



PJP-50R

IP Audio Conference System
Système de conférence audio IP

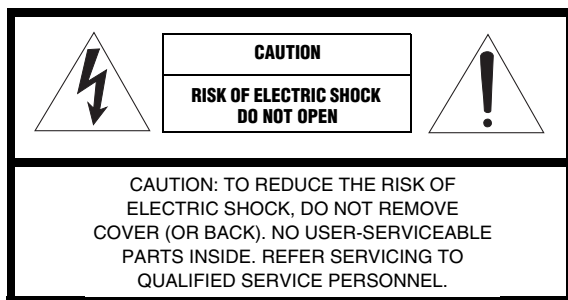
ProjectPhone



Setup Guide
Guide des réglages
Setup-Anleitung

OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG

Important Safety Instructions




• Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, 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.



The exclamation point within an equilateral triangle 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 the product is operated.
 - 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 – for example, 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 – This 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: IP Audio Conference System
Model Name: PJP-50R

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
 - 2) this device must accept any interference received including interference that may cause undesired operation.
- 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 or 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.

FCC INFORMATION (for US customers)

This equipment complies with Part 68 of the FCC rules and the requirement adopted by the ACTA. On the back of the main body of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

Use the RJ-11C modular cable to connect this unit and telephone network.

Connect to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this product does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance

notice in order for you to make necessary modifications to maintain uninterrupted service.

If the PJP-50R causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

If trouble is experienced with the PJP-50R, for repair or warranty information, please contact Yamaha Corporation. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Ringer Equivalence Number (REN)

The Ringer Equivalence Number (REN) is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

FOR CANADIAN CUSTOMERS

This product meets the applicable Industry Canada technical specifications. The Ringer Equivalence Number (REN) is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed five.


Important safety instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or swimming pool, or in a wet basement.
2. Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

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 (i.e. vacation), 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 and hold  (Disconnect) 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 this unit alone.
- 18 When using this unit for a long time, this unit may become warm. Turn the power off, then leave this 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:

GREEN-AND-YELLOW: EARTH
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 GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured GREEN or GREEN-and-YELLOW.
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.

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Basic Operation Guide (a separate manual)

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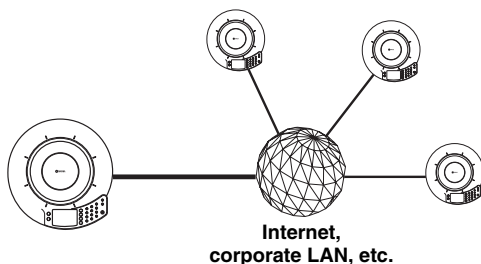
ADDITIONAL INFORMATION

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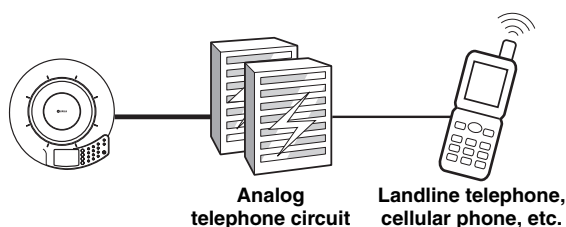
Features

This system is an audio conference system that connects IP networks including the Internet and corporate LAN as well as analog telephone circuits to hold simultaneous communications between multiple persons in multiple locations.

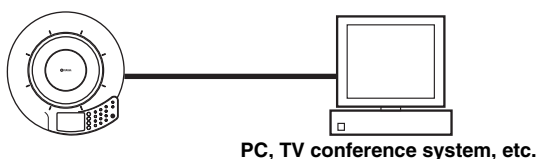
Connection to IP network



Communication through analog telephone circuit



Connection to external equipment using an audio cable



This system is also capable of simultaneous connections and communications across the IP network, analog telephone circuits, and external equipment.

Voice conference through network/analog telephone circuits

This system can implement a voice conference between multiple locations and multiple persons when the systems in different locations are connected to a network such as the Internet or corporate LAN or to analog telephone circuits. When the system is connected to a PC through an audio cable, it can also be used as the microphone/speaker unit for a web conference or software telephone.

Voice conference that is “easy to talk” and “easy to hear”

The system employs arrayed microphones with high voice capturing capability and speakers with high voice reproduction capability. In addition, it also incorporates a high-performance adaptive echo canceller to eliminate interruptions of sound or drop in the voice level when multiple talkers speak simultaneously. These features make your voice conference “easy to talk” and “easy to hear”.

For each application, see the following page.

Communication
through IP network



Page 7 in the Basic Operation Guide
(a separate manual)

Communication
through telephone circuit



Page 14 in the Basic Operation Guide
(a separate manual)

Use as a microphone/speaker unit
for a PC or TV conference system



Page 30

About this Manual

- In this manual, the names of the following products are denoted as follows.
 - Yamaha PJP-50R: this unit
 - Microsoft® Windows®: Windows
 - Microsoft® Windows XP®: Windows XP
 - 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 the 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. If there are differences between the manual and the product, the product has priority.

■ Check the latest information

This manual has been compiled based on the latest version of the firmware as of October, 2007. Note that the actual operations of the system may differ from the information given in this manual due to the addition of new functions or improvement of existing functions as a result of upgrading of the firmware revision.

For the latest information and firmware, please visit the ProjectPhone support webpage of the following address. This page also gives explanations on details of the latest functions.

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

For the revision upgrading procedure, refer to “Updating the Firmware” (page 34).

■ About trademarks

- Ethernet is a registered trademark of Xerox Corporation.
- Microsoft, Windows and Microsoft Excel are registered trademarks of Microsoft Corporation in United States and other countries.
- Adobe and Acrobat are registered trademarks of Adobe Systems, Inc.

Supplied Accessories

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

- **AC adapter (PJP-PS01) x 1**
- **Power cable x 1**
- **LAN cable x 1**
- **Modular telephone cable x 1**
- **Owner’s Manual (Basic operation guide) x 1**
- **Owner’s Manual (Setup guide) x 1**
- **Warranty card x 1**

Preparation Procedure

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

Step 1: (page 5)

Connecting this unit to the network and turning this unit on



Step 2: (page 6)

Registering the network settings of this unit

- To perform communications through an IP network such as a LAN, see “LAN: Acquiring the network information from a DHCP server” (page 6) or “LAN: Setting the network information manually” (page 6).
- For communication through the telephone circuit, see “Telephone circuit: Setting the telephone circuit type” (page 10).



Step 3: (page 11)

Installing this unit in the conference room

■ To configure the settings from a PC

This section describes the preparation steps using the keys on this unit, but the same settings are also available by accessing the “Web Settings Page” from a PC. See “Configuring the settings using the Web menu” (page 13).

Notes

- Some functions such as the address book cannot be set using the keys on this unit alone.
- A connection through the IP network is required to access the “Web Settings Page” of this system.

■ To use this unit with a SIP server

You must enter the settings by accessing the “Web Settings Page” from a PC. See “Configuring the SIP server setting” (page 15).

■ Notes on system connection

Please check the following before proceeding to preparation.

LAN cable

(For use in the connection to a IP network)

- Prepare the supplied LAN cable.
- When using a commercially available LAN cable, prepare a 10BASE-T or 100BASE-TX compatible LAN cable.

Modular cable

(For use in the connection to a telephone circuit)

- Prepare the supplied modular cable.
- When using a commercially available modular cable, prepare a modular cable with RJ-11C 6P2C or 6P4C plug.

Audio connection cable

(For use in the connection to a PC, etc.)

- Prepare a pair of commercially available audio connection cables (stereo mini-jack cables).
- The designs of the line input/output terminals of TV conference systems vary depending on the models. Always use audio connection cables having the plugs matching the line input/output terminals of the connected TV conference system. Note that the plugs connected to the ProjectPhone system of the audio connection cables should always be the stereo mini-plugs.

