ICOM Installation guide ②

RoIP GATEWAY

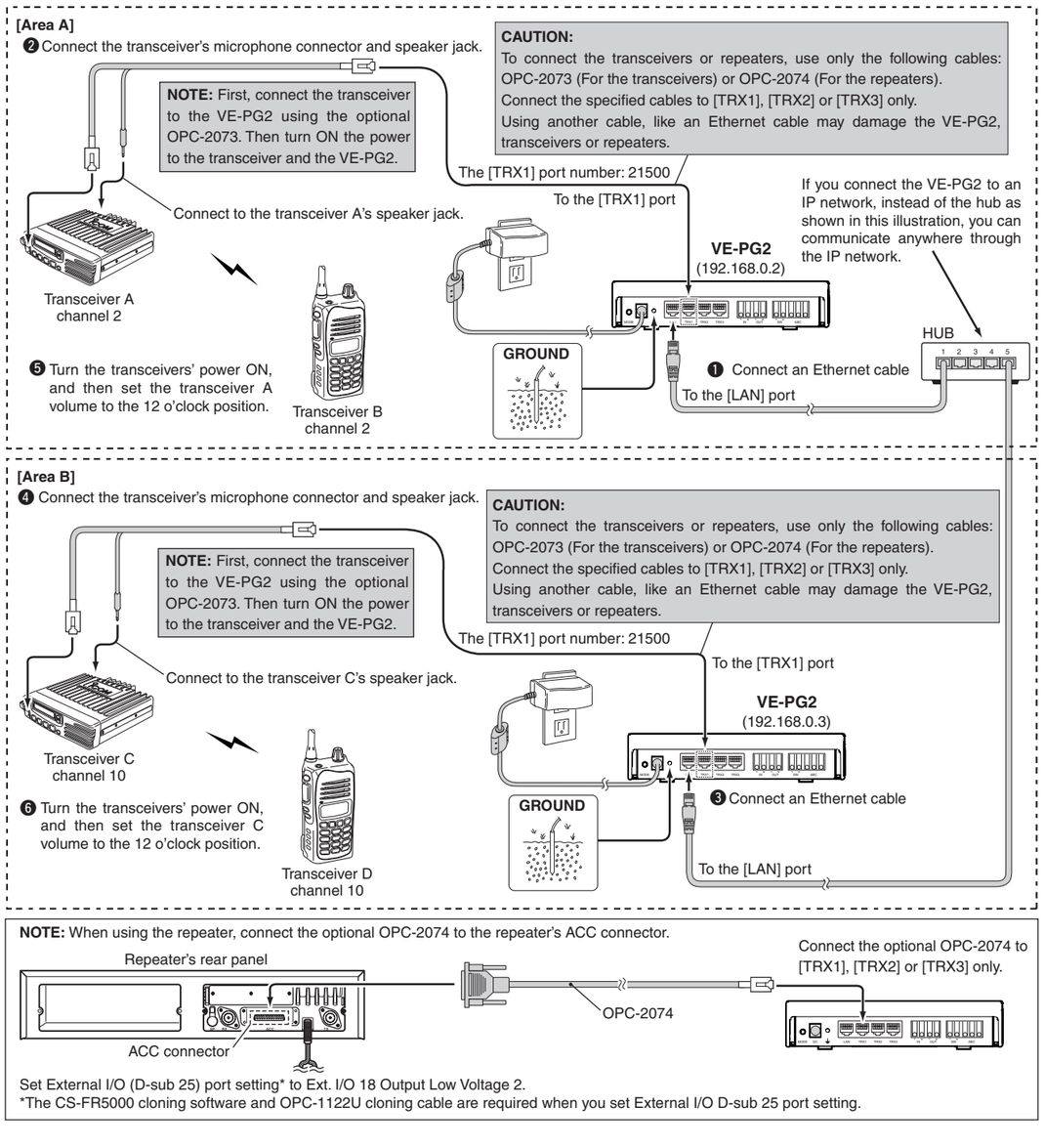
VE-PG2

This guide describes bridge and selective call mode connection examples.
Read this guide after reading "Installation guide ①".

Step1: Installation guide ① → **Step2: Installation guide ②**

1. Connects transceivers and LAN to the VE-PG2 — Bridge mode setting

- A static (fixed) IP address must be set to the VE-PG2, and connects as figure below. (Refer to the Installation guide ① for details.)
- For the Unicast mode, after making the connections as illustrated below, set the VE-PG2 as described in the page to the right.
- Refer to the Installation guide ① for details of the Multicast mode and the Unicast modes.
- Connect the VE-PG2 according to steps ❶ – ❻ in the illustration below.

