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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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.
What is WIRES-X?

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.
What is WIRES-X?

■ 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 FT1XDR/XDE/DR/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
What is WIRES-X?

■ 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 FT1XDR/XDE/DR/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:

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 in an analog station:
  Connect from your transceiver in analog mode.
  (Nodes on the Internet can connect to both analog and digital stations.)
Connecting in digital mode

- Ascertain the DSQ code or the DG-ID setting of the WIRES-X node station. Connecting to the WIRES-X node requires the transceiver DG-ID be set according to the DSQ code or the DG-ID code set on the WIRES-X node station.
- Confirm that the operating mode of WIRES-X node has been set to the C4FM digital mode.
- Before using WIRES-X, set the communication mode (modulation mode) to C4FM.

Connecting to a WIRES-X digital node (Recommended)

1. Rotate \( O \) 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 \( \text{ENT} \).

2. Set the transmit/receive DG-ID to the same ID number as the node station. For details, refer to the FT1XDR/XDE/DR/DE Operating Manual.

3. Transmit corresponding to the transmit/receive frequency.
   - Tips: If receiving the signal from the node, transmit it as is.
   - If not receiving the signal from the node, it is possible that the node station is not connected to the Internet \( \Rightarrow \) proceed to step “Connecting to the other node ID or the other room ID”.

Connecting to the other node ID or the other room ID

1. Rotate \( O \) 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 \( \text{ENT} \).

2. Set the WIRES-X DG-ID to the same ID number as the node station. Refer to “The DG-ID feature to access the WIRES-X node station” (Page 43).

3. Press and hold \( \text{W} \) 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.
Connecting to a Faraway Station Using WIRES-X

(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 DIAL. Call signs of nodes or rooms where you previously established connection will flash.

Tip While the [X] is flashing, press the WIR EX 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
Connecting to a Faraway Station Using WIRES-X

● Searching from the node & room lists

1. When the connection destination is displayed, press and hold ENT for 1 second or more.
   The menu list of the local node will appear.

2. Rotate DIAL to select [ALL]

3. Press ENT
   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 DIAL to select the connection destination

5. Press ENT
   The FT1XDR/XDE/DR/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 44).

**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 ENT for 1 second or more
   The menu list of the local node will appear.
Connecting to a Faraway Station Using WIRES-X

2 Rotate \( \text{DIAL} \) to select [SEARCH & DIRECT]

3 Press \( \text{ENT} \)
   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.

<table>
<thead>
<tr>
<th>Number keys</th>
<th>Characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>ABC2</td>
</tr>
<tr>
<td>3</td>
<td>DEF3</td>
</tr>
<tr>
<td>4</td>
<td>GHI4</td>
</tr>
<tr>
<td>5</td>
<td>JKL5</td>
</tr>
<tr>
<td>6</td>
<td>MNO6</td>
</tr>
<tr>
<td>7</td>
<td>PQRS7</td>
</tr>
<tr>
<td>8</td>
<td>TUV8</td>
</tr>
<tr>
<td>9</td>
<td>WXYZ9</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- To modify characters, press \( \text{UP} \). Pressing \( \text{UP} \) will move the cursor to the left and erase a character.
- Pressing \( \text{ENT} \) will move the cursor to the right.
- To select symbols such as “-” and “/”, rotate \( \text{DIAL} \).

5 Press and hold \( \text{ENT} \) for 1 second or more
   [SEARCH] will become selected.

6 Press \( \text{ENT} \)
   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 \( \text{DIAL} \), select [Cancel], press \( \text{ENT} \), then make changes on the input screen.
- If the name you entered is found, the FT1XDR/XDE/DR/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.
Connecting to a Faraway Station Using WIRES-X

7 Rotate (DIAL) to select the connection destination

8 Press (ENT)

The FT1XDR/XDE/DR/DE will initiate connection and [Waiting] will flash.

Tip Instead of (ENT), you can press (V) 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 44).

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 (ENT) 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 (DIAL) 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 44).

