Panasonic

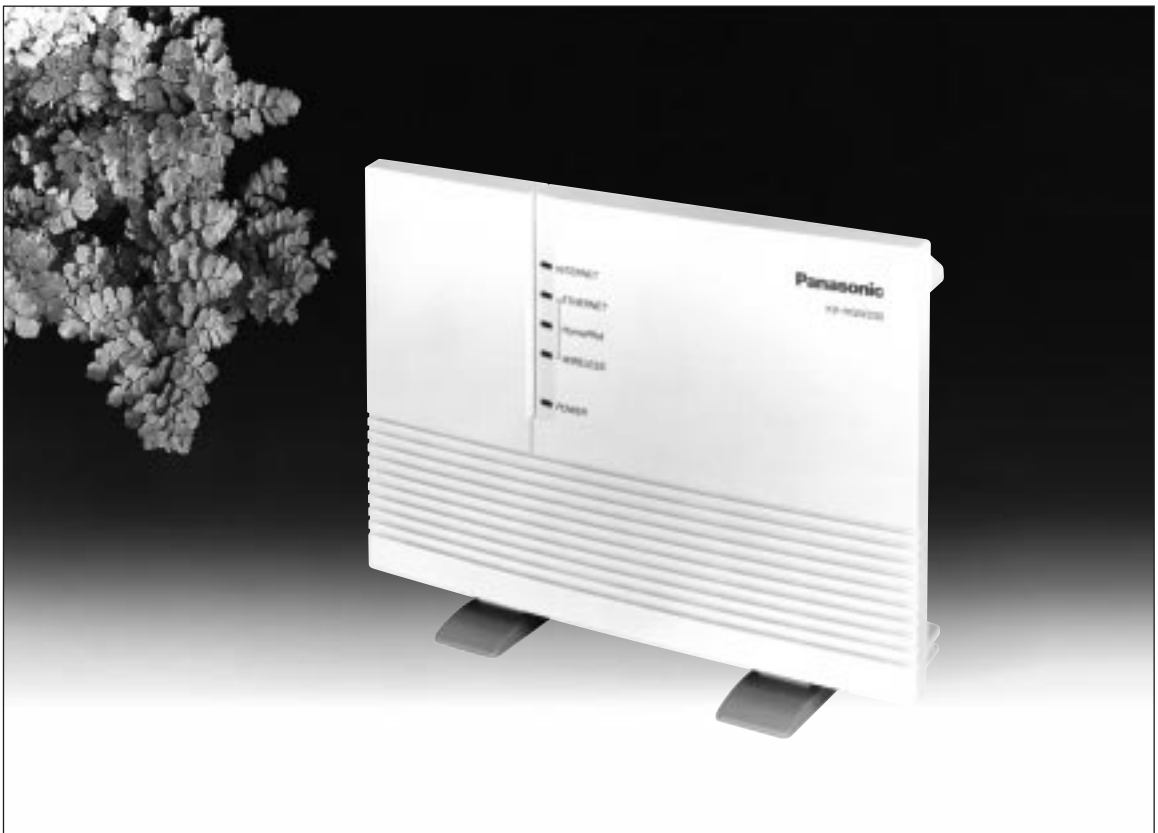## Broadband Networking Gateway
Operating Instructions

Model No. KX-HGW200

PLEASE READ BEFORE USE AND SAVE.

Panasonic World Wide Web Address: http://www.panasonic.com
for customers in the USA or Puerto Rico

Before Initial Use

Please read IMPORTANT SAFETY INSTRUCTIONS on page 62 before use.
Read and understand all instructions.

Thank you for purchasing the Panasonic KX-HGW200.

Attach your purchase receipt here.

For your future reference

Serial No. _____   Date of purchase _____
(found on the rear side of the unit)

Name and address of dealer _____

FOR OPERATION ASSISTANCE:
—Call
 1-800-272-7033
—Refer to
 the Panasonic world wide web site
 http://www.panasonic.com
—Refer to
 the support function of the KX-HGW200 administration
 web screen (See p. 44.)

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The operating instructions are subject to change without notice.

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Table of Contents

Installation

Using the Web Screen

Useful Information

Appendix

Overview

Features

The main features of the KX-HGW200 are described as follows:

Networking

For Home Network
The KX-HGW200 has three types of network interface: HomePNA 2.0,
10 Base-T Ethernet and wireless.
It supports AppleTalk® network system (EtherTalk® interface network),
TCP/IP and IPX™ (Novell®) protocols simultaneously.

● HomePNA 2.0 connection (using existing telephone lines):
Communication speed is a max.10 Mbps.
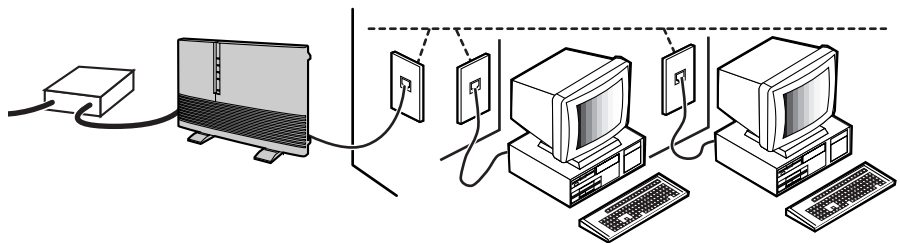
The HomePNA can transmit and receive data at rates up to 10 Mbps over
any standard home telephone wiring. It links two or more computers by
using your existing phone wiring. While the HomePNA passes information
over your home's phone wiring, you can use your telephone without
disrupting regular phone service. You will need one HomePNA card and
one modular phone line with standard RJ-11 male phone plugs attached
at each end for each computer that you want to connect to the home
network.

● 10 Base-T Ethernet connection (using category 5 straight cable):
Communication speed is a max.10 Mbps.
In order to network more than one computer using Ethernet, an optional
Ethernet hub is required.
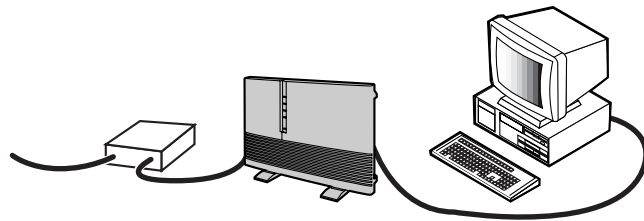
● Wireless connection (using optional Panasonic wireless cards
KX-HGC200):
Communication speed is a max.11 Mbps.
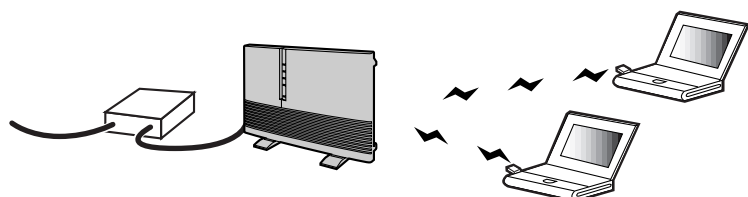
Internet Sharing

The KX-HGW200 has an interface to the Internet (TO MODEM port). This interface enables you to connect to the Internet via a cable/xDSL modem with category 5 straight cable. All users can have an Internet access simultaneously via a single IP (Internet Protocol) address.

DHCP (Dynamic Host Configuration Protocol) Server and Client

DHCP client function
● If your ISP (Internet Service Provider) has a DHCP server function, the KX-HGW200 receives its configuration information automatically from the ISP.

DHCP server function
● The KX-HGW200 can automatically assign a local IP address to each computer in the home network.

Security

IP Masquerade Function
● The KX-HGW200 uses IP masquerade as the default function. This function translates the local IP address of a computer in the home network into one global IP address. The IP masquerade function can act as a firewall for your home network, because the local IP address can never be known to anyone outside of the home network.

Easy to Administer

Downloadable Firmware
● You can download the latest version of the KX-HGW200's firmware from the Panasonic support web site. See p. 39 for more detailed information.

Setup via Web Browser
● The KX-HGW200 can be set up from a Microsoft® Windows® operating system or Macintosh® computer using a web browser.

Password Protection
● To access the KX-HGW200 web screen, you have to create and enter a password. The password will prevent accidental or incorrect changes to the KX-HGW200 setup settings. See p. 27 and 38 for more detailed information.

System Requirements

To set up the KX-HGW200, the computer with which you choose to configure it must meet the requirements below.

	Windows	**Macintosh**
Operating System	Microsoft® Windows® 95 operating system Microsoft® Windows® 98 operating system Microsoft® Windows® 2000 operating system Microsoft® Windows® NT® operating system	Apple® system software version 7.5.3 or later
Interface*	Ethernet card or HomePNA 1.0/2.0 card with appropriate interface cable or optional Panasonic wireless cards, model KX-HGC200, for your network connection	Ethernet card with appropriate interface cable for your network connection
RAM	16MB or more	16MB or more
Protocol	TCP/IP network protocol installed	Open Transport 1.1.2 or Mac TCP® 2.0.6 application program installed
Web Browser	Internet Explorer 4.0 or later or Netscape Navigator® 4.0 or later	Internet Explorer 4.0 or later or Netscape Navigator® 4.0 or later

* HomePNA and wireless connections are not available for Macintosh® computers at this time.

Included Accessories

For extra orders, call 1-800-332-5368.

☐ AC Adaptor (p. 19)
   Order No. PQLV12

one
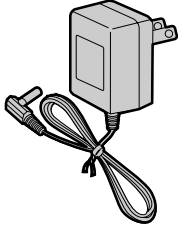
☐ Telephone Line Cord (p. 15)
   Order No. PQJA10075Z
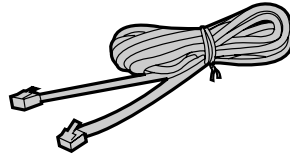
one

☐ Category 5 Straight Cable (p. 14, 17, 18)
   Order No. PQJA10138Z
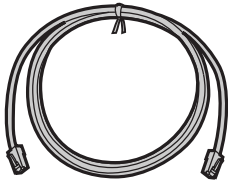
one

☐ Screws (p. 57–58)
   Order No. PQHE5004Z

two

- If any items are missing or damaged, check with the place of purchase.
- The order numbers listed above are subject to change without notice.
- Save the original carton and packing materials for future shipping and transportation of the unit.

Part Names

Front View

Arrow mark

Remove the cover by sliding it up while pressing the arrow mark.

Cover (☞ p. 46)

INTERNET indicator (☞ p. 11)

ETHERNET indicator (☞ p. 11)

HomePNA indicator (☞ p. 11)

WIRELESS indicator (☞ p. 11)

POWER indicator (☞ p. 11)

CLEAR SETTING button (☞ p. 46)

RESET button (☞ p. 46)

Stand (☞ p. 57)

PC card slot

Use only Panasonic wireless PC card, model KX-HGC200.

Rear View

TO MODEM port (☞ p. 14)

HUB/PC switch (☞ p. 17, 18)

TO COMPUTER/ ETHERNET HUB port (☞ p. 17, 18)

PHONE jack (☞ p. 16)

LINE jack (☞ p. 15)

DC IN jack (☞ p. 19)

Hook (☞ p. 57) used for the AC adaptor while the KX-HGW200 is wall mounted.

Used for mounting the unit on the wall (☞ p. 58).

Hook (☞ p. 19) used for the AC adaptor while the KX-HGW200 is utilized with stands.

The shape of RJ-45 and RJ-11 plug

RJ-45   RJ-11

Pin 8   Pin 1   Pin 4   Pin 1
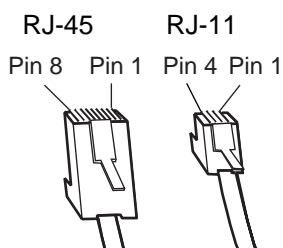
The shape of RJ-45 plug is different from that of RJ-11 plug. For the connection of a cable/xDSL modem or Ethernet, use the category 5 straight cable with the RJ-45 plug. For the connection of HomePNA network, use the telephone line cord with the RJ-11 plug.

Indicators

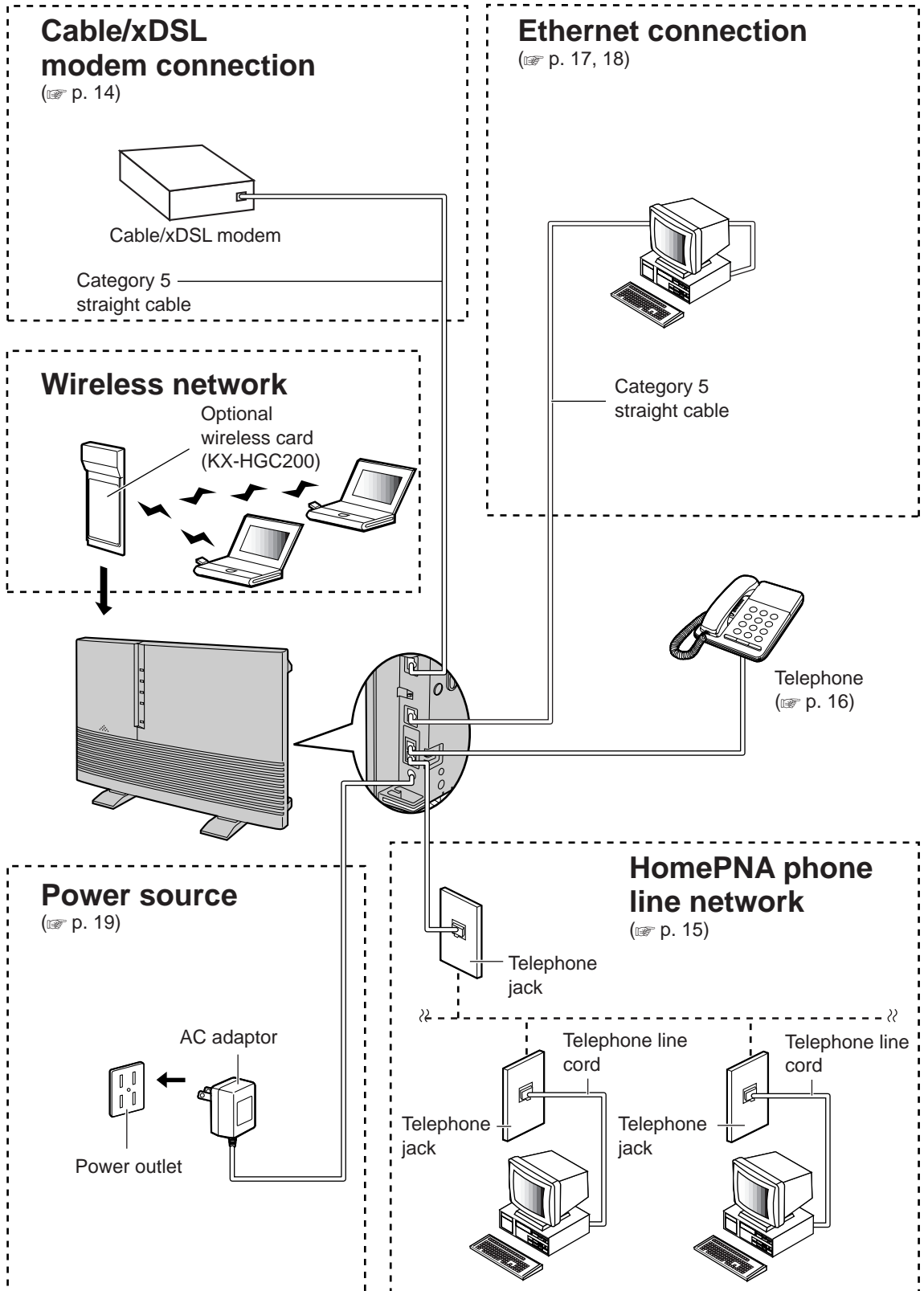| LED	Light Color	Indicates
⊏⊐ INTERNET	Green	The KX-HGW200 is turned on and successfully connected to a cable/xDSL modem. The data link is correctly established between the KX-HGW200 and a cable/xDSL modem.
⊰⊱ INTERNET	Green (Blinking)	The KX-HGW200 is sending or receiving data through this port.
⊏⊐ ETHERNET	Green	The KX-HGW200 is turned on and successfully connected to a hub or a computer. The data link is correctly established between the KX-HGW200 and a computer.
⊰⊱ ETHERNET	Green (Blinking)	The KX-HGW200 is sending or receiving data through this port.
⊏⊐ HomePNA	Green	The KX-HGW200 is turned on and successfully connected to a telephone line. The data link is correctly established between the KX-HGW200 and a computer.
⊏⊐ WIRELESS (option)	Green	The optional wireless card KX-HGC200 is successfully installed in the KX-HGW200.
⊏⊐ POWER	Green	The KX-HGW200 is turned on.
⊰⊱ POWER	Green (Blinking fast)	The KX-HGW200 software is not working correctly. Access the KX-HGW200 administration web screen first and follow the instructions on the Firmware Upgrade screen.
⊰⊱ POWER	Green (Blinking slowly)	The KX-HGW200 software is not working correctly. Wait for a second.
⊏⊐ POWER	Red	The KX-HGW200 hardware is defective. Press the RESET button on the KX-HGW200 (see p. 46).
⊰⊱ POWER	Red (Blinking)	The KX-HGW200 hardware is defective. Press the RESET button on the KX-HGW200 (see p. 46).

