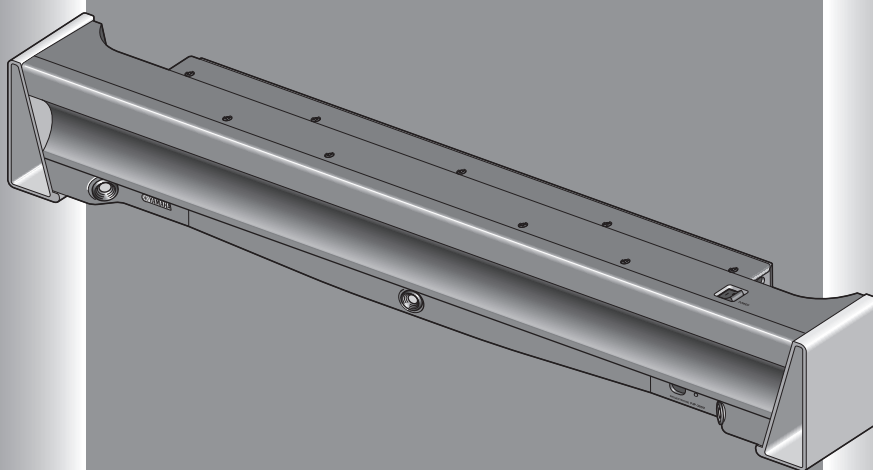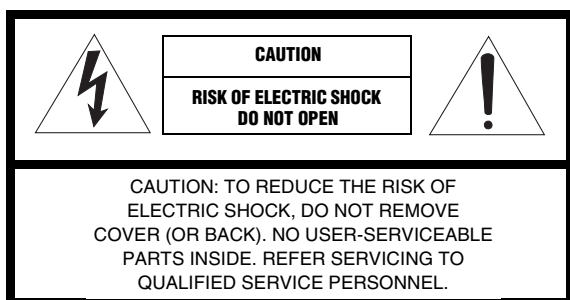# YAMAHA

PJP-300V

Video Conference System
Système de vidéoconférence

ProjectPhone

OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG

IMPORTANT SAFETY INSTRUCTIONS

	CAUTION	
⚡	**RISK OF ELECTRIC SHOCK** **DO NOT OPEN**	!

CAUTION: TO REDUCE THE RISK OF
ELECTRIC SHOCK, DO NOT REMOVE
COVER (OR BACK). NO USER-SERVICEABLE
PARTS INSIDE. REFER SERVICING TO
QUALIFIED SERVICE PERSONNEL.

• Explanation of Graphical Symbols

This graphic symbol is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This graphic symbol is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1 Read Instructions – All the safety and operating instructions should be read before you operate the product.

2 Retain Instructions – The safety and operating instructions should be retained for future reference.

3 Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.

4 Follow Instructions – All operating and use instructions should be followed.

5 Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

6 Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7 Water and Moisture – Do not use this product near water – near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8 Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10 Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11 Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12 Grounding or Polarization – This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13 Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14 Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

15 Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16 Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

17 Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

18 Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19 Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    a) When the power-supply cord or plug is damaged,

    b) If liquid has been spilled, or objects have fallen into the product,

    c) If the product has been exposed to rain or water,

d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,

e) If the product has been dropped or damaged in any way, and

f) When the product exhibits a distinct change in performance - this indicates a need for service.

20 Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21 Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

22 Wall or Ceiling Mounting – The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.

23 Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

COMPLIANCE INFORMATION STATEMENT
(DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party: Yamaha Electronics Corporation, U.S.A.
Address: 6660 Orangethorpe Avenue Buena Park, California 90620

Telephone: (714)522-9105
Hours of operation: Monday through Friday 8 a.m. - 4 p.m. PST.

Type of Equipment: Video Conference System
Model Name: PJP-300V

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 interfernce that may cause undesired operation.
See user manual instructions if interference to radio reception is suspected.

FOR RESIDENTS IN CALIFORNIA
This product contains a battery that contains perchlorate material.
Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

FCC INFORMATION (for US customers)

1 **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2 **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3 **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "A" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a commercial environment will not result in harmful interference with other electronic devices. However, operation of this product in a residential area is likely to cause interference in some form. In this case you, the user, bear the responsibility of correcting this condition.
This product generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the product "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either the product generating the interference or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker of fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact your local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

English

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

2 Install this unit in a well ventilated, cool, dry, clean place with at least 10 cm on the top, 10 cm on the left and right, and 10 cm at the back of this unit — away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.

3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.

4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.

5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
   – Other components, as they may cause damage and/or discoloration on the surface of this unit.
   – Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
   – Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.

6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

7 Do not plug in this unit to a wall outlet until all connections are complete.

8 Do not operate this unit upside-down. It may overheat, possibly causing damage.

9 Do not use force on switches, knobs and/or cords.

10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.

11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.

12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.

13 Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reasons.

14 When not planning to use this unit for long periods of time, disconnect the AC power plug from the wall outlet.

15 Be sure to read the "Troubleshooting" section on common operating errors before concluding that this unit is faulty.

16 Before moving this unit, press ⏻ / | (Power) to set this unit in standby mode, and disconnect the AC power plug from the wall outlet.

17 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave the unit alone.

18 When using the unit for a long time, the unit may become warm. Turn the power off, then leave the unit alone for cooling.

19 Install this unit near the wall outlet and where the AC power plug can be reached easily.

This unit is not disconnected from the AC power source as long as it is connected to the AC wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

FOR CANADIAN CUSTOMERS
To prevent electric shock, match wide blade of plug to wide slot and fully insert.
This Class A digital apparatus complies with Canadian ICES-003.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

WARNING
THE POWER SUPPLY CABLE OF THIS UNIT MUST BE CONNECTED TO THE MAIN SOCKET OUTLET VIA A PROTECTIVE EARTHING CONNECTION.

WARNING
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

■ For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

Note

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

■ Special Instructions for U.K. Model

WARNING-THIS APPARATUS MUST BE EARTHED.
IMPORTANT

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

BLUE:NEUTRAL
BROWN:LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

Contents

INTRODUCTION

PREPARATION

BASIC OPERATIONS

CONFIGURATIONS

ADVANCED OPERATIONS

ADDITIONAL INFORMATION

English

Features

This unit is a videoconference system that enables simultaneous talk through networks including the Internet and corporate LAN by connecting to VC1 (YAMAHA PJP-VC1, sold separately) or a PC.

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VC1 is the communication box for connecting this unit to a network. The videoconference system is established by connecting this unit with VC1.

■ Connecting to VC1
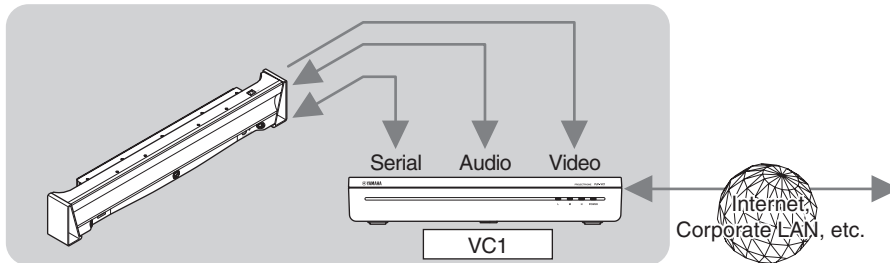
Arrayed microphones and speakers for high audio quality

Depending on the environment, the microphones can control the audio pickup area so that clear conversation is assured. Also, the audio control employs digital signal processing so the participants can concentrate on talk without the stress of delay or interruption of words.

Videoconference through networks

Videoconference can be held through networks including the Internet and corporate LAN. The high performance video codec installed on this unit establishes communication in smooth, high quality video even at a low communication speed. Also, the audio tracking function selects one of the three cameras automatically to capture the images in the talker's position. It helps to ensure a smooth conference.

■ Connecting to a PC
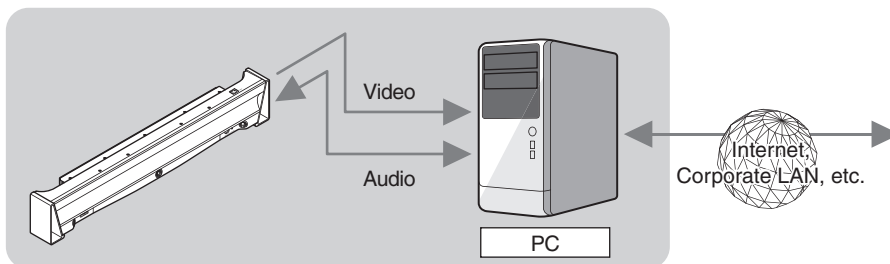
Arrayed microphones, speakers, and cameras

Depending on the environment, the microphones can control the audio pickup area so that clear conversation is assured. Also, the audio tracking function selects one of the three cameras automatically to capture the images in the talker's position. It helps to ensure a smooth conference.

■ **Terms used in this manual**

• In this manual, the names of the following products are described as follows.
  – Yamaha PJP-300V: this unit
  – YAMAHA PJP-VC1 (sold separately): VC1
  – Yamaha Video Conference System: PJP
  – 10BASE-T (100BASE-TX) cable: LAN cable
• The IP addresses, domain names and URL names mentioned in the setting examples are used merely for the purpose of ease of explanation. When you perform actual settings of this unit, be sure to set the addresses and names according to the actual configuration of your network.
• Detailed knowledge on the Internet and network may be required to utilize this unit at its full performance. As the provided manual does not give detailed technical information, please also refer to commercially available books as required.
• This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and the product, the product has priority.

■ **Trademarks mentioned in this manual**

• Ethernet is a registered trademark of Xerox Corporation.
• Microsoft, Windows, Microsoft Excel are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Supplied Accessories

This product includes the following accessories. Before connecting this system, make sure you received all of the following parts.

• **AC adapter x 1**
• **Power cable x 1**
• **LAN cable x 1**
• **Owner's manual (This manual) x 1**
• **Warranty card x 1**
• **Remote control x 1**
• **Battery (AA, R6, UM-3) x 2**
• **Stereo audio cable x 1**
• **S terminal cable x 1**

Controls and Functions

■ **Right side of this unit**
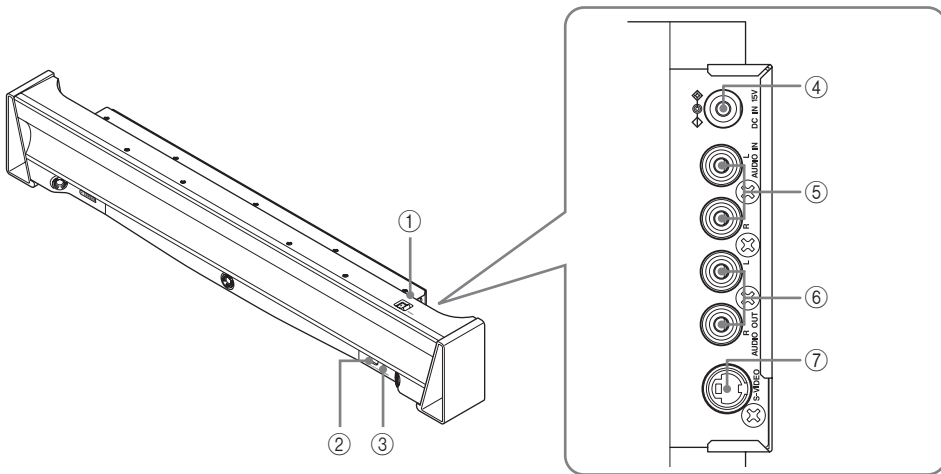
① **POWER**
Turns on/off this unit.

② **Remote control sensor**
Receives infrared signals from the remote control.

③ **STANDBY/ON indicator**
Indicates the status of this unit.
- Standby mode: Lights up in orange
- On: Lights up in green

④ **DC IN 15V terminal**
Connect the provided AC adaptor.

⑤ **AUDIO IN terminal**
Audio signals are input to this terminal.

⑥ **AUDIO OUT terminal**
Audio signals are output from this terminal.

⑦ **S-VIDEO terminal**
Video signals, which are eventually input to a monitor (such as a TV, projector) or VC1, are output from this terminal.

4

■ **Left side and front of this unit**
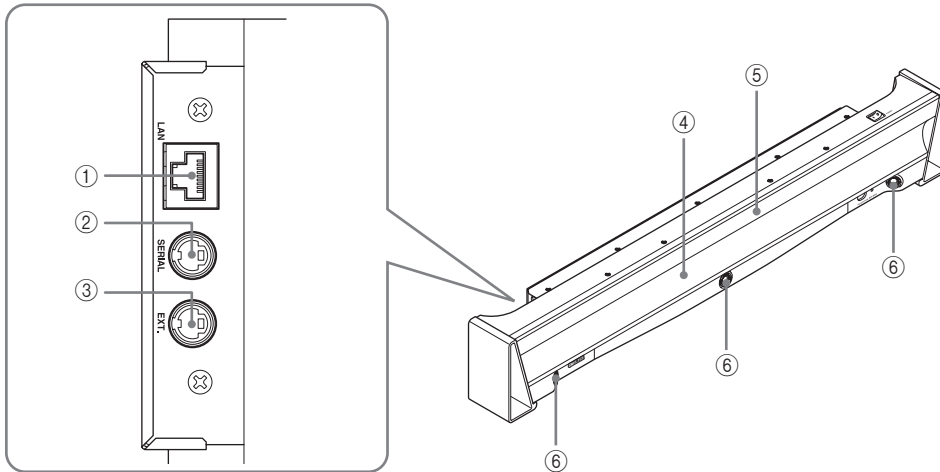
① **LAN port**
Connect to the LAN port of the networking equipment, such as a PC, router, or HUB using a LAN cable.

② **SERIAL terminal**
Connect to the SERIAL terminal of VC1.

③ **EXT. terminal**
Reserved for future extension.

④ **Arrayed speakers**
Fourteen speakers are arrayed on the front panel for outputting the audio from the unit communicating with this unit.

⑤ **Arrayed microphones**
Sixteen microphones are arrayed on the front panel for capturing the audio of the talkers.

⑥ **Cameras**
Three cameras are arrayed on the left, center, and right on the front panel for capturing images, such as those of talkers.

⑦ **Identification label**
The label contains the following information.
•   MODEL NO.: Model number of this unit.
•   Serial number of this unit.
•   Identification number of this unit.

INTRODUCTION

English

5

■ Remote control
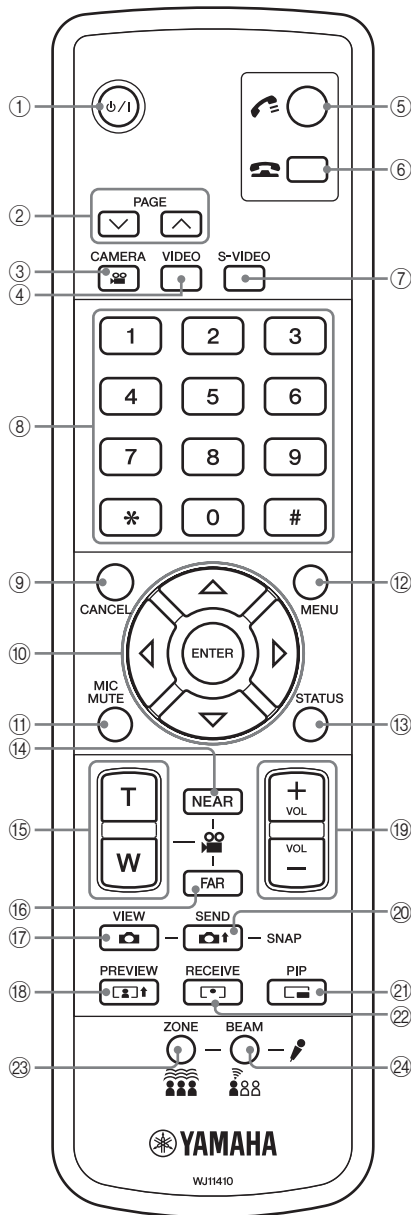
① ⏻／｜ **(Power)**

Turns this unit on or sets it to the standby mode. In the standby mode, this unit consumes a small amount of power.

② **PAGE**

If menus or contents of the address book cannot fit on one page, press the key to display the next page.

③ **CAMERA key**

Press the key to turn on/off the Multi Camera mode.

④ **VIDEO key**

Press the key to select the composite video input for VC1.

⑤ 📞 **(Connect)**

Press the key to make or receive a call.

⑥ 📞 **(Disconnect)**

Press the key to disconnect a call or to reject any incoming call.

⑦ **S-VIDEO key**

Press the key to select the S-Video input for VC1.

⑧ **Numeric keys (0-9, ∗, #)**

Use the keys to enter the phone number or IP address of the destination unit.

⑨ **CANCEL**

Press the key to cancel displaying the menu screen or to delete a character you have entered.

⑩ **Cursor keys, ENTER**

Press the cursor keys to select a setting item or to operate the camera.
Press ENTER to confirm a setting.

⑪ **MIC MUTE**

Press the key to mute the microphones on this unit. Pressing the key again cancels muting.

⑫ **MENU**

Press the key to show or hide the setting menu screen.

⑬ **STATUS**

Press the key to show or hide status messages.

⑭ **NEAR**

Press the key to operate the cameras on this unit.

⑮ **T/W key**

Adjusts the zoom of the camera.

6

⑯ **FAR**

Press the key to operate the cameras on the destination
unit.

⑰ **VIEW**

Press the key to display the still image that has been
transmitted or received.

⑱ **PREVIEW**

Press the key to display the outgoing images (being
captured by the camera on this unit).

⑲ **VOL +/–**

Press the key to adjust the volume of the speakers.

⑳ **SEND**

Press the key to capture the image that is being displayed
on the screen, and send it to the destination unit.

㉑ **PIP**

Press the key to turn on/off the PIP (Picture In Picture)
mode.

㉒ **RECEIVE**

Press the key to display the incoming image (being
captured by the camera on the destination unit).

㉓ **ZONE key**

Press the key to turn off camera's tracking function during
a call.

㉔ **BEAM key**

Press the key to turn on camera's tracking function during
a call.

INTRODUCTION

English

7

Installing batteries in the remote control
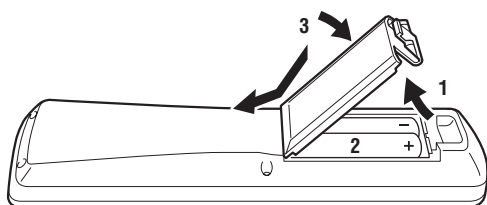
1   While pulling the tab of the battery compartment cover, take off the cover.

2   Insert the two supplied batteries according to the polarity markings, + (positive) and - (negative), on the inside of the battery compartment.