● Specifying the DTMF ID of the desired node or room

1 Press (MIN)

2 Press (DW/V/M)

The DTMF input screen will appear.

3 Enter the 5-digit DTMF ID

4 Press and hold (ENT) for 1 second or more

Tip Press (DW/V/M) to cancel input.
Connecting to a Faraway Station Using WIRES-X

Communicating with others

1 When the connection destination is displayed, press
   The FT1XDR/XDE/DR/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 FT1XDR/XDE/DR/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 FT1XDR/XDE/DR/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 DIAL to select [PRESET]  
Tips  
- Rotating DIAL switches between [MANUAL] and [PRESET].  
- The default setting is [MANUAL].

7 Press ENT
The frequency will appear.

8 Rotate DIAL to select the frequency  
Tips  
- Rotating DIAL changes the frequency by the increments specified in setting mode. Pressing WIRE and rotating DIAL changes the frequency by 1 MHz increments.  
- Pressing BAND will change the preset frequency band.  
- The default settings are 145.780 for band A and 438.980 for band B.

9 Press SET, 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 WIRE-X 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 \( \text{DIAL} \) to display [MANUAL]
   
   **Tip:** Rotating \( \text{DIAL} \) switches between [MANUAL] and [PRESET].

3. Press \( \text{SET/DISP} \), 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 \( \text{SET/DISP} \) for 1 second or more
   The FT1XDR/XDE/DR/DE will enter setting mode.

2. Rotate \( \text{DIAL} \) to select [7 WIRES-X]

3. Press \( \text{ENT} \)
   The menu list will appear.

4. Rotate \( \text{DIAL} \) to select [4 EDT CATEGORY TAG]

5. Press \( \text{ENT} \)
   The category name setting screen will appear.

6. Rotate \( \text{DIAL} \) to select one of [C1] to [C5].

7. Press \( \text{ENT} \)
   The character input screen will appear.
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.

<table>
<thead>
<tr>
<th>Number keys</th>
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</tr>
<tr>
<td>4</td>
<td>ghi4GHI</td>
</tr>
<tr>
<td>5</td>
<td>jkl5JKL</td>
</tr>
<tr>
<td>6</td>
<td>mno6MNO</td>
</tr>
<tr>
<td>7</td>
<td>pqr7PQRS</td>
</tr>
<tr>
<td>8</td>
<td>tuv8TUV</td>
</tr>
<tr>
<td>9</td>
<td>wxyz9WXYZ</td>
</tr>
<tr>
<td>0</td>
<td>0_-%/?!.#:#</td>
</tr>
</tbody>
</table>

- To modify characters, press \( \texttt{ENT} \). Pressing \( \texttt{ENT} \) will move the cursor to the left and erase a character.
- Pressing \( \texttt{ENT} \) will move the cursor to the right.
- To select symbols such as “-” and “/”, rotate \( \texttt{DIAL} \).
- You can switch between alphanumeric characters and Japanese katakana by selecting \([7 \text{ WIRES-X}] \rightarrow [1 \text{ LANGUAGE}]\).

9 Press and hold \( \texttt{ENT} \) 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 \( \texttt{SET} \), 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 \( \texttt{ENT} \)
The menu list of the connection destinations will appear.

3 Rotate \( \texttt{DIAL} \) to select \[ADD\]
4 Press \( \texttt{ENT} \)
The category list will appear.
Connecting to a Faraway Station Using WIRES-X

5 Rotate \( \text{DIAL} \) to select a category
6 Press \( \text{ENT} \)

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 \( \text{DIAL} \) to select [BACK]
8 Press \( \text{ENT} \)

The screen will return to the menu options.

**Connecting to the registered node or room**

1 Press and hold \( \text{ENT} \) for 1 second or more

The menu list of the local node will appear.

2 Rotate \( \text{DIAL} \) to select one of [C1] to [C5]
3 Press \( \text{ENT} \)

[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 \( \text{DIAL} \) to select the connection destination
5 Press \( \text{ENT} \)

Connection will begin and [Waiting] will flash.

