Thank you for purchasing the VE-PG3. The VE-PG3 is a network converter that allows you to connect Icom radios or repeaters to a VoIP network. This guide describes the basic settings to operate the VE-PG3. READ ALL INSTRUCTIONS carefully and completely before using.

Continued from the separate leaflet “PREPARATION.”

Step 3  Configure the network

1. Connect the devices to the VE-PG3 in order of 1 to 2.
   - Do not connect to the IP network before the configuration is finished.
   - A HUB which supports 100BASE-TX or better is recommended. Otherwise, an unexpected failure of communication may be caused.
   - The VE-PG3 can be directly connected to the PC using a MDI-X (crossover) type Ethernet cable.

   ![Diagram of connection setup]

   **WARNING!**
   To prevent electrical shock, television interference (TVI), broadcast interference (BCI) and other problems, ground the VE-PG3 through the ground terminal.
   For best results, connect a heavy gauge wire or strap to a ground terminal of an AC outlet or a long ground rod. Make the distance between the ground terminal and ground as short as possible.
   NEVER connect the ground terminal to a gas or electric pipe. NEVER use other than the specified AC adapter. This may result in an electrical shock, cause a fire or damage the VE-PG3.

   **WARNING!**
   Wrap the cable once around the ferrite EMI filter.
   Attach the ferrite EMI filter.

2. Verify that the LEDs light
   - When the [LAN] LEDs on the rear do not light, verify that the LAN cable is securely connected.
   - Lights: Connected to the network. Blink: While the line is communicating
   - Blinks: While the line is communicating
   - Doesn’t light: Half duplex
   - Lights: Full duplex
   - Full duplex is recommended.

3. Connect the power supply
   - Connect the power supply to the [DC] jack to the VE-PG3 (Supplied with the VE-PG3)
   - Connect to the [LAN] port (Supplied with the VE-PG3)
   - Connect the ground terminal (Supplied with the VE-PG3).

   ![Diagram of power supply connection]

   **WARNING!**
   For best results, connect a heavy gauge wire or strap to a ground terminal or a long ground rod. Make the distance between the ground terminal and ground as short as possible.
   NEVER connect the ground terminal to a gas or electric pipe. NEVER use other than the specified AC adapter. This may result in an electrical shock, cause a fire or damage the VE-PG3.

   **WARNING!**
   Wrap the cable once around the ferrite EMI filter.
   Attach the ferrite EMI filter.

   ![Diagram of power supply connection]

   **About the IP address**
   If the network part of the PC IP address is different from that of the VE-PG3, you cannot access the VE-PG3 setting screen.
   If the following message is displayed on the screen after the rebooting, change the PC IP address according to your network environment, and then click [Back].

   ![Message on the screen after rebooting]

   **About web browsers**
   Only Microsoft Internet Explorer 9 or later must be used with the VE-PG3.
   Activate the JavaScript and set to allow Cookies on your web browser to correctly display the setting screen.
   If other browsers are used, the screen may not be correctly displayed.

   ![About web browsers]

   **Setting the PC IP address**
   Set the static PC IP address (example: 192.168.0.100).
   See the PC’s instruction manual for the setting details.
   Set the static VE-PG3 IP address assigned by the network administrator.

   ![Diagram of setting the PC IP address]

   **WARNING!**
   To prevent electrical shock, television interference (TVI), broadcast interference (BCI) and other problems, ground the VE-PG3 through the ground terminal.
   For best results, connect a heavy gauge wire or strap to a ground terminal of an AC outlet or a long ground rod. Make the distance between the ground terminal and ground as short as possible.
   NEVER connect the ground terminal to a gas or electric pipe. NEVER use other than the specified AC adapter. This may result in an electrical shock, cause a fire or damage the VE-PG3.

   **WARNING!**
   Wrap the cable once around the ferrite EMI filter.
   Attach the ferrite EMI filter.

   ![Diagram of setting the PC IP address]

   **Menu Item**  
   Setting Screen  
   Setting Item  
   Item Name  
   Value  
   Network IP Address  
   IP Address  
   192.168.0.1  
   Subnet Mask  
   255.255.255.0  
   Router WAN Connection Type  
   DHCP Server  
   DHCP Server  
   Disable  
   Operating Mode  
   Operating Mode  
   Operation Mode  
   Bridge  
   EXT-YO Port Mode  
   EXT-YO Port Mode  
   EXT-YO Port Mode  
   Separate  
   Port Settings Transceiver 1 TRX1/Transceiver 2 TRX2  
   Transceiver Model  
   Transceiver Model  
   IC-F5060/F6060  
   Management Administrator  
   Administrator  
   admin (default)  
   Firmware Update Automatic Update  
   Automatic Update  
   Enable

   ![Table of menu items]

   ![Diagram of network and system default settings]

   (Continued on the back side)
Step 4 Configure the VE-PG3

Select the Converter mode or the Bridge mode, and then configure the ports according to your operating needs.

- The following is an example of connecting the radio to [TRX1] (upper slot) on the VE-PG3.
- When the operating mode or setting of the port (to connect the radio) has been changed, the related settings are returned to their default.
- See the VE-PG3 instruction manual for details.

When using in the Bridge mode

1. Click the [Operating Mode] menu.
   - The [Operating Mode] screen appears.
2. Verify that [Bridge] is selected.
3. Select [Unicast] for the port (example: Transceiver 1 (TRX1)).
   - When using in the Multicast mode, you can skip this step.
4. Click <Apply>.
   - When you are asked to reboot the VE-PG3, follow the instructions.
5. After rebooting, click the [Port Settings] menu, then [Transceiver 1 (TRX1)].
6. Verify that the radio to be connected to the port (example: IC-F5060/F6060) is selected.
7. Configure the VE-PG3 in area B, by following the same procedure.

When using in the Converter mode

1. Click the [Network] menu, then [DHCP Server].
   - The [DHCP Server] screen appears.
2. Select [Enable], and then click <Apply>.
3. Click the [Operating Mode] menu.
   - The [Operating Mode] screen appears.
4. Select [Converter].
   - When you are asked to reboot the VE-PG3, follow the instructions.
5. After rebooting, click the [Port Settings] menu, then [Transceiver 1 (TRX1)].
6. Verify that the radio to be connected to the port (example: IC-F5060/F6060) is selected.

Area A

Radio A

VE-PG3 (192.168.0.2)

Radio B

VE-PG3 (192.168.0.3)

Area B

IP Network

An example of communication in the Bridge’s unicast mode.
(Radio to radio communication)

1. Click the [Bridge Connection] menu, then [Bridge Connection].
   - The [Bridge Connection] screen appears.
2. Enter the IP address of the VE-PG3 in area B (example: 192.168.0.3).
3. Click <Apply>.
4. Click <Connect>.
   - Verify that “During transmit” appears.
5. Configure the VE-PG3 in area B, by following the same procedure.

Area A

Radio A

VE-PG3 (192.168.0.2)

Radio B

VE-PG3 (192.168.0.3)

An example of communication in the Converter mode.
(Radio to IP telephone communication)

1. Click the [Network] menu, then [DHCP Server].
   - The [DHCP Server] screen appears.
2. Select [Enable], and then click <Apply>.
3. Enter radio A’s extension number, default call destination number and so on, and then click <Apply>.
4. Click the [Extension Connect] menu, then [Extension Connect].
   - The [Extension Connect] screen appears.
5. Enter radio A’s extension number, default call destination number, MAC address and so on, and then click <Apply>.
6. The IP Telephone’s call setting is added on [List of Extension Entries].

Continued on the "INSTALLATION 2" leaflet.