3   Snap the battery compartment cover back into place.

Notes

• Change all of the batteries if you notice the operation range of the remote control decreases. Do not use an old battery together with a new one.
• Use AA (R6, UM-3) batteries.
• Do not use different types of batteries (such as alkaline and manganese batteries) together.
• Rechargeable batteries cannot be used.
• Do not connect + (positive) and - (negative) directly using the metal piece.
• When not planning to use the remote control for long periods of time, remove the batteries from the compartment.
• If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. If battery liquid enters the eye or mouth, or touches your skin, immediately wash with fresh water and consult a doctor. Clean the battery compartment thoroughly before installing new batteries.

Operating range of the remote control
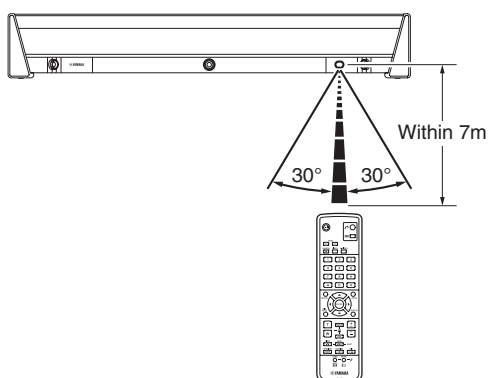
Be sure to aim the remote control directly at the remote control sensor within 7m of this unit.

Notes

• If other equipment malfunctions when you operate the remote control, change the position of the equipment.
• Do not spill water or other liquids on the remote control. Do not drop the remote control. Do not leave or store the remote control in the following types of conditions:
  – places of high humidity, such as near a bath
  – places of high temperatures, such as near a heater or stove
  – places of extremely low temperatures
  – dusty places
• Do not expose the remote control sensor of this unit to the direct sunlight or intense light from lighting apparatus.

8

Preparation Procedure

The following preparation steps should be completed before using this unit.

Step 1:
Installing this unit in a conference room (page 10)

▼

Step 2:
Connecting this unit to VC1 and turning on the power (page 11)

If you use this unit as the external microphone speaker for a videoconference system, see "Using This Unit as the External Microphone Speaker for a Videoconference System" (page 52).

▼

Step 3:
Configuring the initial settings (page 15)
This section describes the preparation method using the remote control, but the same settings can also be configured by accessing the web menu from a pc. See "Configuring the settings in the web menu" (page 32 and page 58) for details.

To use this unit with the gatekeeper
You need to register the gatekeeper information to use the gatekeeper. For details, see "Using the Gatekeeper" (page 41).

To use this unit with SIP server
You need to register the SIP server information to use the SIP server. For details, see "Using the SIP Server" (page 43).

■ Notes on system connection
Please check the following before proceeding to preparation.

LAN cable
Prepare a 10BASE-T or 100BASE-TX LAN cable.

Network connection device
Prepare VC1 or a PC for connecting this unit to the network.

Information on the network accommodating this unit
You need to obtain or decide the following information prior to the installation.
• IP address and subnet mask settings of this unit and VC1 (or a pc)
• IP addresses of the default gateway and DNS server used by this unit and VC1 (or a pc)

■ Notes on the network accommodating this unit
• For using this unit connected to the Internet, you need to obtain the global IP address.
• When using this unit in the network where a firewall is installed, you cannot connect this unit to the equipment outside the firewall. However, calls may be established by changing the settings of the firewall.
Please consult your system administrator for details.
• To prevent the audio from being interrupted, it is recommended that a network can offer the following transmission bandwidth:
– 512kbit/s for each of uplink and downlink
For ensuring the transmission bandwidth shown above, check the followings before installing this unit:
– The bandwidth in your network
– The data communication traffic in your network
– The performance of the networking equipment

PREPARATION

English

9

Step 1: Installing this unit in a conference room

This section describes how to install this unit in the actual place, such as a conference room. For details on the installation method, refer to the owner's manual of the stand sold separately.

■ Notes on installation

Install this unit while taking the positions of talkers into consideration.

To assure clear conversation by getting the most out of the arrayed microphones and speakers, place this unit so that the talkers sit in the area highlighted in the following figure.

About 7m
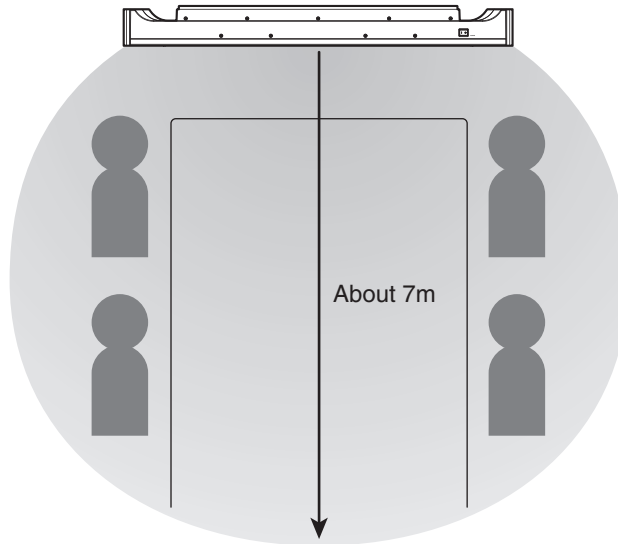
To ensure the optimum performance of the three cameras on this unit, place this unit so that the talkers sit in the area as shown in the following figure.

40°   40°

52°

1500mm   40°
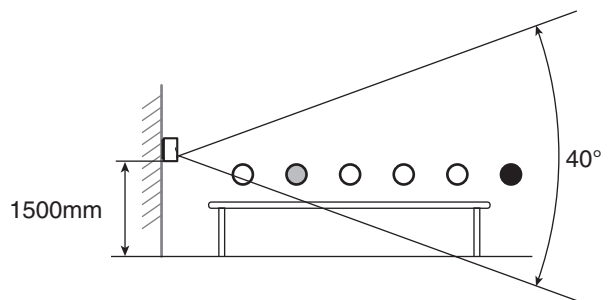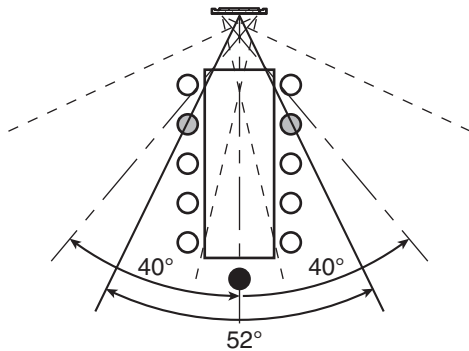
Step 2: Connecting this unit to VC1 and turning on the power

Follow the procedure below to connect this unit to VC1.

Note

Do not connect this unit or VC1 to the main power until all connections between components are complete.
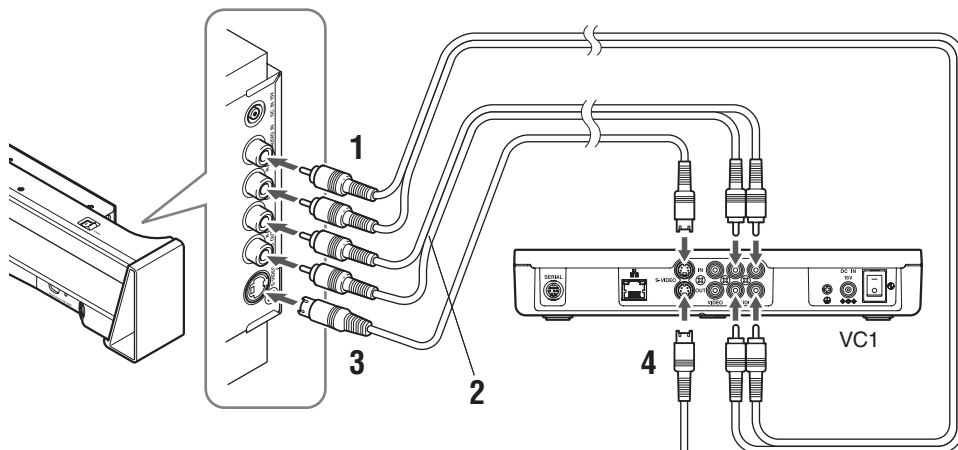
1 **Connect the AUDIO IN terminal of this unit to the AUDIO OUT terminal of VC1 using a stereo audio cable.**

2 **Connect the AUDIO OUT terminal of this unit to the AUDIO IN terminal of VC1 using a stereo audio cable.**

3 **Connect the S-VIDEO terminal of this unit to the S-VIDEO IN terminal of VC1 using an S terminal cable.**

4 **Connect the S VIDEO OUT terminal of VC1 to the S-Video input terminal of a monitor, such as a TV or projector using an S terminal cable.**

PREPARATION

English

11
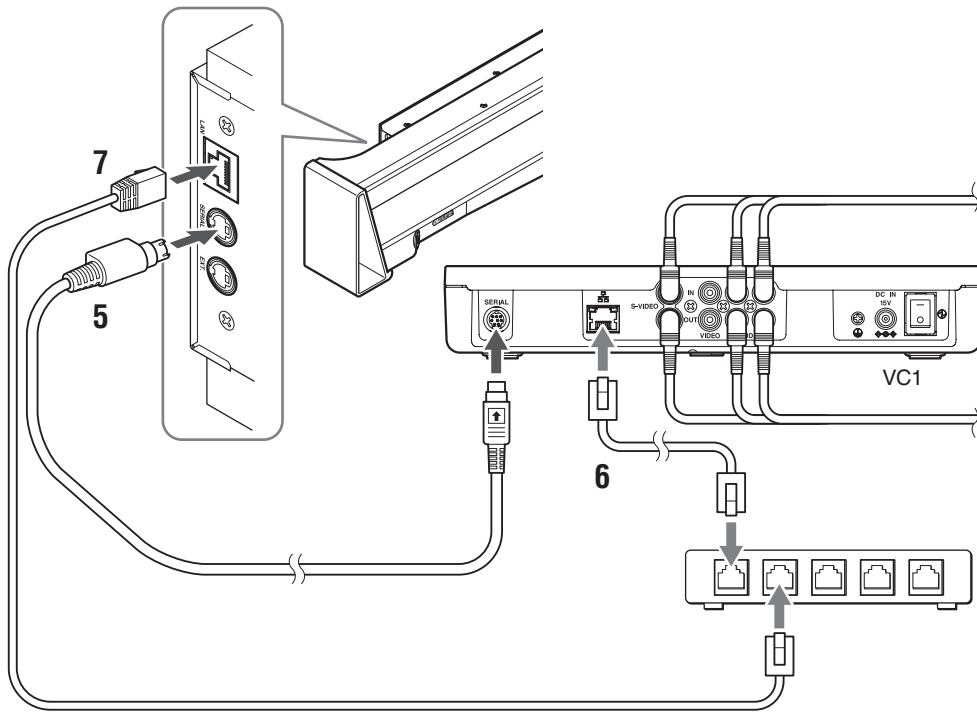
5 Connect the SERIAL terminal of this unit to the SERIAL terminal of VC1 using a serial cable.

6 Connect the LAN port of VC1 to the LAN port of the networking equipment, such as a router, using a LAN cable.

7 Connect the LAN port of this unit to the LAN port of the networking equipment, such as a router, using a LAN cable.

☼
By connecting this unit to the networking equipment, you can access the web menu from a pc to configure the settings and perform firmware update.

PREPARATION
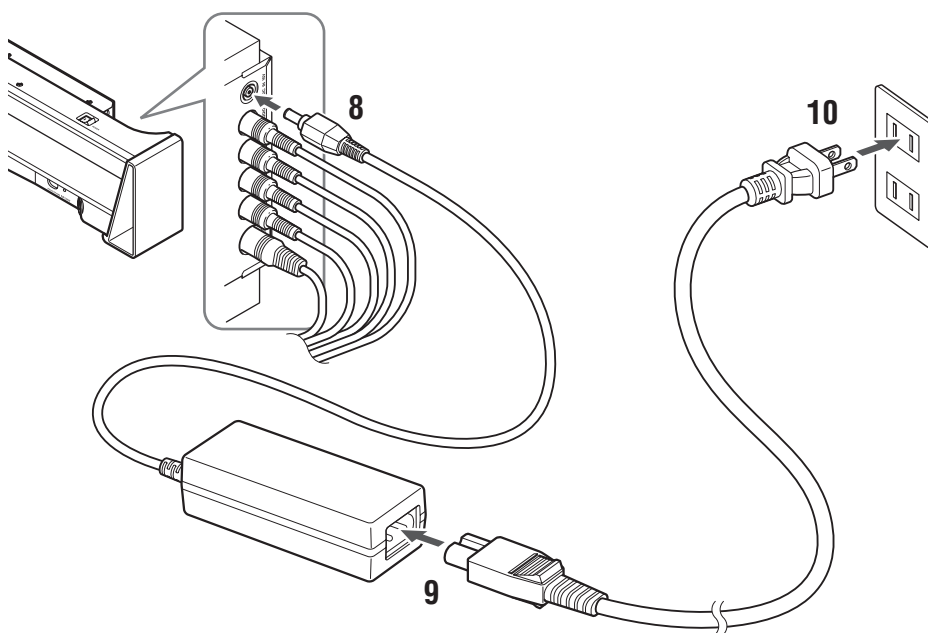
8 **Connect the AC adapter to the DC IN 15V terminal of this unit.**

9 **Connect the power cable to the AC adapter.**

10 **Connect the power cable of this unit to the AC outlet.**

English

13

13

11

12
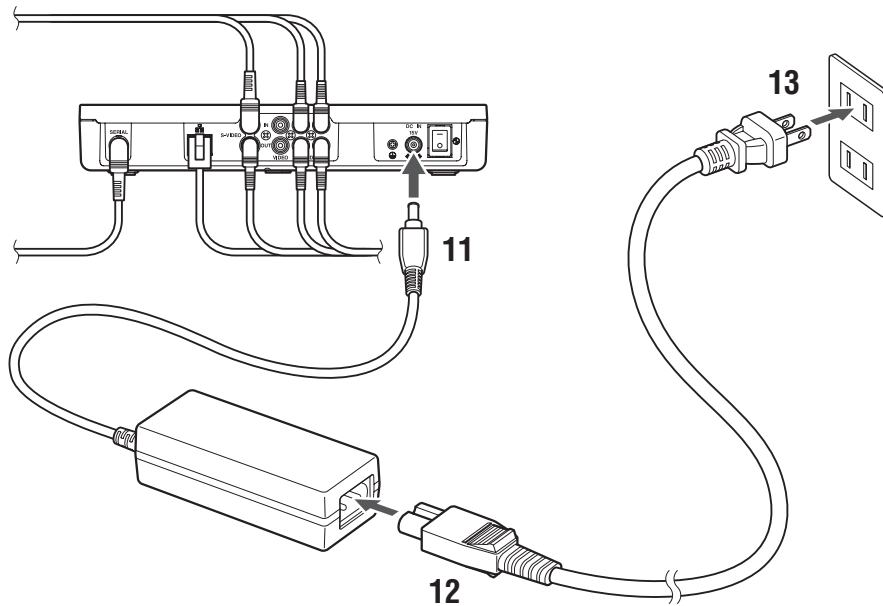
11 **Connect the AC adapter (supplied with VC1) to the DC IN 15V terminal of VC1.**

12 **Connect the power cable to the AC adapter.**

13 **Connect the power cable of VC1 to the AC outlet.**

14 **Press the POWER switch of this unit to turn on the power.**
The STANDBY/ON indicator lights up in green.

15 **Press the POWER switch of VC1 to turn on the power.**
The POWER indicator of VC1 lights up in green and the initial screen appears.

Initial screen

2007/01/08 17:22

Call: ✆ or CANCEL

■ **Switching the power between on and the standby mode**

⏻/| (Power)

PAGE
CAMERA VIDEO S-VIDEO

1 2 3
4 5 6
7 8 9
✳ 0 #
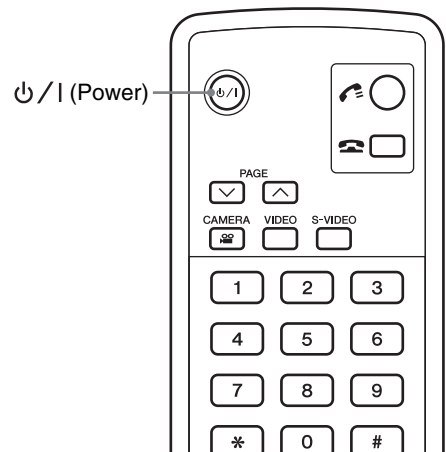
To turn on this unit, press ⏻/| on the remote control, so that the STANDBY/ON indicator lights up in green (on). To set this unit to the standby mode, first press ⏻/|, so that the confirmation screen appears. Then press ENTER or ⏻/| again so that the STANDBY/ON indicator lights up in orange (standby mode).

14

Step 3: Configuring the initial settings

You need to register the name of this unit and the network settings, and to set the date and time on the initial setting screen.

☼

When you first turn on this unit, the initial setting screen appears.

CANCEL

MENU

Numeric keys

Cursor keys, ENTER
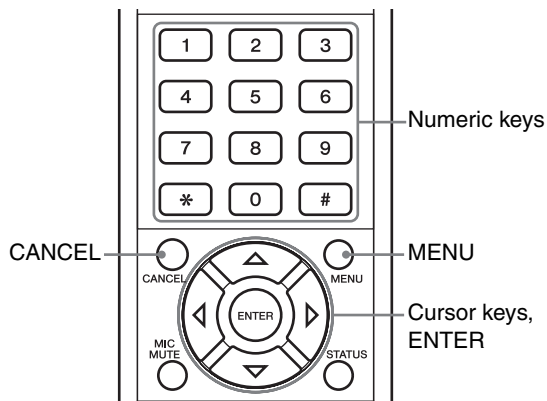
1 Press △ or ▽ to select "Site Name", and press ENTER.

The character input screen appears.

```
Enter Site Name
[ ■                              ]
                    SP  | DEL | SAVE | CAN

0 1 2 3 4 5 6 7 8 9
A B C D E F G H I J K L M N O P Q
R S T U V W X Y Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z
! " # $ % & ' ( ) * + , - . /
: ; < = > ? @ [ ¥ ] ^ _ ` { | } ~

Select: ✛ /Set: ENTER /Input: 0-9, *, #
```

2 Enter any desired name for this unit.

For information on the character input method, see "Entering the characters" (page 31).