Tip Instead of pressing \( \text{ENT} \), press \( \text{DIAL} \) 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 44).
Connecting to a Faraway Station Using WIRES-X

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.

● Disconnecting from a node or room

1 Press and hold [BAND] 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 [WIRE-X] 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 [WIRE-X] to switch to analog FM mode
Tip For details, refer to “Switching the communication mode” in the basic operating manual.
3 While pressing [PTT], press the DTMF ID key of the node or room where you want to connect
The DTMF code will be delivered.
4 Release [PTT], and keep the FT1XDR/XDE/DR/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 FT1XDR/XDE/DR/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 [PTT]. For details, refer to “Using the DTMF Function” in the basic operating manual.
Connecting to a Faraway Station Using WIRES-X

Communicating with others

1 Press PTT
   The FT1XDR/XDE/DR/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 PTT
   The FT1XDR/XDE/DR/DE will return to receive mode.

Disconnecting from a node or room

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

Press SET 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.
Connecting to a Faraway Station Using WIRES-X

Confirming the frequency

On the WIRES-X screen, press \text{V/M} to change to the frequency display screen that was displayed before using WIRES-X. Press \text{V/M} again to return to the WIRES-X screen.

[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 \text{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 FT1XDR/XDE/DR/DE transceiver.

Caution

To read messages, insert a microSD card into the FT1XDR/XDE/DR/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.
Using the News Function of WIRES-X

8 Rotate to select [MESSAGE]

9 Press [ENT]

[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 [ENT]

[Waiting] will be displayed.
If data reception is successful, will be displayed. Data will be imported, and then the content of the message will appear.

12 Rotate to select [BACK]

13 Press [ENT]

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 [ENT] to return to the previous screen.
Using the News Function of WIRES-X

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 (DIAL) 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 FT1XDR/XDE/DR/DE transceiver.

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

2. Rotate (DIAL) 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 (DIAL) to select [MESSAGE]

6. Press (ENT)
   The data list will appear.
   **Tip** The list will show data in reverse chronological order.
Using the News Function of WIRES-X

7 Rotate  to select a message
8 Press  [ENT]
   [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  [ENT]
   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  [ENT]
   The menu list of the node or room on the Internet will appear.
2 Press  [ENT]
   The upload/download select screen will appear.
3 Rotate  to select [DOWNLOAD]
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.
7 Rotate $\mathbb{D}$ to select a message
8 Press $\mathbf{ENT}$
   [Waiting] will be displayed.
   If data reception is successful, $\mathbf{\text{DOWNLOAD}}$ will be
   displayed. Data will be imported, and then the content of
   the message will appear.
9 Rotate $\mathbb{D}$ to select [BACK]
10 Press $\mathbf{ENT}$
    The data list will appear again.

**Tip**
On the content display screen, press $\mathbb{M}$ 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 $\mathbb{M}$, the FT1XDR/XDE/DR/DE transceiver
will be ready to transmit audio to the currently connected node or room on the Internet.
Using the News Function of WIRES-X

Importing images

You can import images transmitted/received by either a local node, or a node or room on the Internet onto the FT1XDR/XDE/DR/DE transceiver.

Cautions

- To import images, insert a microSD card into the FT1XDR/XDE/DR/DE in advance. For details, refer to “Using a microSD memory card” in the basic operating manual.
- Imported images cannot be viewed on the FT1XDR/XDE/DR/DE. To view images after importing, remove the microSD card from the FT1XDR/XDE/DR/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.
Using the News Function of WIRES-X

Importing images from the WIRES-X server

You can import images provided by Yaesu on the WIRES-X server onto the FT1XDR/XDE/DR/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 \[DIAL\] to select [PICT].
3. Press \[ENT\].
   The data list will appear.
   **Tip** The list will show data in reverse chronological order.
4. Rotate \[DIAL\] to select an image.
5. Press \[ENT\].
   The image data information will appear.
6. Rotate \[DIAL\] to select [DOWNLOAD].
7. Press \[ENT\].
   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 \[DIAL\] to select [PICT].
3. Press \[ENT\].
   The data list will appear.
   **Tip** The list will show data in reverse chronological order.
Using the News Function of WIRES-X

4 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 FT1XDR/XDE/DR/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.