Caution regarding the connection to an IP network

- When using this unit in the Internet, a global IP address need to be obtained.
- When using this unit in a corporate LAN, it cannot be connected to equipment outside the firewall. However, as calls may become possible by changing the settings of the router, please consult your network administrator for details. This unit uses a port number of 5060 (UDP) for SIP, and 57000 to 57010 (UDP) for RTP/RTCP.
- Obtain or decide the following information prior to the installation of this unit.
 - IP address and subnet mask settings of this unit
 - IP addresses of the default gateway and DNS server used by this unit
- To prevent the audio from being interrupted, it is recommended that a network that can offer enough transmission bandwidth is used. See “Specifications” (page 46) for details.
- Use the supplied LAN cable to connect a network hub or router and this unit. If you use a commercially available LAN cable, select and STP (Shielded Twisted Pair) cable.

Telephone system requirements

This system can be connected to the following type of telephone system.

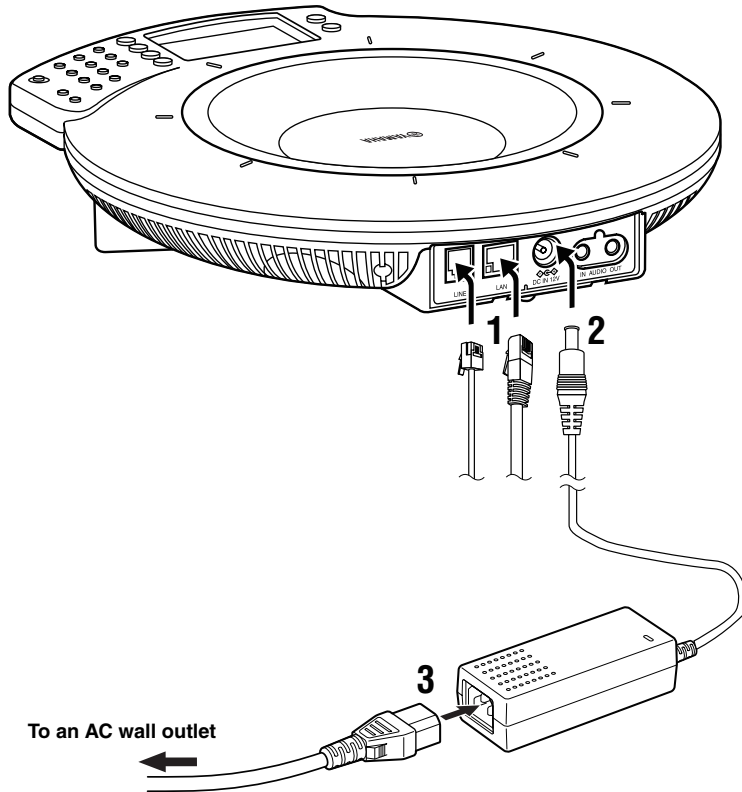
- Analog circuit (The system is incompatible with digital circuits such as ISDN.)
- Telephone socket with an RJ-11C modular jack (if your telephone socket is not equipped with an RJ-11C modular jack, use a commercially available converter).

Telephone connection through a PBX (Private Branch Exchange)

This system can be connected only to a 2-wire RJ-11 analog PBX circuit. If you are unsure about your telephone circuit, consult the manager in charge of the telephone circuit.

Step 1: Connecting this unit

Follow the procedure below to connect this unit to the network, and then connect the AC adapter.



1 Connect the required communication cable.

- Connect the LAN cable between the LAN port of the system and the network.
- Connect the modular cable between the LINE port of the system and the telephone circuit.

2 Connect the AC adapter to the DC IN 12V terminal.

3 Connect the power cable to the AC adapter.

4 Connect the power cable to the AC outlet.

This unit is turned on and the microphone indicators light up in sequence.

Step 2: Registering the settings of this unit

Set up the system according to the network or telephone circuit to which the system is connected.

Communication through the Internet or LAN

The setup items are variable depending on whether or not the DHCP server is used.

When using the DHCP server:

See “LAN: Acquiring the network information from a DHCP server” (page 6).

When not using the DHCP server:

See “LAN: Setting the network information manually” (page 6).

Communication through the public switched telephone circuit

See “Telephone circuit: Setting the telephone circuit type” (page 10).

■ LAN: Acquiring the network information from a DHCP server

When this unit is used in a network containing 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

Make sure that “Tel & IP ready” or “IP ready” is displayed as shown below.



If “IP ready” or “Tel & IP ready” is not displayed or “???.???.???.???” is displayed, the network information has not been obtained correctly.

■ LAN: Setting the network information manually

Follow the procedure below to register the network information manually.

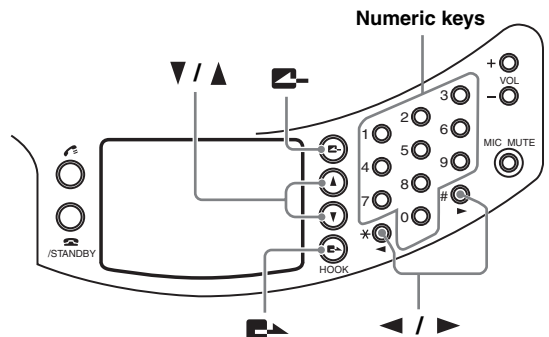
Note

Before setting the network information, check that this unit is connected properly to the network. If the LED of the LAN port is not lit, this system is not connected properly to the network.



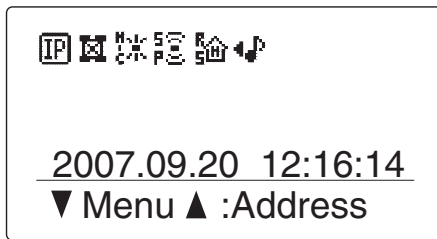
The factory settings of the network information are as follows.

- IP address: 192.168.100.200
- Subnet mask: 255.255.255.0
- Default gateway: 0.0.0.0
- DNS server: 0.0.0.0



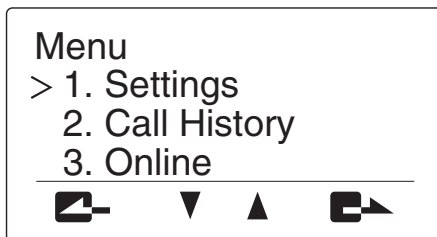
- 1** Press  repeatedly until the initial display appears.

If a DHCP server exist in the network, IP address obtained from the server is displayed.



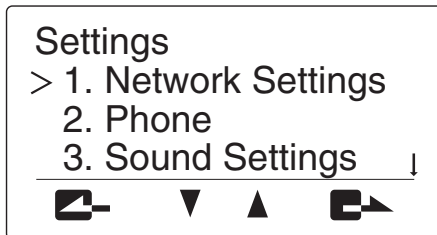
- 2** Press .

The menu screen appears.



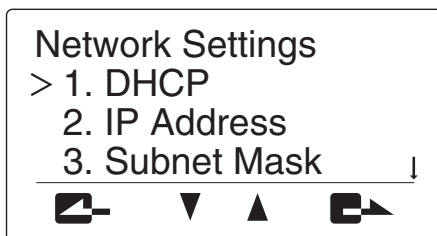
- 3** Press  or  to select “Settings”, and then press .

The “Settings” menu appears.



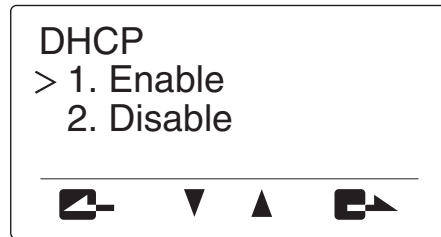
- 4** Press  or  to select “Network Settings”, and then press .