3 Press △ or ▽ to select "Next Screen", and press ENTER.

The network setting screen appears.

```
Initial Settings - Network

   1. DHCP          [  Enable  ]
   2. IP Address    [ 0.0.0.0        ]
   3. Subnet Mask   [ 0.0.0.0        ]
   4. Gateway       [ 0.0.0.0        ]
   5. DNS           [ 0.0.0.0        ]

 ▶ 6. Next Screen
   7. Previous Screen


Select: ⬍ /Set: ENTER
```
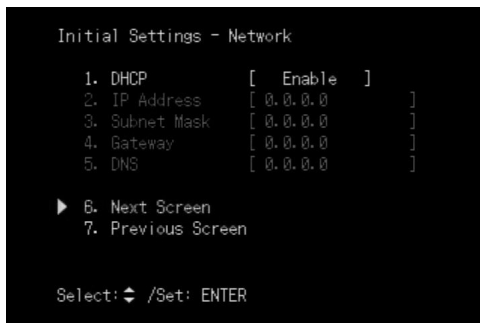
4 Register the network settings.

There are two ways to obtain the network information: One is that you obtain it using the DHCP server. The other way is that you register the network information manually. If you register the network information manually, see "Assigning the IP address manually" (page 18).

PREPARATION

English

15

5 **Press △ or ▽ to select "Next Screen", and press ENTER.**

The screen for setting the date and time appears.

```
Initial Settings - Date/Time

▶ 1. Date/Time        [ 07/01/08 10:00 ]


  2. Previous Screen

  3. Complete



Select: ♦ /Set: ENTER
```
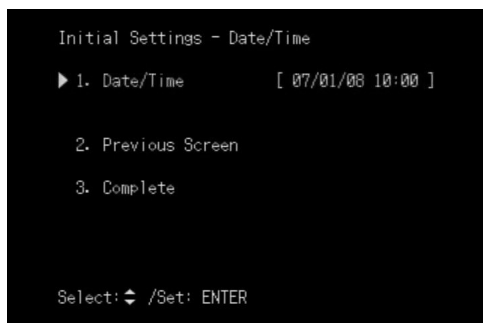
6 **Press △ or ▽ to select "Date/Time", and then press ENTER.**

```
Initial Settings - Date/Time

▶ 1. Date/Time        [ 07/01/08 10:00 ]


  2. Previous Screen

  3. Complete



Select: ♦ /Set: ENTER
```
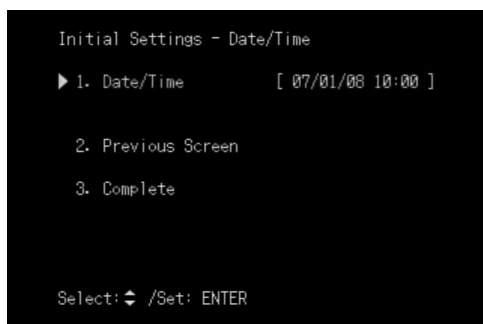
7 **Use the numeric keys to enter the date and time, and then press ENTER.**

☼

To correct a number that has been entered, use ◁ or ▷ to position the cursor over the number to be corrected, and enter the new number.

8 **Press △ or ▽ to select "Complete", and then press ENTER.**

The initial settings are completed.

16

Registering the network settings of this unit and VC1

Register the network information of this unit and VC1 (IP address, subnet mask, default gateway, and DNS server) according to the LAN in which this unit is accommodated. The procedure is different depending on whether or not the DHCP server is used.

■ **Obtaining the IP address automatically**

When this unit is used in a network with a DHCP server, no setting operation is required since the DHCP server assigns all of the necessary network information automatically.

To check if the correct network information is obtained

To confirm the network information of this unit, press MENU, and select "Administrator Settings"→"Firmware Update"→"PJP-300V Firmware Update" on the setting menu screen. To confirm the network information of VC1, press ✆ or CANCEL to display the line connection screen and check that the network information is assigned properly. The following description is given taking VC1 as an example.

If the IP address is displayed

The network information is obtained properly.

If the IP address is displayed "???.???.???.???"

The network information is not obtained properly.

If the "LINE" appears at the lower left, VC1 is not connected properly to the network.

– Check if the LAN cable is connected properly.
– Check the condition of the networking equipment to which the LAN cable is connected.

If the "DHCP" appears at the lower left, the network information is not obtained from the DHCP server.

– There may be a network fault between VC1 and the DHCP server. Consult your system administrator to solve the problem with the network.
– If the problem cannot be solved, register the network information manually (page 18).

PREPARATION

English

■ Assigning the IP address manually

You need to confirm the network information of this unit and VC1 and set the DHCP setting to "Disable" before registering the network information. The following description is given taking VC1 as an example.

Note

Set a unique IP address to this unit or VC1 so that it does not overlap with the IP address of any other equipment already existing in the LAN.

Follow the procedure below to register the network information manually.

☼

To register the network information of this unit, press MENU, and select "Administrator Settings"→"Firmware Update"→"PJP-300V Firmware Update" on the setting menu screen to access the PJP-300V Firmware Update screen.

Numeric keys

MENU

Cursor keys, ENTER
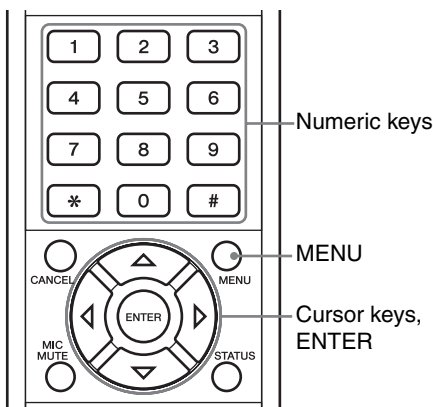
1 **Press △ or ▽ to select "DHCP", and then press ENTER.**
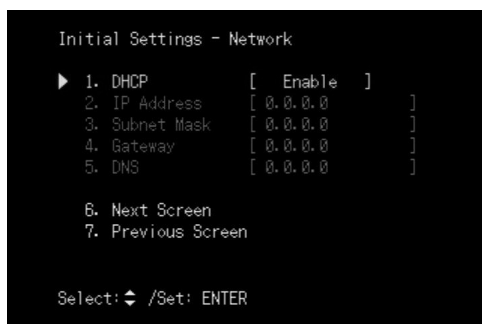
2 **Press △ or ▽ to select "Disable", and then press ENTER.**

3 **Press △ or ▽ to select "IP Address", and then press ENTER.**

4 **Use the numeric keys to enter the IP address of VC1, and then press ENTER.**

☼

To correct a number that has been entered, use ◁ or ▷ to position the cursor over the number to be corrected, and enter the new number.

18

5 Press △ or ▽ to select "Subnet Mask", and then press ENTER.

```
Initial Settings - Network

  1. DHCP          [ Disable  ]
  2. IP Address    [ 192.168.0.2   ]
▶ 3. Subnet Mask   [  ▮  .  .     ]
  4. Gateway       [ 0.0.0.0       ]
  5. DNS           [ 0.0.0.0       ]

  6. Next Screen
  7. Previous Screen


Input: 0-9 /Move: ◀▶ /Set: ENTER
```

6 Use the numeric keys to enter the subnet mask of VC1, and then press ENTER.

```
Initial Settings - Network

  1. DHCP          [ Disable  ]
  2. IP Address    [ 192.168.0.2   ]
▶ 3. Subnet Mask   [ 255.255.255.0 ]
  4. Gateway       [ 0.0.0.0       ]
  5. DNS           [ 0.0.0.0       ]

  6. Next Screen
  7. Previous Screen


Select: ↕ /Set: ENTER
```

7 Press △ or ▽ to select "Gateway", and then press ENTER.

```
Initial Settings - Network

  1. DHCP          [ Disable  ]
  2. IP Address    [ 192.168.0.2   ]
  3. Subnet Mask   [ 255.255.255.0 ]
▶ 4. Gateway       [  ▮  .  .     ]
  5. DNS           [ 0.0.0.0       ]

  6. Next Screen
  7. Previous Screen


Input: 0-9 /Move: ◀▶ /Set: ENTER
```

8 Use the numeric keys to enter the IP address of the default gateway of VC1, and then press ENTER.

```
Initial Settings - Network

  1. DHCP          [ Disable  ]
  2. IP Address    [ 192.168.0.2   ]
  3. Subnet Mask   [ 255.255.255.0 ]
▶ 4. Gateway       [ 192.168.0.1   ]
  5. DNS           [ 0.0.0.0       ]

  6. Next Screen
  7. Previous Screen


Select: ↕ /Set: ENTER
```

9 Press △ or ▽ to select "DNS", and then press ENTER.

```
Initial Settings - Network

  1. DHCP          [ Disable  ]
  2. IP Address    [ 192.168.0.2   ]
  3. Subnet Mask   [ 255.255.255.0 ]
  4. Gateway       [ 192.168.0.1   ]
▶ 5. DNS           [  ▮  .  .     ]

  6. Next Screen
  7. Previous Screen


Input: 0-9 /Move: ◀▶ /Set: ENTER
```

10 Use the numeric keys to enter the IP address of the DNS server referenced by VC1, and then press ENTER.

PREPARATION

English

19

Making a Call

Follow the procedure below to call another unit. This unit, VC1, and the system you want to call should be turned on before making a call.
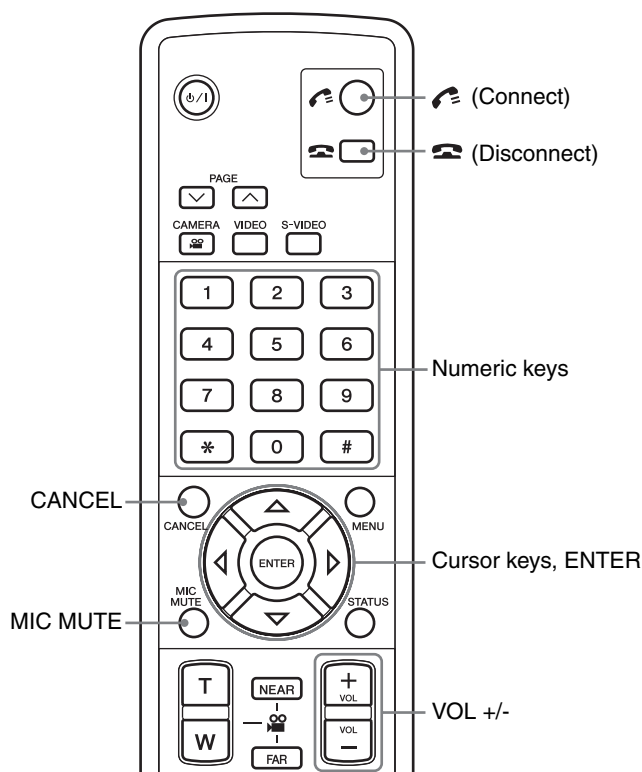
- $\curvearrowright$ (Connect)
- $\rightleftharpoons$ (Disconnect)
- Numeric keys
- CANCEL
- Cursor keys, ENTER
- MIC MUTE
- VOL +/−

---

1 **When the initial screen appears, press $\curvearrowright$ or CANCEL.**

The line connection screen appears.


```
2007/01/08 15:54
IP: 192.168.0.2

Call  (H.323)
▶ 1. Address Book
  2. Number
  3. Call History

Select: ⬍ /Set: ENTER
```

※
Press CANCEL repeatedly to display the initial screen. For information on the initial screen, see "Initial screen" (page 14).

2 **Press △ or ▽ to select "Number", and then press ENTER.**

The menu for specifying numbers appears.


```
2007/01/08 15:54
IP: 192.168.0.2

Call - Number

Enter Number
[                              ]

Input: 0-9,*,# /Set: ENTER
```

3 Use the numeric keys to enter the number of the destination unit.
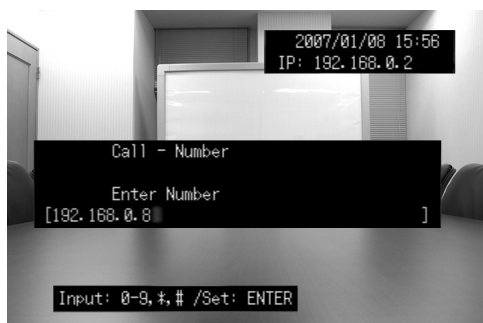
❖
• To enter "." (Dot), press *.

• To correct a number that has been entered, use ◁ or ▷ to position the cursor over the number to be corrected, and enter the new number.

4 Press ⌀ or ENTER.
The calling screen appears.
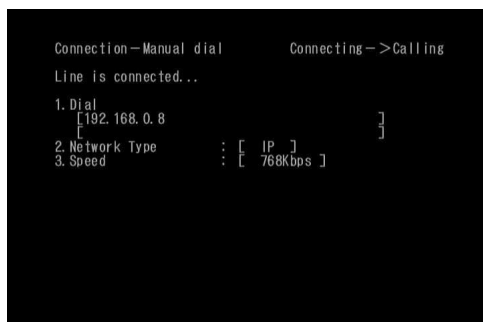
Once the destination unit performs the operation for answering the call, the connection between both units is established. And this unit is ready for a videoconference.

Note

Do not disconnect the LAN cable and/or power cable while the connection between both units is established. Doing so may cause malfunction.

❖
To adjust the speaker volume, press VOL +/–.

5 To disconnect the call when the conference is complete, press ☎ .
Disconnection confirmation screen appears.
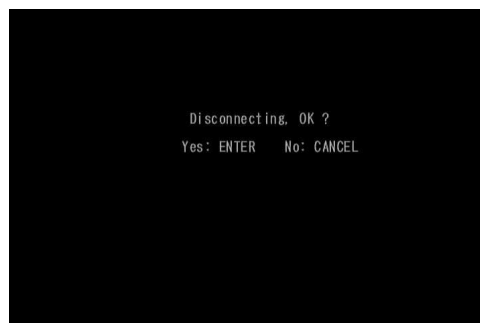
6 Press ☎ or ENTER.

■ **If a call cannot be made, check the followings:**
– The destination unit is turned on.
– This unit is connected to the network properly.
– Check the call history (page 23) to identify the cause of the trouble.
– See "Q3: A call cannot be made" (page 65).

■ **Muting the microphones**
If you talk a topic you do not want to be heard by the other party, press MIC MUTE to mute the microphones. While "Mic MUTE" is being displayed on the screen, audio is not transmitted to the destination unit.
To cancel muting, press MIC MUTE again.

Calling another unit using the address book

Follow the procedure below to call another unit registered in the address book.

☼

For information on registering IP addresses, see "Editing the Address Book" (page 39).

1 When the initial screen appears, press 📞 or CANCEL.

The line connection screen appears.

☼

To show the initial screen, press CANCEL repeatedly. For information on the initial screen, see "Initial screen" (page 14).

2 Press △ or ▽ to select "Address Book", and then press ENTER.
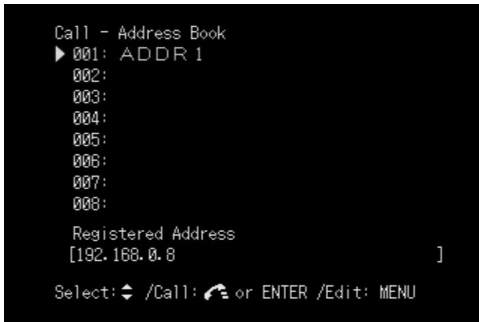
The address book screen appears.

3 Press △ or ▽ to select the destination unit, and then press 📞 or ENTER.

The calling screen appears.

Once the destination unit performs the operation for answering the call, the connection between both units is established. Further operations are the same as in "Making a Call" (page 21).

22

Calling another unit using the call history

Follow the procedure below to call another unit by referring to the history of past outgoing or incoming calls.

Note

If the destination unit uses the DHCP server, its IP address may vary from the last call. If this unit cannot call successfully, confirm the IP address of the destination unit.

1 When the initial screen appears, press ☎ or CANCEL.

The line connection screen appears.


```
                          2007/01/08 17:22
                          IP: 192.168.0.2




Call  (H.323)
▶ 1. Address Book
  2. Number
  3. Call History


Select: ↕ /Set: ENTER
```

2 Press △ or ▽ to select "Call History", and then press ENTER.

The call history screen appears.


```
Call - Call History
▶ 001: ▭ 192.168.0.7
  002:
  003:
  004:
  005:
  006:
  007:
  008:
  Address
  [192.168.0.7              ]

Select: ↕ /Call: ☎ or ENTER /Regist: MENU
```
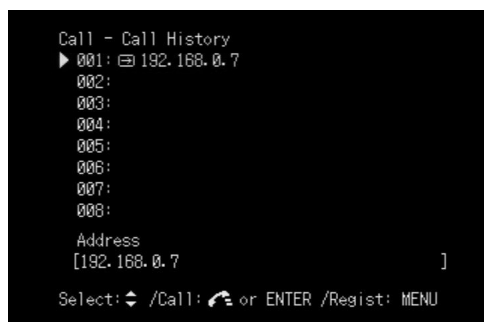
☼
You can register an IP address in the address book by selecting it from the call history. Select an IP address you want to register, and press MENU. For details on registration method, see "Editing the Address Book" (page 39).

3 Press △ or ▽ to select the destination unit, and then press ☎ or ENTER.

The calling screen appears.


```
Connection—Manual dial        Connecting—>Calling

Line is connected...

1.Dial
  [192.168.0.7                     ]
  [                                ]
2.Network Type        : [  IP  ]
3.Speed               : [ 768Kbps ]
```

Once the destination unit performs the operation for answering the call, the connection between both units is established. Further operations are the same as in "Making a Call" (page 21).

BASIC OPERATIONS

English

23
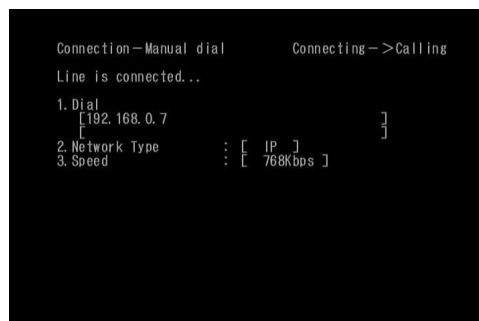
Answering a Call

Follow the procedure below to answer a call from another unit.

1 While having an incoming call, press 📞 or ENTER.

When there is an incoming call, the message that indicates having an incoming call appears and the ringing tone is generated.

The display shows the IP address of the unit calling this unit.
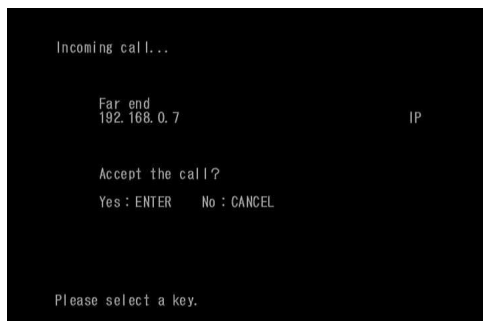
```
Incoming call...


    Far end
    192.168.0.7                        IP


    Accept the call?
    Yes:ENTER    No:CANCEL




Please select a key.
```

The connection between both units is established and this unit is ready for a videoconference.