Setup

Diagram of Connections

**Cable/xDSL
modem connection**
(☞ p. 14)

Cable/xDSL modem

Category 5
straight cable

Ethernet connection
(☞ p. 17, 18)

Category 5
straight cable

Wireless network

Optional
wireless card
(KX-HGC200)

Telephone
(☞ p. 16)

Power source
(☞ p. 19)

AC adaptor

Power outlet

**HomePNA phone
line network**
(☞ p. 15)

Telephone
jack

Telephone line
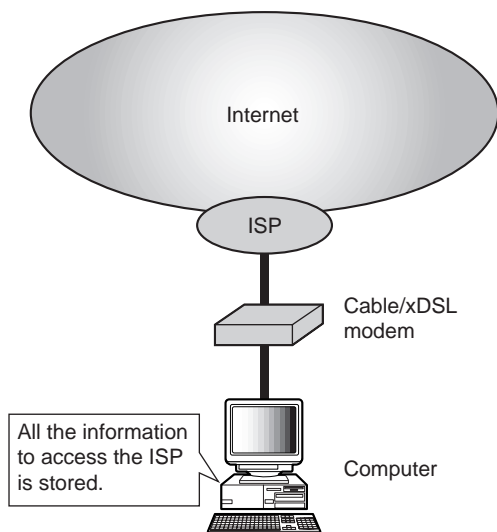cord

Telephone line
cord

Telephone
jack

Telephone
jack

How the KX-HGW200 Works

**Your current setup
without the KX-HGW200**

**Internet and home network
with the KX-HGW200**
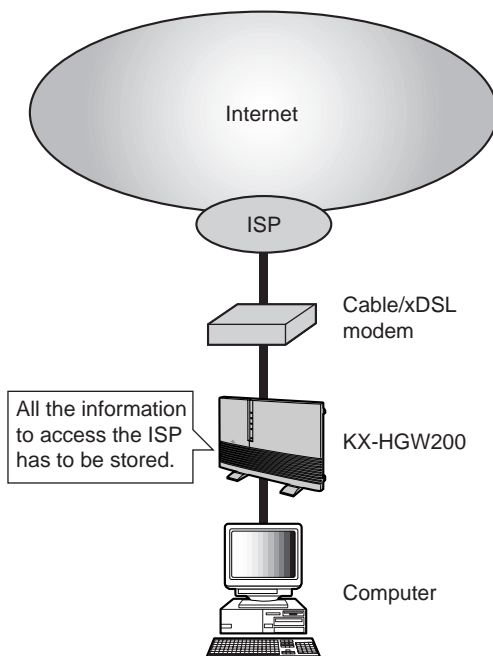
Before installing the KX-HGW200

● The computer communicates with your ISP through cable/xDSL modem.
● Then the computer sends your account information to your ISP, and the ISP checks whether or not you are a member.

That's why computer stores all the information for ISP recognition, i.e., login name and password.

After installing the KX-HGW200

● The KX-HGW200 communicates with your ISP instead of your computer. Therefore, the KX-HGW200 needs to hold the same account information as your computer would.
● If you currently use a cable/xDSL modem without the KX-HGW200, all the ISP information that needs to be entered in the KX-HGW200 is in your computer.
Please see p. 21 for details on how to collect the information you have to enter in the KX-HGW200.

> **Before you install the KX-HGW200,** please confirm that you can access the Internet with its current connection to a cable/xDSL modem.
> If you can not connect to the Internet from your computer, please set up your computer to access the Internet according to the instructions given by your cable/xDSL service provider before installing the KX-HGW200.

Preparation

Before starting to install the KX-HGW200, make sure that you have everything below and all the devices are turned off.
● A Windows or Macintosh computer with web browser software*, a network card (Ethernet, HomePNA or wireless card) and TCP/IP installed.
● A cable/xDSL modem with a cable
● An Internet access account and information provided by the ISP
*See "System Requirements" on p. 8 for recommended browsers.

Connecting the KX-HGW200 to a Cable/xDSL Modem

1 Make sure the cable/xDSL modem is turned off.

2 Connect the category 5 straight cable (with 8-pin RJ-45 connector) to the RJ-45 jack of the cable/xDSL modem.

3 Connect the other end of the category 5 straight cable to the TO MODEM port of the KX-HGW200.

Category 5 straight cable

TO MODEM port

To RJ-45 jack on the Cable/xDSL modem
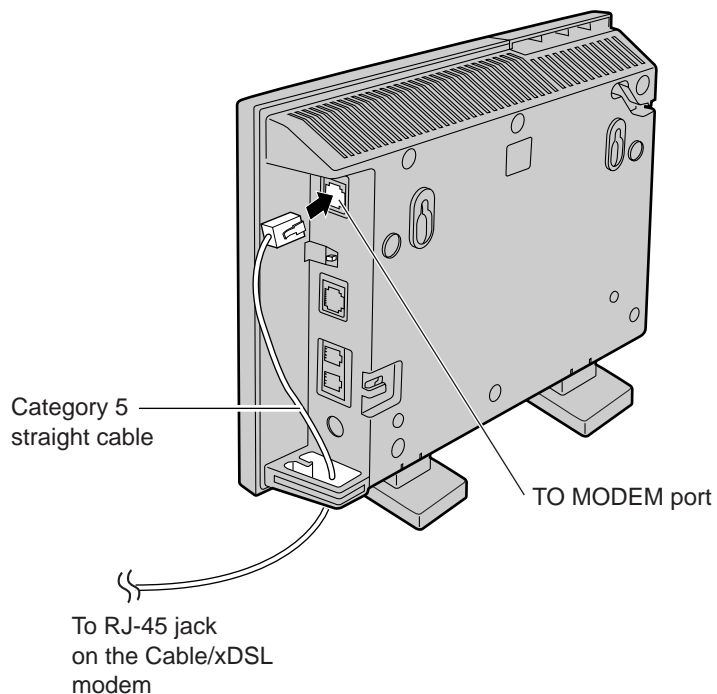
Connecting the KX-HGW200 to a Home Network

To connect computers using the HomePNA:

Note:
For using HomePNA:
- A HomePNA card and software have to be installed properly on the computer first.
- To avoid interference with the HomePNA signals, do not use an ADSL filter, which may have been provided by your phone company, on the telephone line or on the line that runs in between the telephone jack and computer. If you have two lines installed and one of them is dedicated to phone use, you can use the ADSL filter on that phone line only.
- Use the telephone line that does not have the ADSL filter for your HomePNA connection.

1 Make sure the computer is turned off.

2 Connect the telephone line cord (included accessory) to the LINE jack on the KX-HGW200.
Connect the other end of the telephone line cord to the wall mounted single-line telephone jack.

Telephone line cord (included accessory)

LINE jack

Single-line telephone jack (RJ11C)

To RJ-45 jack on the cable/xDSL modem
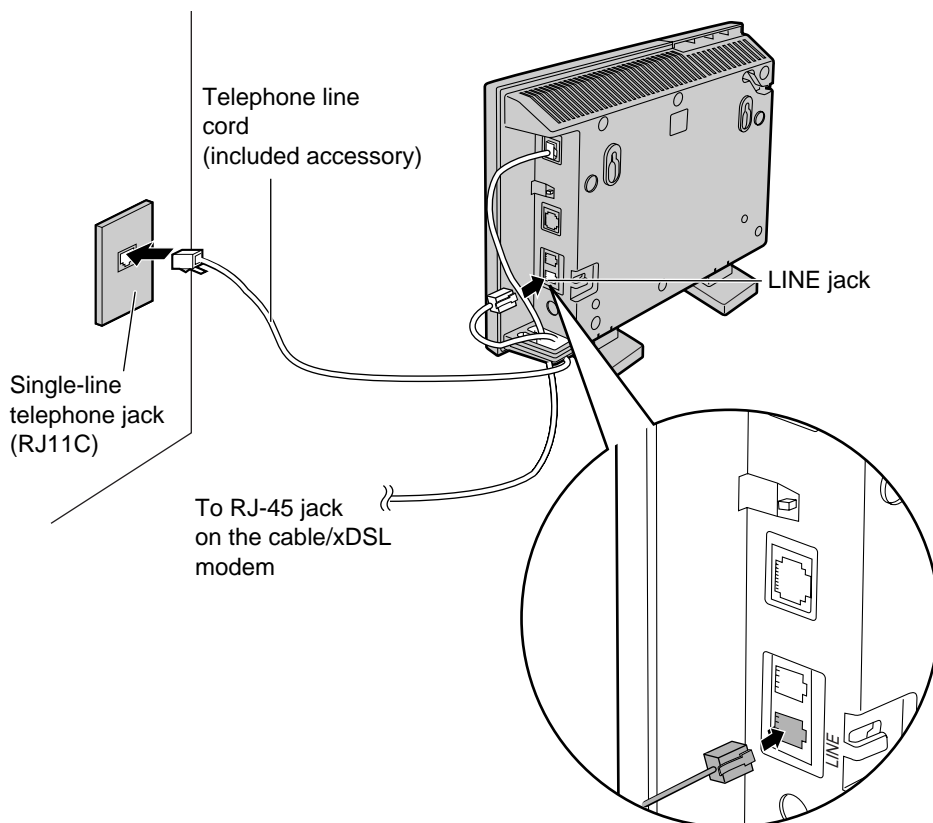
(Continued ▶)

3 Connect the computer to the wall mounted single-line telephone jack. For more detailed information, refer to the HomePNA card manual.

4 If you are thinking of attaching a telephone to the KX-HGW200, follow the steps below (**a**, **b** and **c**). If not, skip these steps.

   a: Connect the end of the telephone line cord to the PHONE jack on the KX-HGW200.
   b: Connect the other end of the telephone line cord to the single-line telephone jack of the telephone.
   c: Make sure a dial tone is heard from the handset of the telephone.

Telephone line cord

Telephone

PHONE jack
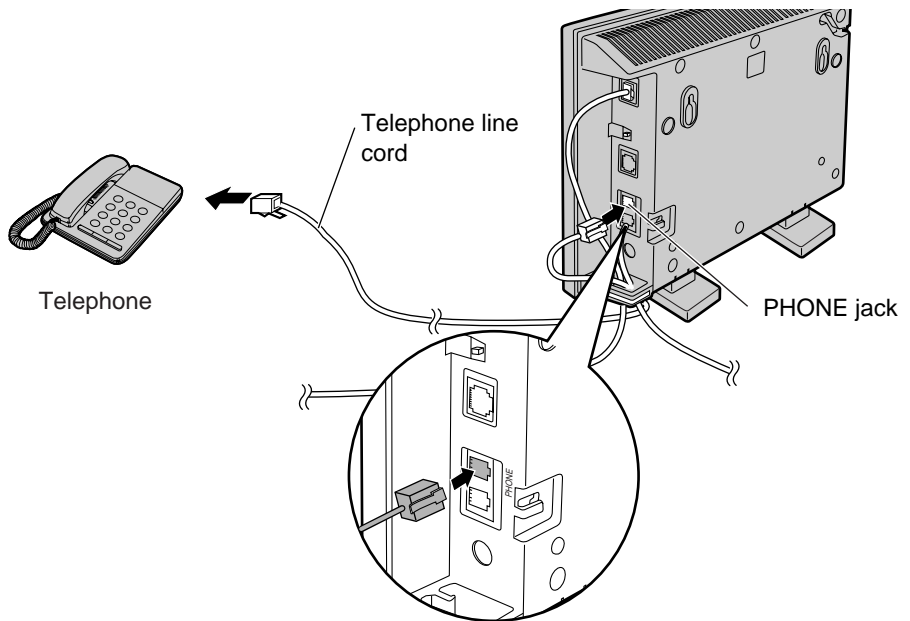
To connect computers using optional wireless cards:

An optional Panasonic wireless card, model KX-HGC200, is required for the KX-HGW200 and for each computer in the network.

● Before you insert the wireless card into the KX-HGW200, turn off the KX-HGW200 by removing the AC adaptor.
● Install a Panasonic wireless card in the wireless card slot of the KX-HGW200 and in the appropriate PCMCIA slot of the computer(s). The driver software that comes with the optional wireless card must be installed in the computer.
● To install the optional Panasonic wireless card KX-HGC200 and the driver software in either the KX-HGW200 or a computer, refer to the operating instructions that come with the wireless card.

The KX-HGW200 is compatible with the optional Panasonic wireless card KX-HGC200 only. Do not insert any other PCMCIA card into the KX-HGW200.

To connect a computer directly to the KX-HGW200:

Note:
If using an Ethernet connection, an Ethernet card and software have to be installed properly on the computer first.