The “Network Settings” menu appears.



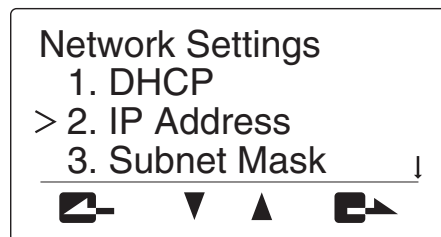
- 5** Press  or  to select “DHCP”, and then press .




The “DHCP” menu appears.



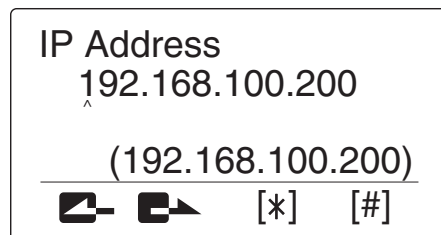
- 6** Press  or  to select “Disable”, and then press .

The “Network Settings” menu reappears.



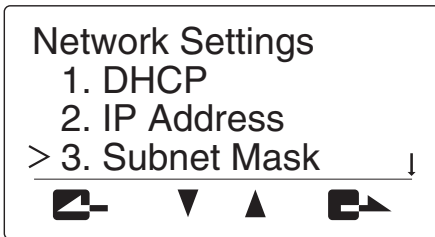
- 7** Press  or  to select “IP Address”, and then press .

The “IP Address” menu appears.







- 8** Use the numeric keys to enter the IP address of this unit, and then press .

The entered IP address is registered, and the “Network Settings” menu reappears.



Network Settings
 1. DHCP
 2. IP Address
 > 3. Subnet Mask ↓

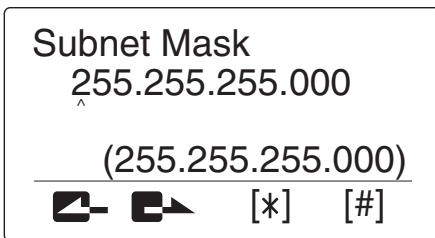
   

Note

Set an IP address that does not overlap with the IP address of another piece of equipment connected to the LAN.



- 9** Press  or  to select “Subnet Mask”, and then press .


The “Subnet Mask” menu appears.



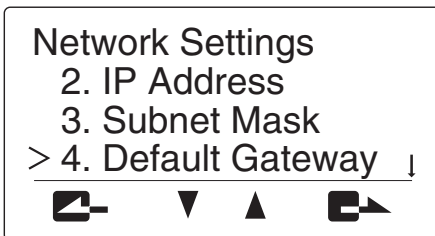
Subnet Mask
 255.255.255.000

(255.255.255.000)





  [*] [#]

- 10** Use the numeric keys to enter the subnet mask of this unit, and then press .

The entered subnet mask is registered, and the “Network Settings” menu reappears.

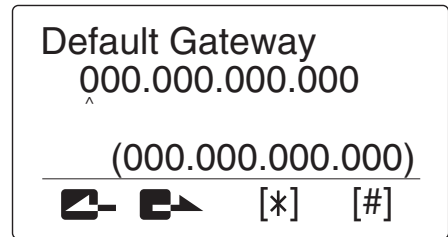


Network Settings
 2. IP Address
 3. Subnet Mask
 > 4. Default Gateway ↓



- 11** Press  or  to select “Default Gateway”, and then press .


The “Default Gateway” menu appears.



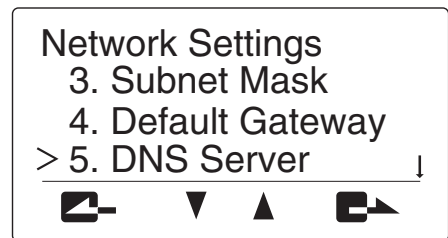
Default Gateway
 000.000.000.000

(000.000.000.000)





  [*] [#]




- 12** Use the numeric keys to enter the “Default Gateway” of this unit, and then press .

The entered “Default Gateway” is registered, and the “Network Settings” menu reappears.

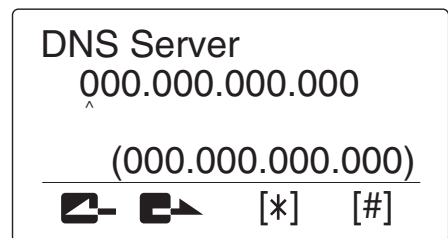


Network Settings
 3. Subnet Mask
 4. Default Gateway
 > 5. DNS Server ↓



- 13** Press  or  to select “DNS Server”, and then press .


The “DNS Server” menu appears.



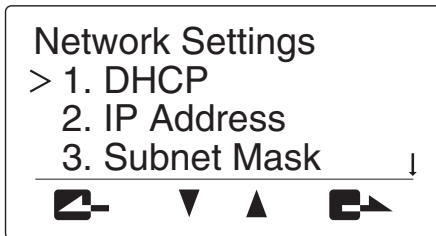
DNS Server
 000.000.000.000


(000.000.000.000)

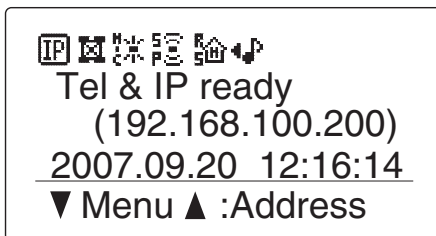
  [*] [#]

- 14** Use the numeric keys to enter the IP address of the DNS server referenced by this unit, and then press .

The entered DNS server IP address is registered, and the “Network Settings” menu reappears.



- 15** Press  repeatedly until the initial display appears, and confirm that the IP address of this system is displayed in it.



■ Telephone circuit: Setting the telephone circuit type

To have communications through the telephone circuit, it is necessary to set the type of the connected telephone circuit.

- 1 Press  repeatedly until the initial display appears.

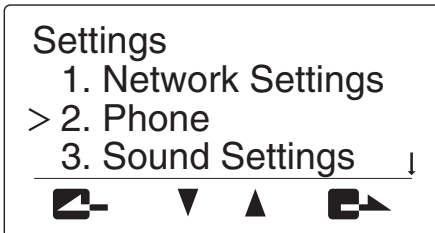
- 2 Press .

The menu screen appears.



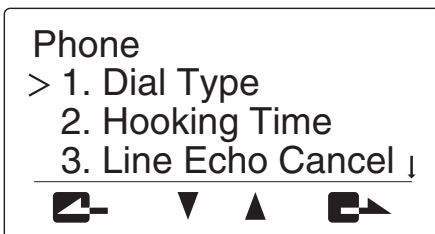
- 3 Press  or  to select "Settings", and then press .

The "Settings" menu appears.



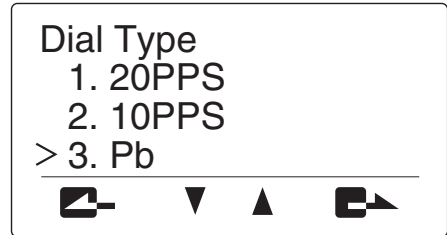
- 4 Press  or  to select "Phone", and press .




The "Phone" menu appears.



- 5 Press  or  to select "Dial Type", and press .

The "Dial Type" menu appears.




- 6 Press  or  to select the type of your telephone circuit, and press .

- **20PPS:** Select when your telephone circuit is a pulse (20 pps) line.
- **10PPS:** Select when your telephone circuit is a pulse (10 pps) line.
- **Pb (Default):** Select when your telephone circuit is a tone line.




- In general, "20PPS" is applicable to most pulse lines.
- If you do not know the type of your telephone circuit, consult your telephone company.