Note

Do not disconnect the LAN cable or power cable during a call. Doing so may cause malfunction.

☀
- To adjust the speaker volume, press VOL +/–.
- You can configure the answering method when receiving an incoming call. For details, see "Specifying the answering mode" (page 36).

2 To disconnect the call when the conference is complete, press 📞.

Disconnection confirmation screen appears.

3 Press 📞 or ENTER.

■ Rejecting an incoming call

While having an incoming call, press 📞 or CANCEL.

■ Muting the microphones

If you talk a topic you do not want to be heard by the other party, press MIC MUTE to mute the microphones. While "Mic MUTE" is being displayed on the screen, audio is not transmitted to the destination unit.
To cancel muting, press MIC MUTE again.

Sending a Tone Signal During the Call

You can send a tone signal during the call if using a service that requires additional number input.

1 Press ☎ during a call.

The Number Addition screen appears.

2 Input the number using numeric keys.

Each time you press a numeric key, the corresponding tone is sent out.

3 When you complete the input, press ☎.

The screen that appears during a call reappears.

Switching the Screen Display

You can switch the images between the incoming image (being captured by the cameras on the destination unit) and the outgoing image (being captured by the cameras on this unit). Also, if you turn on the PIP (Picture In Picture) mode, the pop-up screen is displayed and you can view the incoming image and the outgoing image simultaneously. If you turn on the Multi Camera mode, you can view each image captured by the cameras on this unit on one screen divided into four parts.

- PREVIEW key: Displays the outgoing images.
- RECEIVE key: Displays the incoming images.
- PIP key: Turns on/off the PIP mode. If you turn on the PIP mode, the pop-up screen appears.
- CAMERA key: Turn on/off the Multi Camera mode. If you turn on the Multi Camera mode, the screen is divided into four parts.

Assuming that you are holding a videoconference in the environment shown below:

During a call

The environment this unit is used | The environment the destination unit is used
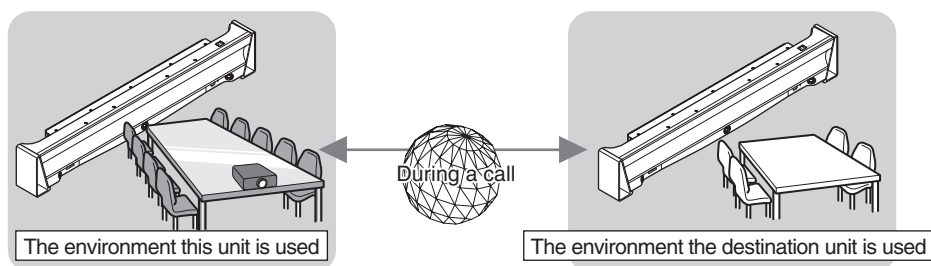
Depending on the key you press, images are displayed on the screen as shown below.

PREVIEW key

RECEIVE key

PIP key

PIP key

PREVIEW key

RECEIVE key

26
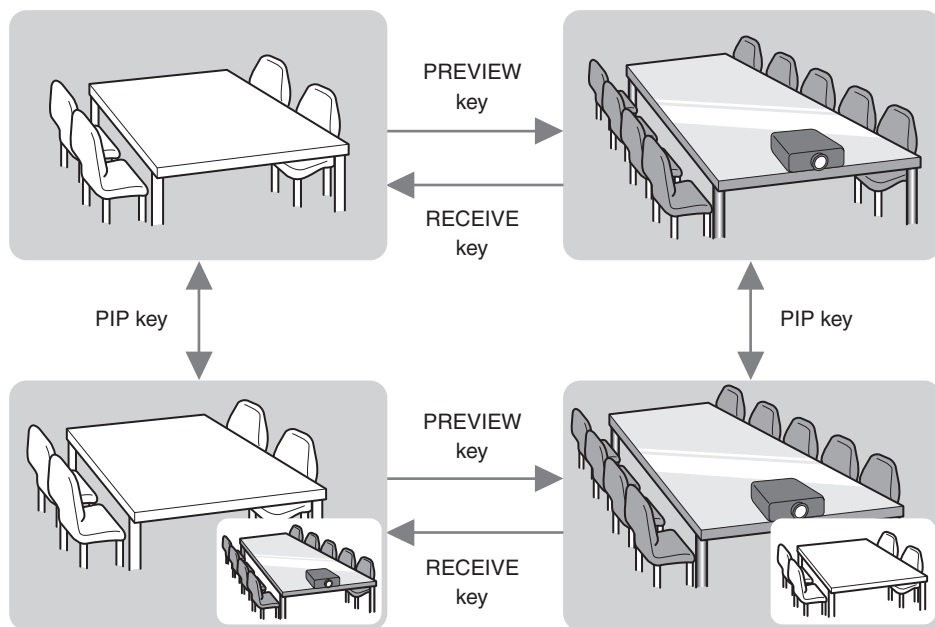
Images are displayed on the screen as shown below when you turn on the Multi Camera mode.

Screen 1	Screen 2
Screen 3	Screen 4
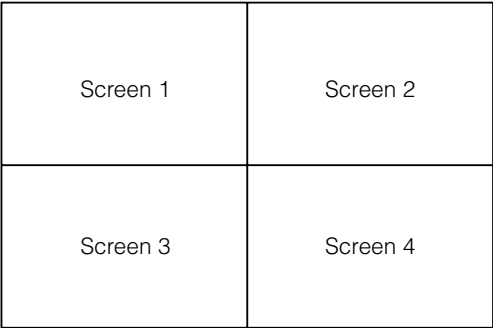
Screen 1: Displays the image captured by the center camera.
Screen 2: Displays the image captured by the right camera.
Screen 3: Displays the image captured by the left camera.
Screen 4: Displays the logo mark of PJP or the information registered in "Conference Information" in the web menu. For conference information registration, see "Registering the Conference Information" (page 45).

■ **Displaying the status of this unit**

You can check the status of this unit, such as the camera control or communication status, on the screen by pressing STATUS.

27

Sending a Still Image to the Destination Unit

You can capture the image displayed on the screen and send it to the destination unit as a still image. The still image that has been sent is displayed on the screen at both locations. You can hold a videoconference viewing the same image as the destination unit.

1 **When the image you want to capture is displayed on the screen, press SEND.**

The image is captured and displayed on the screen at both locations.

2 **To return to the moving image, press PREVIEW or RECEIVE.**

- If the incoming image has been displayed on the screen before a still image appears, press PREVIEW.
- If the outgoing image has been displayed on the screen before a still image appears, press RECEIVE.

☼

If you press VIEW, the last sent or received still image appears on the screen.

Operating the Cameras

You can control the three cameras on this unit or destination unit using the remote control.

Operating the cameras on this unit

1   Press NEAR to switch the operation mode to this unit.

"Near end Control" appears on the screen.

2   Operate the cameras on this unit.
- PAGE key : Switch the cameras (left, center, right) to capture images.
- △ / ▽ : Adjusts the angle of the camera being selected (up/down).
- ◁ / ▷ : Adjusts the angle of the camera being selected (left/right).

During a call, the three cameras (left, center, right) work together to capture images.
- Numeric key "1" : Returns the angle of the left camera to the setting specified in "Default Camera View".
- Numeric key "2": Returns the angle of the center camera to the setting specified in "Default Camera View".
- Numeric key "3": Returns the angle of the right camera to the setting specified in "Default Camera View".

Note

Depending on the zoom setting, the range of the camera angle varies.

☀
- When the incoming image is displayed on the main screen, the outgoing image is displayed on the pop-up screen.
- For details on the default setting of the camera angle, see "Configuring the default setting of camera angle" (page 35).

Operating the cameras on the destination unit

Notes

- If the outgoing image is displayed on the main screen, press RECEIVE to display the incoming image on the main screen.
- If the destination unit is in the Multi Camera mode, you cannot operate the cameras on the destination unit.
- Depending on the destination unit, you may not operate the cameras on the destination unit.

1   Press FAR to switch the operation mode to the destination unit.

"Far end Control" appears on the screen.

2   Operate the cameras on the destination unit .
- △ / ▽ : Adjusts the angle of the camera being selected (up/down).
- ◁ / ▷ : Adjusts the angle of the camera being selected (left/right).

During a call, the three cameras (left, center, right) work together to capture images.
- T/W key: Adjusts the zoom of the selected camera.

Configuring the Settings

Follow the procedure below to configure the settings of this unit and VC1 using the remote control or using a web browser on the pc connected to this unit.

Notes

- Some of the settings can be configured only using the remote control. However, in some cases, such as when you register the conference information, you need to access the web menu from a pc.
- See "Setting Menu List" (page 33) for details on the setting menu configuration and parameters of each menu item.
- During a call, you cannot display the setting menu screen.

Configuring the settings using the remote control

CANCEL — MENU

Numeric keys

Cursor keys, ENTER
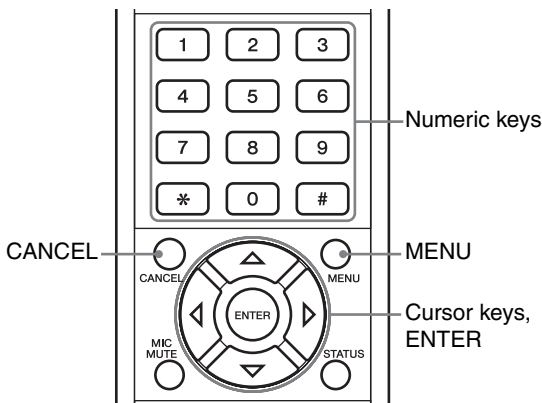
1 Press MENU.

The setting menu screen appears.
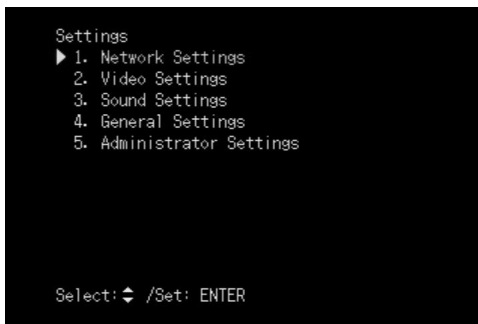
2 Press △ or ▽ to select the menu category, and then press ENTER.

The menu items in the selected category appear. The following figure is taking "Network Settings" as an example.
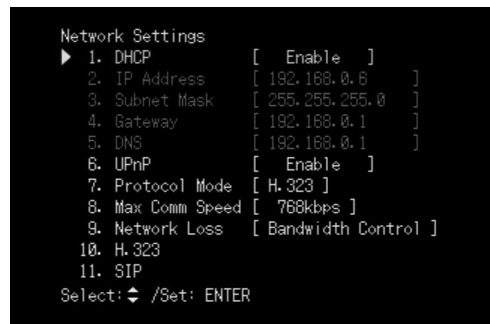
3 Press △ or ▽ to select the parameter.

The following figure is taking "IP Address" as an example.

Some menu items have subitems. Select the subitem and change the setting in the same way as in step 3.

4 **Press △ or ▽ to change the setting or use the numeric keys to enter the numbers.**

```
Network Settings
   1. DHCP          [ Disable   ]
 ▶ 2. IP Address    [ 192.168.  0.  6 ]
   3. Subnet Mask   [ 0.0.0.0   ]
   4. Gateway       [ 0.0.0.0   ]
   5. DNS           [ 0.0.0.0   ]
   6. UPnP          [ Enable    ]
   7. Protocol Mode [ H.323 ]
   8. Max Comm Speed [ 768kbps ]
   9. Network Loss  [ Bandwidth Control ]
  10. H.323
  11. SIP
Input: 0-9 /Move: ◀▶ /Set: ENTER
```
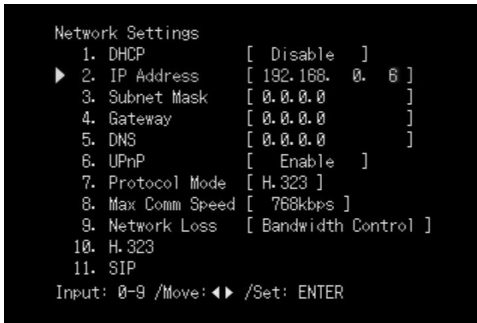
☼
For information on the character input method, see "Entering the characters".

5 **When you complete the setting, press ENTER.**

The setting is saved.

6 **When you complete all the settings you want to configure, press MENU.**

This unit restarts. If the menu category other than "Network Settings" is being selected, the setting menu screen reappears.

To return to the previous screen without saving the setting

In step 5, press CANCEL.

■ **Entering the characters**

Follow the procedure below to enter the characters.

```
Enter Site Name
[ ■ ]                    Item selection area
                         [ SP | DEL | SAVE | CAN ]

0 1 2 3 4 5 6 7 8 9
A B C D E F G H I J K L M N O P Q
R S T U V W X Y Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z
! " # $ % & ' ( ) * + , - . /
: ; < = > ? @ [ ¥ ] ^ _ ` { | } ~
                    Character table
Select: ✧ /Set: ENTER /Input: 0-9, *, #
```

1 **Use the cursor keys to select the desired character in the character table, and then press ENTER.**

☼
• To move the cursor to the previous area, press CANCEL.
• To enter a space, select the "SP", and then press ENTER.
• To correct the character that has been entered, select "DEL", and then press ENTER .

2 **If you complete entering the characters, press ◁ or ▷ to select "SAVE", and press ENTER.**

The characters that you have entered are registered. To return to the previous screen without registering the characters, press "CAN", and then press ENTER.

Key operation in the item selection area

• ◁ or ▷ key: Moves the cursor to the desired item.
• CANCEL key: Deletes the preceding character. If the cursor is positioned over the first character, the previous screen appears by pressing the key.

Key operation in the character table

• Cursor keys: Select the desired character.
• ENTER key: Enters the character being selected.
• CANCEL key: Moves the cursor to the previous area.

CONFIGURATIONS

English

31

Configuring the settings in the web menu

By using the web menu, you can configure multiple settings of this unit and VC1 at a time.

Note

Microsoft Windows XP or Windows 2000 is required as the web browser for viewing the web menu.

1 **Make sure that both this unit and VC1 are turned on.**

2 **Launch the web browser on your pc, and then select "File"→"Open" in the menu.**

3 **Enter http://(IP address of this unit), and then click "OK"**
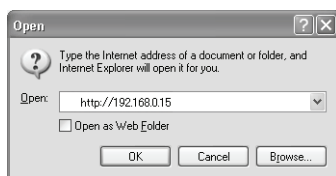
The main screen of the web menu appears.
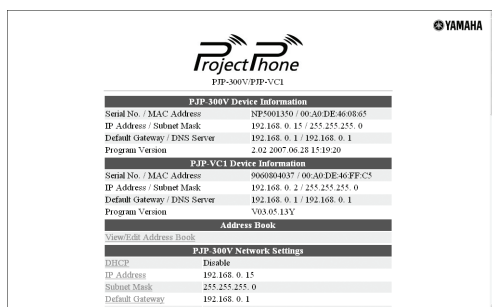
When the main screen of the web menu does not appear

See "Q2: Web menu setting is not available" (page 64).

Setting Menu List

This section describes the setting menu items available on the setting menu screen. In the following description,

⬚ indicates that the setting can be configured using the remote control of this unit and 💻 indicates that the setting can be configured using the web menu on a pc.

Configuring network settings

■ Configuring the DHCP server settings
⬚ 💻

Select "Enable" to assign the network information of VC1 using the DHCP server or "Disable" to assign the network information manually. The default setting is "Enable".

Using the remote control
On the setting menu screen, select "Network Settings" → "DHCP".

Using the web menu
In the web menu, select "(VC1)DHCP".

■ Registering the IP address ⬚ 💻
You need to register the IP address of VC1 when the DHCP server is not used. The default setting is "0.0.0.0".

Using the remote control
On the setting menu screen, select "Network Settings" → "IP Address".

Using the web menu
In the web menu, select "(VC1)IP Address".

■ Registering the subnet mask
⬚ 💻

You need to register the subnet mask of VC1 when the DHCP server is not used. The default setting is "0.0.0.0".

Using the remote control
On the setting menu screen, select "Network Settings" → "Subnet Mask".

Using the web menu
In the web menu, select "(VC1)Subnet Mask".

■ Registering the default gateway
⬚ 💻

You need to register the default gateway to be referenced by VC1 when the DHCP server is not used. The default setting is "0.0.0.0".

Using the remote control
On the setting menu screen, select "Network Settings" → "Gateway".

Using the web menu
In the web menu, select "(VC1)Default Gateway".

■ Registering the DNS server ⬚ 💻
You need to register the DNS server to be referenced by VC1 when the DHCP server is not used. The default setting is "0.0.0.0".

Using the remote control
On the setting menu screen, select "Network Settings" → "DNS".

Using the web menu
In the web menu, select "(VC1)DNS Sever".

■ Configure the UPnP setting ⬚ 💻
If you connect VC1 to the router that supports the UPnP (Universal Plug and Play) function, select "Enable". Otherwise select "Disable". The default setting is "Disable".

Using the remote control
On the setting menu screen, select "Network Settings" → "UPnP".

Using the web menu
In the web menu, select "UPNP".

■ Configuring the communication protocol (Protocol Mode) ⬚ 💻
You can specify the communication protocol. Select "H.323" to communicate using the gatekeeper. Select "SIP" to use the SIP server. The default setting is "H.323"

Using the remote control
On the setting menu screen, select "Network Settings" → "Protocol Mode".

Using the web menu
In the web menu, select "Protocol Mode".

33

■ **Configuring the maximum communication speed**

You can specify the communication speed of VC1 according to the network speed. The default setting is "768kbps".

☀

If communication errors occur frequently, slowing down the maximum communication speed may improve the situation.

Using the remote control

On the setting menu screen, select "Network Settings" → "Max Comm Speed".

Using the web menu

In the web menu, select "Max Comm Speed".

■ **Configuring the communication bandwidth**

You can configure the communication bandwidth according to the network condition. Normally, select "Bandwidth Control".

- **Bandwidth Control (default setting):** Automatically changes the communication bandwidth according to the network condition.
- **FEC:** Ensure a stable connection by restoring the audio/video packet loss or an error.
- **Disable:** Not change the communication bandwidth.

Using the remote control

On the setting menu screen, select "Network Settings" → "Network Loss".

Using the web menu

In the web menu, select "Network Loss".