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

2 Rotate to select [LOG]
3 Press
   The data type select screen will appear.

4 Rotate to select [MESSAGE] or [PICT]
5 Press
   The data list will appear.
   Tip  The list will show data in reverse chronological order.

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

8 Rotate to select [Cancel]
9 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 [DIAL] to select [DELETE].
  3. Press [ENT].
  4. Rotate [DIAL] to select [OK?]?
  5. Press [ENT].
     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 [DIAL] to select [DELETE ALL].
  3. Press [ENT].
  4. Rotate [DIAL] to select [OK?]?
  5. Press [ENT].
     The files will be deleted, and then the data list will appear again.
Using the News Function of WIRES-X

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** (LOCAL NEWS): Normal message. You can listen to the message anytime you 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 FT1XDR/XDE/DR/DE transceiver but you cannot save audio files to the FT1XDR/XDE/DR/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 [DIAL] to select [EMERGENCY]

3. Press [ENT]

   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 [DIAL] to select an audio file

5. Press [ENT]

   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 [SET] to display the sender’s location information when the audio file was recorded.
Using the News Function of WIRES-X

- **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 [DIAL] to select [VOICE]
  3. Press [ENT]
     The data list will appear.
     Tip: The list will show data in reverse chronological order.
  4. Rotate [DIAL] to select an audio file
  5. Press [ENT]
     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 [SET] 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 [DIAL] to select [EMERGENCY]
  3. Press [ENT]
     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 [DIAL] to select an audio file
  5. Press [ENT]
     Audio playback will start and the title of the audio file will flash.
     When playback stops, the data list will appear again.
Using the News Function of 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 \( \text{DIAL} \) to select [VOICE]
3. Press \( \text{ENT} \)
   - The data list will appear.
   - **Tip** The list will show data in reverse chronological order.
4. Rotate \( \text{DIAL} \) to select an audio file
5. Press \( \text{ENT} \)
   - 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 \( \text{DIAL} \) to select [EMERGENCY]
3. Press \( \text{ENT} \)
   - 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 \( \text{DIAL} \) to select an audio file
5. Press \( \text{ENT} \)
   - 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 \( \text{SET} \) to display the sender’s location information when the audio file was recorded.
Using the News Function of WIRES-X

- 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 [DIAL] to select [VOICE]
  3. Press [ENT]
     The data list will appear.
     Tip: The list will show data in reverse chronological order.
  4. Rotate [DIAL] to select an audio file
  5. Press [ENT]
     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 [SET] 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 FT1XDR/XDE/DR/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 [DIAL] to select [UPLOAD]
  3. Press [ENT]
     The data type select screen will appear.
Using the News Function of WIRES-X

4 Rotate \( \text{DIAL} \) to select [MESSAGE]
5 Press \( \text{ENT} \)
   The data list will appear.

6 Rotate \( \text{DIAL} \) to select [NEW]
7 Press \( \text{ENT} \)
   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.

<table>
<thead>
<tr>
<th>Number keys</th>
<th>Characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>abc2ABC</td>
</tr>
<tr>
<td>3</td>
<td>def3DEF</td>
</tr>
<tr>
<td>4</td>
<td>ghi4GHI</td>
</tr>
<tr>
<td>5</td>
<td>jkl5JKL</td>
</tr>
<tr>
<td>6</td>
<td>mno6MNO</td>
</tr>
<tr>
<td>7</td>
<td>pqrs7PQRS</td>
</tr>
<tr>
<td>8</td>
<td>tuv8TUV</td>
</tr>
<tr>
<td>9</td>
<td>wxyz9WXYZ</td>
</tr>
<tr>
<td>0</td>
<td>0_-/%?!:.#</td>
</tr>
</tbody>
</table>

   • To modify characters, press \( \text{F} \). Pressing \( \text{F} \) will move the cursor to the left and erase a character.
   • Pressing \( \text{ENT} \) will move the cursor to the right.
   • You can switch between alphanumeric characters and Japanese katakana by selecting [7 WIRES-X] \( \rightarrow \) [1 LANGUAGE].