- 7 Press  or  to select "Country Code" and press .

The "Country Code" menu appears.



- 8 Press  or  to select the country use this unit, and press .

- 9 Press  repeatedly until the initial display appears.

Step 3: Installing this unit in the conference room

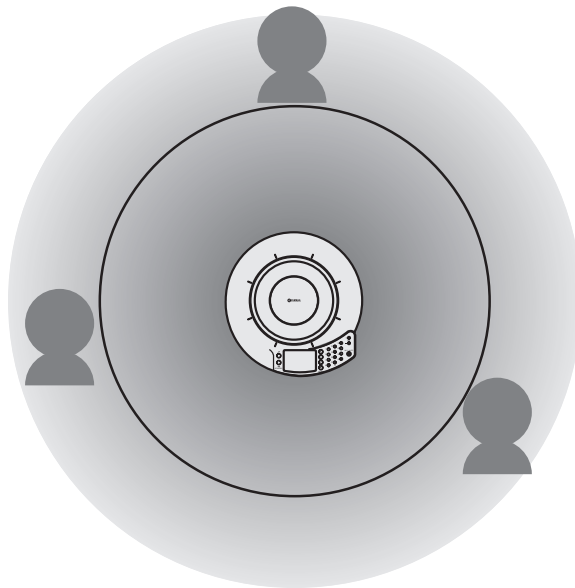
After completing the settings, follow the procedure below to install this unit in the actual place, such as a conference room.

■ About the installation environment

The speakers of this unit are on the bottom panel facing down. Place this unit horizontally on a desktop without placing any object below this unit. If the system is unstable because the tabletop or desktop is not flat, adjust the height of the feet using the adjusters provided at the bottom.

■ Position of the talkers

This unit is capable of 360° audio pickup when ZONE is set for the microphone mode. The pickup area depends on the operation environment and setting. Refer to “Selecting the audio pickup area (microphone mode)” (page 16) for details.



Configuring the Settings

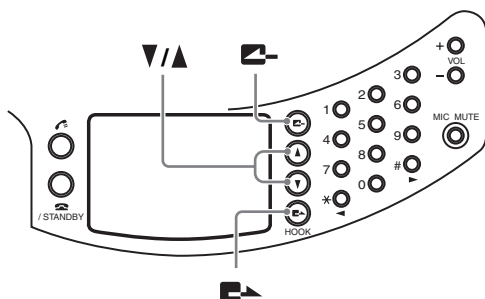
You can configure the settings of this unit using the operation keys on this unit or a Web browser (Web menu) on the PC connected to this unit.

Notes

- Some settings can be performed only by accessing the “Web Settings Page” for the system from the PC.
- For the configuration of the setup menus and the options for each setting item, see “Setting the Menu List” (page 14).

Configuring the settings using the keys on this unit

Follow the procedure below to configure the settings using the operation keys on this unit.

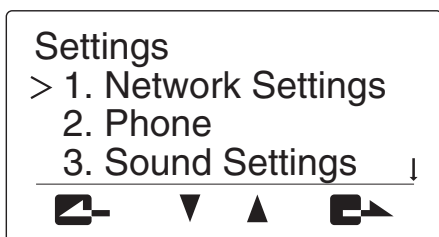


1 Press **[MUTE]** repeatedly until the initial display appears.

2 Press **[DOWN]**.
The menu screen appears.

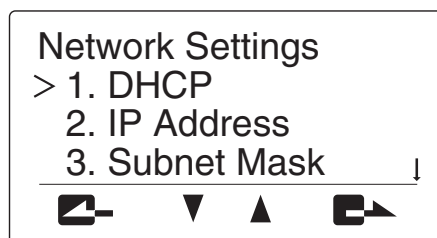


3 Press **[UP]** or **[DOWN]** to select “Settings”, and then press **[RIGHT]**.
The “Settings” menu appears.

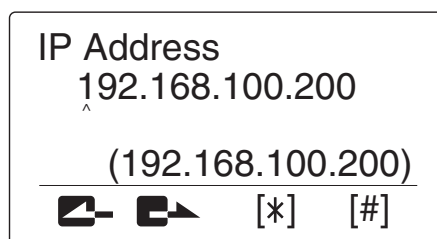


4 Press **[UP]** or **[DOWN]** to select the menu category, and then press **[RIGHT]**.

The menu items in the selected category appear. The following figure shows an example in which “1. Network Settings” is selected. For details on the setting menu configuration, see “Setting the Menu List” (page 14).



5 Change the parameter.
The following figure shows an example in which “IP Address” is selected. For details on parameters of each menu item, see “Setting the Menu List” (page 14).



6 To confirm the setting, press **[RIGHT]**.
The setting is saved in this unit.

■ To return to the previous menu without saving the setting

Press **[MUTE]**.

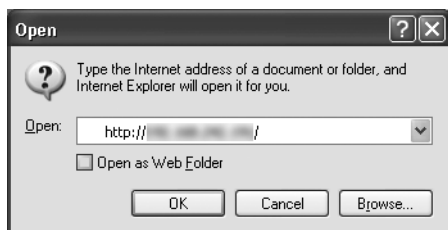
Configuring the settings using the Web menu

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

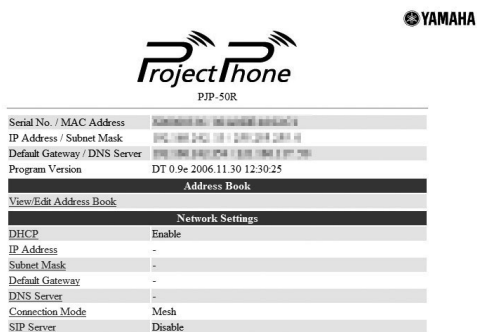
Note

Microsoft Windows XP or Windows 2000 is required to view the Web menu.

- 1 Check that this unit is turned on.
- 2 Start the Web browser. On the “File” menu, choose “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 of the Web menu is not displayed, see “Q2: Web menu setting is not available” (page 39).

Setting the Menu List

In the following description,  indicates that the setting is possible using the keys on this unit and  indicates that it is possible using the Web menu through a PC.

Registering the IP network information

Register the settings for communication through the IP network.

Note

These settings do not affect the communication through the telephone circuit.

■ Configuring the DHCP server settings



Select “Enable” to assign the network information of this unit using a DHCP server or “Disable” to assign the network information manually. The default setting is “Enable”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “DHCP”.

Using the Web menu

In the Web menu, select “DHCP”.

■ Registering the IP address of this unit



The IP address of this unit must be registered when a DHCP server is not used. The default setting is “192.168.100.200”.

Note

If you want to specify the IP address of this unit manually while this unit is connected to a LAN that has a DHCP server running, set “DHCP” to “Disable”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “IP Address”.

Using the Web menu

In the Web menu, select “IP Address”.

■ Registering the subnet mask



You can register the subnet mask. The default setting is “255.255.255.0”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “Subnet Mask”.

Using the Web menu

In the Web menu, select “Subnet Mask”.

■ Registering the default gateway



You can register the default gateway. The default setting is “0.0.0.0”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “Default Gateway”.

Using the Web menu

In the Web menu, select “Default Gateway”.

■ Registering the DNS server referenced by this unit



You can register the DNS server to be referenced by this unit. The default setting is “0.0.0.0”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “DNS Server”.





Using the Web menu

In the Web menu, select “DNS Server”.

■ Configuring the connection mode



You can select the mode used in connections involving multiple locations. The default setting is “Mesh”.