1   Make sure the computer is turned off.

2   Set the HUB/PC switch on the KX-HGW200 to PC.
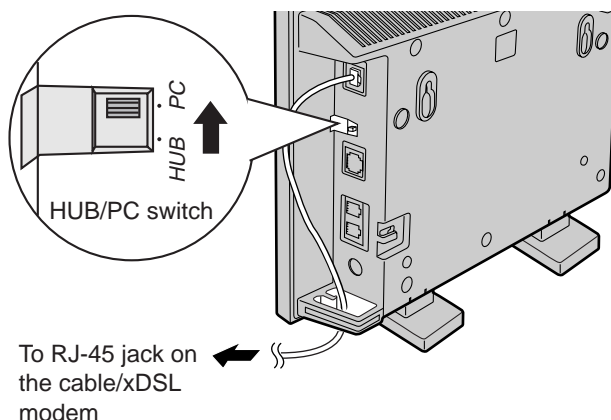
PC

HUB

HUB/PC switch

To RJ-45 jack on the cable/xDSL modem

3   Connect the category 5 straight cable to TO COMPUTER/ETHERNET HUB port of the KX-HGW200.

TO COMPUTER/ ETHERNET HUB port
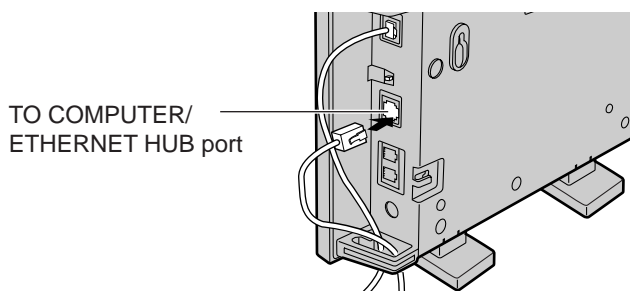
4   Connect the other end of the category 5 straight cable to the LAN port of the computer.

LAN port

Category 5 straight cable

Computer (Rear Side)

To TO COMPUTER/ ETHERNET HUB port of the KX-HGW200
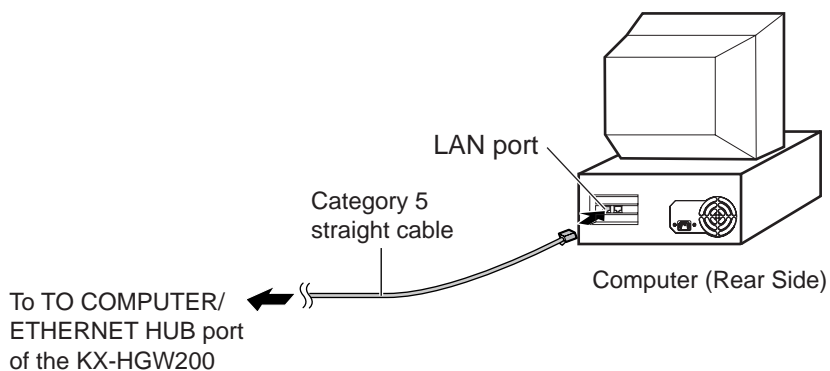
To connect an Ethernet Hub to the KX-HGW200:

If you are not currently using an Ethernet hub to network more than one computer, please skip this page.

Note:
If using an Ethernet connection, an Ethernet card and software have to be installed properly on the computer first.

1   Make sure the computers and other devices connected to the Ethernet Hub are turned off.

2   Set the HUB/PC switch of the KX-HGW200 to HUB.
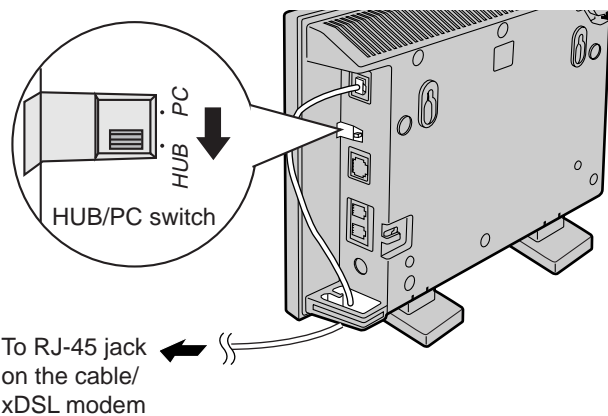
HUB/PC switch

To RJ-45 jack on the cable/ xDSL modem

3   Connect the category 5 straight cable to TO COMPUTER/ETHERNET HUB port of the KX-HGW200.

TO COMPUTER/ ETHERNET HUB port
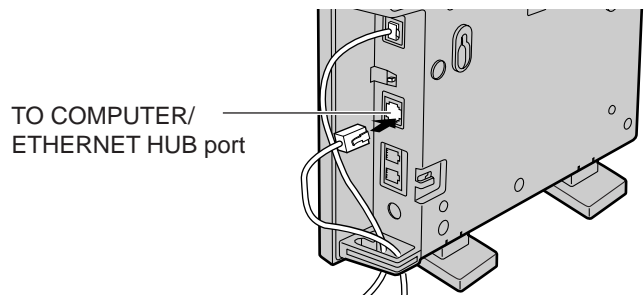
4   Connect the other end of the category 5 straight cable to the LAN port of the Ethernet Hub.

LAN port

Category 5 straight cable
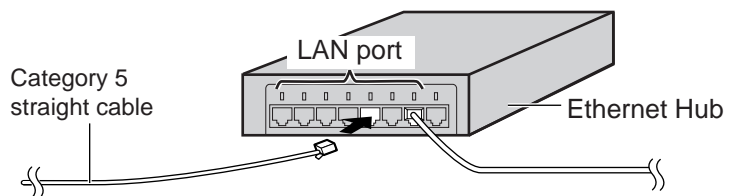
Ethernet Hub

Note:
Do not connect the category 5 straight cable to the UPLINK port of the Ethernet Hub.

Turning on the Devices

After all connections have been made, all the devices should be turned on following the steps below.
Make sure all the devices in your home network including the modem and the Ethernet Hub are turned off.

1 Turn on the cable/xDSL modem.

   ≥After turning it on, leaving the modem idle for few minutes is recommended.

2 Connect the DC plug of the AC adaptor to the DC IN jack of the KX-HGW200 and connect the AC plug of the AC adaptor to the power outlet.

DC IN jack

DC plug

Secure the DC plug using the hook.

Power Outlet (AC120 V, 60 Hz)

AC plug

DC plug

AC adaptor (included accessory)
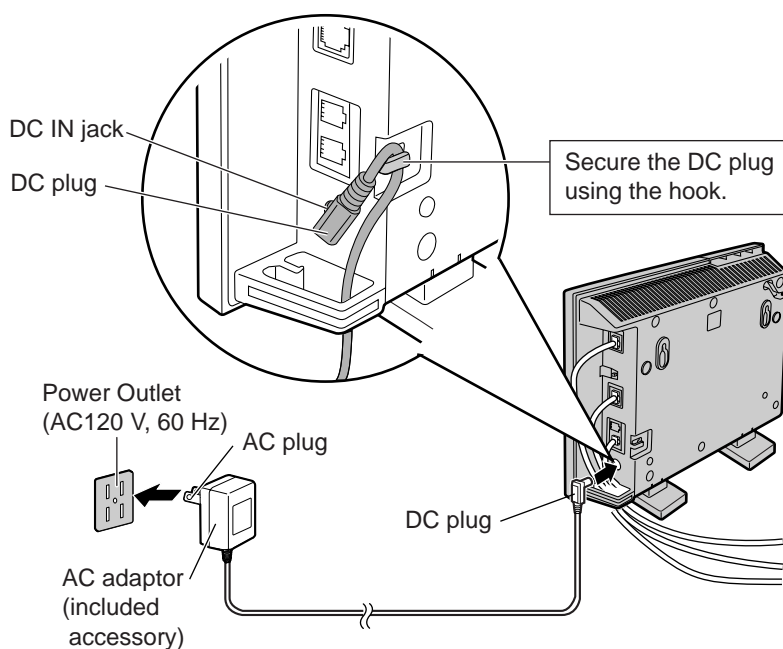
≥USE ONLY WITH Panasonic AC ADAPTOR (Order No. PQLV12).
≥The AC adaptor must remain connected at all times.
 (It is normal for the adaptor to feel warm during use.)

3 If you use an Ethernet Hub, turn it on.

4 Turn on the computers in the home network.

   ≥After turning on all the devices, see p. 11 and make sure that the appropriate indicator lights are on.

Configuring the Computer

After completing the connections (p. 14–19), to use the DHCP server function of the KX-HGW200, it is necessary to set up each computer. Follow the steps below to set up the computers.

Setup of a Microsoft® Windows® Computer

The steps below are for Windows 98.

1 Turn on the computer.

2 From the **Start** menu, select **Settings** and click **Control Panel**.

3 Double-click the **Network** icon.
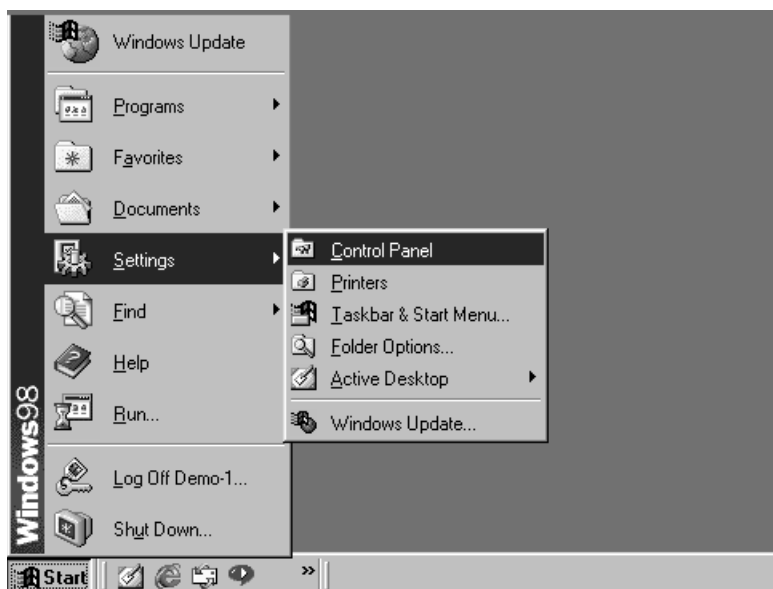
Double-click this icon.
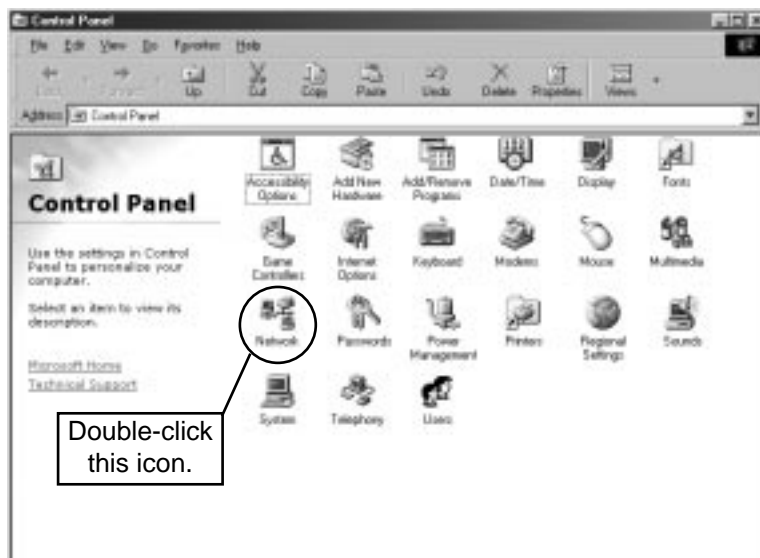
4 Select **TCP/IP** that is associated with your network card and click **Properties** in the **Network** dialog box.

Network ?|X|

Configuration | Identification | Access Control |

The following network components are installed:

■ 10M PCI Phoneline Adapter
■ Fast Ethernet Adapter
TCP/IP ->10M Phoneline Adapter
TCP/IP -> Fast Ethernet Adapter
File and printer sharing for Microsoft Networks

Add... | Remove | Properties

Primary Network Logon:

Microsoft Family Logon

File and Print Sharing...

Description
TCP/IP is the protocol you use to connect to the Internet and
wide-area networks.

OK | Cancel

5 Click the **IP Address** tab in the **TCP/IP Properties** dialog box.

Please make note for future reference

✎**Memo**① (See p. 32)
If **Obtain an IP address automatically** is selected, check the DHCP.
☐DHCP

If the data field has already been filled, record the parameters first.

✎**Memo**② (See p. 32)
Record the **IP Address** here:

_____

✎**Memo**③ (See p. 32)
Record the **Subnet Mask** here:

_____

TCP/IP Properties ?|X|

Bindings | Advanced | NetBIOS
DNS Configuration | Gateway | WINS Configuration | IP Address

An IP address can be automatically assigned to this computer.
If your network does not automatically assign IP addresses, ask
your network administrator for an address, and then type it in
the space below.

○ Obtain an IP address automatically

○ Specify an IP address:

IP Address: [. . .]

Subnet Mask: [. . .]

OK | Cancel
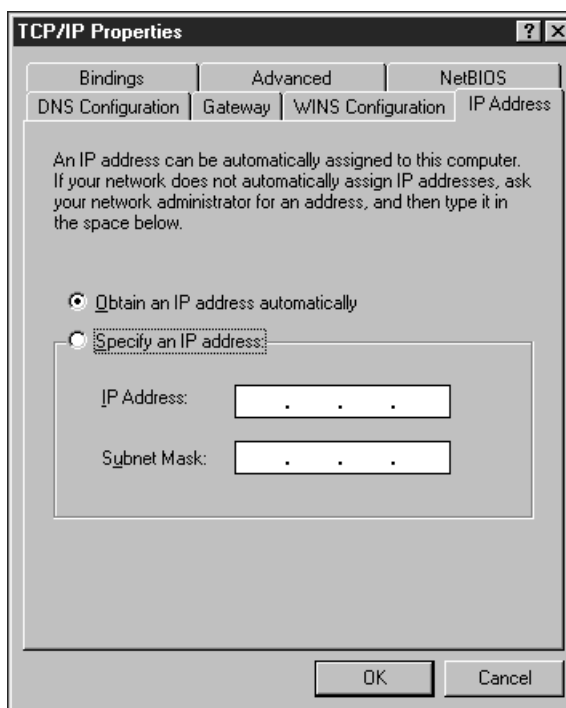
6 Select **Obtain an IP address automatically**.

TCP/IP Properties ? ✕

| Bindings | Advanced | NetBIOS |
| DNS Configuration | Gateway | WINS Configuration | IP Address |

An IP address can be automatically assigned to this computer.
If your network does not automatically assign IP addresses, ask
your network administrator for an address, and then type it in
the space below.

⊙ Obtain an IP address automatically

○ Specify an IP address:

IP Address: [. . .]

Subnet Mask: [. . .]

OK   Cancel

7 Click **Gateway** tab.

8 Make sure nothing is entered into the **Installed gateways** data setting field. If any numbers or characters appear, record them, then remove them.
To remove them, select the numbers or characters, and then click **Remove**.
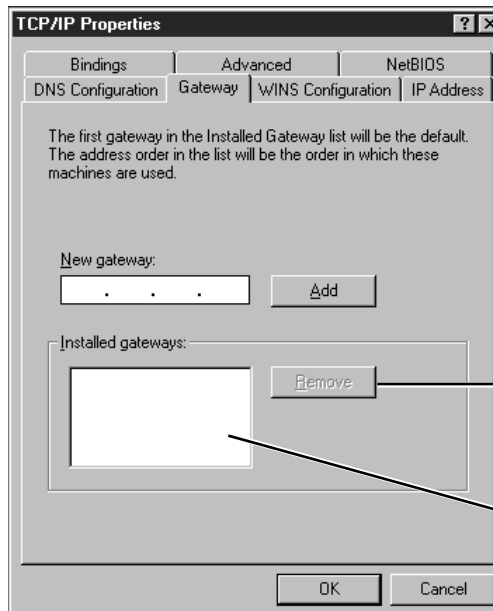
Please make note for future reference

✎ **Memo**④ (See p. 32)
If the data field has already been filled, record the parameters first.
Record the **Installed gateways** here:

TCP/IP Properties ? ✕

| Bindings | Advanced | NetBIOS |
| DNS Configuration | Gateway | WINS Configuration | IP Address |

The first gateway in the Installed Gateway list will be the default.
The address order in the list will be the order in which these
machines are used.