■ **Configuring the gatekeeper setting**

Select "Enable" to communicate using the gatekeeper. The default setting is "Disable". To use the gatekeeper, you need to register the gatekeeper address and the H.323 name. For details, see "Using the Gatekeeper" (page 41).

Note

If you communicate using the gatekeeper, you need to set "Protocol Mode" to "H.323". For details, see "Configuring the communication protocol (Protocol Mode)" (page 33).

Using the remote control

On the setting menu screen, select "Network Settings" → "H.323".

Using the web menu

In the web menu, select "Gatekeeper".

■ **Configuring the SIP server setting**

Select "Enable" to use the SIP server for the call. The default setting is "Disable". To use the SIP server, you need to register the SIP server address, account, and password. For details, see "Using the SIP Server" (page 43).

Notes

- To make a call using the SIP server, you need to register the SIP address, account, and password.
- If you communicate using the SIP server, you need to set "Protocol Mode" to "SIP". For details, see "Configuring the communication protocol (Protocol Mode)" (page 33).

Using the remote control

On the setting menu screen, select "Network Settings" → "SIP".

Using the web menu

In the web menu, select "SIP Server".

Configuring video settings

■ **Registering the conference information** 🖥

You can specify the information displayed in the fourth screen when the Multi Camera mode is on. For details, see "Registering the Conference Information" (page 45).

Using the web menu

In the web menu, select "Conference Information".

■ **Configuring the video encoding mode** 🖥

You can specify the video encoding mode according to the network communication speed. The default setting is "H.264 prrty".

Using the remote control

On the setting menu screen, select "Video Settings" → "Video CODEC".

Using the web menu

In the web menu, select "Video CODEC".

■ **Configuring the video quality** 🖥

You can specify the video quality during a call.
• **Standard (default setting)**: Select for ordinary use.
• **Motion**: Sends a smoother image.
• **Quality**: Sends a higher quality image.

Using the remote control

On the setting menu screen, select "Video Settings" → "Video Quality".

Using the web menu

In the web menu, select "Video Quality".

■ **Configuring the packet loss concealment** 🖥

Select "ON" to compensate the image data during a call. The default setting is "ON".

Using the remote control

On the setting menu screen, select "Video Settings" → "P.Loss Concealment".

Using the web menu

In the web menu, select "P.Loss Concealment".

■ **Configuring the camera auto tracking function** 🖥

Select "Enable" to switch the cameras automatically according to the talker's position.

The default setting is "Enable".

Using the remote control

On the setting menu screen, select "Video Settings" → "Camera Tracking".

Using the web menu

In the web menu, select "Camera Tracking".

■ **Configuring the microphone sensitivity** 🖥

You can specify the microphone sensitivity according to operating environment (only when the camera auto tracking function is activated). Select "Standard" (default setting) in an ordinary environment.
• **High**: Detects a soft sound.
• **Standard (default setting)**: Select for using this unit in an ordinary environment.
• **Low**: Detects a loud sound.

Using the remote control

On the setting menu screen, select "Video Settings" → "CamTrack Sensitivity".

Using the web menu

In the web menu, select "CamTrack Sensitivity".

■ **Specifying the pause time of the camera auto tracking function** 🖥

You can select the pause time of the camera auto tracking function when operating the cameras on this unit manually. ("3 seconds": default setting, "5 seconds", "10 seconds")

Using the remote control

On the setting menu screen, select "Video Settings" → "Camera Pause Time".

Using the web menu

In the web menu, select "Camera Pause Time".

■ **Configuring the default setting of camera angle**

You can register the default angle of the cameras on this unit. Also, you can change the angle to its default when you manually operate the camera by pressing the numeric key (1, 2, 3). To set the default angle of the cameras, adjust the angles of the cameras, and then press ENTER, so that they are saved as the default. For details on operating the cameras on this unit, see "Operating the cameras on this unit" (page 29).

Using the remote control

On the setting menu screen, select "Video Settings"→"Default Camera View"

CONFIGURATIONS

English

35

Configuring sound settings

■ **Configuring the room size**

You can configure the audio pick-up area according to the room size or operating environment. The default setting is "Large".

Using the remote control

On the setting menu screen, select "Sound Settings" → "Room Size".

Using the web menu

In the web menu, select "Room Size".

■ **Configuring the audio encoding mode (CODEC)**

You can specify the audio encoding mode according to the network communication speed. The default setting is "G.722".

☀️
If the audio breaks up during a call, lower the value of the parameter.

Using the remote control

On the setting menu screen, select "Sound Settings" → "Audio CODEC".

Using the web menu

In the web menu, select "Audio CODEC".

■ **Configuring the audio delay**

To synchronize audio and video by delaying the audio, select "ON". The default setting is "OFF".

Using the remote control

On the setting menu screen, select "Sound Settings" → "Audio Delay".

Using the web menu

In the web menu, select "Audio Delay".

■ **Configuring the packet loss concealment**

Select "ON" to compensate the image data during a call. The default setting is "ON".

Using the remote control

On the setting menu screen, select "Sound Settings" → "P.Loss Concealment".

Using the web menu

In the web menu, select "P.Loss Concealment".

Configuring general settings

■ **Registering the name of this unit**

You can register the name of this unit by entering any character string.

☀️
For information on the character input method, see "Entering the characters" (page 31).

Using the remote control

On the setting menu screen, select "General Settings" → "Site Name".

Using the web menu

In the web menu, select "Site Name".

■ **Setting the date and time**

You can set the current date and time.

Using the remote control

On the setting menu screen, select "General Settings" → "Date/Time".

Using the web menu

In the web menu, select "Date/Time".

■ **Specifying the answering mode**

You can specify the answering method when having an incoming call.

• **Manual** (default setting): Press 📞 to receive an incoming call.
• **Automatic**: Automatically receive an incoming call.
• **Select**: Receive the incoming call only from the destination unit registered in the address book.

Using the remote control

On the setting menu screen, select "General Settings" → "Incoming Mode".

Using the web menu

In the web menu, select "Incoming Mode".

■ **Adjusting the ring tone volume**

You can adjust the ring tone volume level (0: mute - 20). The default setting is "10".

Using the remote control

On the setting menu screen, select "General Settings" → "Ring Volume".

Using the web menu

In the web menu, select "Ring Volume".

36

■ **Specifying the installation configuration of this unit**

Normally, select "Normal". Select "Upside Down", if you install this unit turned over. The default setting is "Normal".

Using the remote control

On the setting menu screen, select "General Settings" → "Unit Installation".

Using the web menu

In the web menu, select "Unit Installation".

■ **Configuring the standby mode setting**

You can select the automatic transition period from the operating mode to the standby mode of this unit (only when the communication is not established). ("Disable": default setting, "3 minutes", "5 minutes", "10 minutes", "30 minutes")
In the standby mode, this unit consumes a small amount of power.

Using the remote control

On the setting menu screen, select "General Settings" → "Standby Mode".

Using the web menue

In the web menu, select "Standby Mode".

Configuring the administrator settings

■ **Registering the password**

You can register a password to prevent the settings of this unit or VC1 from being changed by a third party improperly.

☀️
For information on the character input method, see "Entering the characters" (page 31).

Using the remote control

On the setting menu screen, select "Administrator Settings" → "Password Registration".

Using the web menu

In the web menu, select "Password Registration".

■ **Configuring the connection setting**

If you use this unit connected with VC1, select "Yes". If you use this unit connected with a PC, select "No". The default setting is "Yes".

Note

Do not select "No" when this unit is connected to VC1, otherwise, "There is an error for connection." appears on the screen and you cannot perform any operation. In that case, connect this unit to a monitor using an S terminal cable, and change the setting to "Yes".

Using the remote control

On the setting menu screen, select "Administrator Settings" → "VC1 Connection".

Using the web menu

In the web menu, select "VC1 Connection".

■ **Resetting the settings**

You can reset the settings of this unit and VC1 to factory settings. For details, see "Resetting the Settings" (page 50).

Using the remote control

On the setting menu screen, select "Administrator Settings" → "Initialization".

Using the web menu

In the web menu, select "Initialization".

CONFIGURATIONS

English

37

■ Updating the functions of this unit and VC1

You can update the firmware of this unit and VC1. For details, see "Updating the Firmware" (page 46).

Using the remote control

On the setting menu screen, select "Administrator Settings" → "Firmware Update".

Using the web menu

In the web menu, select "PJP-300V Firmware Update Settings" or "PJP-VC1 Firmware Update Settings".

■ Displaying the information of this unit and VC1

You can display the "Serial Number", "MAC Address", and "Firmware Version" of this unit or VC1.

Using the remote control

On the setting menu screen, select "Administrator Settings" → "Device Information".

Editing the Address Book

You can register up to 32 units in the address book of this unit and edit the information in it. You can specify a unit to call using the address book. (page 22).

Registering the new address using the remote control
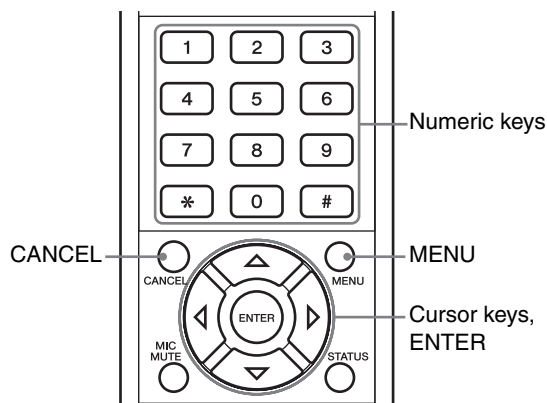
CANCEL

Numeric keys

MENU

Cursor keys, ENTER

1 When the initial screen appears, press ☎ or CANCEL.

The line connection screen appears.

2007/01/08 10:04
IP: 192.168.0.6

Call (H.323)
▶ 1. Address Book
2. Number
3. Call History

Select: ↕ /Set: ENTER

☀
To display the initial screen, press CANCEL repeatedly. For information on the initial screen, see "Initial screen" (page 14).

2 Press △ or ▽ to select the "Address Book", and then press ENTER.

The address book screen appears.

3 Press △ or ▽ to select the address number, and then press MENU.

The screen for editing the address book appears.

Call – Address Book
▶ 001:
002:
003:
004:
005:
006:
007:
008:

Registered Address
[   ]

Select: ↕ /Call: ☎ or ENTER /Edit: MENU
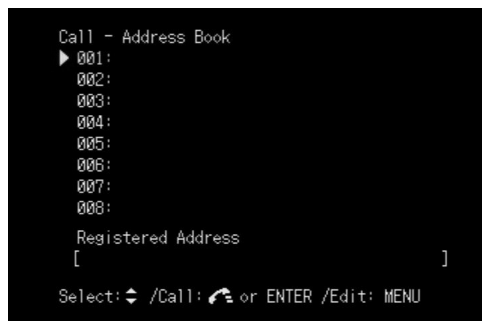
4 Press △ or ▽ to select "Name of Destination", and then press ENTER.

The character input screen appears.

Edit Address Book
Address Number [001]
▶ 1. Name of Destination
[   ]
2. Address of Destination
[   ]

3. Complete
4. Delete

Select: ↕ /Set: ENTER
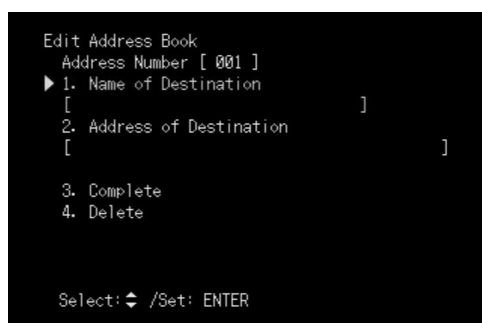
5 Use the cursor keys and ENTER to input the name of the destination unit.

For information on the character input method, see "Entering the characters" (page 31).

☀
If you do not enter the name of the destination unit, the address number of the destination unit is applied to "Name of Destination".

6 **Press ⌃ or ⌄ to select "Address of Destination", and then press ENTER.**

```
Edit Address Book
  Address Number [ 001 ]
  1. Name of Destination
  [                              ]
▶ 2. Address of Destination
  [                              ]

  3. Complete
  4. Delete


Select: ⬍ /Set: ENTER
```
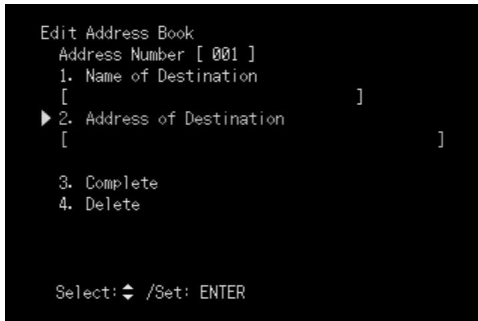
7 **Use the numeric keys to enter the IP address of the destination unit, and then press ENTER.**
  • To enter "." (Dot), press ∗ .
  • To use the gatekeeper, enter the IP phone number of the destination unit.

Note

If the destination unit uses the DHCP server, its IP address may vary. In that case, this unit cannot call the destination unit successfully even if the IP address is registered in the address book.

8 **Press ⌃ or ⌄ to select "Complete", and then press ENTER.**

The new address is registered in the address book, and the address book screen reappears.

■ **Editing an existing address**
In step 3, select the number of the address you want to edit.

■ **Deleting an existing address**
In step 3, select the number of the address you want to delete, and press ⌃ or ⌄ to select "DEL", then press ENTER.

Registering the new address using the web menu

1 **Click "View/Edit Address Book" in the web menu.**
The address book screen appears.
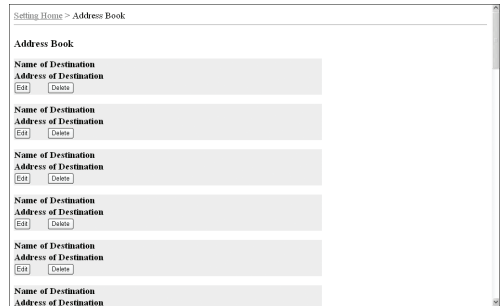
2 **Click "Edit".**
The address edit screen appears.

3 **Enter the name of the destination unit in "Name of Destination"**

4 **Enter the IP address of the destination unit in "Address of Destination"**

Note

If the destination unit uses the DHCP server, its IP address may vary from the last call. If this unit cannot call successfully, confirm the correct IP address of the destination unit.

5 **Click "Register"**
The new address is registered in the address book, and the address book screen reappears.

■ **Editing an existing address**
Click "Edit" in the field of the address to be corrected.

■ **Deleting an existing address**
Click "Delete" in the field of the address to be deleted.

Using the Gatekeeper

If using this unit in an environment where the gatekeeper is running, you need to register the address of the gatekeeper referenced by VC1 and the H.323 name.
For details, consult the system administrator of your local computer system.

Registering the information of the gatekeeper using the remote control

Notes

- This step is necessary only if the gatekeeper is running.
- If you use the gatekeeper, you need to set "Protocol Mode" to "H.323". For details, see "Configuring the communication protocol (Protocol Mode)" (page 33).

CANCEL —
Numeric keys
MENU
Cursor keys, ENTER
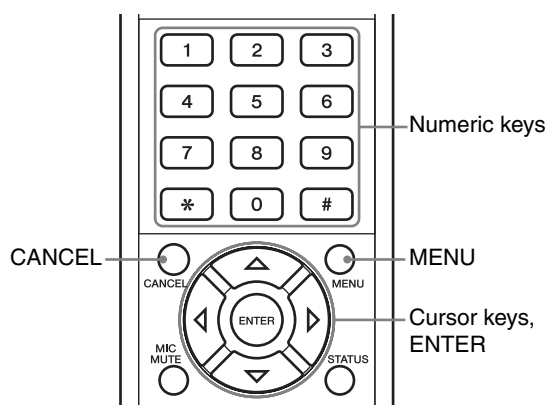
1   Press MENU, and select "Network Settings" → "H.323" on the setting menu screen.

The H.323 setting screen appears.

```
H.323 Settings
▶ 1. Gatekeeper     [ Disable  ]
  2. Gatekeeper Address
   [0.0.0.0                    ]
  3. Name of H.323
   [                           ]
  4. IP Phone Number
   [                 ]


Select: ♦ /Set: ENTER
```

2   Press △ or ▽ to select "Gatekeeper", and then press ENTER.

```
H.323 Settings
▶ 1. Gatekeeper     [ Disable  ]
  2. Gatekeeper Address
   [0.0.0.0                    ]
  3. Name of H.323
   [                           ]
  4. IP Phone Number
   [                 ]


Select: ♦ /Set: ENTER
```

3   Press △ or ▽ to select "Enable", and then press ENTER .

```
H.323 Settings
▶ 1. Gatekeeper     [ Enable  ]
  2. Gatekeeper Address
   [0.0.0.0                    ]
  3. Name of H.323
   [                           ]
  4. IP Phone Number
   [                 ]


Select: ♦ /Set: ENTER
```

4   Press △ or ▽ to select "Gatekeeper Address", and then press ENTER.

The character input screen appears.

```
Enter Gatekeeper Address
[ 0.0.0.0                     ]
                    DEL │ SAVE │ CAN
0 1 2 3 4 5 6 7 8 9
A B C D E F G H I J K L M N O P Q
R S T U V W X Y Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z
! " # $ % & ' ( ) * + , - . /
: ; < = > ? @ [ ¥ ] ^ _ ` { | } ~

Select: ◇ /Set: ENTER /Input: 0-9, *, #
```

5   Use the cursor keys and ENTER to enter the gatekeeper address.

For information on the character input method, see "Entering the characters" (page 31).

CONFIGURATIONS

English

41

6 **Press △ or ▽ to select "Name of H.323", and then press ENTER.**

The character input screen appears.

```
Enter Name of H.323
[ ■                        ]
                    DEL │ SAVE │ CAN

0 1 2 3 4 5 6 7 8 9
A B C D E F G H I J K L M N O P Q
R S T U V W X Y Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z
! " # $ % & ' ( ) * + , - . /
: ; < = > ? @ [ ¥ ] ^ _ ` { | } ~

Select: ✛ /Set: ENTER /Input: 0-9,*,#
```

7 **Use the cursor keys and ENTER to enter the H.323 name.**

For information on the character input method, see "Entering the characters" (page 31).

8 **Press △ or ▽ to select "IP Phone Number", and then press ENTER.**

```
H.323 Settings
  1. Gatekeeper      [  Enable  ]
  2. Gatekeeper Address
   [0.0.0.0                    ]
  3. Name of H.323
   [                           ]
▶ 4. IP Phone Number
   [▮                 ]




Input: 0-9 /Set: ENTER
```

9 **Use the numeric keys to enter the IP phone number, and then press ENTER.**

10 **Press MENU.**

The information of the gatekeeper is registered.

