P-870HW-I Series

802.11g Wireless VDSL2 4-port Gateway

Quick Start Guide

ZyXEL
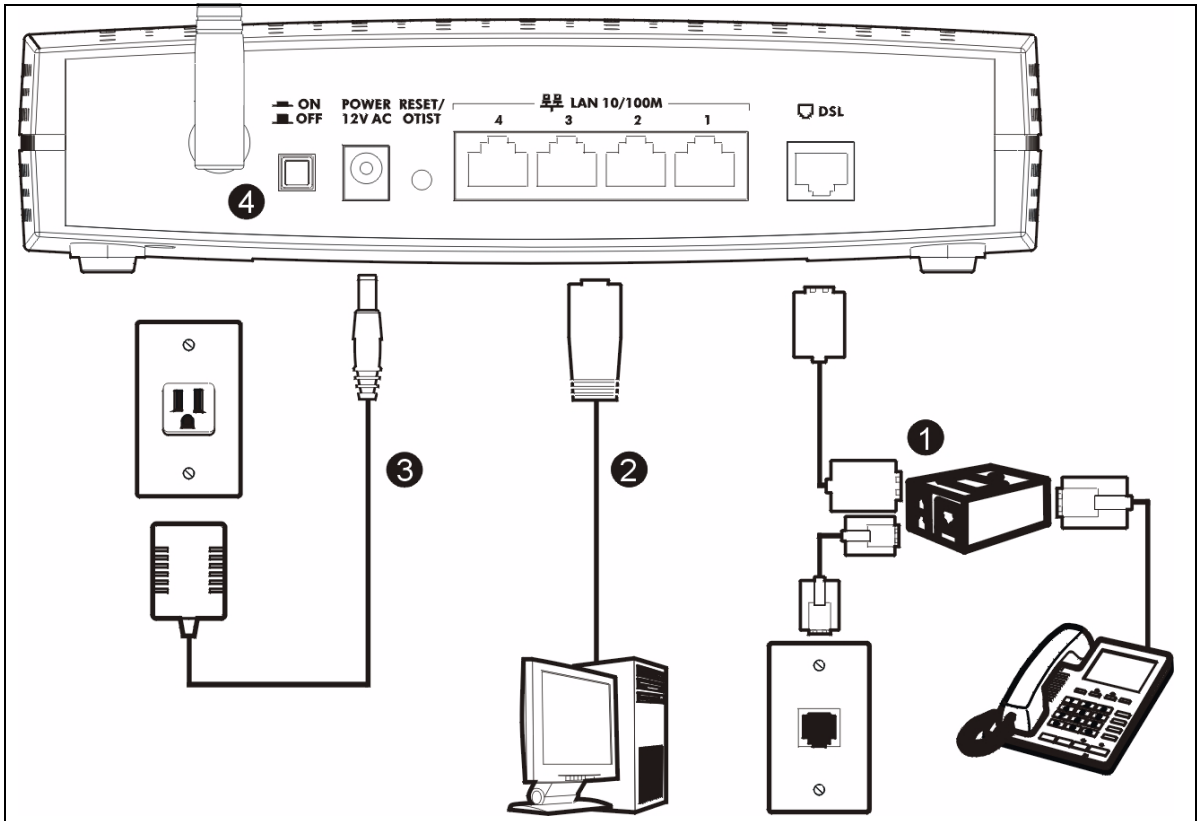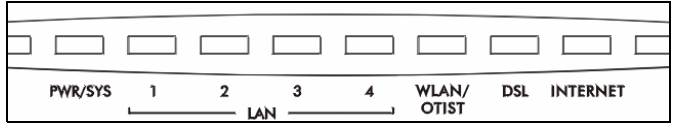
Overview

The P-870HW-I Series ("P-870HW-I") is a VDSL router that provides super high-speed Internet access through a telephone line. The P-870HW-I supports high bandwidth applications such as video streaming, movies on demand, on-line gaming, video and Voice over IP (VoIP). The P-870HW-I also has a built-in switch that allows you to connect up to four network devices and a built-in wireless network for additional devices.