New gateway:
[. . .]   Add

Installed gateways:
[   ]   Remove

OK   Cancel

Click **Remove** when an address is selected.

Installed gateways data setting field

22

Installation

9 Click the **DNS Configuration** tab.

Please make note for future reference

✎ **Memo**⑤ (See p. 32)
If the data field has already been filled, record the parameters first.
Record the DNS here.

Domain:

DNS server:

10 Select **Disable DNS**.

11 Click **OK**.

The **Network** dialog box appears.
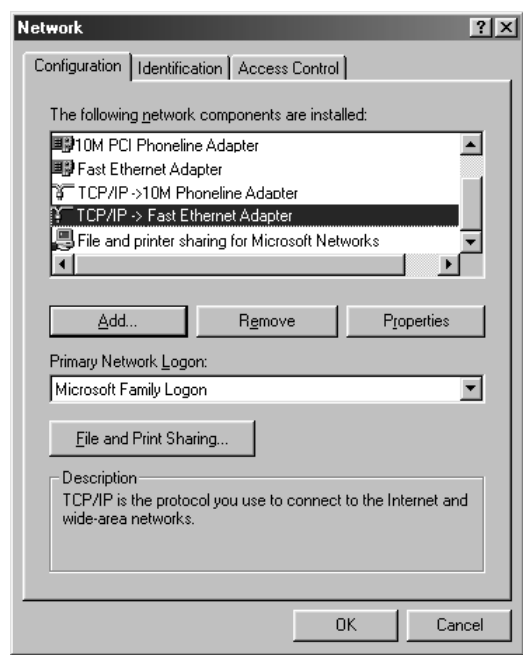
12 Click **Identification** tab.

Network	? X

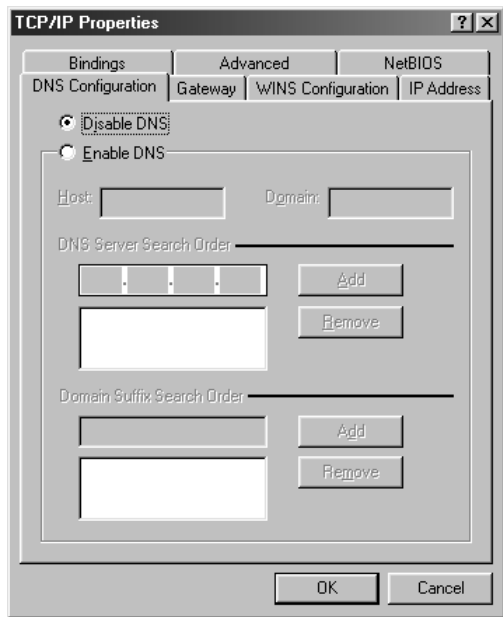Configuration | Identification | Access Control |

Windows uses the following information to identify your computer on the network. Please type a name for this computer, the workgroup it will appear in, and a short description of the computer.

Computer name: pd02

Workgroup: WORKGROUP

Computer Description: KME

OK   Cancel
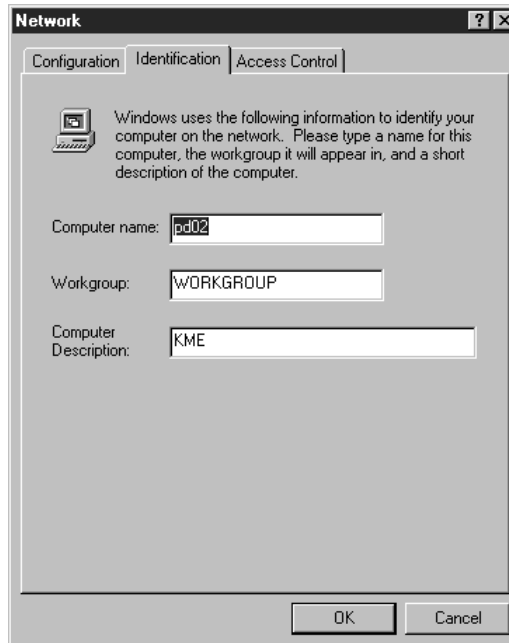
13 Enter the name of the computer into the **Computer name** data field.

14 Click **OK**.

The **System Settings Change** dialog box appears.

System Settings Change

You must restart your computer before the new settings will take effect.

Do you want to restart your computer now?

Yes   No
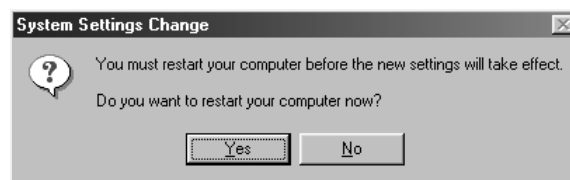
15 Click **Yes** and restart the computer.

Your computer will be able to obtain an IP address from the KX-HGW200.

● The setup of the computer has been completed. Set up the other computers in the home network in the same manner.

Information:
To confirm the setup of the KX-HGW200, see "Confirmation of the Setup" on p. 27–29.

24

Setup of a Macintosh® Computer

The steps below are for Mac® OS 9.0 operating system software.

1 Turn on the computer.

2 From the Apple menu, select **Control Panels** and **TCP/IP**.

3 Select **Ethernet** from the **Connect via** pop-up menu.

Please make note for future reference
✎**Memo**① (See p. 32)
If **Using DHCP Server** is selected, check the DHCP.
☐DHCP

If the data field has already been filled, record the parameters first.
✎**Memo**② (See p. 32)
Record the **IP Address** here:

✎**Memo**③ (See p. 32)
Record the **Subnet mask** here:

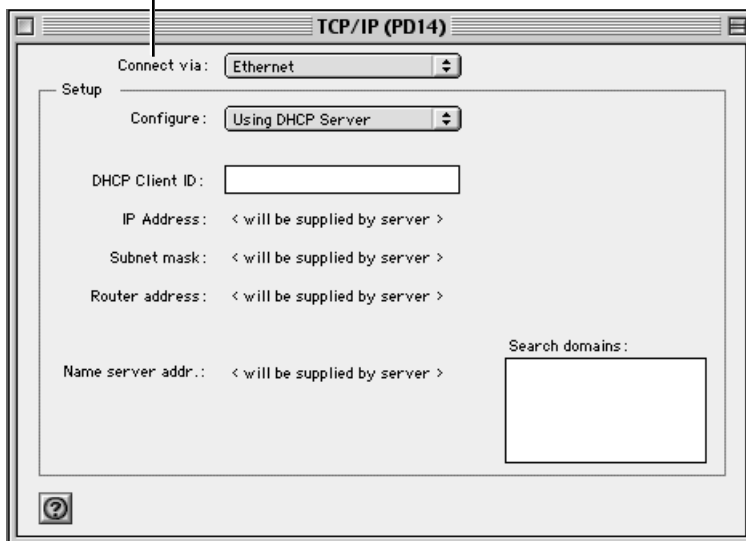✎**Memo**④ (See p. 32)
Record the **Router address** here:

✎**Memo**⑤ (See p. 32)
Record the DNS here:
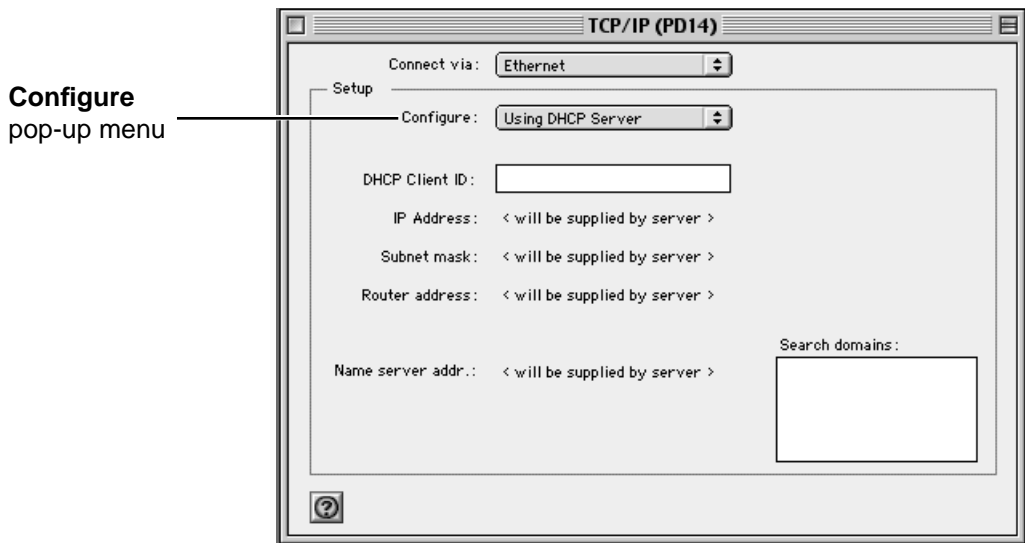**Search domains**:

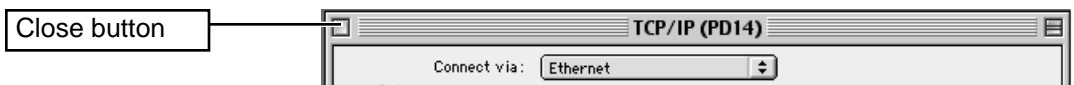**Name server addr.**:

Connect via pop-up menu

(Continued ▶)

4 Select **Using DHCP Server** from the **Configure** pop-up menu.

Configure
pop-up menu

```
┌──────────────────────── TCP/IP (PD14) ═══════════════════════════┐
│                Connect via: [ Ethernet          ▲▼]              │
│ ┌─ Setup                                                         │
│                  Configure: [ Using DHCP Server  ▲▼]             │
│                                                                  │
│             DHCP Client ID: [                         ]          │
│                IP Address:  < will be supplied by server >       │
│               Subnet mask:  < will be supplied by server >       │
│             Router address: < will be supplied by server >       │
│                                              Search domains :    │
│          Name server addr.: < will be supplied by server >  ┌──┐ │
│                                                             │  │ │
│                                                             └──┘ │
│  ⊘                                                               │
└──────────────────────────────────────────────────────────────────┘
```

5 Click the close button.

Close button

```
┌── TCP/IP (PD14) ═══════════════════════════════════════════════┐
│                Connect via: [ Ethernet          ▲▼]              │
```

The dialog box below appears.

```
┌──────────────────────────────────────────────────────────┐
│  ⚠  Save changes to the current configuration?           │
│ /!\                                                       │
│                                                           │
│                                                           │
│                                                           │
│   [ Don't Save ]        [ Cancel ]      [[ Save ]]        │
└──────────────────────────────────────────────────────────┘
```
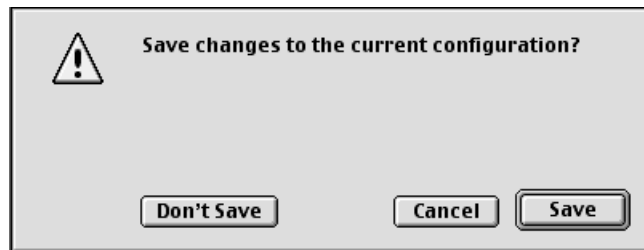
6 Click **Save**.

Your computer will be able to obtain an IP address from the
KX-HGW200.

● The setup of the computer has been completed. Set up the
other computers in the home network in the same manner.

Information:
To confirm the setup of the KX-HGW200, see "Confirmation of
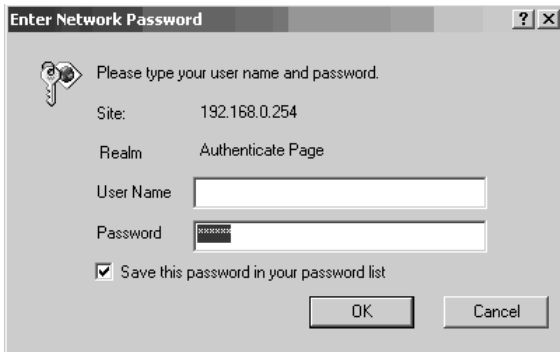the Setup" on p. 27–29.
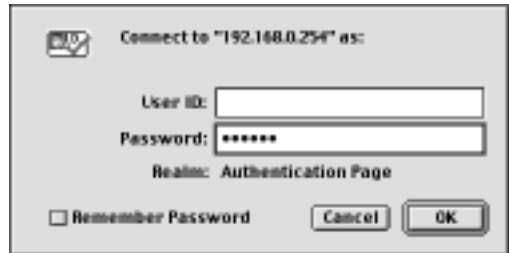
26

Confirmation of the Home Network Setup

The KX-HGW200 has a built-in http server function. If you can access its home page screen, the connection between the KX-HGW200 and the computer in the home network has been successfully made.
Follow the steps below and confirm the setup of the computers in the home network.

1   On the computer, start up your web browser.

2   Enter "http://192.168.0.254" in the address field (URL line) of your web browser.

3   The User Name/ID and Password dialog box appears. Leave User Name/ID data field blank.

4   Type "KX-HGW" for the password.

For Windows

Enter Network Password   ? ✕

Please type your user name and password.

Site: 192.168.0.254

Realm   Authenticate Page

User Name   [   ]

Password   [xxxxxx   ]

☑ Save this password in your password list

[OK]   [Cancel]

For Macintosh

Connect to "192.168.0.254" as:

User ID: [   ]

Password: [••••••   ]

Realm: Authentication Page

☐ Remember Password   [Cancel] [OK]

If the dialog box does not appear:
1: Make sure "http://192.168.0.254" has been correctly entered into the address field (URL line).
2: Make sure the connections between the computer and the KX-HGW200 have been successfully made.
3: Make sure that the computers, the KX-HGW200 and other devices in the home network have been turned on in the proper order. See "Turning on the Devices" on p. 19 for more detailed information.

When you use the proxy server setting:
Setup of your web browser may be needed to access the KX-HGW200 administration web screen. See p. 47–50 and check your setting.
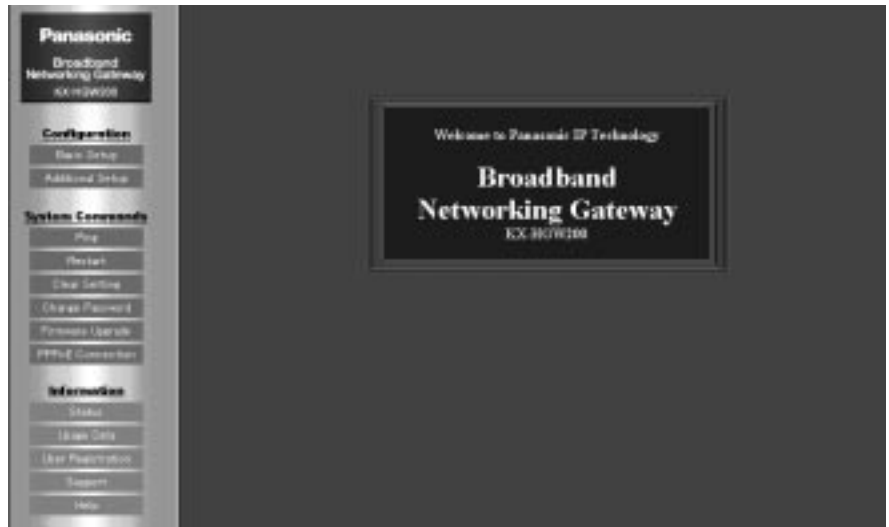
Information:
You can change the password on the KX-HGW200 administration web screen. See p. 38 for more detailed information.

