SONY

Wireless Broadband Router

Quick Start Guide

Before reading this guide, be sure to read the "Read This First" supplement.

This guide describes the preparations and settings required to connect to the Internet using the Wireless Broadband Router.

The PCWA-AR800 consists of:
- Broadband Router Unit   PCWA-R1
- Wireless LAN Access Point   PCWA-A820

In this document, we refer to the Broadband Router Unit as the Router Unit and to the Wireless LAN Access Point as the Access Point.

The PCWA-AR800 can be used at frequency settings of 2.4 GHz and 5 GHz. Change this setting as necessary. (By default, the PCWA-AR800 is set to 2.4 GHz.)
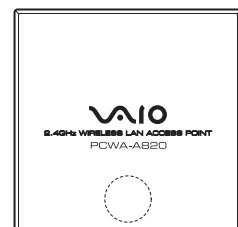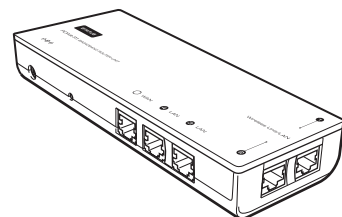
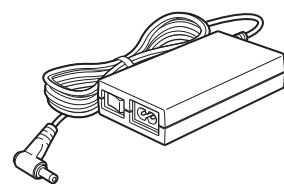## VAIO   CarrierGate

PCWA-AR800

Unpacking

When you unpack the unit, make sure that all the following are accounted for.

- Router Unit
  (Broadband Router Unit PCWA-R1)
- Wireless Unit
  (Wireless LAN Access Point PCWA-A820)

  * The Wireless Unit has Access Point functions.

- AC Adapter

- Power cord
- Read This First
- Quick Start Guide (this document)
- Troubleshooting Guide
- Limited Warranty

Setup Procedures

Preparation

Procedure 1 ☐ Check
Perform the necessary preparations and confirmations for connections

Procedure 2 ☐ Check
Connect each unit and turn the power on

Establish Wireless Connections

Procedure 3 ☐ Check
Establish communications between a computer and the Access Point

Router Functions Setup

Procedure 4 ☐ Check
Display the Router Unit Setup Page

Procedure 5 ☐ Check
Configure the Router functions

Access Point Functions Setup

Procedure 6 ☐ Check
Display the Access Point Setup Page

Procedure 7 ☐ Check
Configure the Access Point functions

Configure the Wireless Communication Settings on the Computer

Procedure 8 ☐ Check
Configure computer settings

Each procedure is preceded by a check box. Before proceeding to the next step, confirm that you have completed all necessary tasks by ticking the box.   ✔ Check

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Preparation

Procedure 1 ☐ Check
Perform the necessary preparations and confirmations for connections

Obtain the information required to make the computer connections.

The procedure in this guide describes the connection process using the factory default settings.

The factory default settings of the Access Point function are:
Network Name (SSID):   The 6-character identifier printed on the label inside the rear cover of the Wireless Unit

Security settings
  Encryption (WEP):   Disabled
IEEE 802.11 Mode: 11g, 11b (High multicast rate)

Before setting up the Broadband Router, perform the following.

■ Set up the wireless LAN PC card or Wireless LAN Converter

Perform the required software installation and settings according to the instructions provided with your wireless LAN PC card or Wireless LAN Converter to make it operational.

■ Confirm the connection method of the wireless connection on the computer.

Refer to the documentation provided with your wireless LAN PC card or Wireless LAN Converter to confirm the connection method of the computer to the Access Point when using a wireless LAN PC card or Wireless LAN Converter.
If using a wireless LAN PC card with the Windows XP operating system, connect to the network using the Windows XP Wireless Network function.

■ Configure the TCP/IP settings for the Wireless Network connection on the computer.

Configure the TCP/IP settings on the computer as follows.
- IP address setting: Select "Obtain an IP address automatically".
- DNS setting: Select "Disable DNS" in the Windows Me operating system.
  Select "Obtain a DNS server address automatically" in the Windows 2000 and Windows XP operating systems.

■ Prepare the Ethernet cable to connect the Router Unit and ADSL or cable modem.

💡 Hint
Use a straight-through or cross-over Ethernet cable.

■ Configure the computer firewall or proxy settings

If you are using the Windows XP Internet Connection Firewall or another personal firewall, you may need to change the security level setting. To display the Router Unit Setup Page or Access Point Setup Page, you may also need to change the proxy settings of your Web browser. Refer to "Miscellaneous", "Case 4: Computer firewall function and browser proxy settings" in the separate Troubleshooting Guide for details.