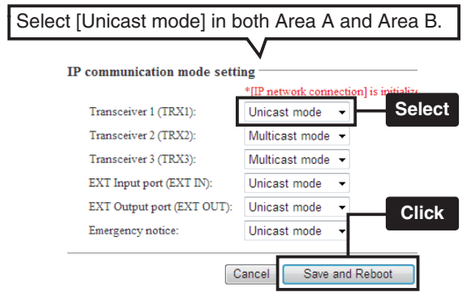


2 Sets the VE-PG2 to the Bridge mode (Unicast mode) — Bridge mode setting

1. "IP communication mode setting" setting

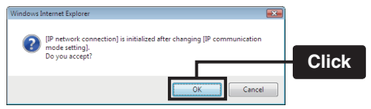
1

①After making the connections as shown to the left, turn transceivers A and C power ON, then open the setting screen with your browser (see Installation guide ①).
②Click **"Operating mode" in the "Connection setting", and select "Unicast mode" in the "Transceiver 1 (TRX1):" of "IP communication mode setting".**
③Click [Save and Reboot].



2

The dialog shown below appears, and then click [OK].
NOTE: "IP network connection" is initialized after changing "IP communication mode setting".
Save the VE-PG2 setting as a setting file, if necessary.
Refer to the instruction manual (PDF file: Download from the Icom web site) for details.



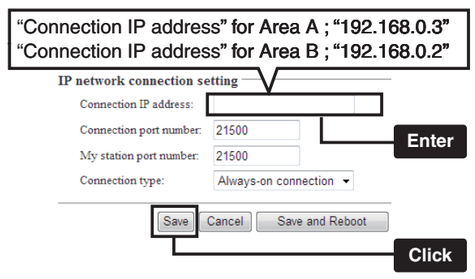
3

Approximately 30 seconds after clicking [OK], move the mouse pointer to [BACK] and click. After system reboots, the setting screen will open.

2. "IP network connection"–"Tranceiver 1 (TRX1)" setting

1

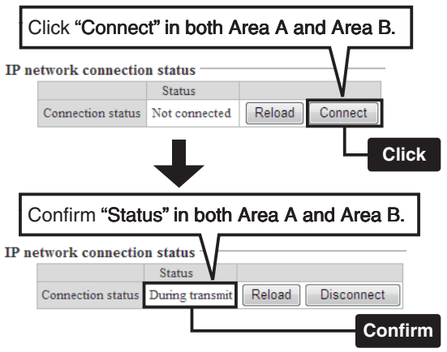
①Click **"Transceiver 1 (TRX1)" in "IP network connection setting" in the "Connection setting".**
②Input the Connection IP address in the **"IP network connection".**
(Example) Input **"192.168.0.3" to VE-PG2s in Area A, and "192.168.0.2" to VE-PG2s in Area B** illustrated to the left.
③Click [Save].



2. "IP network connection"–"Tranceiver 1 (TRX1)" setting (Continued)

2

Click [Connect] in **"IP network connection status"**, and then confirm that **"During transmit" appears in "Status".**



3. Transceiver setting

This setting example refers to the connections in the far top left illustration.

1 Set transceivers A and C AF volume to the 12 o'**clock** position.

2 Turn transceivers B and D power ON, and select the same operating channel as transceivers A and C.
- Set the same channel for all the transceivers, to communicate with transceivers A and C.
  See the transceiver's instruction manual when setting the channel, if necessary.
  (Example) In the illustration to the left, set transceiver A and B (Area A) to channel 2, and transceiver C and D (Area B) to channel 10.