Installation

5 Click OK.

The home page screen on the KX-HGW200 appears.

● The home network setup is completed.

If the above screen does not appear:
Reenter the password "KX-HGW" in the password field.

Information:
For more details about the web screens, see "About the KX-HGW200 Administration Web Screen" on p. 30.

Internet Configuration and Confirmation

Internet Configuration

Some carriers or ISPs (Internet Service Providers) require you to enter the parameters for your Internet connection. These parameters should be collected and noted using the following Quick Prep Sheet or by using the steps on pages 20–26. In this case, set the parameters to the KX-HGW200 first, and then confirm the setup. The parameters can be entered in the Basic Setup web screen of the KX-HGW200. Follow the steps below (**1-4**) and enter the parameters.

1: Access the KX-HGW200 administration web screen following the steps on p. 27 and 28.

2: Make the Basic Setup screen appear by clicking the $\boxed{\textbf{Basic Setup}}$ on the KX-HGW200 administration top page.

3: Enter the parameters following the steps on p. 31.

4: When you have finished, restart the computers.

Confirmation

After you have confirmed the connection between the computer and the KX-HGW200, and set up your Internet connection parameters, confirmation of the connection between the Internet and the KX-HGW200 is needed.
If you can access a WWW (World Wide Web) site, your home network has been successfully linked to the Internet.

1   On the computer, start up your web browser.

2   Enter the address of a web site in the address field (URL line) of your web browser and press the Enter key on your computer.

  A WWW site appears.

If a web site does not appear:

1: Make sure the address of the web site has been correctly entered in the address field (URL line) of the web browser.

2: Make sure that "Confirmation of the Home Network Setup" on p. 27 is successfully made.

3: Make sure the connection between the KX-HGW200 and the cable/xDSL modem is successfully made.

4: Make sure that the computers, the KX-HGW200, cable/xDSL modem and other devices in the home network have been turned on in proper order. See "Turning on the Devices" on p. 19 for more detailed information.

5: Confirm the information on your Internet connection provided by your ISP. If you are required to enter some parameters, see "Basic Setup" on p. 31 and set the parameters to the KX-HGW200.

About the KX-HGW200 Administration Web Screen

The KX-HGW200 Administration Web Screen allows you to easily program the KX-HGW200 from your computer and to access other helpful information regarding operation of the unit.
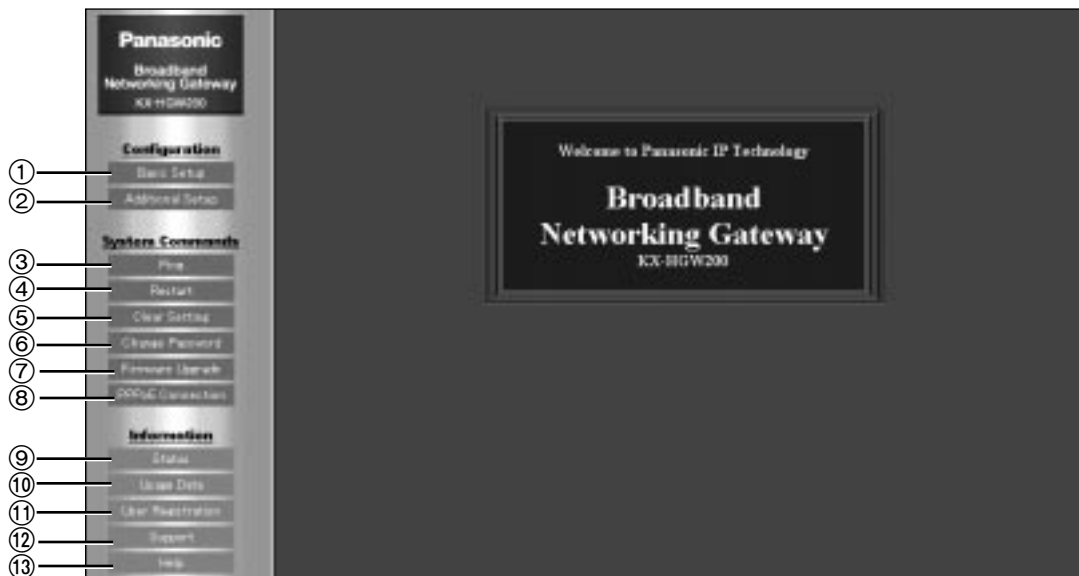
Configuration:

① **Basic Setup**: Allows you to set the basic parameters used to access the Internet

② **Additional Setup**: Allows you to set up the home network and set the additional parameters used to access the Internet

System Commands:

③ **Ping**: Allows you to confirm if a device with an IP address is successfully linked to your KX-HGW200

④ **Restart**: Allows you to restart the KX-HGW200 with all the parameters preserved

⑤ **Clear Setting**: Allows you to initialize the KX-HGW200, resetting all the parameters

⑥ **Change Password**: Allows you to change the password to access the KX-HGW200 administration web screen

⑦ **Firmware Upgrade***: Allows you to upgrade the KX-HGW200 software

⑧ **PPPoE Connection**: Allows you to manually initiate/stop your PPPoE connection

Information:

⑨ **Status**: Allows you to view the status of the KX-HGW200

⑩ **Usage Data**: Allows you to view the statistics of the KX-HGW200

⑪ **User Registration***: Allows you to connect to the web site for your registration

⑫ **Support***: Allows you to connect to the web site for helping you with the KX-HGW200

⑬ **Help**: Provides you with instructions about the commands and functions of the KX-HGW200 administration web screen

* These functions require an Internet connection.

Notes:
- If you enter the setup parameters, do not enter the space in the data field.
- The KX-HGW200 web screens that are shown in this Operating Instructions manual are subject to change without notice.

Setting Up the Parameters ▶

Basic Setup

Some carriers or ISPs (Internet Service Providers) require you to enter several network parameters for Internet connection. These parameters should be collected and noted using the following Quick Prep Sheet or by using the steps on pages 20–26. To set the parameters to the KX-HGW200, do the following.

1 Click **Basic Setup** on the KX-HGW200 administration web screen.

See the next page for instructions about each data field.

The screen below appears.

2 Enter each parameter in the proper data field.
See p. 32 for instructions about each data field.

● To reset the current settings, click **Undo**.

3 When you have finished, click **Save**.

The settings will be saved.

4 When prompted, click **Restart Now!** on the web screen.

Note:
When you change the Basic Setup setting, restart the computer(s) in the home network.

Using the Web Screen

◆ Setting Up the Parameters

Instructions for the data fields

Unless the ISP requires you to enter the parameters, leave these data fields blank.

Internet Connection

Depending on the ISP, your Internet connection will be one of several types. Check the information provided by the ISP and make sure which type of connection is required. Then, select the appropriate connection type from DHCP, PPPoE or Static on the KX-HGW200 web screen and enter the parameters if required by the ISP.

DHCP ●**Device Name**	When the ISP uses the DHCP server function, basically no settings of the parameters are needed except for the entry of the Device Name. Select the DHCP radio button according to the check mark in the ✎**Memo**① (See p. 21, 25 or Quick Prep Sheet). Or, check the information provided from the ISP and enter the ISP specified Device Name in the data field if required. If not required, leave the data field blank.

PPPoE*
 	
●**User Name/**
  Password
●**Service Name**
 	
●**Access**
  Concentrator Name
	When the ISP requires you to use the PPPoE connection, entry of these data fields is needed.
	
	Enter ISP specified User Name and Password. Connection to the ISP is made using this User Name and Password.
	Enter ISP specified Service Name if required. When a Service Name is not specified by the ISP, leave this data field blank.
	Enter ISP specified Access Concentrator Name (sometimes specified as "AC Name") if required. When the name is not specified by the ISP, leave this data field blank.

Static ●**IP Address** ●**Netmask**	When the ISP requires you to use the static IP connection, enter the ISP specified IP Address and Netmask (Subnet mask) in each data field. Set the parameters recorded in the ✎**Memo**② and ✎**Memo**③ (See p. 21, 25 or Quick Prep Sheet).

*The parameters for the PPPoE connection have not been collected in the ✎**Memo** sections of the previous pages or Quick Prep Sheet. To set these parameters to the KX-HGW200, refer to the information from your carrier or ISP.

Default Gateway

●**Gateway**	When the ISP requires it, enter the gateway IP Address in this data field. Set the parameter recorded in the ✎**Memo**④ (See p. 22, 25 or Quick Prep Sheet).

DNS

●**DNS Server 1/** **DNS Server 2** ●**Domain Name**	When the ISP requires them, enter the domain name server IP Addresses in these data fields. When the DNS server 2 data field is not specified, leave this data field blank. When the ISP requires it, enter the domain name in this data field. Set the parameters recorded in the ✎**Memo**⑤ (See p. 23, 25 or Quick Prep Sheet).

Additional Setup

The Additional Setup screen allows you to set the home network parameters and additional parameters used to access the Internet. To change the home network settings, follow the steps below.

1 Click **Additional Setup** on the KX-HGW200 administration web screen.
See p. 34 and 35 for instructions about each field.

The screen below appears.

2 Enter each parameter in the proper data field.

● To undo the current settings, click **Undo**.

3 When you have finished, click **Save**.

The settings will be saved.

4 When prompted, click **Restart Now!** on the web screen.

Note:
When you change the Additional Setup setting, set up and restart the computer(s) in the home network (p. 52).

Instructions for the data fields

IP Address (Home side)

●**IP Address**	Enter the local IP address of the KX-HGW200 in this data field. The default parameter is "192.168.0.254". If you change this IP address, change the gateway address in each computer (p. 53 or 55) and change the proxy server setting of the web browser (p. 47 or 49) in each computer if necessary. The IP address must be set out of the **Available Address Range**.
●**Netmask**	Enter the netmask of the local IP address of the KX-HGW200 in this data field. The default parameter is "255.255.255.0".

IP Masquerade

●**IP Masquerade**	This function translates local addresses on the home network into one IP address. The default setting of the KX-HGW200 is "Use".

DHCP Server

●**DHCP Server**	This function enables the KX-HGW200 to assign a local IP address automatically to a device in the home network. The default setting of the KX-HGW200 is "Use". To set up the KX-HGW200 for a static IP network, click "Do Not Use" check box. If you change the DHCP server setting, set the IP address in the each computer. (See p. 52 or 55.)
●**Available Address Range**	When the DHCP server function of the KX-HGW200 is used, enter the extent of the assigned local IP addresses in this data field, up to 32 addresses.

PPPoE Connection

When a PPPoE connection is used to connect to the ISP, you can select how to initiate/stop the PPPoE connection. First, select how to connect from the **Connect**. If your payment plan with your ISP does not include unlimited Internet access and you are charged, instead, according to your usage, it is recommended that you select "Automatic" or "Manual".

●**Always connected**	The PPPoE connection is online as long as the KX-HGW200 is turned on. This is the default setting.
●**Automatic**	The PPPoE connection is online only when data is being sent to the Internet from a computer in the home network. This function allows you to initiate/stop the PPPoE connection on the PPPoE connection screen, as the Manual setting does. For more details, see p. 41.
●**Manual**	The PPPoE connection is online only when you click **Connect** on the PPPoE connection screen. To stop the PPPoE connection, click **Disconnect** on the PPPoE connection screen. For more details, see p. 41.
Disconnection on Idle	If enabled, the KX-HGW200 detects when the PPPoE connection is idle and will automatically disconnect it when the length of idle time exceeds the user-specified limit. When you use this function, check "Enabled" and specify the time (1–99 minute). When "Always connected" is selected, the timer does not work.

Port Forwarding

The Port Forwarding table allows you to control the access from the Internet to the home network. The Protocol, Forwarding Port and Forwarding IP Address can be specified in the table below.

●**Entry**	Select "ENABLED" or "DISABLED". When set to "ENABLED", the entry works as specified. When set to "DISABLED", the entry does not work but will work when set to "ENABLED" later.
●**Protocol**	Set the protocol(s) with which you use to send/receive a data from the Internet by selecting from the protocol selector. The TCP, UDP or TCP&UDP are available.
●**Forwarding Port**	Specify the port(s) to receive data from the Internet. ●When a single port is desired, type the port number. ●When a range of port is desired, enter the range using "-". For example, to specify the ports from 2000 to 3000, enter as "2000-3000". The starting port number must be lower in value than ending port number.
●**Forwarding IP Address**	Set the local IP address of a computer in the home network. A data from the Internet is forwarded to the IP address entered in this data field. It is recommended to set up the KX-HGW200 for a static IP network.

Note:
Setting the table may pose a security risk because the unknown packet is sent from the outside of the home network. Please set the table only when you need to.
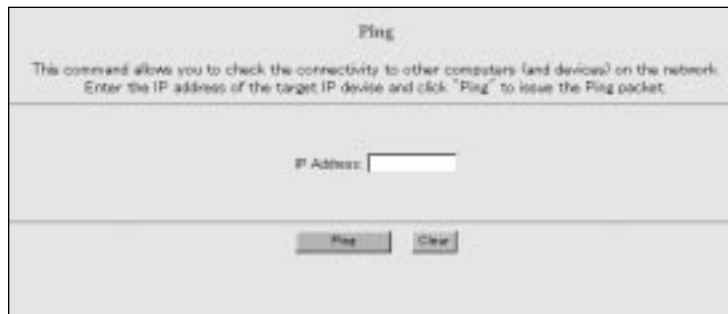
Using the Functions

Ping

The Ping function allows you to confirm if a device over the Internet or on the home network is successfully linked to your KX-HGW200 on the TCP/IP network. When a device is connected correctly and the power to the device is on, a "Success!" message appears on the display.

1 Click **Ping** on the KX-HGW200 administration web screen.

The screen below appears.

> **Ping**
>
> This command allows you to check the connectivity to other computers (and devices) on the network. Enter the IP address of the target IP device and click "Ping" to issue the Ping packet.
>
> IP Address: [   ]
>
> [Ping]   [Clear]

2 Enter the IP address of the device (Ex. 192.168.0.1) you want to ping.

●To clear the IP address data field, click **Clear**.

3 Click **Ping**.

●If completed, the screen below appears.

> **Success!**
>
> Reply from 192.168.0.254 icmp_seq=1 bytes=32 TTL=64

●If not completed, the screen below appears.
●The IP address might be invalid or some other reasons might be considered.

> **Error!**
>
> "0.0.0.0" : Invalid IP Address

Restart

The Restart function allows you to restart the KX-HGW200. All the parameters of the KX-HGW200 are preserved.

1 Click **Restart** on the KX-HGW200 administration web screen.

The screen below appears.

> Would you like to restart?
>
> This command allows you to restart your KX-HGW200.
> Please restart the KX-HGW200 whenever you modify its configuration.
>
> [Restart Now!]

