen will appear.



- 10 Rotate  to select **[OK?]**

- 11 Press 

The connection destination will be deleted, and then the connection destination list will appear on the screen again. Destinations shown below the deleted connection destination will move up by one.

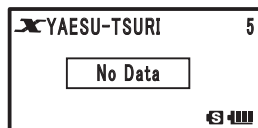


- 12 Press 

The screen will return to the frequency display screen.

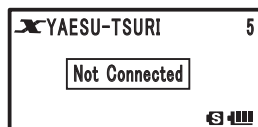
Error Message Guide

Error messages and explanations.



Displayed when trying to receive data from a local node or a connection node, but no data was available.

The error message will be displayed for 2 seconds, and then the previous screen will reappear.



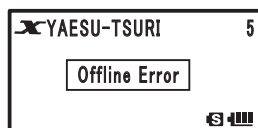
Displayed in one of the following scenarios:

The error message will be displayed for 2 seconds.

- Connection was lost between the local node and the connection destination node.
- While another transceiver was attempting to establish connection to a node via the local node, the node was already connected to another node.



Displayed for 2 seconds when trying to establish connection to a node via the local node, but the node itself was connected to another node (except when another transceiver is involved).



Displayed for 2 seconds when trying to establish connection to a node via the local node, but the node could not be found (power off, Internet disconnected, etc.).

YAESU

The radio

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