9 Press and hold \( \text{ENT} \) for 1 second or more
   The entered content will be confirmed.

10 Rotate \( \text{DIAL} \) to select [UPLOAD]
11 Press \( \text{ENT} \)
   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 \( \text{O} \) to select the fixed phrase icon ( ), and then press \( \text{ENT} \) to select one of the 19 fixed phrases.

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>QRM</td>
<td>8</td>
<td>Good job</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>QRP</td>
<td>9</td>
<td>Good day</td>
<td>16</td>
</tr>
<tr>
<td>3</td>
<td>QRT</td>
<td>10</td>
<td>Good evening</td>
<td>17</td>
</tr>
<tr>
<td>4</td>
<td>QRX</td>
<td>11</td>
<td>Good night</td>
<td>18</td>
</tr>
<tr>
<td>5</td>
<td>QRZ</td>
<td>12</td>
<td>Send messages</td>
<td>19</td>
</tr>
<tr>
<td>6</td>
<td>QSY</td>
<td>13</td>
<td>Send pictures</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Good morning</td>
<td>14</td>
<td>on my way</td>
<td></td>
</tr>
</tbody>
</table>

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 \( \text{O} \) to select [MESSAGE] or [PICT].
3. Press \( \text{ENT} \).
   The data list will appear.
4. Rotate \( \text{O} \) to select a message or image.
5. Press \( \text{ENT} \).
   The data content will appear.
6. Rotate \( \text{O} \) to select [UPLOAD].
7. Press \( \text{ENT} \).
   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 \( \text{O} \) to select [NEWS STATION].
3. Press \( \text{ENT} \).
   The upload/download select screen will appear.
Using the News Function of WIRES-X

4 Rotate [DIAL] to select [UPLOAD]
5 Press [ENT]
   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 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 [DIAL] to select [EMERGENCY]

3 Press and hold [PTT]
   [EMG UPLOAD?] is displayed and a 3-second beep can be heard.
   Tip Releasing [PTT] will cancel upload of emergency information.
Using the News Function of WIRES-X

Continue to hold \[\text{p} \] until \[\text{UPLOAD} \] is displayed and countdown begins.

4. Continue to hold \[\text{p} \] and speak into the [MIC]
   Tip The maximum recording time is 1 minute.
   Transmission of the message will begin. The screen will display \[\text{UPLOAD} \] 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 \[\text{O} \] to select [UPLOAD]
3. Press \[\text{ENT} \]
   The data type select screen will appear.
4. Rotate \[\text{O} \] to select [VOICE]
5. Speak into [MIC] while pressing \[\text{p} \]
   Tip The maximum recording time is 1 minute.
   Transmission of the message will begin. The screen will display \[\text{UPLOAD} \] 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
Using the News Function of WIRES-X

- Transmitting a routine message
  1. Display the menu list of the node or room on the Internet
  2. Press \text{ENT}
      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
### WIRES-X Setting Mode Menus

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<th>Functions</th>
<th>Setting items (Bold items are default settings.)</th>
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<td>Changing the language used for setting mode and menu, etc.</td>
<td>JAPANESE/ENGLISH</td>
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<td>2 RPT/WIRES FREQ</td>
<td>Setting the transmission frequencies for repeaters/WIRES-X</td>
<td>MANUAL/PRESET</td>
</tr>
<tr>
<td></td>
<td>Setting preset frequencies</td>
<td>144.000 to 146.000</td>
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<tr>
<td></td>
<td></td>
<td>430.000 to 440.000</td>
</tr>
<tr>
<td>3 SEARCH SETUP</td>
<td>Setting the item order on the node &amp; room lists</td>
<td>HISTORY/ACTIVITY</td>
</tr>
<tr>
<td>4 EDIT CATEGORY TAG</td>
<td>Editing category names</td>
<td>C1 to C5</td>
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<tr>
<td>5 REMOVE ROOM/NODE</td>
<td>Deleting registered nodes/rooms</td>
<td>C1 to C5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 to 20 in total in each category</td>
</tr>
<tr>
<td>6 DG-ID</td>
<td>Setting the DG-ID number</td>
<td>AUTO / 01 to 99</td>
</tr>
</tbody>
</table>