2 Click **Restart Now!** .
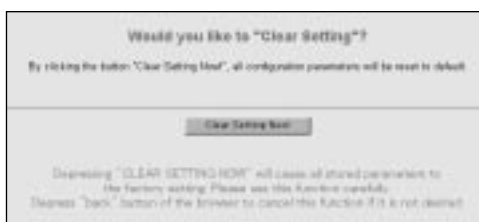
The KX-HGW200 restarts.

Note:
When you use the KX-HGW200 DHCP server function (p. 33), restart the computer(s) in the home network.

Clear Setting

The Clear Setting function allows you to initialize all the parameters of the KX-HGW200. All the parameters return to their default settings.

1 Click **Clear Setting** on the KX-HGW200 administration web screen.

The screen below appears.

> Would you like to "Clear Setting"?
>
> By clicking the button "Clear Setting Now!", all configuration parameters will be reset to default.
>
> [Clear Setting Now!]
>
> Depressing "CLEAR SETTING NOW" will cause all stored parameters to
> the factory setting. Please use this function carefully.
> Depress "back" button of the browser to cancel this function if it is not desired.

2 Click **Clear Setting Now !** .

All the parameters of the KX-HGW200 are initialized to the preset factory default settings.

Note:
When you use the KX-HGW200 DHCP server function (p. 33), restart the computer(s) in the home network.

Using the Web Screen

Change Password

The Change Password function allows you to change the password
(p. 27) of the KX-HGW200.

1 Click **Change Password** on the KX-HGW200 administration web
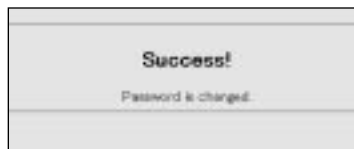screen.

The screen below appears.

2 Enter a new password into the **New password** text field (up to
15 digits) and retype the new password in the **Retype new password**
text field for confirmation, then click **Submit**.
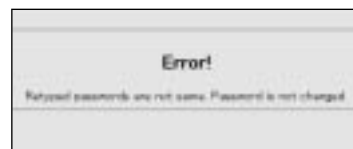
Notes:
- Do not use the copy/paste function on your computer when entering
  information into two password fields.
- The passwords are case-sensitive.

- If completed, the screen
  below appears.

- If not completed, the screen
  below appears.
- Your new password is
  different from the retyped
  one. Try retyping the new
  password again.

If you can not remember the password after changing it,
initialize the KX-HGW200 to reset the password to the default setting
"**KX-HGW**". See "To Initialize the KX-HGW200" on p. 46.

Firmware Upgrade

The Firmware Upgrade function allows you to install new KX-HGW200 software. After the software has been updated, all the parameters of the KX-HGW200 are preserved. To update the latest software, follow the steps below.

Note:
Before updating, please read the information text file (ex. Readme.txt) contained in the new software.

1 Click **Firmware Upgrade** on the KX-HGW200 administration web screen.

   The screen below appears.

   Firmware Upgrade

   The Firmware Upgrade function allows you to install new KX-HGW200 firmware.

   Firmware [   ] Browse...

   Upgrade   Clear

   You can download the latest firmware from here.

2 Click the colored text "here" at the bottom of the web screen. On the web site, follow the instructions and download the firmware to your computer.
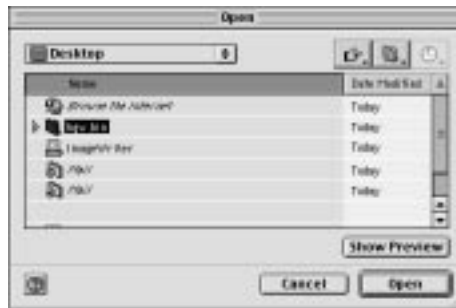
3 Click **Browse...** to select the software from the file selector.

   The **Choose file** (for Windows) or **Open** (for Macintosh) dialog box appears.

   For Windows

   For Macintosh

4 Select the desired software file from the file list and click **Open**.

(Continued ➧)

5 The selected file name appears in the **Filename** field of the Firmware Upgrade web screen. If you already know the new software file name, you can type it into the filename field directly.

6 Make sure the new software file name is selected and click **Upgrade**.

● If completed, after a few seconds, the screen below appears.

● If not completed, an error message appears. See below "Error messages" for more detailed information.

7 Click **Restart Now!** to restart the KX-HGW200.

The KX-HGW200 restarts.

Note:
When you use the KX-HGW200 DHCP server function (p. 33), restart the computer(s) in the home network.

Information:
The latest KX-HGW200 software is also available as follows:
● Included in a floppy disk or compact disk that came with the product.
  OR
● Downloaded from the Panasonic support web site.
  http://www.kmelink.net/ipproducts/us/download/index.html

Error messages

Error Message	Cause and Remedy
●**File size is invalid** ●**CRC error occurred**	Your selected software file is damaged. If the software file was downloaded from the Panasonic support site, download it again. If the software file was copied from a floppy disk or compact disk, make sure the disk that contains the software is not broken.
●**File is not ELF format**	Your selected software file is not for the KX-HGW200. Reselect the proper file and update it again.
●**Selected file is invalid**	Your selected software file is not for the KX-HGW200. Reselect the proper file and update it again. OR Make sure your KX-HGW200 hardware version matches the software file by reading the readme file that comes with the software file.
●**Not enough memory**	The KX-HGW200's internal memory has been depleted. Restart the KX-HGW200 and update it again.

PPPoE Connection

The PPPoE Connection command allows you to manually initiate/stop your KX-HGW200 PPPoE connection to the ISP. Depending on the PPPoE connection status, two different kinds of web screens appear. You can initiate/stop the PPPoE connection by clicking the button on the web screen.

> **Note:**
> To use this command, the PPPoE connection of your KX-HGW200 must have been set to **Automatic** or **Manual** on the KX-HGW200 administration web screen. See p. 34 for more detail information.

When the PPPoE connection is being made

The window below appears.

1   To disconnect the PPPoE connection, click **Disconnect**.

When the PPPoE connection is not being made

The window below appears.

1   To initiate the PPPoE connection, click **Connect**.

Using the Web Screen

Status

The Status function allows you to view the KX-HGW200 serial number, the hardware and software version information and the device status of the KX-HGW200. This information may be helpful if you need to contact the Panasonic customer service center for assistance with the KX-HGW200.

1 Click **Status** on the KX-HGW200 administration web screen.

The screen below appears.

Usage Data

The Usage Data function allows you to view the KX-HGW200 statistics. This information may be helpful if you need to contact the Panasonic customer service center for assistance with the KX-HGW200.

1 Click **Usage Data** on the KX-HGW200 administration web screen.

The screen below appears.

User Registration

The User Registration function allows you to connect to the web site for registration. To help you register, the KX-HGW200 collects and displays the hardware and software information of your KX-HGW200. You do not have to register the information of a particular item if you don't want to.

1 Click **User Registration** on the KX-HGW200 administration web screen.

The screen below appears.
Your KX-HGW200 hardware and software information parameters are shown in each box.

- If you don't want to register the parameters of an item, select **Do not send** from the drop-down list.

- To undo the current settings, click **Undo**.

Note:
It is recommended that you register all the information so that our servicenters may best assist you in the future.

2 Click **Submit** to register your KX-HGW200.

You will connect to the Panasonic support web site. For more detailed information, follow the instructions of the web site.

Support

The Support function allows you to connect to the Panasonic support web site and to transmit the KX-HGW200's hardware and software information to the support team for assistance. You do not have to register the information of a particular item if you don't want to.

1   Click **Support** on the KX-HGW200 administration web screen.

The screen below appears.
Your KX-HGW200 hardware and software information parameters are shown in each box.

● If you don't want to register the parameters of an item, press the arrow mark at the right of each parameter and select **Do not send**.

● To undo the current settings, click **Undo**.

Note:
It is recommended to register all the information for your future assistance with the KX-HGW200 from the servicenters.

2   Click **Submit** to register your KX-HGW200.

You will connect to the Panasonic support web site. For more detailed information, follow the instructions of the web site.

Help

The Help function provides you with instructions for each function of the KX-HGW200 administration web screen.

1   Click **Help** on the KX-HGW200 administration web screen.

The screen below appears.

2   Select the text you want to explore.

Restarting the KX-HGW200

The KX-HGW200 has two buttons inside the cover. These two buttons are used to initialize or restart the KX-HGW200.

To close the cover, position the ridge on the right side of the cover into the groove on the unit and slide the cover down.

To open the cover, remove the cover by sliding it up while pressing the arrow mark.

CLEAR SETTING button

RESET button

● Press these buttons with a pencil or a similar object.
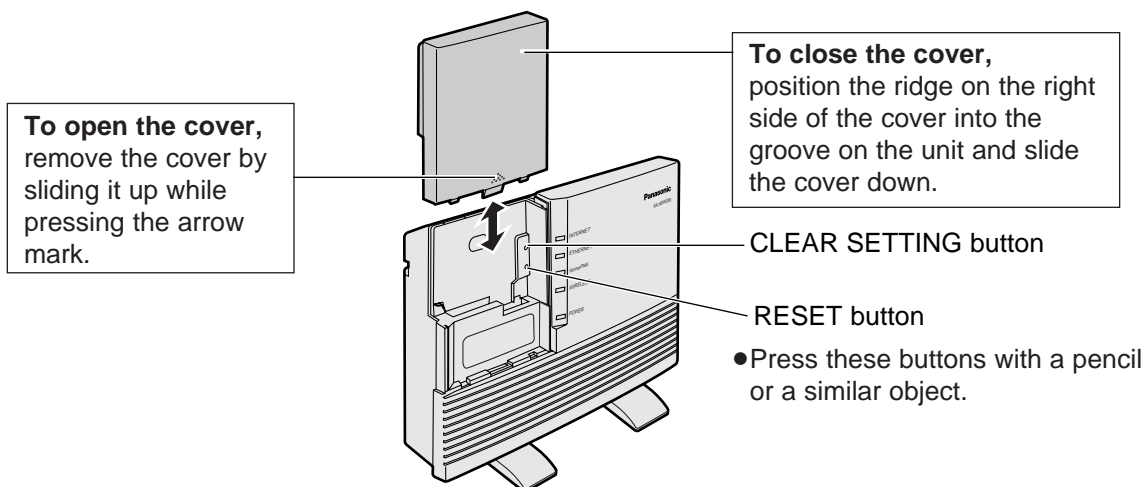
To Initialize the KX-HGW200

When you do not remember the KX-HGW200 password (p. 27) or when you need to clear all the parameters of the KX-HGW200, press and hold the CLEAR SETTING button for a few seconds. The CLEAR SETTING button allows you to initialize all the parameters of the KX-HGW200 to the factory presets.

Note:
When you use the KX-HGW200 DHCP server function (p. 33), restart the computer(s) in the home network.

To Restart the KX-HGW200

When the KX-HGW200 POWER indicator blinks or lights red (p. 11), press the RESET button. The RESET button allows you to restart the KX-HGW200 with all the parameters preserved.

Note:
When you use the KX-HGW200 DHCP server function (p. 33), restart the computer(s) in the home network.

Web Browser Setting for Proxy Server Use ▶

Some ISP's WWW (World Wide Web) sites are connected to the web browser via a proxy server. The KX-HGW200's administration web screens cannot be connected to the web browser via the proxy server. In such a case, change the browser setting as follows.

For Windows

The steps below are for Internet Explorer 5.01.

1 Start up the web browser.

2 From the **Tools** menu, select **Internet Options...**.
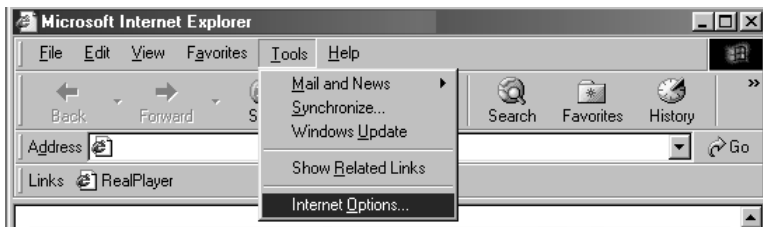
3 Click the **Connections** tab.

Connections tab

4 Click **LAN Settings...**.

Useful Information

5 In the **Local Area Network [LAN] Settings** dialog box, confirm if the **Use a proxy server** check box is checked or not.

Confirm if the check box is checked or not.

When checked, click **Advanced**.

When you check this check box, skip to step 7.
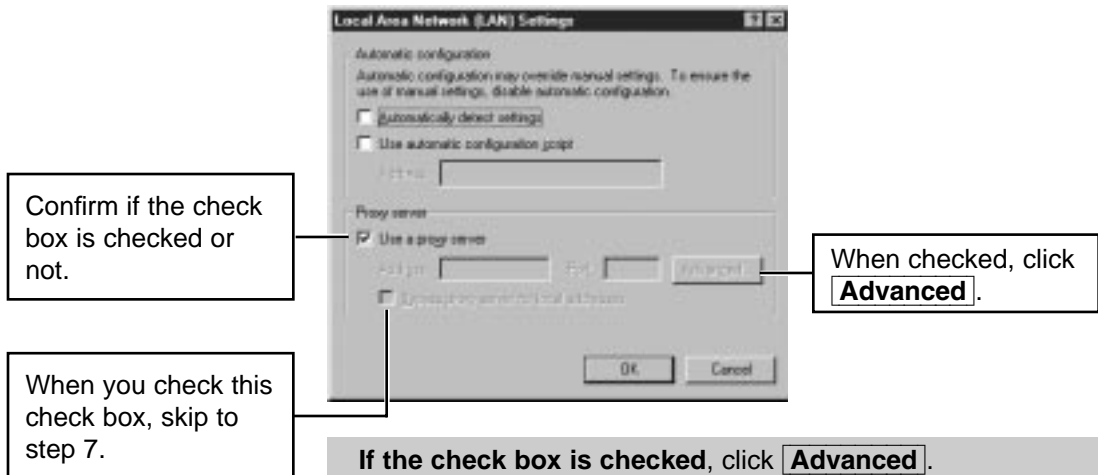
If the check box is checked, click **Advanced**.
The **Proxy Settings** dialog box appears.
If the check box is not checked, do not make a setting and click **Cancel**.

6 Enter "192.168.0.254" (default local IP address of the KX-HGW200) into the **Do not use proxy server for addresses beginning with** data field.

●When you change the local IP address of the KX-HGW200, enter the address in the **Do not use proxy server for addresses beginning with** data field.

7 Click **OK**.

For Macintosh

The steps below are for Internet Explorer 5.01.

1 Start up the web browser.

2 From the **Edit** menu, select **Preferences...**.

| File | Edit | View | Go | Favorites | Tools | Window | Help |

Cut ⌘X
Copy ⌘C
Paste ⌘V
Back Clear sh Home AutoFill Print Mail

Address:
Select All ⌘A

Find... ⌘F @ Live H @ Apple Support @ Apple Store @ Microsoft MacTopia
Find Again ⌘G
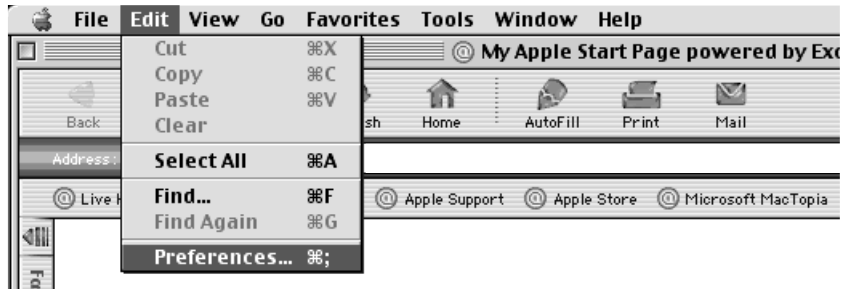
Preferences... ⌘;

The **Internet Explorer Preferences** dialog box appears.