Registering the information of the gatekeeper using the web menu

1 **Click "Gatekeeper" in the web menu.**

The H.323 Settings screen appears.
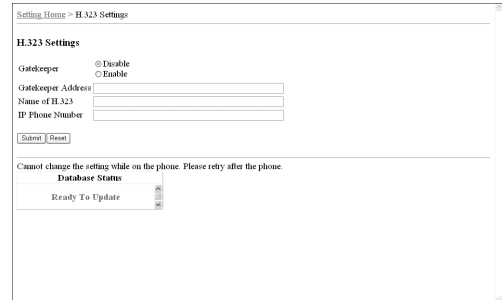
2 **Select "Enable" in the "Gatekeeper" field.**

3 **Enter the gatekeeper address in the "Gatekeeper Address" field.**

4 **Enter the H.323 name in the "Name of H.323" field.**

5 **Enter the IP phone number in the "IP Phone Number" field.**

6 **Click "Submit".**

The information of the gatekeeper is registered.

Using the SIP Server

When this unit is used in an environment with a SIP server, the address of the SIP server to be referenced by VC1 and the SIP address of VC1 should be registered. If password authentication is required for accessing the desired SIP server, it is also necessary to enter the account and password. Consult your system administrator for details.

Registering the SIP server information using the remote control

Notes

- This step is necessary only if the SIP server is running.
- If using the SIP server for calling, you need to set "Protocol Mode" to "SIP". For details, see "Configuring the communication protocol (Protocol Mode)" (page 33).
- If setting "Protocol Mode" of VC1 to "SIP", you can only call the destination unit with its "Protocol Mode" set to "SIP".
- To make a call using the SIP server, the SIP address of VC1 should be registered in the SIP server.

CANCEL

Numeric keys

MENU

Cursor keys, ENTER
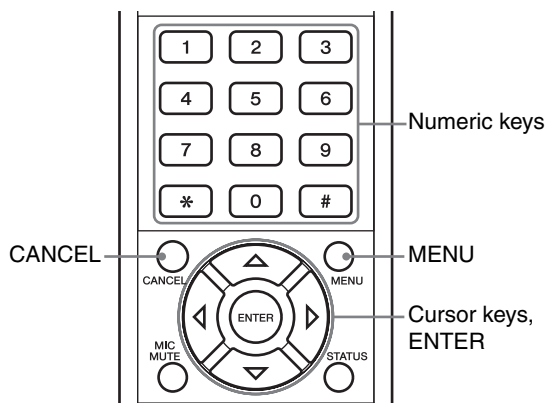
1 Press MENU, and select "Network Settings" → "SIP" on the setting menu screen.
The SIP setting screen appears.

```
SIP Settings
▶1. SIP Server        [ Disable  ]
  2. SIP Server Address
  [                                  ]
  3. Account
  [                                  ]
  4. Password
  [                                  ]
  5. IP Phone Number
  [                                  ]
  6. SIP-URI
  [                                  ]
Select:↕ /Set: ENTER
```

2 Press △ or ▽ to select "SIP Server", and then press ENTER.

```
SIP Settings
▶1. SIP Server        [ Disable  ]
  2. SIP Server Address
  [                                  ]
  3. Account
  [                                  ]
  4. Password
  [                                  ]
  5. IP Phone Number
  [                                  ]
  6. SIP-URI
  [                                  ]
Select:↕ /Set: ENTER
```

3 Press △ or ▽ to select "Enable", and then press ENTER.

```
SIP Settings
▶1. SIP Server        [ Enable  ]
  2. SIP Server Address
  [0.0.0.0                           ]
  3. Account
  [                                  ]
  4. Password
  [                                  ]
  5. IP Phone Number
  [                                  ]
  6. SIP-URI
  [                                  ]
Select:↕ /Set: ENTER
```

4 Press △ or ▽ to select "SIP Server Address", and then press ENTER.
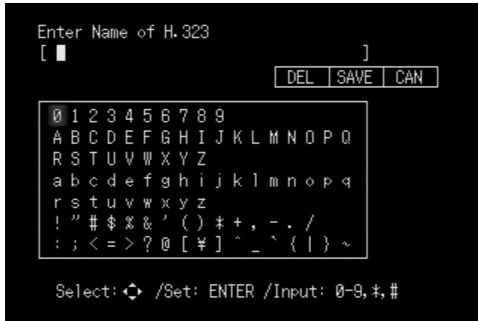The character input screen appears.

5 Use the cursor keys and ENTER to enter the SIP server address.
For information on the character input method, see "Entering the characters" (page 31).

6 Press △ or ▽ to select "Account", and then press ENTER.
The character input screen appears.

7 Use the cursor keys and ENTER to enter the SIP server account.

8 Press △ or ▽ to select "Password", and then press ENTER.
The character input screen appears.

9 **Use the cursor keys and ENTER to enter the password of the SIP server.**

10 **Press △ or ▽ to select "IP Phone Number", and then press ENTER.**

**11** **Use the numeric keys to enter the IP phone number, and then press ENTER.**

12 **Press △ or ▽ to select "SIP-URI", and then press ENTER.**
The character input screen appears.

13 **Use the cursor keys and ENTER to enter the URI of the SIP server.**

14 **Press MENU.**
The information of the SIP server is registered.

Registering the SIP server information using the web menu

1 **Click "SIP Server" in the web menu.**
The SIP screen appears.

2 **Select "Enable" in the "SIP Server" field.**

3 **Enter the SIP server address in the "SIP Server" field.**

4 **Enter the SIP server account in the "SIP Account" field.**

5 **Enter the IP phone number in the "SIP IP Phone Number" field.**

6 **Enter the URI in the "SIP URI" field.**

7 **Click "Submit".**
The information of the SIP server is registered.

44

Registering the Conference Information

You can specify the comments to be displayed on the forth screen when the Multi Camera mode is on. Also, you can apply the comment to a specific camera, so that the comment is displayed in a color when the camera is selected in the Multi Camera mode.

1 **Click "Conference Information" in the web menu.**

The Conference Information screen appears.

2 **Select "Participant Information".**

3 **In the "Display Content" area, enter any comment (up to 24 characters).**

4 **Select one of the cameras to which the comment is applied or select "Nonuse".**
- L: Apply the comment to the left camera
- C: Apply the comment to the center camera
- R: Apply the comment to the right camera
- Nonuse: Not apply the comment

5 **Click "Submit"**

The conference information is registered.

To reset the conference information to the default setting

Click "Default" on the Conference Information screen.

Updating the Firmware

You can download the firmware (program to control the functions of this unit or VC1) to use the latest features. There are two ways to update the firmware of this unit: One way is that you connect this unit to the Internet and automatically install the latest firmware (page 46). The other way is that you download the firmware to a PC and install it manually (page 47). For information on updating the firmware of VC1, see "Updating the firmware of VC1" (page 48).

Notes

- To use the revision upgrading function, you must accept the software licensing agreement. For details, see "Software Licensing Agreement" (page 68).
- To install the latest firmware, you need to connect this unit to a network directly. When connecting this unit to a network via VC1, you cannot install the firmware to this unit.

Updating the firmware of this unit

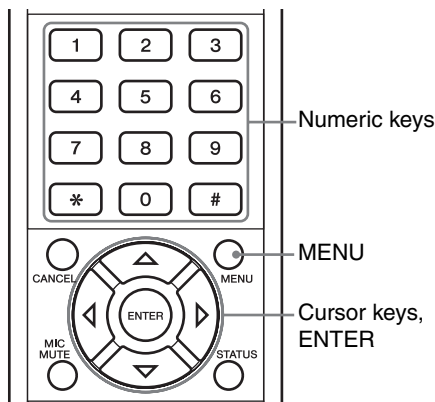### ■ Updating the firmware automatically

Follow the procedure below to install the latest firmware automatically.

Note

Automatic firmware update can be performed only if this unit can be connected to the Internet. If not, follow the procedure in "Updating the firmware manually" (page 47).

☼

You can also specify the URL from which the firmware is downloaded (page 46).

Numeric keys

MENU

Cursor keys, ENTER

1 Press MENU, and select "Administrator Settings" → "Firmware Update" → "PJP-300V Firmware Update" on the setting menu screen.

2 Press △ or ▽ to select "Start Update", and then press ENTER.

This unit is connected to the Internet and downloads the latest firmware. When downloading is completed, the firmware update is automatically started.

Notes

- Do not perform any other operation during the firmware update. If the update operation is interrupted, this unit may malfunction. In that case you need to return this unit to the factory for repairs.
- When the firmware update is complete, this unit restarts automatically. The calls being connected are disconnected at this time.
- Do not disconnect the LAN cable during the firmware update. Otherwise, this unit may malfunction. In that case you need to return this unit to the factory for repairs.
- The firmware update process takes a few minutes to be complete.

### When the firmware update is complete

This unit restarts automatically.
Confirm that the version number has been updated on the device information screen. To display the device information screen, see "Displaying the information of this unit and VC1" (page 38).

■ Specifying the URL from which to download the firmware

It is useful in managing the firmware version used in your office's PJPs.

CANCEL —

Numeric keys

MENU

Cursor keys,
ENTER
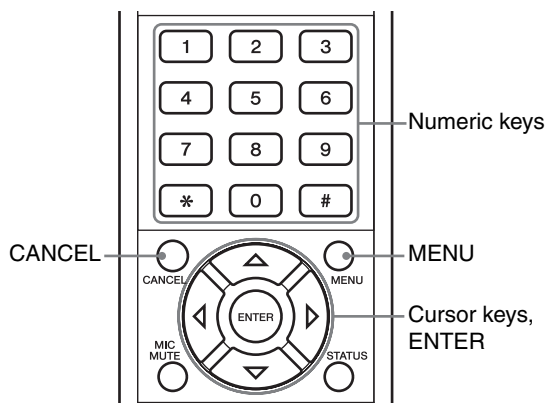
**1 On the setting menu screen, select
"Administrator Settings" → "Firmware
Update" → "PJP-300V Firmware Update",
and then press ENTER.**

The firmware update screen appears.

**2 Press △ or ▽ to select "Server", and then
press ENTER.**

**3 Press △ or ▽ to select "Other", and then
press ENTER.**

☼

If you select "Yamaha Website", you can always download the
latest firmware.

**4 Press △ or ▽ to select "Server Address",
and then press ENTER.**

The character input screen appears.

**5 Enter the URL to be connected for updating
the firmware.**

For information on the character input method, see
"Entering the characters" (page 31).
If you carry out the steps in "Updating the firmware
automatically" (page 46), the firmware can be
downloaded from the URL you have specified.

■ Updating the firmware manually

If you cannot connect this unit to the Internet directly, you
need to download the latest firmware to your PC, and then
install it using TFTP.

1 Confirm the current version number.

You can confirm the version number on the device
information screen. To display the device information
screen, see "Displaying the information of this unit
and VC1" (page 38).

2 Download the latest firmware to your PC.

Access the following PJP support page using your PC
and download the latest firmware.

PJP website:

http://www.yamaha.co.jp/english/product/projectphone/

3 Display the initial screen.

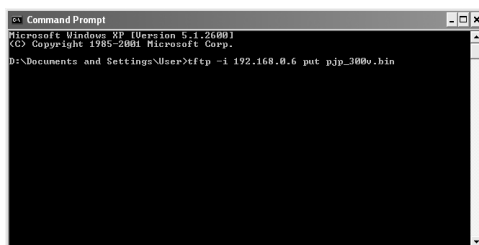**4 Start "Command Prompt" in the Windows PC
which can access this unit.**

When using Windows XP, select the "Start" menu →
"All Program" → "Accessories" → "Command
Prompt".

5 Enter and run the following command.

tftp -i [IP address of this unit] put [file name]
Example:
tftp -i 192.168.0.6 put pjp_300v.bin

The firmware version confirmation window appears.

6 Press ENTER on the remote control.

The firmware update process starts.

Notes

- Do not perform any other operation during the firmware update. If the update operation is interrupted, this unit may malfunction. In that case you need to return this unit to the factory for repairs.
- When the firmware update is complete, this unit restarts automatically. The calls being connected are disconnected at this time.
- Do not disconnect the LAN cable during the firmware update. Otherwise, this unit may malfunction. In that case you need to return this unit to the factory for repairs.
- The firmware update process takes a few minutes to be complete.

To cancel the firmware update

In step 6, press CANCEL.

When the firmware update is complete

This unit restarts automatically.
Confirm that the version number has been updated on the device information screen. To display the device information screen, see "Displaying the information of this unit and VC1" (page 38).

Updating the firmware of VC1

You can install the latest firmware on VC1 from a PC using the update server.

1 Confirm the current version number.

You can confirm the version number on the device information screen. To display the device information screen, see "Displaying the information of this unit and VC1" (page 38).

2 Download the latest firmware to your PC.

Access the following PJP support page using your PC and download the latest firmware from it.

PJP website:

http://www.yamaha.co.jp/english/product/projectphone/

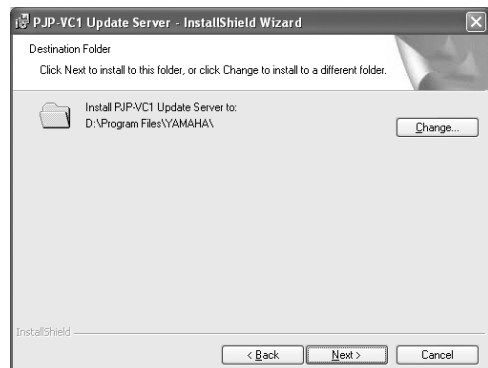## 3 Double-click on the firmware you have downloaded.

The installation program starts.

4 Click "Next", and click "Next" again.

The screen "Destination Folder" appears. To change the folder you install the program to, click "Change", and then select the desired folder.

5 Click "Next".

The installation starts, and the screen "InstallShield Wizard Completed" appears.
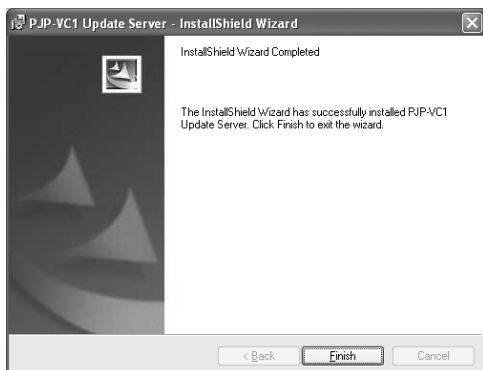
To cancel the installation, click "Cancel".

6 Click "Finish".

The installation is completed.

7 Double-click on the shortcut icon "PJP-VC1_Update_Server" on the desktop.

The update server is started.

8 Press MENU on the remote control, and then select "Administrator Settings" → "Firmware Update" → "PJP-VC1 Firmware Update" on the setting menu screen.

9 Press △ or ▽ to select "Server Address", and then press ENTER.

10 Use the numeric keys to enter the IP address of the PC on which the update server is running, and then press ENTER.

11 Press △ or ▽ to select "Start Update", and then press ENTER.

The firmware update process starts.

Notes

• Do not perform any other operation during the firmware update. If the update operation is interrupted, VC1 may malfunction. In that case you need to return VC1 to the factory for repairs.

• When the firmware update is complete, this unit restarts automatically. The calls being connected are disconnected at

this time.

• Do not disconnect the LAN cable during the firmware update. Otherwise, VC1 may malfunction. In that case you need to return VC1 to the factory for repairs.

• The firmware update process takes a few minutes to be complete.

To cancel the firmware update

In step 11, press CANCEL.

When the firmware update is complete

This unit restarts automatically.

Confirm that the version number has been updated on the device information screen. To display the device information screen, see "Displaying the information of this unit and VC1" (page 38).

ADVANCED
OPERATIONS

English

49

Resetting the Settings

You can reset the settings of this unit and VC1 to factory settings. You can either reset all the settings or the settings except the address book to the factory settings.

Notes

- The contents of the call history (page 23) are lost. If you perform the procedure in "Resetting all the settings", the contents of the address book are also lost.
- Once you complete the following procedures, you cannot restore the previous settings.

Resetting the settings using the remote control

■ Resetting all the settings
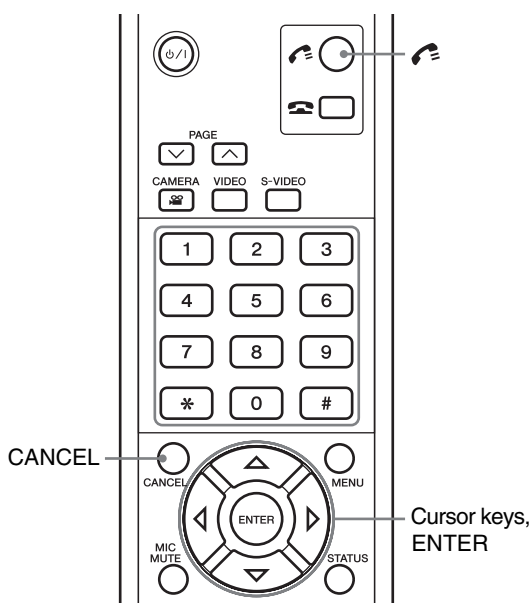
1 **Press MENU, and select "Administrator Settings" → "Initialization" on the setting menu screen.**

2 **Press △ or ▽ to select "Reset All Settings", and then press ENTER.**
The confirmation screen appears.

3 **Press ☎ .**
The initialization starts.

To cancel the initialization
Press CANCEL in step 3.

■ Resetting the settings except the address book
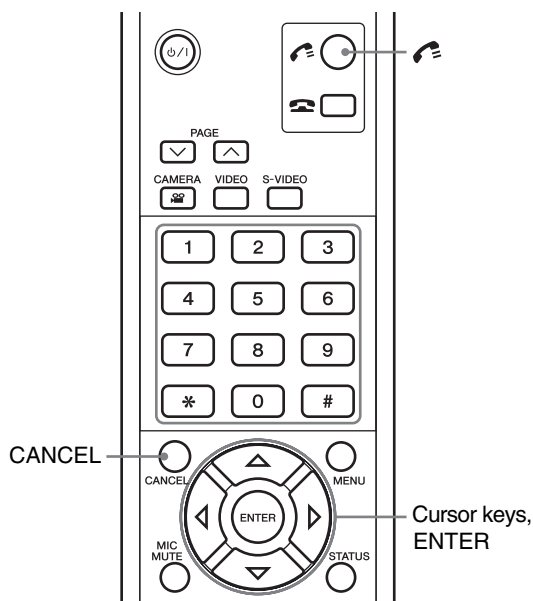
1 **Press MENU, and select "Administrator Settings" → "Initialization" on the setting menu screen.**

2 **Press △ or ▽ to select "Reset All Except Address Book", and then press ENTER.**
The confirmation screen appears.

