

# 2.4GHz Wireless LAN Access Point (Bridge Type)

## Read This First

## CarrierGate PCWA-A220

Sony Corporation © 2002 Printed in Japan

## Safety Information

### WARNING

- Opening the unit, for whatever reason, could lead to damage that is not covered by the warranty.
- Do not touch the device or accessories during thunderstorms. Electrical shock could result.
- This device is made for use in the USA and Canada only.
- For indoor use only.
- Do not use this equipment on hospital premises. Doing so may cause medical devices to malfunction.
- If using the equipment near a pacemaker, make sure it is at least 9 inches (22 cm) away from the pacemaker.
- Do not use this equipment in an aircraft, as doing so could cause the aircraft's equipment to malfunction.
- While using the Access Point, do not cover it or turn it on its side. Do not cover the Access Point with objects such as magazines or newspapers or use it in confined, enclosed places, such as the spaces between walls and furniture. Further, do not turn the Access Point on its side while using it. Either situation could cause heat to build up inside the Access Point, leading to overheating and possible fire.
- Carefully place the Ethernet cable, AC adapter, and other wiring. Personal injury or damage to the Access Point could result from people tripping over the Ethernet cable, AC adapter, or power cord. Protect wiring by locating it in places where people do not walk.
- Do not swing the AC adapter. Injury could result if the adapter strikes a person or fragile material, such as glass.
- Keep the Access Point out of the reach of children. Unforeseeable injury could result from swallowing loose parts, etc.
- Place the Access Point on a stable surface. Do not place the Access Point on wobbly or tilted surfaces. Tipping or falling could result in injury.
- When using wall mounting, make sure that the wall is strong enough to support the Access Point. The Access Point could fall if the wall is not strong enough, leading to unforeseeable accidents. Further, be careful not to drop the unit or the tools used for mounting it. Doing so could result in unforeseeable accidents.
- Avoid locations that are directly exposed to sunlight or heaters.
- Internal overheating could result in fire or damage to the unit.

- Make sure connectors are properly connected.
  - Do not insert any metallic objects inside the connectors. Short-circuiting the pins could cause fire or damage to the unit.
  - Be careful to insert connectors squarely. Crooked insertion could cause pins to short-circuit, possibly causing fire or damage to the unit.
- Use only the supplied AC adapter with your Sony Wireless LAN Access Point. To disconnect your Wireless LAN Access Point from the power supply, unplug the AC adapter.

### For customers in Canada

- This class B digital apparatus complies with Canadian ICES-003.
- Operation is subject to the following two conditions; (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.
- The term "IC" before the equipment certification number only signifies that Industry Canada technical specifications were met.

### Pour les utilisateurs au Canada

- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
- L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.
- Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'intérieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé à l'extérieur, il doit faire l'objet d'une licence.
- Le terme "IC" avant le numéro d'homologation ne signifie seulement que les normes d'Industrie du Canada ont été respectées.

## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.  
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

### Owner's Record

The model and serial numbers are located on the back of the product. Record the serial number in the space provided below. Refer to them whenever you call your Sony dealer regarding this product.

Model No. PCWA-A220  
Serial No. \_\_\_\_\_

### CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty.

FCC ID: NUSTMW1003S1

Exposure to Radio Frequency Radiation.  
The radiated output power of the Wireless LAN Access Point is far below the FCC radio frequency exposure limits.

Nevertheless, the Wireless LAN Access Point shall be used in such a manner that the potential for human contact during normal operation is minimized.

### FCC Radio-Frequency Exposure Statement

This equipment generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, this equipment has to be installed and operated while maintaining a minimum body to antenna distance of 20 cm. Based on continuous exposure of 30 minutes. Users are not permitted to make changes or modify the system in any way.

### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or communications. However, there is no

guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

If you have questions about this product, call the Sony Customer Information Center at 1-877-760-7669; or write to the Sony Customer Information Center at 12451 Gateway Boulevard, Fort Myers, FL 33913. The number below is for FCC-related matters only.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

### Declaration of Conformity

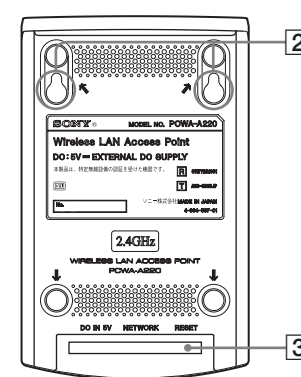
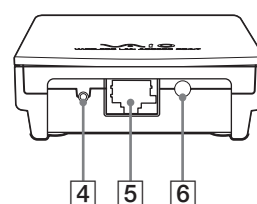
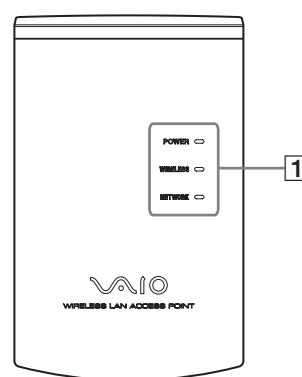
Trade Name: Sony  
Model No: PCWA-A220  
Responsible Party: Sony Electronics Inc.  
Address: 680 Kinderkamack Road,  
Oradell, NJ 07649 USA  
Telephone: 201-930-6972  
This phone number is for FCC-related matters only.  
This device complies with part 15 of the FCC Rules.  
Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

### NOTE:

The power outlet should be installed near the equipment and should be easily accessible.