4. How to communicate

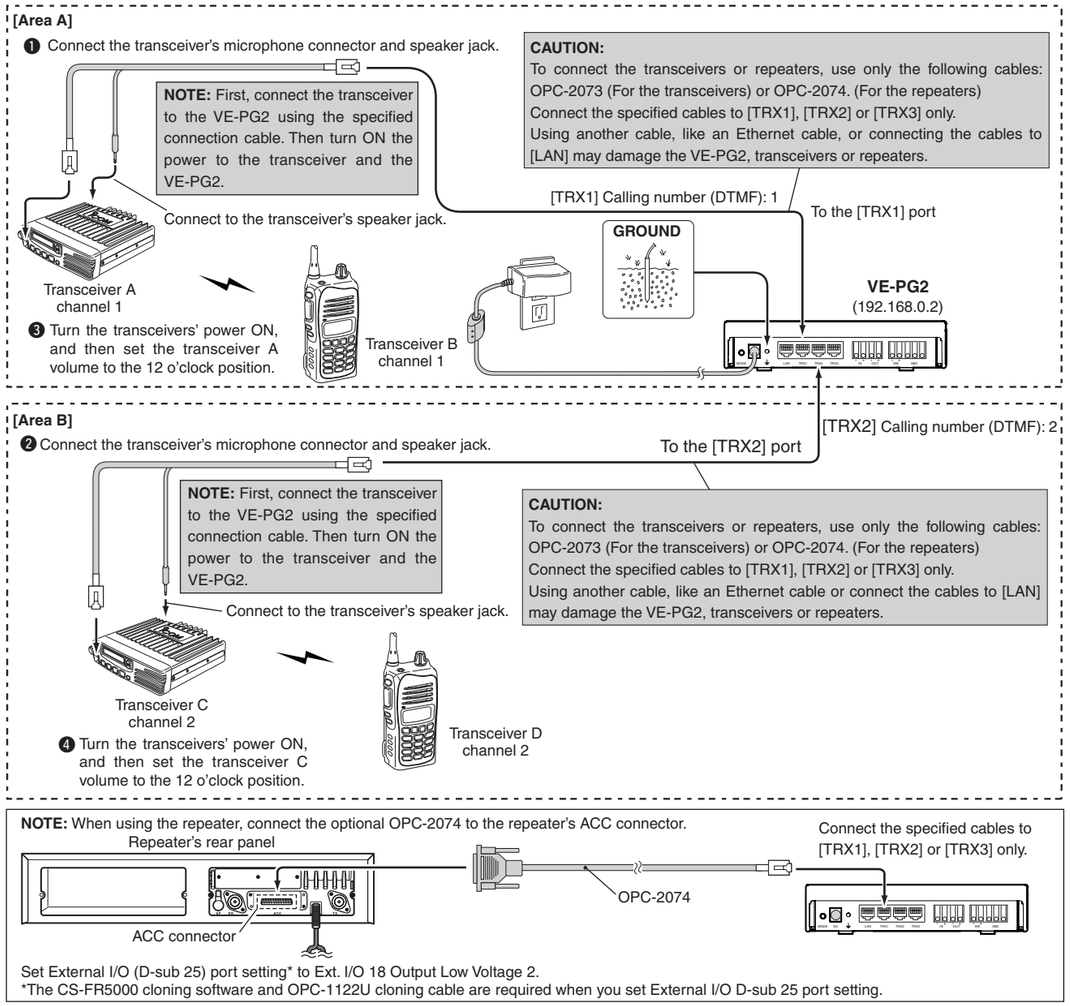
This setting example refers to the connections in the far top left illustration.

1 While holding down transceiver B's [PTT] in Area A, speak into the microphone at your normal voice level to call transceiver D in Area B.
Release transceiver B's [PTT] to receive.

2 While holding down transceiver D's [PTT] of Area B, speak into the microphone at your normal voice level to reply to transceiver B in Area A.
Release transceiver D's [PTT] to receive.

1 Connects transceivers and LAN to the VE-PG2 Selective call mode setting

Connect the VE-PG2 according to steps ❶ – ❹ in the illustration below.



NOTE: When using the repeater, connect the optional OPC-2074 to the repeater's ACC connector.

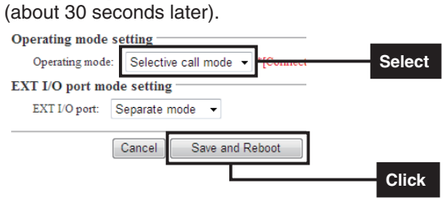
Set External I/O (D-sub 25) port setting* to Ext. I/O 18 Output Low Voltage 2.
*The CS-FR5000 cloning software and OPC-1122U cloning cable are required when you set External I/O D-sub 25 port setting.

2 Sets the VE-PG2 to Selective call mode Selective call mode setting

1. "Operating mode setting" setting

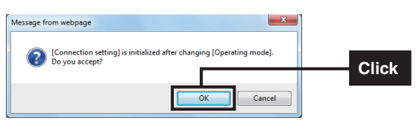
1

①After making the connections as shown to the above, turn transceivers A and C power ON, then open the setting screen with your browser (see the Installation guide ①).
②Click the **"Operating mode setting" in the "Connection setting", and then select "Selective** call mode**".**
③Click the [Save and Reboot] button.
④Click [Back] on the screen after reboot finishes (about 30 seconds later).



2

Click [OK] when the dialog box below appears.
- **"Connection setting" will be return to default when the "Operating mode" setting is modified.**
- Save the VE-PG2 setting to the setting file, if necessary.
  Refer to the VE-PG2 instruction manual (PDF file: Download from the Icom web site) for details.