■ Enable the Java settings of your Web browser
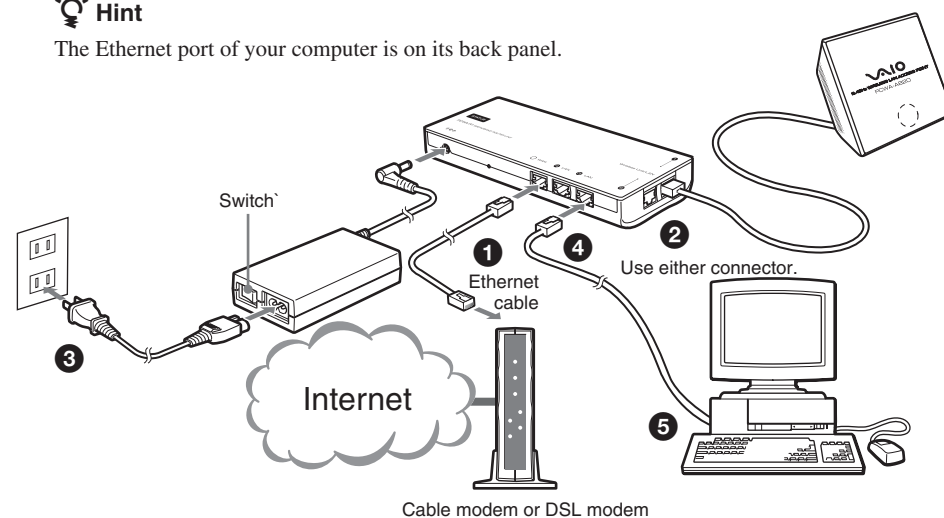
> **Wireless LAN Security**
>
> Making security settings for the wireless LAN is extremely important. Sony assumes no responsibility for any security problems that may arise from the use of the Wireless LAN.

Procedure 2 ☐ Check
Connect each unit and turn the power on

Connect each unit as shown in the next figure, and turn the power on.
❶ Use an Ethernet cable to connect the cable or DSL modem to the WAN connector of the Router Unit.
❷ Connect the Wireless Unit to a Wireless Unit/LAN connector.

💡 Hint
There are two Wireless Unit/LAN connectors. Use either one.
❸ Connect the AC Adapter to the Router Unit, and turn the AC Adapter on.
❹ Connect an end of the Ethernet cable to a LAN connector of the Router Unit.
❺ Connect the other end of the Ethernet cable to your computer.

💡 Hint
The Ethernet port of your computer is on its back panel.

Switch
Ethernet cable
Use either connector.
Internet
Cable modem or DSL modem

When you turn the power on, confirm that the Status indicators on the Wireless Unit and Router Unit change as follows before proceeding to Procedure 3.
Wireless Unit: Changes from a quickly flashing white light to a slowly flashing one.
Router Unit: Change from flashing white light to a steadily lit one.

Establish Wireless Connections

Procedure 3 ☐ Check
Establish communications between the computer and the Access Point

This description assumes that the connection is established with factory default settings.

Access Point factory default settings
Network Name (SSID):   The 6-character identifier printed on the label inside the rear cover of the Wireless Unit

Security settings
  Encryption (WEP):   Disabled
IEEE 802.11 Mode: 11g, 11b (High multicast rate)

Confirming the network name (SSID)

Remove the rear cover by sliding it in the direction of the arrow.
This ID is used as the default network name (SSID).

Configure the wireless communication settings on the computer, and then establish communications between the computer and the Access Point.
Refer to the instructions for your wireless LAN PC card or Wireless LAN Converter for the setting method.

💡 Comments
- The network name (SSID) may also be called something like the "ESSID" or "network ID", depending on the particular device.
- Encryption may also be called something like "encoding" or "security", depending on the particular device.

Router Unit Setup

Procedure 4 ☐ Check
Display the Router Unit Setup Page

Access the Access Point from a Web browser to display the Router Unit Setup Page.

Compatible browsers:

Internet Explorer 5.5 or later
Netscape 6.1 or later

Note
If the Setup Page does not appear, refer to "Connections", "Case 1: Cannot display the Setup Page (error message appears)" in the separate Troubleshooting Guide for details about bypassing the proxy server.

1 Launch the Web browser.

2 Enter http://192.168.11.1/ in the Address field, and press the Enter key.

http://192.168.11.1/

💡 Hint
The IP address 192.168.11.1 is the Router Unit factory default. If the Router's IP address has been changed, contact your network administrator.

The Router Unit Setup Page appears.

💡 Hint
Clicking **Help** or **?** displays Help.