Internet Explorer Preferences

If you are accessing the Internet from a private network, you can set gateways to allow Internet access. Contact your network manager for more information. Note: These settings are shared with other applications through Internet Config.

Use Proxy Servers

- Java
- Security
- Security Zones
- Ratings
- Advanced
- ▽ **Forms AutoFill**
- Forms AutoComplete
- AutoFill Profile
- ▽ **Receiving Files**
- Download Options
- File Helpers
- Cookies
- ▽ **Network**
- Protocol Helpers
- Proxies
- Site Passwords
- ▽ **E-mail**

☑ Web Proxy: [　　　] Settings...
  ☐ Use Web Proxy for all
  ☐ Bypass Web Proxy for FTP
☐ Secure Proxy: [　　　] Settings...
☐ Mail Proxy: [　　　] Settings...
☐ Gopher Proxy: [　　　] Settings...

List the sites you want to connect to directly, bypassing the proxies set above. Put a space or comma between each site.

192.168.0.254

⑦ [Cancel] [OK]

3 Select **Proxies** from the list.

▽ **Network**

　　List the sites you want to conn
　@ Protocol Helpers 　set above. Put a space or comm

Select **Proxies**. ——— @ Proxies

　@ Site Passwords

▽ **E-mail**

Useful Information
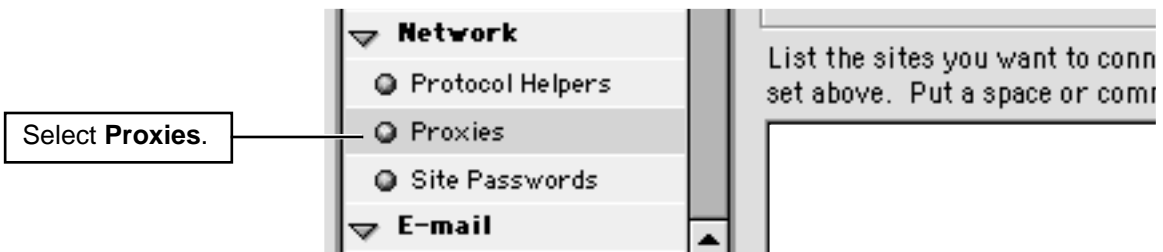
4 Confirm if the **Web Proxy** check box is checked.

Confirm if the check box is checked or not.

Internet Explorer Preferences

- Java
- Security
- Security Zones
- Ratings
- Advanced
▽ **Forms AutoFill**
- Forms AutoComplete
- AutoFill Profile
▽ **Receiving Files**
- Download Options
- File Helpers
- Cookies
▽ **Network**
- Protocol Helpers
- Proxies
- Site Passwords
▽ **E-mail**

If you are accessing the Internet from a private network, you can set gateways to allow Internet access. Contact your network manager for more information. Note: These settings are shared with other applications through Internet Config.

Use Proxy Servers

☑ Web Proxy: [ ] [Settings...]
  ☐ Use Web Proxy for all
  ☐ Bypass Web Proxy for FTP

☐ Secure Proxy: [ ] [Settings...]

☐ Mail Proxy: [ ] [Settings...]

☐ Gopher Proxy: [ ] [Settings...]

List the sites you want to connect to directly, bypassing the proxies set above. Put a space or comma between each site.

192.168.0.254

[Cancel] [OK]

If the check box is checked, enter "192.168.0.254" (default local IP address of the KX-HGW200) into the data field at the bottom of the dialog box.
●When you change in the local IP address of the KX-HGW200, enter the IP address in the data field.
If the check box is not checked, do not make a setting and click **Cancel** .

5 Click **OK** .

50

Setting the Static Network Parameters

Every computer in a TCP/IP network, including the KX-HGW200, needs to have an IP address. The KX-HGW200 is preset to assign a local IP address to each computer in a home network using the DHCP server function. This type of network is called as **dynamic IP network**.
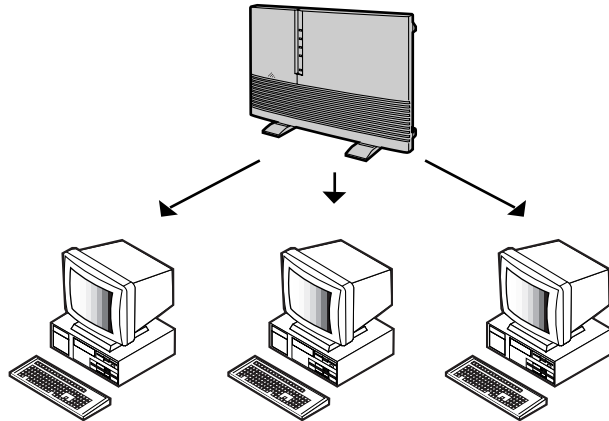By disabling the KX-HGW200 DHCP server function and specifying a unique IP address for each computer in the home network, a **static IP network** can be created.
When the local IP address of a computer in your home network has to always be fixed, you need to set the static IP network parameters.
To set up the KX-HGW200 for a static IP network, see p. 33 and disable the DHCP server function in the Additional Setup screen. To set up a computer for a static IP network, follow the steps on pages 52 to 56.

Dynamic IP Network (DHCP server function active)

The KX-HGW200 assigns a local IP address to each computer automatically (DHCP server function).

Static IP Network (DHCP server function inactive)

The KX-HGW200 does not assign a local IP address to each computer automatically. Beforehand, each computer has to be assigned a unique local IP address manually.

Local IP address
192.168.0.254

Local IP address
192.168.0.1

Local IP address
192.168.0.2

Local IP address
192.168.0.3

Useful Information

Setup of a Windows Computer

The steps below are for Windows 98.

1 Turn on the computer.

2 From the **Start** menu, select **Settings** and click **Control Panel**.

3 Double-click the **Network** icon.

The **Network** dialog box appears.

4 In the **Network** dialog box, select the **TCP/IP** that is associated with your network card and click **Properties**.

The **TCP/IP Properties** dialog box appears.

5 In the **TCP/IP Properties** dialog box, click the **IP Address** tab.

6 Select **Specify an IP address**.
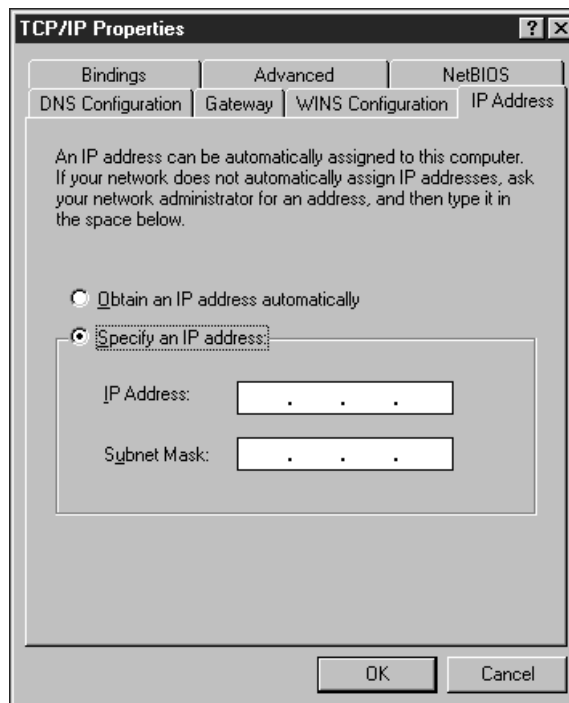
7 Enter a local IP address for the the computer (i.e, 192.168.0.50)
and the Subnet mask in the appropriate data field.

- The subnet mask is normally entered as "255.255.255.0". If you
  intend to access the web screen of the KX-HGW200, you
  should make this parameter the same as that of the
  KX-HGW200 home side netmask.

8 Click the **Gateway** tab.

The window below appears.
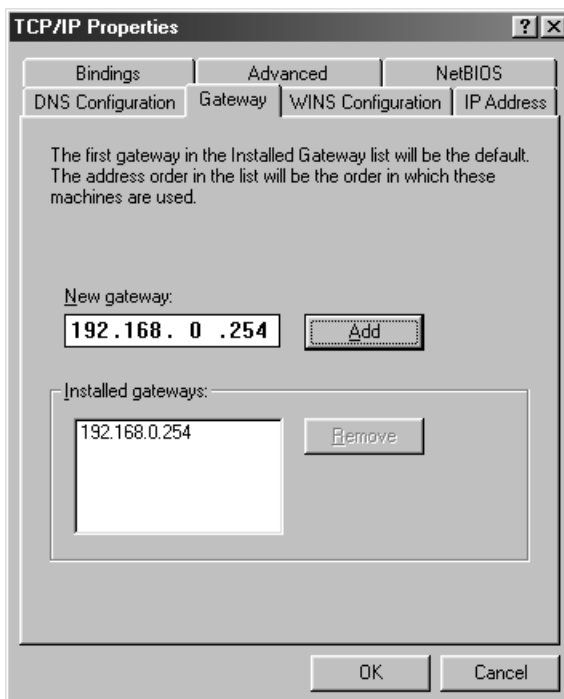
9 Enter "192.168.0.254" (default local IP address of the
KX-HGW200) into the **New gateway** address field and click
Add.

10 Make sure "192.168.0.254" is entered into the **Installed
gateways** address field and click **OK**.

- When you change the local IP address of the KX-HGW200,
  change the address in the Installed gateways address field.

Useful Information

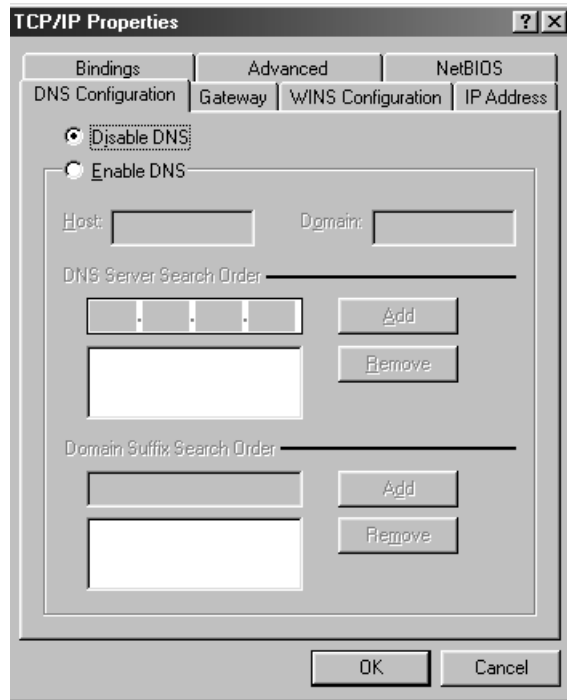11 Click the **DNS Configuration** tab.

```
TCP/IP Properties                                    ? X

  Bindings          Advanced          NetBIOS
  DNS Configuration | Gateway | WINS Configuration | IP Address

          ⊙ Disable DNS
          ○ Enable DNS

          Host:              Domain:

          DNS Server Search Order

            .  .  .          Add

                             Remove

          Domain Suffix Search Order

                             Add

                             Remove

                          OK          Cancel
```

12 Select **Enable DNS**.

13 Enter the DNS server address into the **DNS Server Search Order** address field and click **Add**.

14 Click **OK**.

The **System Settings Change** dialog box appears.
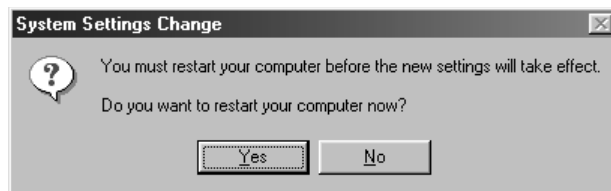
```
System Settings Change                               X

  (?)   You must restart your computer before the new settings will take effect.

        Do you want to restart your computer now?

               Yes          No
```

15 Click **Yes** and restart the computer.

54

Setup of a Macintosh Computer

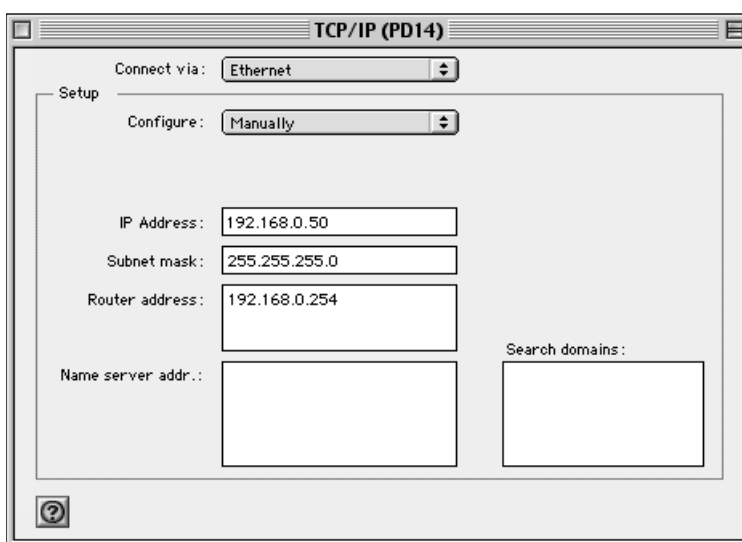The steps below are for Mac OS 9.0.

1 Turn on the computer.

2 From the Apple menu, select **Control Panels**.

3 From the **Control Panels** menu, select **TCP/IP**.

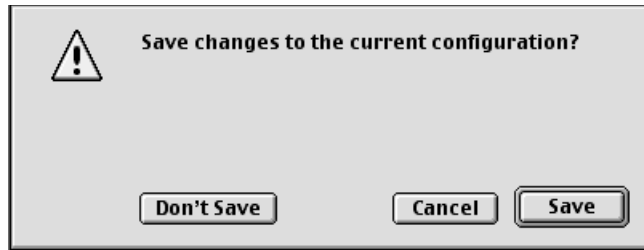The **TCP/IP** dialog box appears.

4 Select **Ethernet** from the **Connect via** pop-up menu.

5 Select **Manually** from the **Configure** pop-up menu.

6 Enter a local IP address, Subnet mask, Router address and Name server address for the computer in the appropriate data field.

- ●The Subnet mask is normally entered as "255.255.255.0". If you intend to access the web screen of the KX-HGW200, you should make this parameter the same as that of the KX-HGW200 home side netmask.
- ●In the Router address data field, enter "192.168.0.254" (default local IP address of the KX-HGW200).
- ●When you change the local IP address of the KX-HGW200, you have to change it in the Router address data field also.

(Continued ▶)

Useful Information

7 Click the close button.

The dialog box below appears.

> ⚠ **Save changes to the current configuration?**
>
> [Don't Save]   [Cancel] [Save]

8 Click **Save**.

9 Restart the computer.

Wall Mounting

The KX-HGW200 can be mounted on a wall.