## Names of parts and functions



### 1 Indicators

#### POWER

Lights when power is supplied.

#### WIRELESS

Flashes when data is exchanged through a wireless LAN.

#### NETWORK

Lights when an Ethernet cable is connected to the [5] NETWORK connector.

### 2 Wall-mounting screw holes

Used to mount the Access Point to a wall.

For details, see the Quick Start Guide supplied with the Access Point.

### 3 MAC address label

Displays the MAC address of your Access Point.

### 4 Reset switch

Returns the Access Point to its default settings. For details, see Online Help.

### 5 NETWORK connector

Connects the Access Point to a DSL modem, cable modem, ISDN router, broadband router, or Ethernet hub using an Ethernet cable.

### 6 DC IN 5V jack

Connects to the AC power adapter.

## Precautions

### AC adapter

Use only the supplied AC adapter. Other AC adapters may damage in the Access Point.

### Safety

Do not drop the Access Point. Careful handling will help prevent damage.

### Installation

Do not place the Access Point where it will be exposed to the following conditions:

- Unstable surfaces.
- High humidity or poor ventilation.
- Excessive dust.
- Direct sunlight or extreme heat.
- Closed cars.
- Magnetic fields (near magnets, speakers, or televisions).
- Next to microwave ovens.
- Frequent vibration.
- Locations where the transmission of radio waves may be obstructed by metal plates or concrete walls.

### Operation

Exposure to rapid changes in temperature or very damp environments may cause moisture to condense on internal parts. This may prevent the Access Point from operating properly.

If this should happen, unplug the AC adapter from the power outlet and let the Access Point sit for two to three hours or until the moisture evaporates.

### Cleaning

Clean the casing with a soft cloth lightly moistened with water or a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzene. This may damage the finish of the casing.

## Specifications

### Power

AC100-240 V, 50/60 Hz  
(The power cord plug is for use with AC 120 V.)

### Power consumption

Approximately 4 W

### Interface

100BASE-TX/10BASE-T (RJ-45)

### Maximum external dimensions

Approximately 3.1 × 5 × 1.1 inches (w/h/d)  
(Approximately 78 × 125 × 29 mm (w/h/d))

### Mass

Approximately 7 oz (Approximately 200 g)  
(Not including the AC adapter)

### Maximum connection distance

Approximately 328 feet (100 m)  
(The maximum connection distance depends on the environment.)

### Recommended number of units connected

16 units or less (number of clients)

### Protocol support

TCP/IP

### Standard

IEEE 802.11b/IEEE 802.11 (wireless connection)  
IEEE 802.3 (wired connection)

### Radio frequency

2.4 GHz (channel 1 to 11, ISM band)

### WEP (Data encryption)

64 bits/128 bits

### Modulation method

DS-SS (IEEE 802.11b compliant)

### Operating temperature

41°F to 95°F (5°C to 35°C)  
(no condensation)

### Storage temperature

-4°F to 140°F (-20°C to 60°C)  
(no condensation)

### Supplied accessories

See "Unpacking" in the Quick Start Guide.

Design and specifications are subject to change without notice.

## Getting help

This section describes how to get help and support from Sony, as well as troubleshooting tips for your Wireless LAN Access Point.

### About Sony's Support Options

Sony provides several support options for your Wireless LAN Access Point.

- Quick Start Guide** explains how to install the Wireless LAN Access Point.
- Troubleshooting Guide** provides solutions to the most common problems users have with their Access Points.
- Access Point Online Help** explains how to configure the Access Point.
- The Sony Wireless LAN Access Point support Web site** <http://www.ita.sel.sony.com/support/wirelesslan/> provides the latest information on your Wireless LAN Access Point.
- The Sony e-mail support service** answers your questions by electronic mail. Just send your question in an e-mail message and a customer service representative will reply. To send a question to Sony e-mail support, fill out the e-mail form at <http://www.ita.sel.sony.com/support/wirelesslan/>
- The Sony fax-back service** provides you with answers to commonly asked questions. You can use this automated service to request a list of available topics, and then select the topics you want to receive. To contact the Sony fax-back service, call **1-877-760-7669**.
- The Sony Customer Information Services Center** offers information about your Access Point, Wireless LAN PC Card, and other Sony products that work with your computer. To contact the Sony Customer Information Services Center, call **1-877-760-7669**. **Open 24 hours/day, 7 days/week.**