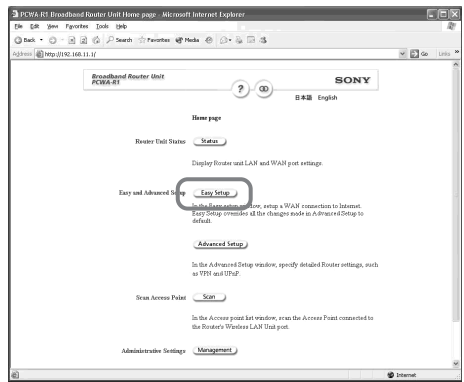The following procedures describe the setup process using "Easy Setup".

Configure the Router functions

Configure the Router functions of the Router Unit.
The basic settings to connect to the Internet are described here. For details about the settings, refer to Help on the Router Unit Setup Page.

Specific information required to establish an Internet connection is normally provided by your Internet service provider when making the service contract. You may have to refer to this information when setting up the connection, so have the information at hand.
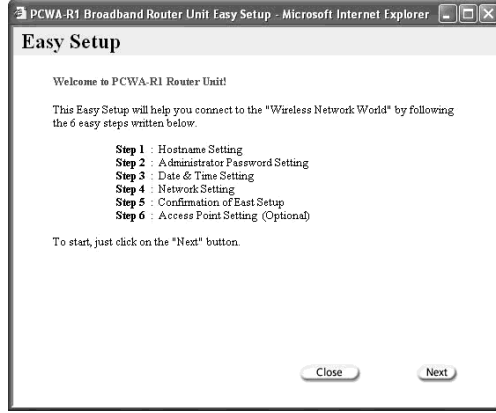
Note

Depending on your Internet service provider, you may not be allowed to connect a router type access point to your DSL or cable modem. Refer to the provisions of the contract with your Internet service provider for details.

1 Click "Easy Setup".

The Wireless Broadband Router setup wizard starts.

2 Follow the instruction on the screen to complete the setup.

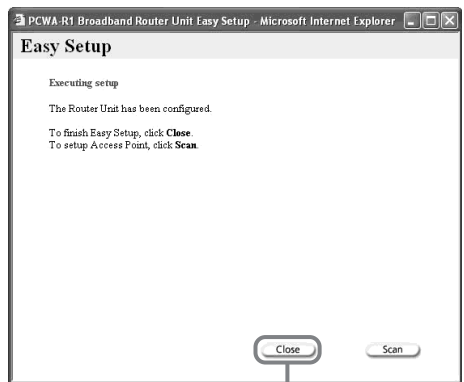**Hint**

If the administrator password is configured in step 2 of the Easy Setup, a user name and password input dialog box appears.

Enter "admin" here.

Enter the administrator password here, as set in step 2 of the Easy Setup.

Enter the administrator user name and password to proceed.

When setup is complete, the following screen appears.

If you do not want to configure the Access Point, click here.

Proceed to procedure 6 to configure the Access Point.
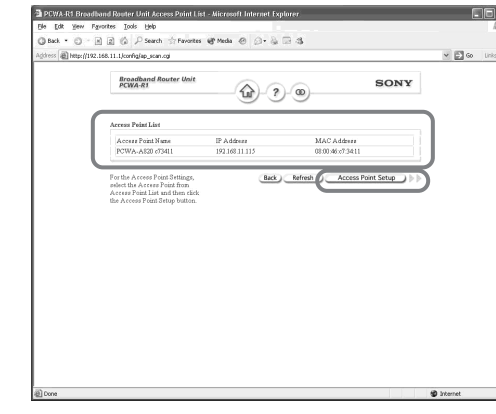

Access Point Function Setup

Display the Access Point Setup Page

1 Click "Scan".

Access Points are searched for, and any discovered Access Points are displayed in the list.

2 Select the Access Point to configure, and click the "Access Point Setup" button.

A user name and password input dialog box appears.

3 In the user name text box, enter "admin", and then click "OK".

Hint

• The default password is "admin".
• Leave the "Password" text box blank.

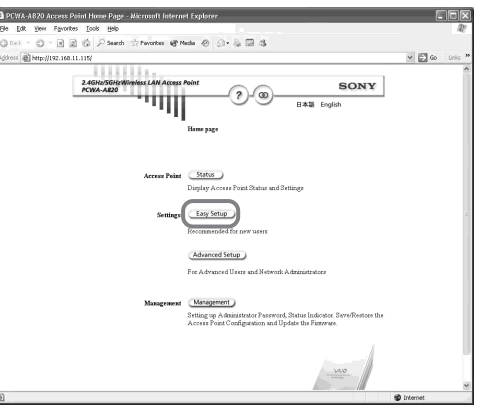Enter "admin" here.