### 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 **SET** for 1 second or more
   - The FT1XDR/XDE/DR/DE will enter setting mode.
2. Rotate **DIAL** to select [7 WIRES-X]
3. Press **ENT**
   - The menu list will appear.
4. Rotate **DIAL** to select [1 LANGUAGE]
5. Press **ENT**
   - The selection items will appear.
6. Rotate **DIAL** to select [JAPANESE] or [ENGLISH]
7. Press **EXIT**
   - 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 \( \text{SET} \) for 1 second or more
   The FT1XDR/XDE/DR/DE will enter setting mode.

2. Rotate \( \text{DIAL} \) to select [7 WIRES-X]

3. Press \( \text{ENT} \)
   The menu list will appear.

4. Rotate \( \text{DIAL} \) to select [2 RPT/WIRES FREQ]

5. Press \( \text{ENT} \)
   The selection items will appear.

6. Rotate \( \text{DIAL} \) to select [MANUAL] or [PRESET]
   Rotating \( \text{DIAL} \) 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 \( \text{ENT} \) will display the frequency select screen.

7. Rotate \( \text{DIAL} \) to select the frequency
   Tip: If you rotate \( \text{DIAL} \), the frequency will change by the increments specified in setting mode. If you press \( \text{UP} \) and rotate \( \text{DIAL} \), the frequency will change by 1 MHz increments.

8. Press \( \text{PTT} \)
   The screen will return to the frequency display screen.
   Tip: Press \( \text{MORE} \) \& \( \text{Band} \) 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 SET DISP for 1 second or more
   The FT1XDR/XDE/DR/DE will enter setting mode.

2. Rotate DIAL to select [7 WIRES-X]

3. Press ENT
   The menu list will appear.

4. Rotate DIAL to select [3 SEARCH SETUP]

5. Press ENT
   The selection items will appear.

6. Rotate DIAL to select [HISTORY] or [ACTIVITY]
   Rotating DIAL 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 PTT
   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 [SET Disp] for 1 second or more
   The FT1XDR/XDE/DR/DE will enter setting mode.
2. Rotate [Dial] to select [7 WIRES-X]
3. Press [ENT]
   The menu list will appear.

4. Rotate [Dial] to select [5 REMOVE ROOM/NODE]
5. Press [ENT]
   The category list will appear.

6. Rotate [Dial] to select a category
7. Press [ENT]
   The connection destination list will appear.

8. Rotate [Dial] to select a connection destination
9. Press [ENT]
   The delete confirmation screen will appear.

10. Rotate [Dial] to select [OK?]
11. Press [ENT]
    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 [PTT]
    The screen will return to the frequency display screen.
The DG-ID feature to access the WIRES-X node station

When accessing to the WIRES-X node station, the connecting node station may be selected in accordance with the DG-ID setting of the node stations.

1. Press and hold the SET button for 1 second or more
   The FT1XDR/XDE/DR/DE will enter setting mode.

2. Rotate the DIAL to select [7 WIRES-X]

3. Press the ENT button
   The menu list will appear.

4. Rotate the DIAL to select [6 DG-ID]

5. Press the ENT button

6. Rotate the DIAL to select the DG-ID setting
   01 to 99: Only nodes matching the set DG-ID number may be connected.
   AUTO: Only open nodes, set to the DG-ID number “00” may be connected.

7. Press the PTT button
   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.).