- **Mesh:** This unit establishes a separate session with each of the locations involved in the conference call. This mode is indicated by  on the display.
- **Cascade Server:** This unit functions as the server in the cascade connection. This mode is indicated by  on the display.
- **Cascade Client:** This unit functions as a client in the cascade connection. This mode is indicated by  on the display.
- **Audio Device:** This unit functions as the microphone / speaker of the PC connected to this unit via a LAN. This mode is indicated by  on the display.



- For details on the mesh connection, see “Talking with Multiple Locations” (page 12) in “Basic operation guide” (a separate manual).
- For details on the cascade connection, see “Hierarchical Connection of Multiple ProjectPhone (Cascade Connection)” (page 26).

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “Connection Mode”.

Using the Web menu

In the Web menu, select “Connection Mode”.

Tips for the “Audio Device” mode

This function can be used when this unit is connected to a PC in the following conditions:

- When this unit and the PC are connected within the same subnet.

Or,

- When this unit and the PC are connected directly by LAN cable.

A special audio driver must be installed on the computer before using “Audio Device” mode. The audio driver and operating instructions can be downloaded from the following URL:

<http://www.yamaha.co.jp/english/product/projectphone/download/appli/>

See the above web site or the manual of the audio driver for instructions on installing and operating the audio driver.

■ 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 name and password using the Web menu. See page 24 for details.

Notes

- Even if you select “Enable”, the SIP server is available for a call only if the SIP server name and password are registered in the Web menu.
- To connect a call using a SIP server, it is necessary to register the SIP address of this unit. See page 24 for details.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “SIP Server”.

Using the Web menu

In the Web menu, select “SIP Server”.

■ Configuring the silence suppression setting

You can suppress packet output when no sound is input at the microphone of this unit.

Select “Enable” to activate this function. The default setting is “Disable”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “Silence Suppress”.

Using the Web menu

In the Web menu, select “Silence Suppression”.

Setup of telephone function

Register the settings for communication through the telephone circuit.

Note

These settings do not affect the communication through the IP network including the LAN.

■ Setting the telephone circuit type

You can select the type of the connected telephone circuit.

- **20PPS**: Select when your telephone circuit is a pulse (20 pps) line.
- **10PPS**: Select when your telephone circuit is a pulse (10 pps) line.
- **Pb (Default)**: Select when your telephone circuit is a tone line.



If you do not know the type of your telephone circuit, consult your telephone company.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Phone” → “Dial Type”.

Using the Web menu

In the Web menu, select “Dial Type”.

■ Setting the hooking signal transmission time

You can set the transmission time of the hooking signal for use in a call transfer.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Phone” → “Hooking Time”.

Using the Web menu

In the Web menu, select “Hooking Time”.

■ Setting the prefix

You can set the prefix that identifies the network. The prefix can be used in call originations using the “telephone number,” “SIP extension number” and “address book number”.

Default settings:

- **Phone Line**: None
- **IP Number**: 8#
- **Address Book**: 9#

Using the Web menu

In the Web menu, select “Prefix”.



You can check the current prefix settings by using the keys on the unit. In the initial display, select “Menu” → “Settings” → “Phone” → “Prefix”. You cannot change the setting of the prefix by using the keys on this unit.

Notes

- Depending on the settings, you may not be able to call an emergency number (such as that of the police or the fire department). Also, note that there are cases where an emergency number is accidentally called without your intention.
- You cannot set the same prefix for different calling method.

■ Setting the country using the telephone function

This function switches the detected telephone circuit frequency according to the selection of the country where this system is used. One of the following countries can be selected.

- Canada
- China
- Europe 1
- Europe 2
- Japan
- United Kingdom
- United States
- Other

Note

If you cannot make communication correctly through the telephone circuit in Europe by setting “Country Code” to “Europe1”, set “Country Code” to “Europe2”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Phone” → “Country Code”.

Using the Web menu

In the Web menu, select “Country Code”.

■ Setting the telephone circuit mode for Japan or China

You can select the telephone circuit mode when use this unit in Japan or China.

In case “Country Code” is set to “Japan”:

- **Mode 1 (Default):** Use this mode under normal circumstances. The incoming call ringer does not ring when this unit has received the CND (Caller Number Display) CID (Caller ID) data from your telephone company.
- **Mode 2:** Use this mode if the extension telephones do not respond properly to an incoming call in “Mode 1”. The incoming call ringer rings when this unit has received the CND (Caller Number Display) or CID (Caller ID) data from your telephone company.

In case “Country Code” is set to “China”:

- **Mode 1 (Default):** This mode is compatible with the switchboard used in locations other than Hong Kong and Macau.
- **Mode 2:** This mode is compatible with the switchboard used in Hong Kong and Macau.



- When “Country Code” is set to a setting other than “Japan” and “China”, the telephone circuit type settings do not affect the functions of this unit.
- When you make changes to “Country Code”, “Line Mode” automatically changes to “Mode 1”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Phone” → “Line Mode”.


Using the Web menu

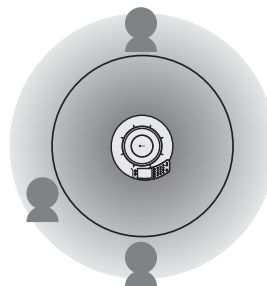
In the Web menu, select “Line Mode”.

Configuring the sound settings


■ Selecting the audio pickup area (microphone mode)

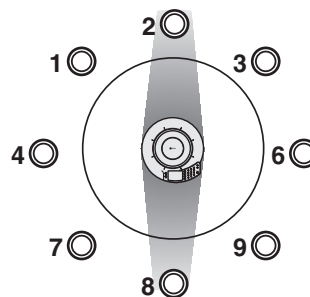
You can select the audio pickup area of the microphone during a call.


- **Zone (Default):** Pick up the audio from a large area. This mode is suitable for a relatively quiet environment. This mode is indicated by  on the initial display.



- **Spot:** Fix the audio pick up area to the front of the microphone by narrowing the directivity. This mode is suitable when the number of talkers is limited to one or two, or when there is equipment that produces noise such as a projector nearby.

To specify the audio pick up area, use the numeric keys in the “Microphone Mode” menu. When a key is pressed, the areas in the direction of the pressed key and the opposite direction is enabled or disabled. The following illustration shows the areas enabled by pressing 2 .

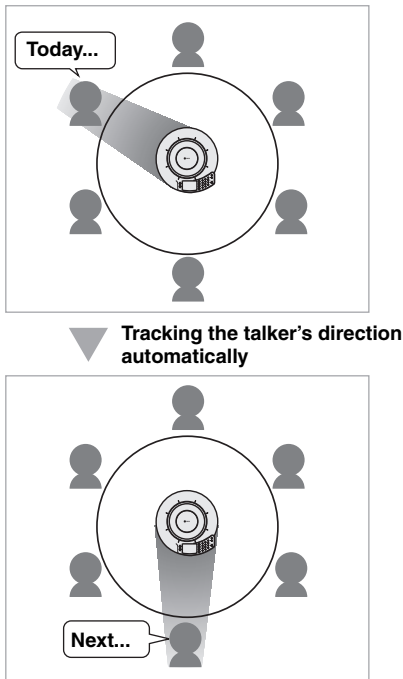


Microphone indicators (blue LED) of which direction audio can be picked up from all light up. This mode is indicated by  on the initial display.

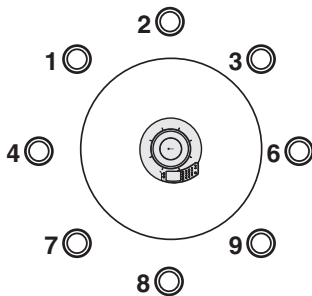



Each pair of areas should be positioned in opposite directions (i.e. pairs of 1 and 9, 2 and 8, 3 and 7, and/or 4 and 6).