Leave this text box blank.

The Access Point Setup Page appears in a new window.
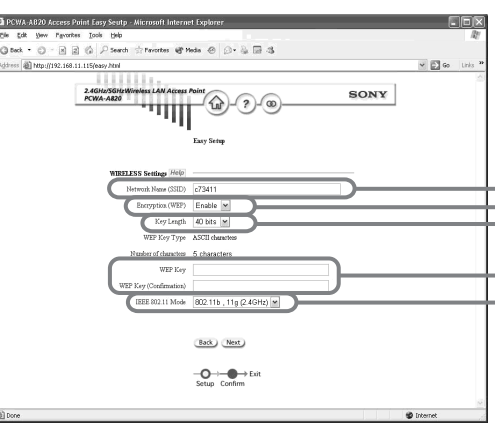

Configure the Access Point functions

The wireless functions are set in the Wireless Unit. The basic wireless connection settings are described here. For details about the settings, refer to Help the Access Point Setup Page.

1 Click "Easy Setup".

The Easy Setup Page appears.

2 Configure settings.

❶ Enter the network name (SSID).
The network name (SSID) is an ID that serves to identify the wireless network. You should enter up to 32 characters. Permissible characters are letters, numbers, and symbols.

Note

Do not forget the network name (SSID).

❷ Set "Encryption (WEP)" to "Enable".

Hint

Encryption (WEP) encodes wireless communications and prevents unauthorized access to the network. The encryption key is the password required for WEP communications on an encrypted network.

❸ Select "Key Length".

❹ Enter the encryption key, and re-enter it again at "WEP Key (Confirmation)"
If you select "40 bits" for the "Key Length", enter up to five letters, numbers and symbols. If you select "104 bits" for the "Key Length", enter up to 13 letters, numbers and symbols.
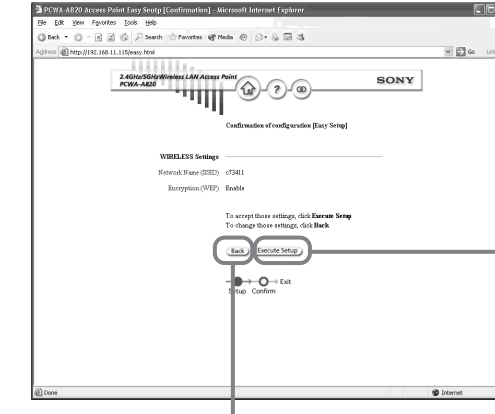
Note

Do not forget the encryption key.

❺ Select the "IEEE 802.11 Mode".

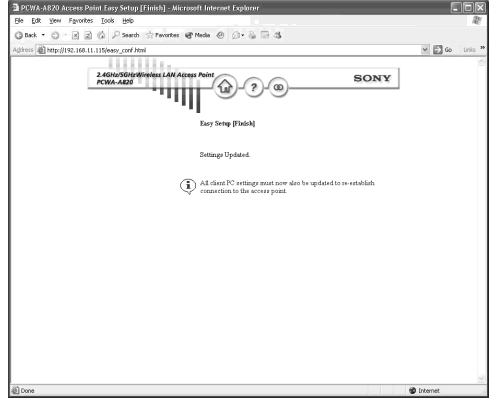**3** Check that the settings are correct, and click "Execute Setup".

❶ When finished making settings, click "Next".
The Setup Confirmation window appears.

❷ Check that the settings are correct, and click "Execute Setup".

When satisfied with the displayed settings, click here.

If you want to modify the settings, click here to return to the previous window.

The Setup Completed window appears.

❸ Close the Web browser.

Note

When you change the wireless settings, the connection to the Access Point is severed. After performing procedure 7, make sure that you perform procedure 8 to reestablish the connection.

Configure the Wireless Communication Settings on the Computer

Configure computer settings

Configure the wireless communication settings on the computer used for the setup to match the Access Point settings.

Configure the network name (SSID) and security settings on the computer to match those set in procedure 7.

Hint

Refer to the instructions of your wireless LAN PC card or Wireless LAN Converter for the setting method.

This completes the configuration.

Refer to Help for details about Wireless Broadband Router settings.

To display Help, click *Help* or ? on the Router Unit Setup Page or the Access Point Setup Page.

Refer to the Read This First supplement for the following information:

• Safety information
• Installation
• Ethernet cable connection method
• Reset to factory defaults
• Factory default settings
• Status Indicator indications

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