1 Hardware Connections

1 If you want to use your P-870HW-I and your telephone together on the same telephone jack or wall outlet,

- Use a telephone wire to connect the P-870HW-I **DSL** port to the splitter **DSL** (or **MODEM**) port.
- Use a telephone wire to connect the splitter **LINE** port to the telephone jack or wall outlet.
- Use a telephone wire to connect the splitter **PHONE** port to your telephone. (Optional.)

Otherwise, use a telephone wire to connect the P-870HW-I **DSL** port to the telephone jack or wall outlet.

2 Use an Ethernet cable to connect any P-870HW-I **LAN** port (1 - 4) to your computer. Use Ethernet cables to connect other P-870HW-I **LAN** ports to computers too, if you have more computers.

3 Use the included power adaptor to connect the P-870HW-I **POWER** socket to an appropriate power source.

4 Push in the power button. Look at the lights on the front panel. The **PWR/SYS** light blinks for a while and then stays on. When it stays on, check the other lights.
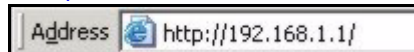

LAN (1-4)	If the corresponding **LAN** port is properly connected, they blink or stay on.
WLAN/OTIST	It blinks or stays on.
DSL	It stays on.
INTERNET	It stays off, blinks, or stays on.

If the lights behave differently or if any light is red, see Troubleshooting.

2 Connection Wizard

Use a web browser on your computer to set up your P-870HW-I. See Troubleshooting if you have any problems.

1 Launch your web browser.

2 Enter http://192.168.1.1 as the address or URL.

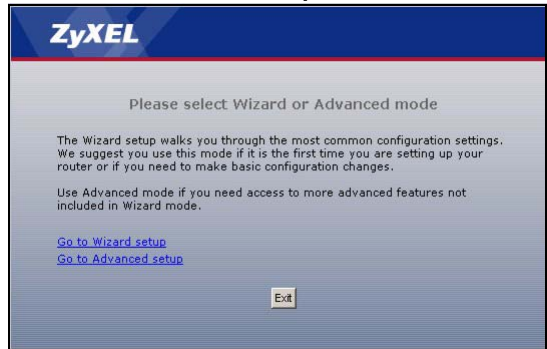**3** Click **Login**.

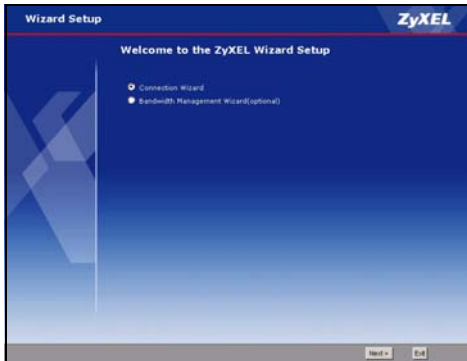**4** Follow the directions in this screen. If you change the password, you have to log in again.

5 Follow the directions in this screen.

6 Click **Go to Wizard setup**.

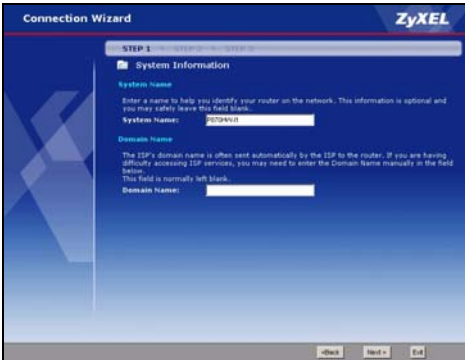**7** Select **Connection Wizard**, and click **Next**.

8 Click **Next**.

9 System Name is used to identify the P-870HW-I in the network. Use the default value, unless you know the name is already used in the network.

Domain Name (optional)**:** Enter the appropriate name, if there is one, or use the default value.

Click **Next**.
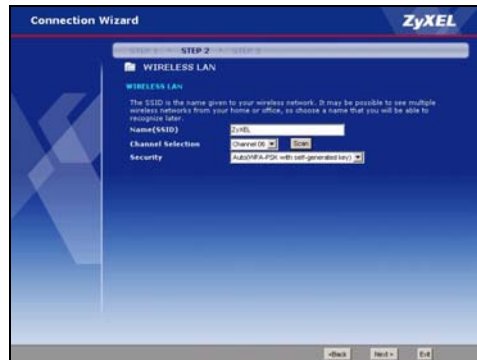
10 Enter the **Name (SSID)** as indicated.