1   Remove the stands.
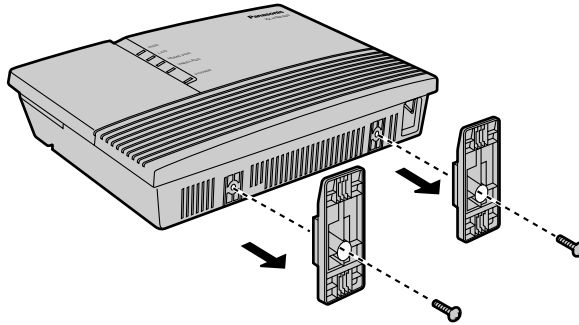
Note:
After removing, save the stands and screws for future use.

2   Secure the cables to the KX-HGW200 using the hook.

Hook
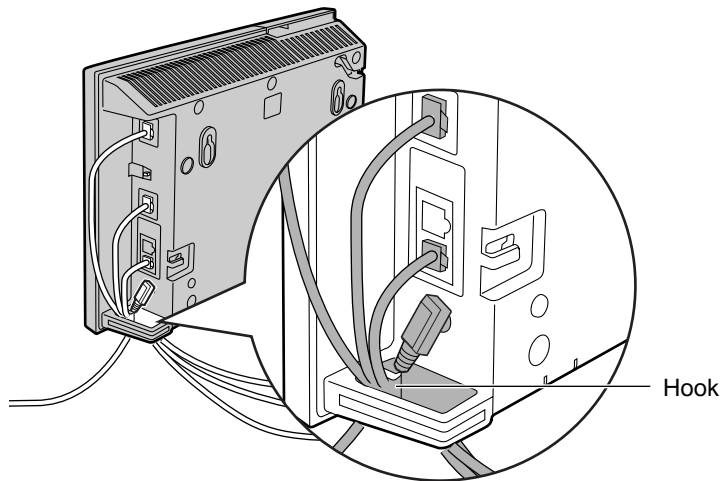
3   Install the two screws (included accessories) into the wall using the wall template on the next page.

Note:
Drive screws using the wall template on the next page.

(Continued ▶)

4 Mount the unit on the screws, then slide it down.

6.3″ (16 cm)

Wall Template

6.3″
(16 cm)

58

Troubleshooting

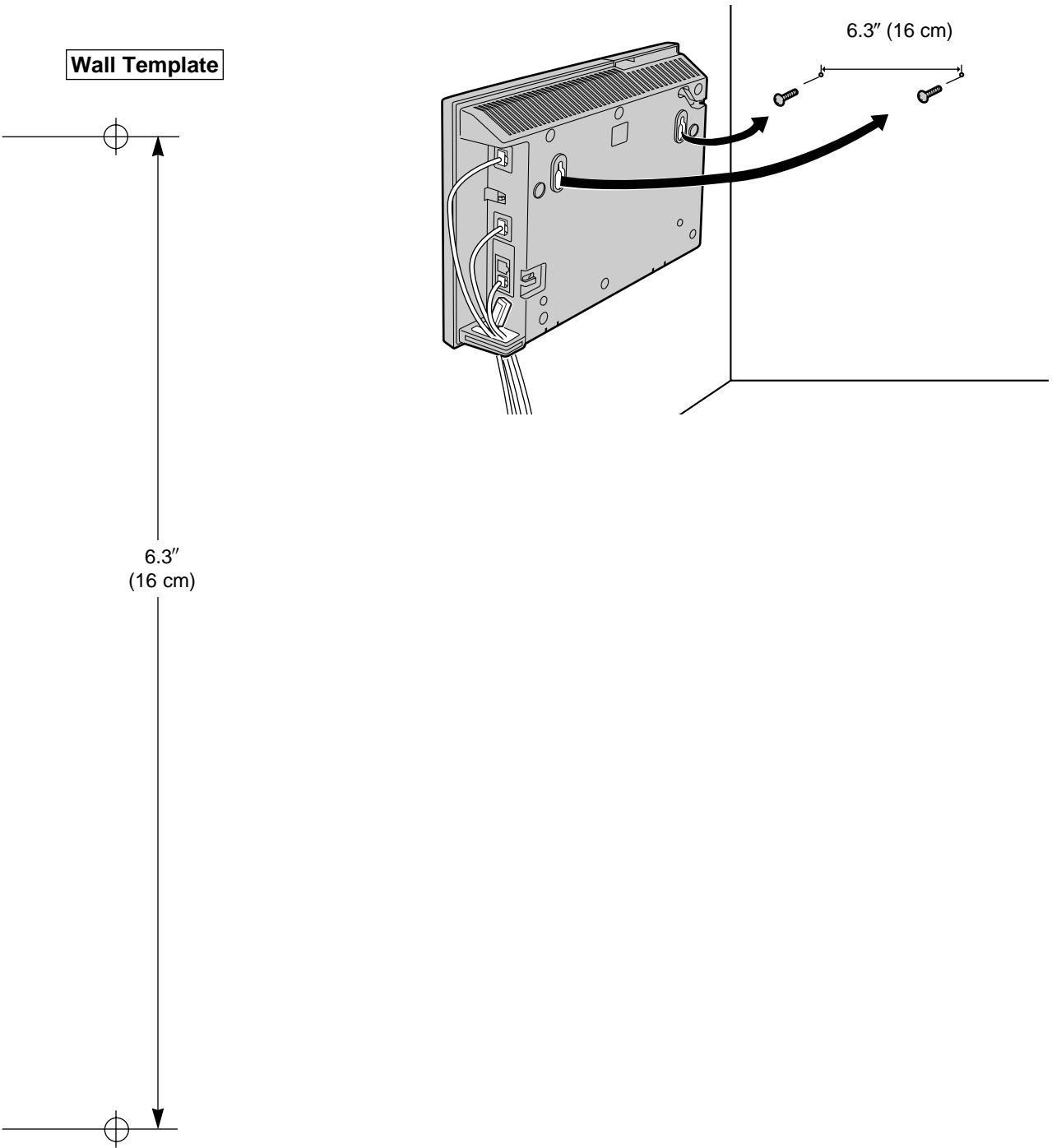| Problem	Cause and Remedy
"The system has detected a conflict for IP address with the system having hardware address XX:XX:XX:XX:XX:XX" or "Another device on your TCP/IP Internet, which has the physical address XX:XX:XX:XX:XX:XX, is currently using the same IP address (XXX.XXX.XXX.XXX). Your TCP/IP network interface has been shut down." is displayed in the dialog box.	• Turn off the KX-HGW200 and all the computers, and then turn on the KX-HGW200 again. After that, turn on the computers. • Make sure all the computers are set to "Obtain an IP address automatically" (for Windows, p. 21) or "Using DHCP Server" (for Macintosh, p. 26). Use the DHCP server function of the KX-HGW200. • Check that the static IP address is the same value within the KX-HGW200 DHCP Available Address Range (p. 34).
"Host Unknown" is displayed after you changed the KX-HGW200 Setup.	• Restart the computer and access the KX-HGW200 web screen again.
The KX-HGW200 web screen does not appear.	• When you change the IP address of the KX-HGW200 (p. 33), enter the new IP address in the address field of the browser (p. 27). • The computer is not assigned a local IP address by the KX-HGW200. Make sure the computer is set to "Obtain an IP address automatically" (for Windows, p. 21) or "Using DHCP Server" (for Macintosh, p. 26) and restart. • If you check the IP address is assigned correctly by the KX-HGW200, follow the procedure below. Click the **Start** button, select **Run...**, enter "winipcfg", and click **More Info**, for Windows. Click Apple menu, select **Control Panels** and **TCP/IP**, for Macintosh. • Make sure the ETHERNET indicator or HomePNA green indicator is on. Make sure the LAN card indicator is on. If any indicator is off, check the home network connections. • According to the status of the home network, the web screen does not appear quickly. Wait a second.
A WWW (World Wide Web) site does not appear.	• Confirm the connections of the cable/xDSL modem, KX-HGW200 and home network. • Check the connection between the KX-HGW200 and the computer by using the Ping command on the Windows computer. • Check the Status screen (p. 42) of the KX-HGW200 web screen. From the Status screen, make sure the KX-HGW200 is assigned an IP address from the ISP. If it isn't, setup the parameters in the Basic Setup screen. • Set up the proxy server use (p. 47–50).

Appendix

◆ Troubleshooting

Problem	Cause and Remedy
You do not remember the home side IP address of the KX-HGW200.	●Check the "Installed gateways" (for Windows, p. 22) or "Router address" (for Macintosh, p. 25) address field of the computer. If a parameter exists in the address field, it is the home side IP address of the KX-HGW200.
You do not remember the password (p. 27) to use the KX-HGW200 administration web screens.	●Initialize the KX-HGW200 (p. 46) by pressing the CLEAR SETTING button. The CLEAR SETTING button allows you to initialize all the parameters of the KX-HGW200 to the factory presets. Then, restart the computer(s) in the home network and reconfigure the KX-HGW200.
Microsoft® Netmeeting® conferencing software does not work.	●The KX-HGW200 does not support the Microsoft Netmeeting.
The Ethernet network does not work and the ETHERNET indicator on the KX-HGW200 is not lit.	●The polarity of the TO COMPUTER/ETHERNET HUB port does not meet the port of the hub or the computer.

Device	Cable	Polarity Switch
HUB (LAN port)	Straight Cable	HUB
HUB (uplink port)	Straight Cable	PC
Computer	Straight Cable	PC

Problem	Cause and Remedy
When you click **Restart** on the KX-HGW200 web screen, the home page does not appear.	●Click the colored and underlined IP address (i.e, http://192.168.0.254) that appears on the "Restarting" web screen to jump to the KX-HGW200 home page screen.
If you cannot solve your problem	●Call our customer call center at 1-800-272-7033. ●After the limited warranty, call our Continued Services Technical Support Line at 1-900-555-PANA (1-900-555-7262).

Specifications

Interface: One 10 Base-T RJ-45 connector for cable modem/xDSL modem for WAN
                        One 10 Base-T Ethernet RJ-45 connector for LAN
                        One RJ-11 single telephone line jack for HomePNA
                        One external telephone line jack
                        One wireless PC card slot

LED Display: Power
                        Link and Activity for Internet port
                        Link and Activity for each home network port

Environmental: Operation temperature: +5°C to +40°C (+41°F to +104°F)
                        Storage Temperature: 0°C to +50°C (+32°F to +122°F)
                        Humidity: 45% to 85%

Dimension (HWD): 8.03″ (204 mm) × 10.67″ (271 mm) × 2.17″ (55 mm)

Weight: 1.75 lb. (795 g)

Power: DC-12V IN
                        Approx. 4W (Max)
                        Approx. 7W (Max) with the optional wireless card

Appendix

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicenter when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicenter when the following conditions occur:
    A. When the power supply cord or plug is damaged or frayed.
    B. If liquid has been spilled into the unit.
    C. If the unit has been exposed to rain or water.
    D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicenter.
    E. If the unit has been dropped or physically damaged.
    F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

WARNING:
- TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

FCC and Other Information ➤

If requested by the telephone company, inform them as follows:
FCC Registration No. . . . . (found on the rear side of the unit)
Ringer Equivalence 0.1B
The particular telephone line to which the equipment is connected.

This unit must not be connected to a coin operated line.
If you are on a party line, check with your local telephone company.

Ringer Equivalence No. (REN):
The REN is useful in determining the quantity of devices you may connect to your telephone line
and still have all of those devices ring when your telephone number is called. In most, but not all
areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To
be certain of the number of devices you may connect to your line, as determined by the REN,
you should contact your local telephone company to determine the maximum REN for your
calling area.

In the event terminal equipment causes harm to the telephone network, the telephone company
should notify the customer, if possible, that service may be stopped.

However, where prior notice is impractical, the company may temporarily cease service providing
that they:
(a) Promptly notify the customer.
(b) Give the customer an opportunity to correct the problem with their equipment.
(c) Inform the customer of the right to bring a complaint to the Federal Communication
    Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part
    68.

The Telephone Company may make changes in its communications facilities, equipment,
operations or procedures, where such action is reasonably required in the operation of its
business and is not inconsistent with the rules and regulations in FCC Part 68.

If such changes can be reasonably expected to render any customer terminal equipment
incompatible with telephone company communications facilities, or require modification or
alteration of such terminal equipment, or otherwise materially affect its use or performance, the
customer shall be given adequate notice in writing, to allow the customer an opportunity to
maintain uninterrupted service.

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.

CAUTION:
Any changes or modifications not expressly approved by the party responsible for compliance
could void the user's authority to operate this device.

Appendix

◆ FCC and Other Information

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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is 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.

• **Environment**—do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4″) clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
• **Routine care**—wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
• **If there is any trouble**—consult an authorized Panasonic Factory Service Center.

For using the optional wireless card
• **Medical**—consult the manufacturer of any personal medical devices, such as pacemakers, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 2401MHz to 2483MHz and the power output level is 0.1watt.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.

Responsible Party: Matsushita Electric Corporation of America
                      One Panasonic Way, Secaucus, NJ 07094
                      Tel No: 1-800-272-7033

Index

Appendix

◆ Index

L

LAN port 17, 18
LINE jack 10, 15
local IP address 51, 55

M

MacTCP 8

N

Name server addr 26
Netmask 32, 34
Netscape Navigator 4.0 8
network card 14, 21

O

Open Transport 8

P

Panasonic customer service center 42
Panasonic support site 30
Panasonic support web site 7, 43
password 7, 27, 38, 46
PC card slot 10
PCMCIA 16
PHONE jack 10, 16
Ping 36
port 35
POWER 11
POWER indicator 10, 11
PPPoE 32, 34, 41
Protocol 8, 35
proxy server 27, 34, 47, 48

R

RAM 8
readme file 40
RESET button 10, 46
Restart 37
RJ-11 .... 6, 11
RJ-45 .... 11, 17, 18
RJ-45 connector 14
RJ-45 jack 14
Router address 26

S

security risk 35
Stand 10
stands 57
static IP connection 32
static IP network 34, 51
Status 42
Subnet Mask 21, 26

T

TCP 35
TCP/IP 6, 8, 14, 21, 59
TCP/IP network 51
Telephone Line Cord 9, 15
10 Base-T Ethernet 6
TO COMPUTER/ETHERNET
  HUB port 10, 17, 18
TO MODEM port 10, 14

U

UDP 35
Usage Data 42
User Registration 43

W

Appendix

For product service

● Panasonic Servicenters are listed in the servicenter directory.
● Call 1-800-272-7033 for the location of an authorized servicenter.
● After the limited warranty, please contact our Continued Services Technical Support Line at 1-900-555-PANA (1-900-555-7262). If you have difficulty reaching this number, it may be blocked by your phone company. Please contact your local phone company to correct this.

When you ship the product

● Carefully pack your unit, preferably in the original carton.
● Attach a letter, detailing the symptom, to the outside of the carton.

Symptom

● Send the unit to an authorized servicenter, prepaid and adequately insured.
● Do not send your unit to the Panasonic Consumer Electronics Company listed below or to executive or regional sales offices. These locations do not repair consumer products.

● This unit is designed for use in the United States of America. Sale or use of this product in other countries may violate local laws.
● Ce appareil est conçu pour être utilisé aux États-Unis d'Amérique. La vente ou l'emploi de cet appareil dans certains autres pays peut constituer une infraction à la législation locale.
● Esta unidad fue elaborada para uso en los Estados Unidos de América. La venta o el empleo de este producto en ciertos países puede constituir violación de la legislación local.
● この製品は、日本国外での使用を目的として設計されており、日本国内での使用は法律違反となります。従って、当社では日本国内においては原則として修理などのサービスは致しかねます。

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