ID-31A/ID-31E **D-STAR Quick Guide**

[DR mode]

The DR (D-STAR® Repeater) mode is one mode you can use for D-STAR® repeater operation. In this mode, you can select the preprogrammed repeater or frequency in "FROM" (the access repeater or simplex), and UR call sign in "TO" (destination), as shown on page 3. The DR mode uses the programmed Repeater List as it's data source.

Front, top and side panels



This quick guide assumes that your own call sign has already been registered at a gateway repeater, and uses the preset repeater list for the descriptions. *If needed, ask the gateway repeater administrator for call sign registration instructions.





* Set the repeater node to 'B' for the 430 MHz band, outside Japan. See page 3-1 in Advanced Instructions, for details.

D-STAR Terms

D-STAR:

Digital Smart Technologies for Amateur Radio, an open protocol.

Area:

Communication range that covers a D-STAR repeater.

Gateway repeater:

A D-STAR repeater. connected to the Internet.

Local CQ:

To call a station through your local area (access) repeater.

Gateway CQ:

To call through your local area (access) repeater, repeater gateway, and the Internet to your destination repeater.

Register and set your own Call sign

You can store up to 6 "MY" call signs, [MY1]-[MY6] If necessary, enter a note of up to 4 characters, such as the model of the transceiver, name, area indication, and so on, after your call sign.



To reply a received call from your access repeater

Select your access repeater



*By selecting a repeater name, repeater call sign, frequency, duplex and offset settings are automatically set.

*The repeater list that is used in the description, may differ with your transceiver's preset contents.

Example: Program "JA3YUA/ID31" into the call sign memory channel [MY1].

2. Program your own call sign (programming mode)
 ⑦ Rotate [DIAL] to select the first digit. (Example: J) A to Z, 0 to 9, / and (Space) can be se- lected. If you make a mistake, push [CLR] (MYI) to delete the selected character, number or symbol. Push D-pad(→) to enter a space or rotate [DIAL] to insert a
 space to a desired . ⑧ Push D-pad(→) to move the cursor to the second digit.
 Repeat steps ⑦ and ⑧ to enter your own MY CALL SIGN (MY1) call sign of up to 8 characters, including spaces. (Example: First, J, then A, then 3, then Y, then U, then A)
To program a note (up to 4 characters, for operating radio type, area, and so on.), go to step (1), otherwise go to step (2).
(i) Push D-pad(\rightarrow) several times to move the cursor to the right of \checkmark "/".
1) Repeat steps ⑦ and ⑧ to program the de- sired 4 character note. (Example: ID31)
(1) Push D-pad(Ent) to set the programmed MY CALL SIGN 1/3 (1) Call sign and note. 11:JA3YUA //D31 (1) Push D-pad(Ent) again to return to the MY 2:
 CALL SIGN screen. Two beeps sound. Push [MENU] [MENU] to exit to the MENU screen.

Reply to a received call (One-touch Reply)

The calling station's call sign can be captured to quickly and easily reply.



• The arrow icon on "TO" disappears.

Operation

④ Hold down [PTT] to transmit.



(1) Push D-pad(11) to select "TO," and then push D-pad(Ent). (2) Push D-pad(1) to select "Local CQ," and then push D-pad(Ent). • Local area call 12:00 FROM: Hirano430 repeater TO: Local CQ TO CQCQCQ ical CQ (JP3YHH A*) (CQCQCQ) Gateway Your Call Sign Rom Hiran o430 RX History Settings are complete **JA3YUA** 2 Push D-pad(11) to select the item, and then push D-pad(Ent). Gateway call "Gateway CQ" → "11:Japan" → "Hamacho430" FROM: Hirano430 repeater TO: Hamacho430 RPT LIST GRP 11 TO SELECT (JP3YHH A*) (JP1YIU A*) Tokyo Denki UNV Hamacho430 ocal CQ IP1YTH atewav C iugamo Your Call Sigr FROM Hirano430 RX History Tokyo JP1YIU Settings are complete REPEATER GROUP 1/1 Ť 02: Asia JA3YU 09:German Select "11: Japan" l1:Japar where "Hamacho430" 16: USA Midwest repeater is listed. • "Your Call Sign" setting 2 Push D-pad(11) to select the item, and then push D-pad(Ent). FROM: Hirano430 repeater "Your Call Sign" → "TOM" TO: TOM (JP3YHH A*) (JM1ZLK) <u>YOUR CAL</u> MIKE TO SELECT TOM Local CO. 8 JMIZLK Gateway CQ ΓΟΜ our Call Sign JOHN FROM Hirano430 → M1ZLK M١ "TOM" setting The call sign of the JA3YU/ completed. selected station is displayed. * Set the repeater node to 'B' for the 430 MHz band, outside Japan. See page 3-1 in Advanced Instructions, for details. The following destination station/repeater setting methods are also . When you call an individual station call sign through a gateway, possible. See the ' "TO" (Destination) setting' described in Advanced Instructions, section 3, for details, the signal is automatically sent to the last repeater that the station Using [DIAL] accessed. Setting from the RX History

So, even if you don't know where the station is, you can make a call using call sign routing.

· See 'Your (destination) call sign programming' described in Advanced Instructions, section 4, for details.

You can save the temporary settings to memory channel

mode



About "UR?" and "RPT?" indications

"UR?" appears

received.

The call was successfully sent, but no station's signal was immediately received.

The listening station may missed your call, so after waiting for a while, try calling again.



· Setting from the TX History

• Direct Input (UR)

• Direct Input (RPT)



The destination repeater is busy, when making a gateway communication from Hirano430 to Hamacho430.

3

12:00

12:00

Operation



"RPT?" or "RX" appears

The destination repeater was not found, there is a programming error, or the destination repeater was busy. When "RPT?" is displayed, wait for a while, then try calling again, because in the gateway call, a signal is sent even if the destination repeater is busy.

- NOTE: "RPT?" is displayed when;
 the repeater call sign programming is error.
 your own call sign is not registered on a gateway repeater, or the registration contents is not matched.
 the destination call sign is not registered on a gateway repeater, or the registration contents is not matched.
 the destination repeater cannot be accessed.

i "RX" is displayed when a blank MY call sign memory 4 Whas been selected.