Channel Selection is the radio frequency used by your P-870HW-I. If there are other wireless networks in the area, select a channel at least five channels away from the other wireless networks.

Select the strongest **Security** level that all the computers in your wireless network support. From weakest to strongest, the security levels are

- **None**
- **Basic**
- **Auto** or **Extend(WPA-PSK)**
- **Extend(WPA2-PSK)**

Select **Auto** only if all the other computers in your wireless network support ZyXEL's One-Touch Intelligent Security Technology (OTIST).
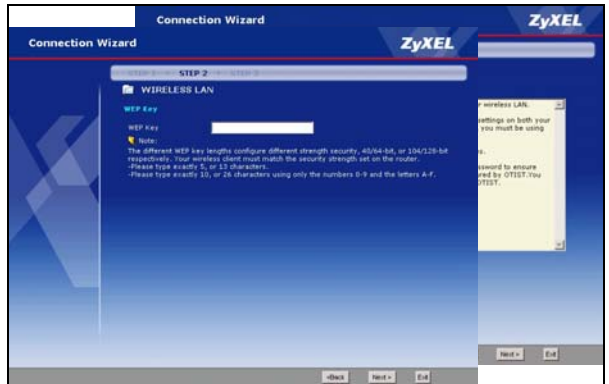
Click **Next**.

11 The next screens depend on which security level you select. Follow the directions in each one.
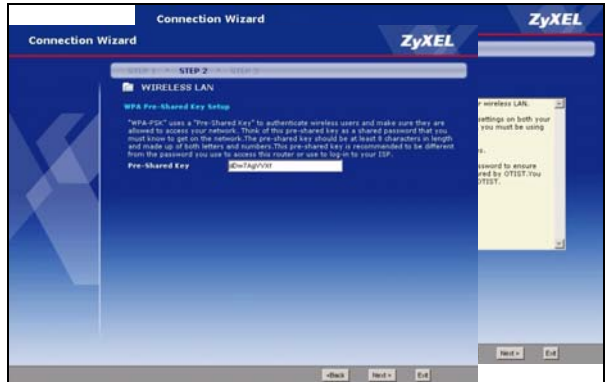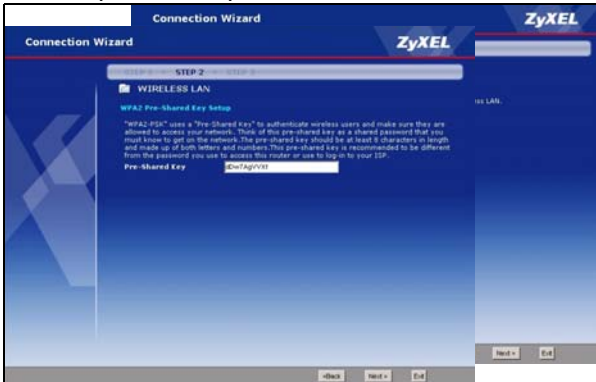
None

Basic

Auto

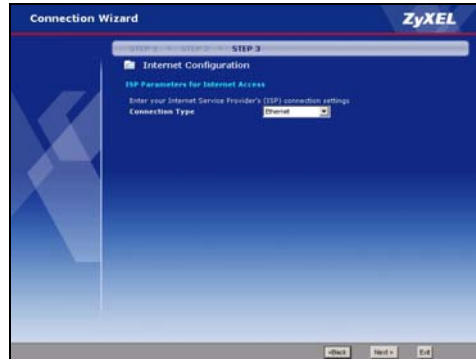**Extend (WPA-PSK)**

Extend (WPA2-PSK)

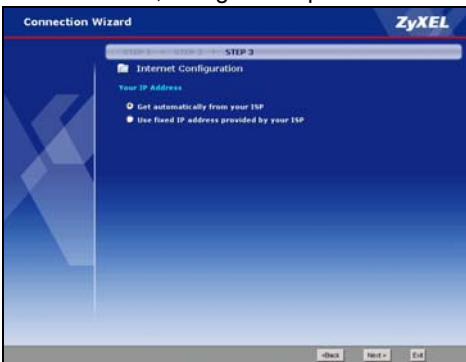**12** Wait while your P-870HW-I tries to detect your Internet connection.