3 **Press ☎ .**
The initialization starts.

To cancel the initialization
Press CANCEL in step 3.

Resetting the settings using the web menu

■ Resetting all the settings

1 Click "Initialization" in the web menu.
The screen for restoring the settings appears.

```
Setting Menu > Initialization
[ Reset All Settings ]

[ Reset All Except Address Book ]

Cannot change the setting while on the phone. Please retry after the phone.
                    Database Status
        Ready To Update
```
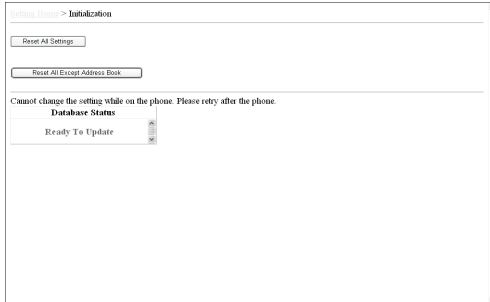
2 Click "Reset All Settings".
The initialization starts.

■ Resetting the settings except the address book

1 Click "Initialization" in the web menu.
The screen for restoring the settings appears.

```
Setting Menu > Initialization
[ Reset All Settings ]

[ Reset All Except Address Book ]

Cannot change the setting while on the phone. Please retry after the phone.
                    Database Status
        Ready To Update
```
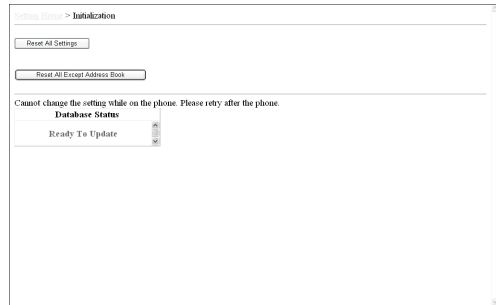
2 Click "Reset All Except Address Book".
The initialization starts.

Using This Unit as the External Microphone Speaker for a Videoconference System

Connecting this unit to a PC

Connect this unit to a PC using two audio cables (stereo pin - audio mini) and an S terminal cable.

Notes

• If an S-Video input terminal is not equipped on your PC, you need to install additional hardware such as a video card to your PC.
• The instruction below assumes that the input/output terminals of the PC are distinguishable in color. If not, refer to the owner's manual to confirm the position and functions of the input/output terminals, and then connect them to appropriate terminals.

To an audio output terminal (green)

To an audio input terminal (blue)

To an S-Video input terminal
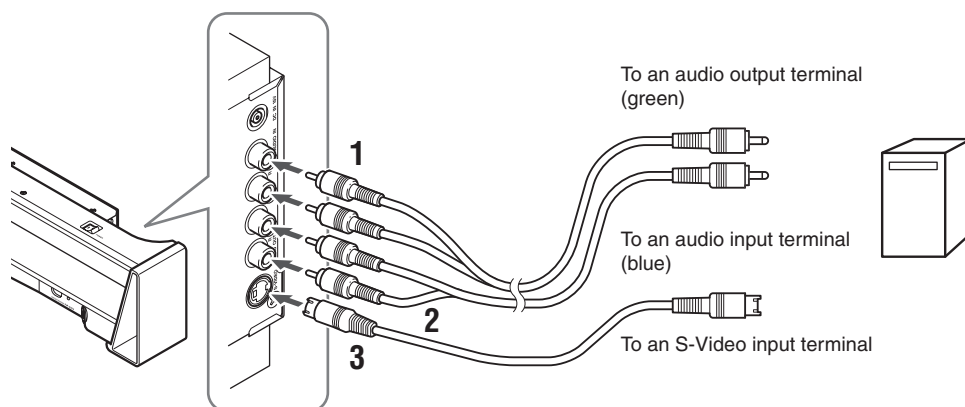
1 **Connect the AUDIO IN terminal of this unit to the audio output terminal on a PC or videoconference system using an audio cable.**

If you connect it to a PC, connect to the green colored terminal on the PC.

2 **Connect the AUDIO OUT terminal of this unit to the audio input terminal on a PC or videoconference system using an audio cable.**

If you connect it to a PC, connect to the blue colored terminal on the PC.

Note

Do not connect the AUDIO OUT terminal of this unit to a microphone input terminal (the red colored terminal on a PC). Doing so may affect the sound quality due to excessive input signal.

3 **Connect the S-VIDEO terminal of this unit to the S-Video input terminal on a PC or videoconference system using an S terminal cable.**

---
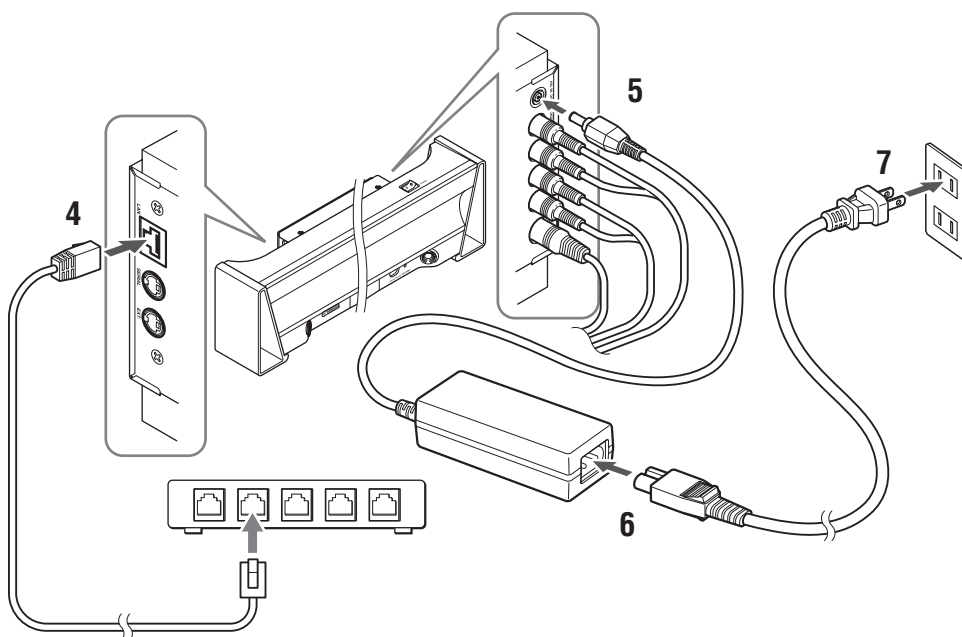
4 **Connect the LAN port of this unit to the LAN port of the network equipment, such as a router, using a LAN cable.**

☼

By connecting this unit to the networking equipment, you can access the web menu from a pc to configure the settings and perform firmware update.

---

5 **Connect the DC IN 15V terminal of this unit to the AC adapter.**

---

6 **Connect the power cable to the AC adapter.**

---

7 **Connect the power cable of this unit to the AC outlet.**

---

8 **Press the POWER switch of this unit to turn on the power.**
The STANDBY/ON indicator lights up in green.

ADVANCED OPERATIONS

English

53

Canceling the VC1 connection

When you connect this unit to a network via a pc, you need to cancel the connection with VC1. Follow the procedure below to cancel the connection.

CANCEL

MENU

Cursor keys, ENTER

1 Press MENU.

The setting menu screen appears.

```
Settings
▶ 1. Network Settings
  2. Video Settings
  3. Sound Settings
  4. General Settings
  5. Administrator Settings




Select: ♦ /Set: ENTER
```
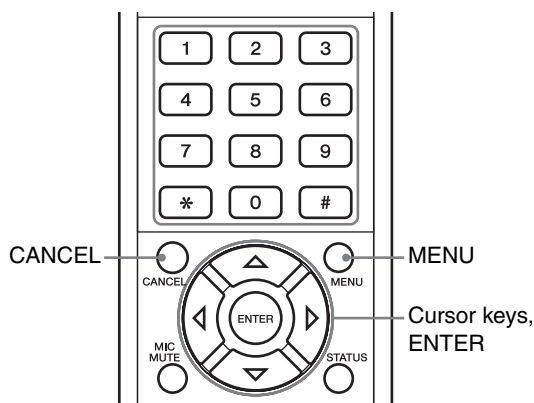
2 Press △ or ▽ to select "Administrator Settings", and then press ENTER.

The administrator setting screen appears.

```
Administrator Settings
▶ 1. Password Registration
  2. VC1 Connection  [    Yes    ]
  3. Initialization
  4. Firmware Update
  5. Device Information




Select: ♦ /Set: ENTER
```

3 Press △ or ▽ to select "VC1 Connection", and then press ENTER.

```
Administrator Settings
  1. Password Registration
▶ 2. VC1 Connection  [    Yes    ]
  3. Initialization
  4. Firmware Update
  5. Device Information




Select: ♦ /Set: ENTER
```

4 Press △ or ▽ to select "No", and then press ENTER.

This unit restarts and the setting menu items are switched to the items for settings of this unit only.

54

Configuring the PC audio settings

To use this unit as the external microphone speaker for a videoconference system, change the PC settings so that audio input from this unit to your PC doesn't output to this unit. Also, you need to change the settings so that the audio can be input to the line input terminal on your PC. Follow the procedures (taking Windows XP as an example) below.

1 **Click "Start" > "Settings" > "Control Panel".**

2 **Click "Sounds, Speech, and Audio Devices".**
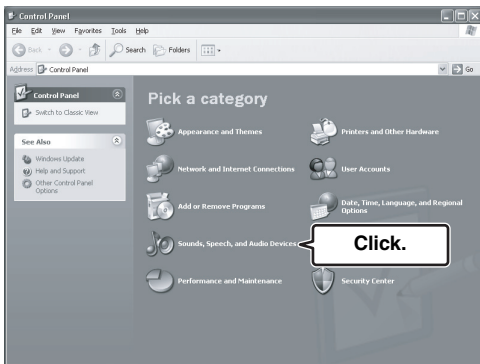
3 **Click "Sound and Audio Devices".**
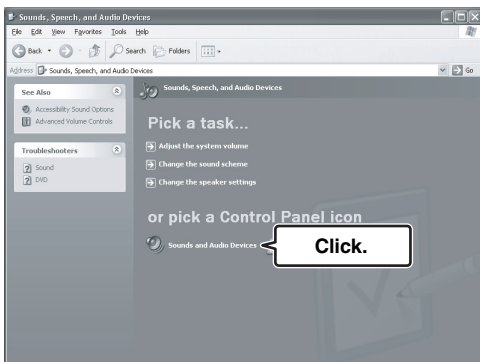
The "Sound and Audio Devices Property" window appears.

4 **Click "Audio" tab.**
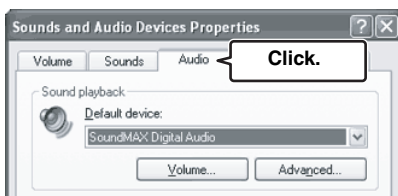
5 **In "Sound Playback", click "Volume...".**

The "Volume Control" window appears.

6 **In "Line-In" column, click "Mute" to insert the check mark.**
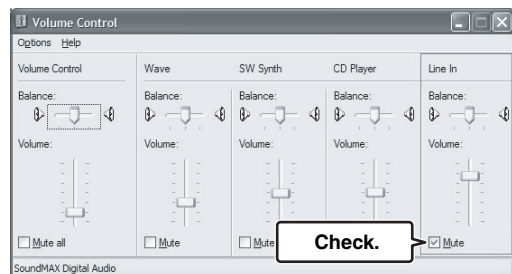
7 **In "Sound recording", click "Volume...".**

The "Recording Control" window appears.

ADVANCED
OPERATIONS

English

55

8 **In "Line-In", click "Select" to insert the check mark.**
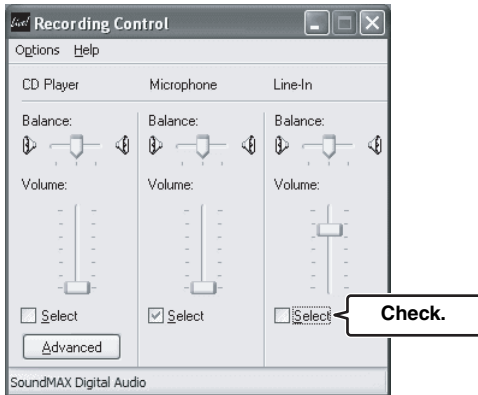
Configuring the settings

You can configure the settings of this unit using the remote control or web menu through a pc. Follow the procedure below to configure the settings.

■ **Configuring the settings using the remote control**

Notes

• To configure the settings of this unit, you need to set "VC1 Connection" setting to "No" on the setting menu screen. Follow the procedure in "Canceling the VC1 connection" (page 54) to change the setting.

• See "Setting menu list" (page 59) for details on the setting menu configuration and parameters of each menu item.

CANCEL — Numeric keys

MENU

Cursor keys, ENTER

1 **Press MENU.**
The setting menu screen appears.

```
Settings
▶ 1. Camera Setup
   2. Room Size        [ Large ]
   3. Input Gain       [  0.0 dB ]
   4. Output Gain      [  0.0 dB ]
   5. VC1 Connection   [    No    ]
   6. Unit Installation [ Normal  ]
   7. Initialization
   8. Firmware Update
   9. Device Information

Select: ♦ /Set: ENTER
```
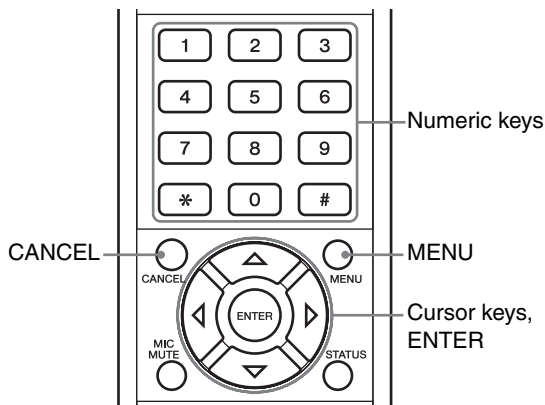
2 **Press △ or ▽ to select an item, and then press ENTER.**
The following figure is taking "Room Size" as an example.

```
Settings
   1. Camera Setup
▶ 2. Room Size        [ Large ]
   3. Input Gain       [  0.0 dB ]
   4. Output Gain      [  0.0 dB ]
   5. VC1 Connection   [    No    ]
   6. Unit Installation [ Normal  ]
   7. Initialization
   8. Firmware Update
   9. Device Information

Select: ♦ /Set: ENTER
```
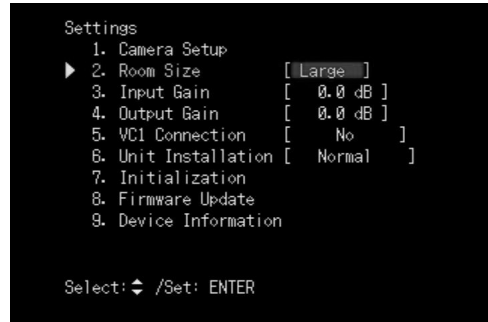
⌗
Some menu items have subitems. Select the subitems and change the settings in the same way as in step 2.

3 **Press △ or ▽ to switch the settings or use the numeric keys to enter the numbers.**

⌗
For information on the character input method, see "Entering the characters" (page 31).

4 **When you complete the setting, press ENTER.**
The setting is saved.

To return to the previous screen without saving the setting
In step 4, press CANCEL.

ADVANCED OPERATIONS

English

57

■ Configuring settings using the web menu

Follow the procedure below to configure settings using the web menu through a PC. This method is useful when you configure several menu items.

Note

Microsoft Windows XP or Windows 2000 is required as the web browser for viewing the web menu.

---

1 Check that this unit and VC1 is turned on.

---

2 Launch the web browser on the PC, select the "File" menu, and then "Open".

---

3 Enter "http://(IP address of this unit)", and then click "OK".
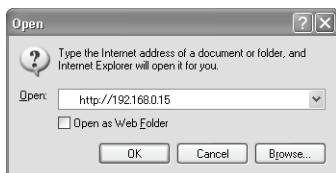
The main window for the web menu appears.
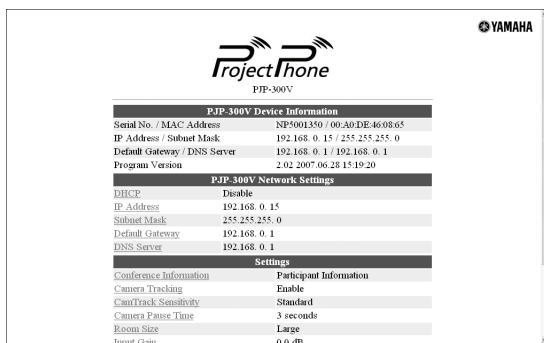
If the main window for the web menu is not displayed, see "Q2: Web menu setting is not available" (page 64).

Setting menu list

In the following description, ▭ indicates that the setting can be configured using the remote control of this unit and 💻 indicates that the setting can be configured using the web menu on a pc.

■ Registering the conference information 💻

You can specify the information displayed in the fourth screen when the Multi Camera mode is on. For details, see "Registering the Conference Information" (page 45).

Using the web menu
In the web menu, select "Conference Information".

■ Configuring the camera's auto tracking function ▭ 💻

Select "Enable" to switch the cameras automatically according to the talker's position.
The default setting is "Enable".

Using the remote control
On the setting menu screen, select "Camera Setup" → "Camera Tracking".

Using the web menu
In the web menu, select "Camera Tracking".

■ Configuring the microphone sensitivity ▭ 💻

You can specify the microphone sensitivity according to operating environment (only when the camera auto tracking function is activated). The default setting is "Standard".

- **High**: Detects a soft sound.
- **Standard (default setting)**: Select for using this unit in an ordinary environment.
- **Low**: Detects a loud sound.

Using the remote control
On the setting menu screen, select "Camera Setup" → "CamTrack Sensitivity".

Using the web menu
In the web menu, select "CamTrack Sensitivity".

■ Specifying the pause time of the camera's auto tracking function ▭ 💻

You can select the pause time of the camera's auto tracking function when operating the cameras on this unit manually. ("3 seconds": default setting, "5 seconds", "10 seconds")

Using the remote control
On the setting menu screen, select "Camera Setup" → "Camera Pause Time".

Using the web menu
In the web menu, select "Camera Pause Time".

■ Configuring the room size ▭ 💻

You can configure the audio pick-up area according to the room size or operating environment. The default setting is "Large".