- **Tracking:** The microphone system automatically tracks and focuses on the audio of the talker. The audio can be picked up with narrow directivity so that other noises can be reduced. This mode is suitable to pick up the audio clearly in a noisy environment. The voice of only one talker can be captured at a time.




In the “Microphone Mode” menu, press a numeric key to specify the area in which tracking is disabled. Every numeric key enables or disables the tracking in the direction corresponding to the key as shown in the following illustration.



All microphone indicators (blue LED) from the direction which audio can be picked up light up. This mode is indicated by  on the initial display.




- Press 5  to pick up audio from all directions.
- You can select multiple areas at the same time.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “Microphone Mode”.





You can display the “Microphone Mode” menu by holding down  in the initial display or calling display.

Using the Web menu

In the Web menu, select the “Microphone Mode”.

■ Configuring the speaker mode


You can select the audio output mode of the speakers during a call.

- **Mono:** Even during a call with more than one location, the audio from other units is not divided according to their locations. This mode is indicated by  on the initial display.
- **Multi (Default):** When this unit is connected to multiple locations, the audio from other units is automatically divided according to their locations. This mode is indicated by  on the initial display. The audio from each location is divided and output from the left, center, or right side of the speaker if a conference call involves 3 locations. If a conference call involves 2 locations, the audio is output from the left and right side of the speaker. The audio from the destination of connection through the telephone circuit is always output from the center position.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “Speaker Mode”.



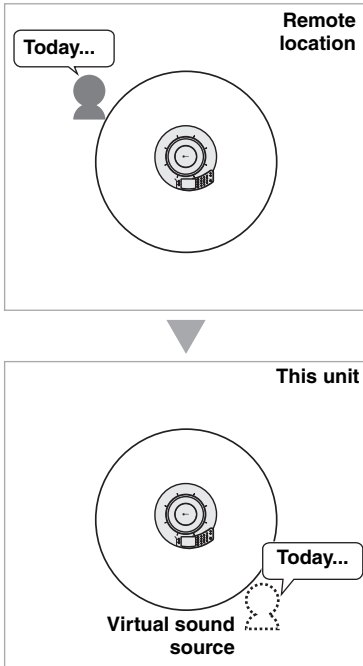
You can display the “Speaker Mode” menu by holding down  in the initial display or calling display.

Using the Web menu

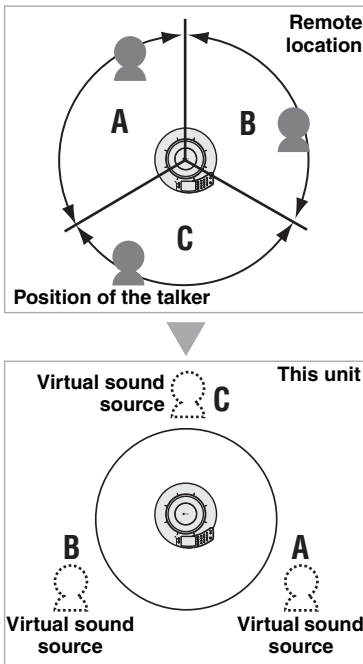
In the Web menu, select “Speaker Mode”.

Audio output in a call with a single location in “Multi” speaker mode

If the “Speaker Mode” is set to “Multi” for a call with a single location, the system creates a virtual sound source for the talker according to the position of the talker in the remote location as shown with the following illustrations.






The virtual sound source for the remote talker is placed at one of the positions according to the position of the talker in the remote location as shown with the following illustrations.



If the communication destination location is connected to another location through a telephone circuit, the virtual audio source of the latter location is created in the same position as the virtual audio source of the talker in the former location.

■ Configuring the room size

You can configure this setting depending on the room size and operating environment. However, you do not need to change it from “Large” normally.

- **Large (Default):** Select this setting for using this unit in an ordinary conference room, open space, or office. The communication quality is most stable in this setting. This setting is indicated by  on the initial display.
- **Medium:** Select this setting when this unit is used in a room with large reverberations. This setting reduces the echo heard at the other party locations using the default “Large” setting. This setting is indicated by  on the initial display.
- **Small:** Select this setting when echo is still heard at the other party locations using the “Medium” setting. This setting is indicated by  on the initial display.

Notes

- “Room Size” is a function for reducing the echo heard at the other party locations. “Room Size” cannot reduce the echo that is heard from this unit installed at the local location.
- “Medium” and “Small” can improve the echo processing capability but lowers the communication quality. These settings should be selected only when echo is heard at the other party locations.

Using the keys on this unit




In the initial display or the display during communication, select “Menu” → “Settings” → “Sound Settings” → “Room Size”.

Using the Web menu

In the Web menu, select “Room Size”.

■ Configuring the external input/output setting

You need to configure this setting when you connect an external audio equipment to this unit.

- **None:** Usually select this setting.
- **Audio (Default):** Select this setting when connecting external audio equipment to this unit. This setting is indicated  on the initial display.
- **Connection(mstr):** Select this setting for the PJP-50R to be used as the Master unit. This setting is indicated  on the initial display.
- **Connection(slv):** Select this setting for the PJP-50R to be used as a Slave unit. This setting is indicated  on the initial display.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “External I/O”.

Using the Web menu

In the Web menu, select “External Input/Output”.



- In an interlocked connection of the ProjectPhone systems, allow a distance of at least 2 meters between them.
- Set the “Room Size” to “Small” for an interlocked connection.
- When connecting three ProjectPhone systems (Master, Slave 1 and Slave 2) in an interlocked connection, first connect the AUDIO OUT terminal of the Master unit to the AUDIO IN terminal of the Slave 1 unit. And then, connect the AUDIO OUT terminal of the Slave 1 unit to the AUDIO IN terminal of the Slave 2 unit. Finally, connect the AUDIO OUT terminal of the Slave 2 unit to the AUDIO IN terminal of the Master unit. See “Interlocked Connection of ProjectPhone Systems” (page 29) for details.

■ Configuring the codec

At the beginning of communication, this system negotiates with the remote communication terminal and selects the optimum encoding method automatically according to the encoding method usable by the remote terminal.

This menu item is used to determine the range of encoding methods that can be selected by this system.

For example, when this system wants to communicate with an audio conference system other than the ProjectPhone system and the system is not compatible with the G.711 extended encoding method, select “G.711”. If this is selected, this unit selects the optimum encoding method from G.711 μ -law, G.711 A-law and G.726-32 methods according to the compatibility of the remote party.

- **G.711 Extension (Default)**
- **G.711**
- **G.726-32**

See “Specifications” (page 46) for details about the frequency response and the transmission bandwidth for each codec.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “CODEC”.

Using the Web menu

In the Web menu, select “CODEC”.

■ Adjusting the volume




The audio input volume from the microphones and the audio input/output volumes from/at the AUDIO IN/OUT terminals can be adjusted.

- **Microphone:** Adjustment of the input volume from the microphones of the system.
- **Audio IN:** Adjustment of the input volume from the AUDIO IN terminal.
- **Audio OUT:** Adjustment of the output volume at the AUDIO OUT terminal.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “Volume Fine Adj”.



- Use  and  to adjust each volume and  to confirm the adjustment.
- Adjustment range: -12.0 dB to 12.0 dB (0.5 dB steps)
- Initial setting: 0 dB

Note

Varying the volume settings may distort audio in certain operating environments. In this case, reduce the volume setting until the distortion disappears.

■ Natural Voice Enhancer feature

Natural Voice Enhancer feature enhances the high-frequency fidelity of the audio signals input via telephone circuit or IP network. This unit outputs the improved sound from the speaker of this unit.

- **Enable:** Select to activate the Natural Voice Enhancer mode.
- **Disable (Default):** Select to deactivate the Natural Voice Enhancer mode.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “Voice Enhancer”.

Using the Web menu

In the Web menu, select “Natural Voice Enhancer”.