13 If your ISP provided you a user name and password, select **PPP over Ethernet**. More fields appear in the screen. Enter the information provided by your ISP, and click **Next**.
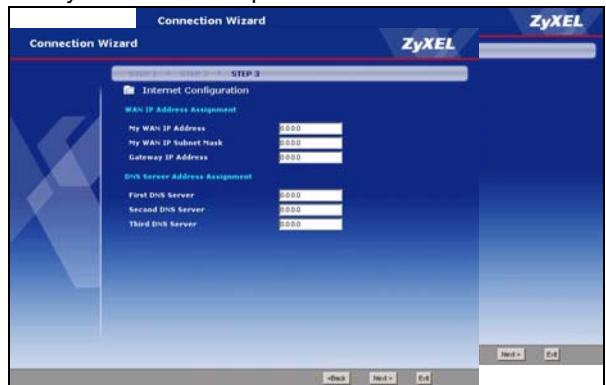
Otherwise, select **Ethernet**, and click **Next**.

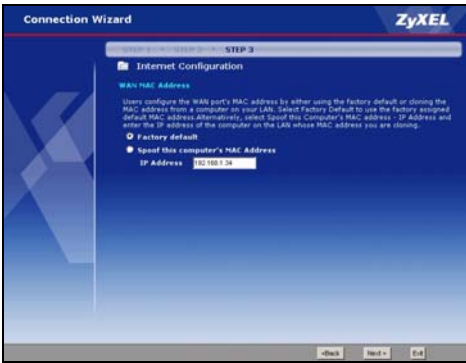**14** If you have a fixed (static) IP address, select **Use fixed IP address provided by your ISP**. Then, click **Next**, and go to step 15.

Otherwise, select **Get automatically from your ISP**. Click **Next**, and go to step 16.

15 This screen depends on the **Connection Type** you selected in step 13. Enter the information provided by your ISP. Use the default settings if your ISP did not provide some information.
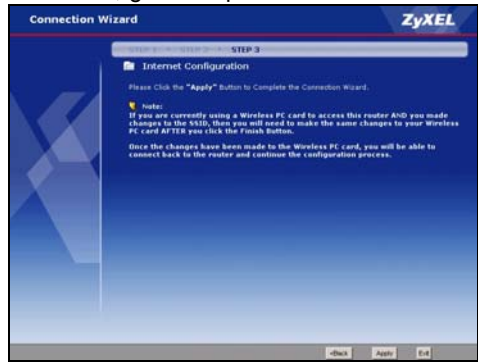
16 Select **Factory default**, unless you have spoofed (cloned) your computer's MAC address before.

Click **Next**.

17 Click **Apply**.

If you enabled OTIST in step 11, go to step 18. Otherwise, go to step 19.

18 Wait while your P-870HW-I sets up OTIST.

19 Click **Finish**.

Troubleshooting

If you had any problems in sections 1 or 2 or you cannot access the Internet when your computer is connected to the **ETHERNET** port, follow these steps.

1 Check the lights on the front panel. If they are different than what is described in section 1, make sure the connections are correct. (See section 1.) If the lights are still different, turn off the device, wait a few seconds, and turn it on again.

2 Follow the steps in section 2 again. Make sure you enter the correct information. For example, if your account has a user name and password, make sure you type it correctly. In addition, if you are not sure which encapsulation your ISP uses, contact your ISP.

3 If you are using a new Internet account, contact your ISP to make sure it is active.

4 If you still have problems, see **Troubleshooting** in the User's Guide.

If you cannot access the Internet using the wireless network, follow these steps.

1 On a computer in the wireless network, open your browser, and go to http://192.168.1.1. If you see the screen in step 3 of section 2, follow suggestions 1 - 4 above. If not, go to the next step.
2 Make sure your P-870HW-I and the computers in your wireless network are using the same settings. Follow the steps in section 2 again.
3 If you still have problems, see **Troubleshooting** in the User's Guide.

Viewing Your Product's Certifications

1 Go to www.zyxel.com.
2 Select your product from the drop-down list box on the ZyXEL home page to go to that product's page.
3 Select the certification you wish to view from this page.