Using the remote control
On the setting menu screen, select "Room Size".

Using the web menu
In the web menu, select "Room Size".

■ Configuring the audio input gain ▭ 💻

You can adjust the audio input gain from -12.0dB to +12.0dB.

Using the remote control
On the setting menu screen, select "Input Gain".

Using the web menu
In the web menu, select "Input Gain".

■ Configuring the audio output gain ▭ 💻

You can adjust the audio output gain from -12.0dB to +12.0dB.

Using the remote control
On the setting menu screen, select "Output Gain".

Using the web menu
In the web menu, select "Output Gain".

■ Specifying the installation configuration of this unit ▭ 💻

Normally, select "Normal". Select "Upside Down", if you install this unit turned over. The default setting is "Normal".

Using the remote control
On the setting menu screen, select "Unit Installation".

Using the web menu
In the web menu, select "Unit Installation".

ADVANCED
OPERATIONS

English

59

■ Configuring the connection setting

If you use this unit connected with a PC, select "No". If you use this unit connected with VC1, select "Yes". The default setting is "Yes".

Using the remote control
On the setting menu screen, select "VC1 Connection".

Using the web menu
In the web menu, select "VC1 Connection".

■ Resetting the settings

You can reset the settings of this unit to factory settings. Follow the instruction displayed on the setting screen to restore the factory settings.

Note

If you reset the settings of this unit to factory settings, the settings previously configured are all lost.

Using the remote control
On the setting menu screen, select "Initialization".

Using the web menu
In the web menu, select "Initialization".

■ Updating the functions of this unit

You can install the latest firmware on this unit. For details, see "Updating the firmware" (page 61).

Using the remote control
On the setting menu screen, select "Firmware Update".

Using the web menu
In the web menu, select "PJP-300V Firmware Update Settings".

■ Displaying the information of this unit

You can display the "Serial Number", "MAC Address", and "Firmware Version" of this unit.

Using the remote control
On the setting menu screen, select "Device Information".

Updating the firmware

You can download the firmware (program to control the functions of this unit) to use the latest features. There are two ways to update the firmware of this unit: One way is that you connect the Internet and automatically install the latest firmware (page 61). The other way is that you download the firmware to a PC and install to this unit manually (page 62).

Notes

• To use the revision upgrading function, you must accept the software licensing agreement. For details, see "Software Licensing Agreement" (page 68).
• To install the latest firmware, you need to connect this unit to a network directly.

■ **Updating the firmware automatically**

Follow the procedure below to install the latest firmware automatically.

Note

Automatic firmware update can be performed only if this unit can be connected to the Internet. If not, follow the procedure in "Updating the firmware manually" (page 62).

☀️
You can also specify the URL from which the firmware is downloaded (page 61).

Numeric keys

MENU

Cursor keys, ENTER
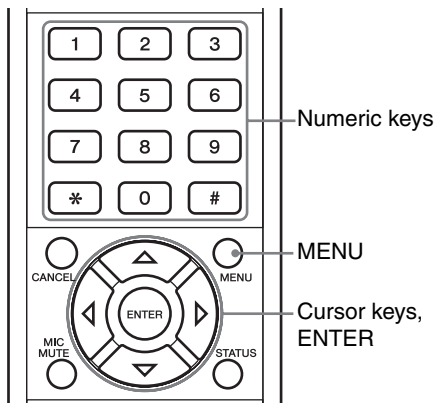
1 **Press MENU, and select "Firmware Update" on the setting menu screen.**

2 **Press △ or ▽ to select "Start Update", and then press ENTER.**

This unit is connected to the Internet and downloads the latest firmware. When downloading is completed, the firmware update is automatically started.

Notes

• Do not perform any other operation during the firmware update. If the update operation is interrupted, this unit may malfunction. In that case you need to return this unit to the factory for repairs.
• When the firmware update is completed, this unit is restarted automatically. All of the calls being connected are disconnected at this time.
• Do not unplug the LAN cable during the firmware update. Otherwise, this unit may malfunction. In that case you need to return this unit to the factory for repairs.
• The firmware update process takes a few minutes to be complete.

When the firmware update is complete

This unit restarts automatically.
Confirm that the version number has been updated on the device information screen. To display the device information screen, see "Displaying the information of this unit" (page 60).

■ **Specifying the URL from which to download the firmware**

It is useful in managing the firmware version used in your office's PJPs.

Numeric keys

MENU

Cursor keys, ENTER

ADVANCED OPERATIONS

English

61
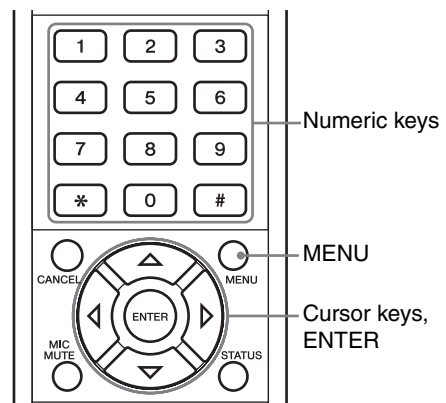
1 On the setting menu screen, select "Firmware Update", and then press ENTER.

The firmware update screen appears.

2 Press △ or ▽ to select "Server", and then press ENTER.

3 Press △ or ▽ to select "Other", and then press ENTER.

4 Press △ or ▽ to select "Server Address", and then press ENTER.

The character input screen appears.

5 Enter the URL to be connected for updating the firmware.

For information on the character input method, see "Entering the characters" (page 31).

If you carry out the steps in "Updating the firmware automatically" (page 61), the firmware can be downloaded from the URL you have specified.

■ Updating the firmware manually

If you cannot connect this unit to the Internet directly, you need to download the latest firmware to your PC, and then install it using TFTP.

1 Confirm the current version number.

You can confirm the version number on the device information screen. To display the device information screen, see "Displaying the information of this unit" (page 60).

2 Download the latest firmware to your PC.

Access the following PJP support page using your PC and download the latest firmware.

PJP website:

http://www.yamaha.co.jp/english/product/projectphone/

3 Display the initial screen.

4 Start "Command Prompt" in the Windows PC which can access this unit.

When using Windows XP, select the "Start" menu → "All Program" → "Accessories" → "Command Prompt".

5 Enter and run the following command.

tftp -i [IP address of this unit] put [file name]
Example:
tftp -i 192.168.0.6 put pjp_300v.bin

The firmware version confirmation window appears.

6 Press ENTER on the remote control.

The firmware update process starts.

Notes

- Do not perform any other operation during the firmware update. If the update operation is interrupted, this unit may malfunction. In that case you need to return this unit to the factory for repairs.
- When the firmware update is completed, this unit is restarted automatically. All of the calls being connected are disconnected at this time.
- Do not unplug the LAN cable during the firmware update. Otherwise, this unit may malfunction. In that case you need to return this unit to the factory for repairs.
- The firmware update process takes a few minutes to be complete.

To cancel the firmware update

In step 6, press CANCEL.

When the firmware update is complete

This unit restarts automatically.

Confirm that the version number has been updated on the device information screen. To display the device information screen, see "Displaying the information of this unit" (page 60).

Troubleshooting

Refer to the following tables when this unit does not function properly. If the problem you are experiencing is not listed or if the instruction does not help, contact the nearest authorized YAMAHA dealer or service center.

First, check if the STANDBY/ON indicator lights up. If the indicator is turned off, see "Q1: LED indicator does not light up" below. Otherwise, consult one of the following description pages according to the problem.

Q1: LED indicator does not light up

Problem	Cause	Remedy
The STANDBY/ON indicator does not light up	The power is not turned on.	If the power switch is set to the off position, set it to the on position. Check that the AC adapter and power cable are connected properly.
	The power cable is not connected to the AC outlet.	Check that the power cable is connected to the AC outlet properly.
	The main or branch circuit breaker is shut off.	If the circuit breaker is tripped to "OFF", set it to "ON".
		If the circuit breaker is "ON", set it to "OFF" then "ON" again.
	There is a power failure.	Wait until the power supply is restored.
	Power is not supplied to the AC outlet. (Carry out the test by connecting another electrical appliance to the AC outlet.)	If another appliance can neither be turned on, have the power outlet or power wiring serviced.
		If another appliance can be turned on, have this unit serviced.

ADDITIONAL INFORMATION

English

Q2: Web menu setting is not available

Problem	Cause	Remedy
The web menu cannot be opened.	The network settings of this unit are not correct.	Register the correct network information (page 17).
	The network setting of the PC is inappropriate (when other PCs and network printers in the LAN are also unusable).	Set the LAN board and LAN card again and reboot the PC.
		Reset the IP address of the PC.
	An inappropriate LAN cable is used for the connection between this unit and the network.	Use an optimum LAN cable (straight or cross cable).
		Use a LAN cable of Category 5 or higher.
	This unit is malfunctioning.	Reset this unit to restore the factory settings (page 50), and then perform desired settings.
	An inappropriate URL is specified.	When using this unit for the first time or after restoring the factory settings, access "http:// (IP address shown in the initial display of this unit)".
	The web browser of the PC is set to use a proxy server.	The web menu cannot be opened when the proxy setting is inappropriate.
		When using Internet Explorer 6 for Windows, open the "Tool" menu, select "Internet Options" → "Connection" tab → "Set LAN", and then uncheck "Use proxy server".
	A network fault occurred or the communication is blocked by a firewall.	Consult your network administrator to have the network status checked.
The password for the web menu is entered but it cannot be opened.	The password is incorrect (when a password error is displayed).	The password is case-sensitive. Be sure to enter alphanumeric characters correctly by distinguishing the uppercase and lowercase letters.
The settings are returned to the previous settings.	You did not click "Submit" or "Register" to confirm the settings.	After configuring the web menu settings, be sure to click "Submit" or "Register" to confirm the changed settings. If the window is closed without confirmation, the settings you made are not saved.

Q3: A call cannot be made

Problem	Cause	Remedy
A call cannot be originated	An inappropriate IP address is entered.	Check the IP address of the other unit and enter the correct IP address.
	The IP address of the other unit has been changed.	Check the IP address of the other unit and enter the correct IP address.
	The communication is blocked by a firewall.	Call by specifying the IP address cannot cross a firewall. If you want to change the calling method to the SIP call, consult your system administrator.
	A network fault occurred.	Wait until the fault is released.
		Consult your system administrator.
	The communication protocol is not suitable.	Configure the setting of the communication protocol according to operating environment (page 33).
	The IP/H.323 settings of this unit and the other unit are different.	A unit using the IP phone number cannot communicate with a unit using the IP address. Enable or disable the gatekeeper operation as required so that the both units use the same type of address (page 34).
	The IP phone number registered in the address book is not correct.	Register the correct IP phone number (page 39).
	The gatekeeper is not running.	Consult the system administrator.
	The IP phone number of the other unit is not registered in the gatekeeper.	Consult the system administrator.
	The IP/SIP settings of this unit and the other unit are different.	A unit using the SIP address cannot communicate with a unit using the IP address. Enable or disable the SIP server operation as required so that both units use the same type of address (page 34).
	The SIP address in the address book is incorrect.	Register the correct SIP address (page 43).
	The SIP server is not running.	Consult your system administrator.
	The SIP address of the other unit is not registered in the SIP server.	Consult your system administrator.

ADDITIONAL INFORMATION

English

65

A call cannot be received.	An incorrect IP address is entered on the other unit.	Enter the correct IP address on the other unit.
	The communication is blocked by a firewall.	Call by specifying the IP address cannot cross a firewall. If you want to change the calling method to the SIP call, consult your system administrator.
	A network fault occurred.	Wait until the fault is released.
		Consult your system administrator.
	The communication protocol is not suitable.	Configure the setting of the communication protocol according to operating environment (page 33).
	The IP/H.323 settings of this unit and the other unit are different.	A unit using the IP phone number cannot communicate with a unit using the IP address. Enable or disable the gatekeeper as required so that the both units use the same type of address (page 34).
	The gatekeeper is not running.	Consult the system administrator.
	The IP/SIP settings of this unit and the other unit are different.	A unit using the SIP address cannot communicate with a unit using the IP address. Enable or disable the SIP server operation as required so that both units use the same type of address (page 34).
	The SIP server is not running.	Consult your system administrator.
The audio from the other unit cannot be heard.	The microphones are muted on the other unit.	–
The audio/video is interrupted.	The required bandwidth is not reserved.	Check that the bandwidth required for communication is reserved (page 9).
	A network fault occurred.	Wait until the fault is released.
		Consult your system administrator.
	The LAN cable is not connected properly.	Check that the LAN cable is connected firmly.

Q4: Other problems

Problem	Cause	Remedy
The image is not displayed.	This unit is not connected to a monitor.	Connect this unit to a monitor properly using an S terminal cable.
	This unit is calling an audio conference system.	–
The audio output is delayed.	The required bandwidth is not reserved.	Check that the bandwidth required for communication is reserved (page 9).
The unit generates feedback noises.	An object is placed near this unit.	Avoid placing an object in front of the microphones.
	This unit is used in a room with high reverberation.	Place objects with high sound absorbance in the room other than in front of the microphones.
		Avoid talking at a loud voice to reduce reverberations.
The cameras switch frequently.	The camera auto tracking function works excessively.	• Change the microphone sensitivity setting (page 35). • Disable the camera auto tracking function (page 35) to switch the cameras manually.
"There is an error for connection." appears on the screen, and operations cannot be performed.	The connection between this unit and VC1 is not correct.	Connect this unit to VC1 properly (page 11).
The password is forgotten.	–	Please visit the following PJP support page for instructions (English only). http://www.yamaha.co.jp/english/product/projectphone/

ADDITIONAL INFORMATION

English

67

Software Licensing Agreement

1 Permission of use

The present Software Licensing Agreement is intended to allow Yamaha Corporation (hereinafter referred to as "Yamaha") to permit you to use the firmware (hereinafter "this program") for Yamaha Video Conference system (hereinafter "this product"). You can download this program after having accepted the terms and conditions of the present Software Licensing Agreement.

The present Software Licensing Agreement is applicable to the downloaded copy of this program as well as to its duplicates produced in accordance with the present Software Licensing Agreement.

2 Inhibition of redistribution

You are permitted to download this program only when you are intended to upgrade the functions of this product. Uploading or posting this program on a website accessible by general public is prohibited unless you have permission from YAMAHA.

3 Production of duplicates

You may only produce duplicates of this program for the purpose of backup or when upgrading multiple units of this program.

4 Inhibition of decompiling, reverse engineering or disassembling

You may not decompile, reverse-engineer, disassemble, alter, permit the use of, distribute or create any derivative works of this program.

5 Limitation of liabilities

Under any situation including a negligence of its own, Yamaha will not assume any liabilities on the damage to the customers caused by the present Software Licensing Agreement.

6 Export control

You shall comply with all applicable export laws and regulations of any relevant countries including but not limited to Japan and your country. You shall not, directly or indirectly, export or re-export this program except in compliance with such laws and regulations.

7 Compliance to laws and regulations

This Software Licensing Agreement should be compliant to the laws and regulations of Japan and your country, and should be interpreted in accordance with the laws of Japan.

Specifications

General
- Dimensions (W x H x D) .... 822 mm x 132 mm x 84 mm
  (32-3/8" x 5-7/32" x 3-5/16")
- Weight (excl. AC adapter) .... 4.3 kg
  (9.5 lbs)
- Power supply.......................................100 to 240 V AC (50/60 Hz)
- Power consumption.......................................Approx. 18 W
- Rated voltage .... 15 V
- Rated current...1.2 A

Operating environment
- Ambient temperature ....0 to 40˚C
  (32 to 104 ˚F)
- Ambient humidity............................ 20% to 85% (no condensation)

Radio interference standard
....FCC Part 15 (US)
EN55022 (EU)

LAN interfaces
- Ethernet..10BASE-T/100BASE-TX
- Protocols IEEE802.3/IEEE802.3u
- Communication mode.................................. Auto negotiation, fixed
- Connectors RJ-45
- MAC address .... Indicated on the label
- Polarity.....................................Straight/cross automatically detected

Audio input/output interfaces
.... Stereo analog input/output (1 each)
- Connectors ....Pin-jacks

Video output interfaces
....S-Video
- Connector.. S terminal

Built-in cameras
.... CMOS camera (1300000 pixel, x 3)

Serial interface
....RS-232C (two)
- Connectors.. Mini DIN

Audio
- Arrayed microphones (directivity controlled)
- Arrayed speakers
- Spot sound source control
- Diffusion mode (monaural output)
- Sound volume: 85 dB
- Frequency bandwidth (during a call): 300 to 7000 Hz

Signal processing
- Adaptive echo canceller
- Microphone/speaker array control
- Noise reduction

Communications
DHCP

Accessories
- AC adapter x 1
- Power cable x 1
- LAN cable x 1
- Owner's manual (this manual) x 1
- Warranty card x 1
- Remote control x 1
- Battery (AA, R6, UM-3) x 2
- Stereo audio cable x 1
- S terminal cable x 1

Note

Use the supplied LAN cable to connect a network hub or router and this unit. If you use a commercially available LAN cable, select an STP (Shielded Twisted Pair) cable.

*Specifications are subject to change without notice.

ADDITIONAL INFORMATION

English

Notes for Transfer/Disposal of This Unit

Please restore the factory settings before transferring or disposing of this unit.

Note

When transferring this unit, be sure to transfer with the owner's manual (this manual).

The settings stored in this unit include the personal information such as address book or call history data. If this unit is transferred or disposed of without restoring the factory settings, information may be misused by a third party.
For information on initialization, refer to the following page:
-If this unit is connected to VC1: "Resetting the Settings" on page 50.
-If this unit is connected to a PC: "Resetting the settings" on page 60.

This owner's manual is based on the firmware as of July 2007.
The functions and specifications could be possibly added or changed by a firmware update.
Visit the PJP website to obtain the latest firmware and manuals.

PJP website:
http://www.yamaha.co.jp/english/product/projectphone/

Ce mode d'emploi se réfère à la version du micrologiciel disponible en juillet 2007. Des fonctions et spécifications peuvent être ajoutées ou changées par une mise à jour du micrologiciel.
Consultez le site PJP pour obtenir les tout derniers micrologiciel et manuels.

Site PJP:
http://www.yamaha.co.jp/english/product/projectphone/

Diese Bedienungsanleitung basiert auf die Firmware vom Juli 2007. Die Funktionen und technischen Daten können möglicherweise durch eine zukünftige Firmware-Aktualisierung erweitert oder geändert werden. Besuchen Sie die PJP-Website zum Erhalten der neuesten Firmware und Anleitungen.

PJP-Website:
http://www.yamaha.co.jp/english/product/projectphone/

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As of July, 2007

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