Note

- This setting does not affect the audio signals input at the AUDIO IN jack.

Configuring the general settings




■ Adjusting the ring tone volume

You can adjust the ring tone volume by pressing VOL +/-.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “General Settings” → “Ring Volume”.



During the ringing volume setting, the ringing tone is generated for use as the test tone. Pressing 1  switches it to the ringing tone for IP network calls, pressing 2  switches it to that for telephone calls, and pressing 3  switches it to that for the extension call using telephone circuit. The set volume is applied commonly to the IP network and telephone ringing.

■ Controlling the system using the remote operation function

This function is reserved for future extension.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “General Settings” → “Remote Control”.

■ Configuring the backlight off setting



Select the time until this unit turns off the backlight automatically when it is not engaged in a call.

- **Disable (Default):** Select this setting to keep the backlight on
- **3 minutes**
- **5 minutes**
- **10 minutes**
- **30 minutes**

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “General Settings” → “BacklightOffTime”.

Using the Web menu

In the Web menu, select “Backlight OFF Time”.

■ Adjusting the LCD contrast

You can adjust the contrast of the display by pressing VOL +/-.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “General Settings” → “LCD Contrast”.

■ Selecting the menu language (Language)

- **English (Default):** Select this setting to display the menus in English.
- **Japanese:** Select this setting to display the menus in Japanese.
- **Chinese:** Select this setting to display the menus in Chinese.

Using the keys on this unit

In the initial display, select “Menu” → “Setup” → “General Settings” → “Language”.

Using the Web menu

In the Web menu, select “Language”.

■ Setting the date and time manually

Set the time and date of the built-in clock of the system manually. For details, see “Setting the Date and Time” (page 22).

Using the keys on this unit

In the initial display, select “Menu” → “Setup” → “General Settings” → “Time”.

■ Setting the time zone

Set the time zone of the region in which the system is used. The time zone should be set in ± 1 -hour steps with respect to the UTC (Coordinated Universal Time).

Using the Web menu

In the Web menu, select “Time”.

■ Setting the daylight saving time

If the region in which the system is used applies the daylight saving time system, set this item to “ON”. This item is usually set to “OFF”.

Using the Web menu

In the Web menu, select “Time”.

■ Selecting the SNTP server for synchronization

If you want to adjust the time automatically by synchronizing this unit with an SNTP server, enter the name or IP address of the desired SNTP server. See “Setting the Date and Time” (page 22) for details.

Using the Web menu

In the Web menu, select “Time”.

■ Selecting the SNTP synchronization interval

If you want to adjust the time automatically by synchronizing this unit with an SNTP server, specify the synchronization interval in minutes. See “Setting the Date and Time” (page 22) for details.

Using the Web menu

In the Web menu, select “Time”.

Call history management

■ Checking the communication history of this system

The communication history of this system can be viewed on the Web setting page. This system stores the records of up to 50 communications.

Setting Home > Call History

Time Of Day	Communication Type	Other Party
1. 2006-12-01 18:18:58	Tel. Transmit	123456789 (Branch B)
2. 2006-12-01 00:53:51	IP Transmit	192.168.100.100 (Headquarter)
3. 2006-12-01 00:52:16	Tel. Terminate	User unset
4. 2006-12-01 00:51:03	IP Transmit	192.168.100.100 (Headquarter)
5. 2006-12-01 00:48:09	SIP Transmit	232 (Branch A)
6. 2006-12-01 00:47:31	IP Number Terminate	192.168.100.10
7. 2006-12-01 00:47:02	SIP Terminate	232 (Branch A)
8. 2006-12-01 00:46:27	Tel. Transmit	123456789 (Branch B)

Displayed information:

- **Time Of Day:** Date and time at the start of each communication.
- **Communication Type:** Means (telephone/IP network) and type (incoming/outgoing/non-replied incoming/multipoint) of communication are displayed. “Multi” is displayed with automatic call origination/incoming during mesh connection (page 14).
- **Other Party:** IP address, SIP address, IP intercom number or telephone number of the other party of communication. The name of the other party is also displayed if it is registered in the address book.

Using the Web menu

In the Web menu, select “Call History”.

Notes

- To obtain correct time information, it is required to set the built-in clock of the system in advance.
- With the communications through telephone circuit, the incoming telephone number is displayed as “Caller ID blocked”.

Setting the password

Use this feature to prevent important configurations from being unwantedly changed by a user other than the administrator.

The configuration parameters under protection are as follows:

- Network Settings
- Phone
- Save Config
- Restore Settings
- Firmware Update
- Setting by using the Web menu

■ Setting the password

Using the keys on this unit

In the initial display, select “Settings” → “General Settings” → “Password” → “Set Password” and then enter a 4-digit password by using the numeric keys.

If a password already exists, enter the current password in “Old”. Enter a new password in “New” and then enter it again in “Retype” for confirmation purpose.

Using the Web menu

In the Web menu, select “Set Password” and enter a 4-digit password.

■ Deleting the password

Using the keys on this unit

In the initial display, select “Settings” → “General Settings” → “Password” → “Delete Password” and then enter a the current 4-digit password by using the numeric keys.

The current password is deleted, and you can make changes to the configurations previously under protection.



- When you set a password for the first time, leave “Old” empty.
- When a password has been set and you select a configuration menu under protection by using the control keys of this unit, the password entry screen appears. If you do not perform any operations for the next 5 minutes, this unit returns to the configuration protection mode.
- When a password has been set and you update the firmware of this unit, you need to enter the current password.
- Once the existing password has been deleted, the configurations previously under protection can no longer be protected. If you want to protect the configurations again, perform the password setting procedure again.
- If you forgot the password, you cannot initialize this unit to the default factory settings. In this case, use the following master password to set this unit to the default factory settings. The master password can be entered in the Web menu.

Master Password

The master password for this unit is the serial number with the second letter being omitted.

(e.g. If the serial number of this unit is “NP4012345”, the master password is “N4012345” with “P” omitted.)

Calling a ProjectPhone system in the same subnet

If the system is connected to an IP network such as LAN, it can search and call another ProjectPhone system that is available for communication in the same subnet.

Using the keys on this unit

From the initial display, select “Menu” → “Online” and specify another system to be called.

Setting the Date and Time

Setting the date and time manually

- 1 Press **Esc** repeatedly until the initial display appears.
- 2 Press **▼**.
The menu is displayed.
- 3 Press **▲** or **▼** to select “Settings” and press **Enter**.
The Setup menu is displayed.
- 4 Press **▲** or **▼** to select “General Settings” and press **Enter**.
The “Environment Setup” menu appears.
- 5 Press **▲** or **▼** to select “Time” and press **Enter**.
The display for entering the current date and time appears.
- 6 Enter the current date and time using the numeric keys, and press **Enter**.
The entered date and time are entered, and “Environment Setup” menu reappears.



The time zone and daylight saving time can also be set. See page 20 for details.

Setting the date and time using the SNTP server

The SNTP server (time distribution server) allows the adjustment of the date and time information in this unit automatically at constant intervals.

Note

The synchronization with the SNTP server may not be available depending on the security settings of the LAN accommodating this unit. Using an external SNTP server requires the router settings to be changed, etc. Refer to the instruction manuals for your router for details.

- 1 In the Web menu, click “Time”.
The “Time” window appears.

Setting Home > Time

Time

SNTP Server

Disable

Synchronization Interval 1 hour

1 day

1 week

Time Zone

Daylight Saving Time

- 2 In the “SNTP Server”, enter the name or IP address of the SNTP server to be used.
- 3 In the “SNTP Synchronization Interval”, select the desired interval for synchronization with the SNTP server.
- 4 Click “Submit”.
The setting is registered and the top of the Web menu reappears.