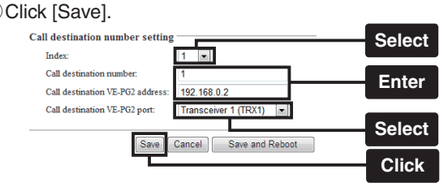


2 Sets the VE-PG2 to Selective call mode (Continued) Selective call mode setting

2. "Numbering plan" setting

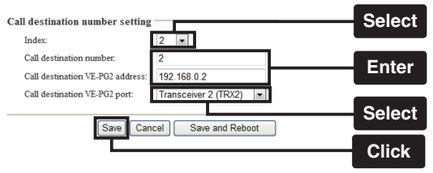
1

①Move the mouse pointer to **"Connection setting",** and click **"Numbering plan".**
②Set "Call destination number setting" for the Area A shown to the left.
(Example) Set **"Index" to "1", "Call destination number"** to **"1", "Call destination VE-PG2 address"** to **"192.168.0.2" and "Call destination** VE-PG2 port" **to "Transceiver 1(TRX1)".**
③Click [Save].



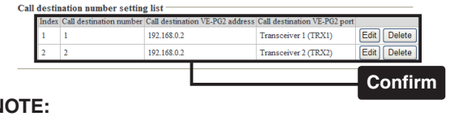
2

①Set **"Call destination number setting" for the Area** B shown to the left.
(Example) Set **"Index" to "2", "Call destination number"** to **"2", "Call destination VE-PG2 address"** to **"192.168.0.2" and "Call destination** VE-PG2 port" **to "Transceiver 2(TRX2)".**
②Click [Save].



3

Confirm the **"Call destination number setting list" as** shown below.



NOTE:
- If you construct RoIP system with some VE-PG2s, you can construct the system only to set each **"Call** destination number setting list**".**
- **"Call destination number setting list" has below 3** buttons.
  [Edit] : Click this button to edit the index setting.
  [Delete] : Click this button to delete the index setting.
  [Delete all] : Click this button to delete all data in the list.

3. Transceiver control setting

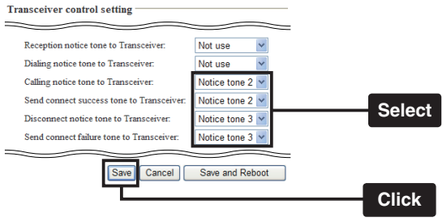
1

①Move the mouse pointer to **"Connection setting"** and then to the drop down menu **"TRX/EXT", then** click "Transceiver 1 (TRX1)".
②Set **"Calling notice tone to Transceiver" to "Notice** tone 2".
③Set **"Send connect success tone to Transceiver" to** "Notice tone 2".
④Set **"Disconnect notice tone to Transceiver" to** "Notice tone 3".
⑤Set **"Send connect failure tone to Transceiver" to** "Notice tone 3".

3. Transceiver control setting (Continued)

1

⑥Click [Save].
⑦Move the mouse pointer to **"Connection setting"** and then to the drop down menu "TRX/EXT", then click "Transceiver 2 (TRX2)".
⑧Set same steps as ②–⑥.



4. Transceiver setting

This setting example refers to the connections in the far top left illustration.

1 Set transceivers A and C AF volume to the 12 o'**clock** position.

2 Turn transceivers B and D power ON, and select the same operating channel as transceivers A and C.
- Set the same channel for all the transceivers, to communicate with the transceivers A and C.
  See the transceiver's instruction manual when setting the channel, if necessary.
  (Example) In the illustration to the left, set transceivers A and B (Area A) to channel 1, and transceivers C and D (Area B) to channel 2.

5. How to communicate

This setting example refers to the connections in the far top left illustration. Follow the steps for transceiver B calling transceiver D.

1 Hold down transceiver B's [PTT], and push [2] and [#] to transmit 2 and # DTMF signals to call to transceiver D.
Release transceiver B's [PTT] to receive.

2 Transceiver D sounds beep tone, then start communication via the VE-PG2.

3 While holding down transceiver B's [PTT], speak into the microphone at your normal voice level.
Release transceiver B's [PTT] to receive.

4 While holding down transceiver D's [PTT], speak into the microphone at your normal voice level.
Release transceiver D's [PTT] to receive.

5 VE-PG2 finishes communication when no audio is applied to transceivers B and D for 15 seconds. Or hold down the transceiver's [PTT] and [#] for 1 second to transmit a # DTMF signal from the transceivers B or D.

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