Editing the Address Book

Frequently used addresses can be registered in the Address Book of each system.

Registering a new address

1 In the Web menu, click “View/Edit Address Book”.

The “Address Book” window appears.

Setting Home > Address Book

Address Book

	NAME	Address		
1	IP Address Headquarter	192.168.100.100	<input type="button" value="edit"/>	<input type="button" value="del"/>
2			<input type="button" value="edit"/>	<input type="button" value="del"/>
3			<input type="button" value="edit"/>	<input type="button" value="del"/>
4			<input type="button" value="edit"/>	<input type="button" value="del"/>
5	IP Number Branch A	232	<input type="button" value="edit"/>	<input type="button" value="del"/>
6	Telephone Branch B	1234 5678	<input type="button" value="edit"/>	<input type="button" value="del"/>
7			<input type="button" value="edit"/>	<input type="button" value="del"/>
8			<input type="button" value="edit"/>	<input type="button" value="del"/>
9			<input type="button" value="edit"/>	<input type="button" value="del"/>

2 Click “edit” for the address you want to register.

The “Edit Address” window appears.

Setting Home > Address Book > Edit Address

Edit Address

	NAME	Address		
1	IP Address Headquarter	192.168.100.100		
2	SIP Address Conference Room 301A	sip:301A@192.168.100.100	<input type="button" value="Submit"/>	<input type="button" value="Reset"/>
3				
4				
5	IP Number Branch A	232		
6	Telephone Branch B	1234 5678		
7				
8				
9				

3 Enter the name of the destination to be registered in the “NAME” using up to 29 alphanumeric characters.

4 Select the type of the communication destination information to be registered.

- **SIP Address:** Select for registering SIP addresses.
- **Telephone:** Select for registering public switched telephone numbers.
- **IP Number:** Select for registering IP extension numbers (page 25).
- **IP Address:** Select for registering IP addresses.

5 Enter the address or phone number of the destination to be registered.

Enter the address of the type selected in step 3.

6 Click “Submit”.

The new address is registered in the address book, and the “Address Book” window reappears.

Notes

- Do not include the prefix to the IP address, telephone numbers, etc. you want to enter.
- The Address Book can register up to 50 addresses of communication destinations. The 50 addresses can include up to 16 IP addresses and up to 16 SIP addresses.
- If the destination ProjectPhone unit obtains the IP address from a DHCP server, its IP address may change from the last call. If your call cannot reach the destination unit registered in the address book, check the latest IP address configured at the destination unit.

■ To abort the registration

Click “Reset” in step 4.

Editing an existing address

1 In the Web menu, click “View/Edit Address Book”.

The “Address Book” window appears.

2 Click “edit” for the address you want to edit.

The “Edit Address” window appears.

3 Edit the information of the selected address, and then click “Submit”.

The updated address is registered in the address book, and the “Address Book” window reappears.

■ To delete the information a registered communication destination

Click “del” in step 2.

Using the SIP Server

Registering the SIP server information

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

Note

The settings described in this section are not required if this unit is used in an environment without a SIP server.

1 In the Web menu, click “SIP Server”.

The “SIP Server” window appears.

Setting Home > SIP

SIP

SIP Server: Disable Enable

SIP Server Name:

SIP Server Password:

SIP Address: sip: @

Cannot change the setting while on the phone. Please retry after the phone.

Database Status

Ready To Update

2 In the “SIP Server”, click “Enable”.

3 In the “SIP Server Name”, enter the name or IP address of the SIP server.

4 If password authentication is required for accessing the desired SIP server, enter the authentication password for the SIP server in the “SIP Server Password”.

5 In the “SIP Address”, enter the SIP address to be set to this unit.

Enter the SIP address in the format “sip:(sip address)”.

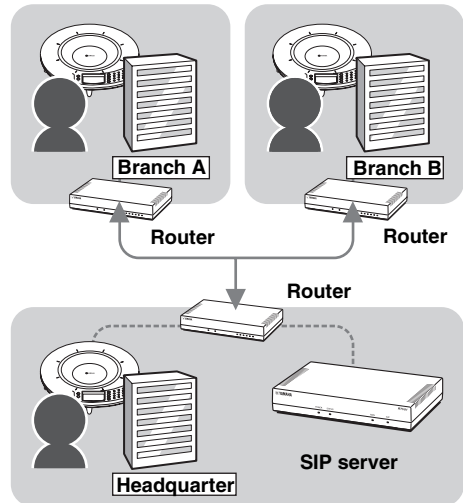
Example: sip:sipuser@yamaha.co.jp

6 Click “Submit”.

The setting is registered and the top window of the Web menu reappears.

Notes on SIP server operation

- To connect a call using the SIP server, the SIP address of this unit should be registered in the SIP server.
- It is not possible to establish a connection between a ProjectPhone system that uses the SIP address and a ProjectPhone system that uses the IP address.
- A global IP address should be assigned to the WAN on the router side.



■ Calling another unit by dialing the user ID

You can call the other party by dialing the user ID if it consists of only the numbers.

Example:

SIP address of this unit is

SIP: 200@server1.net,

and the other party is SIP: 201@server1.net

You can call the other party by simply dialing “201”.

Notes

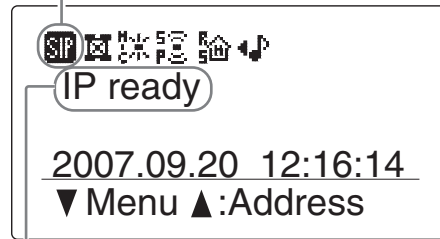
- You can call only the destination which belongs to the same domain as this unit.
- If you want to call another party which belongs to another domain, register its SIP address in the address book beforehand and call by using the address book.
- The prefix for the IP extension number is set to “8#” in the initial setting. But it is also permitted to set a prefix. See “Setting the prefix” (page 15) for details.

Display in SIP server operation

Initial display

When you use the SIP server, IP address of this unit does not appear in the initial display.

Lights up
when using the SIP server



“IP ready” or “Tel & IP ready” is displayed.

Display during a call

The SIP addresses of this unit and other units are displayed during the call.



SIP address of the destination unit

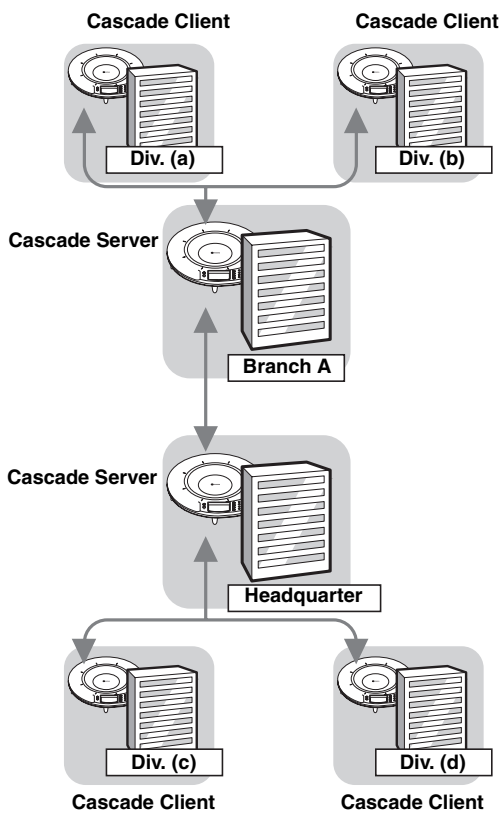
Other displayed information and speaker modes are identical to those in calls using the IP address. See page 7 in the “Basic Operation Guide” (a separate manual) for details.

Hierarchical Connection of Multiple ProjectPhone (Cascade Connection)

What is a cascade connection?

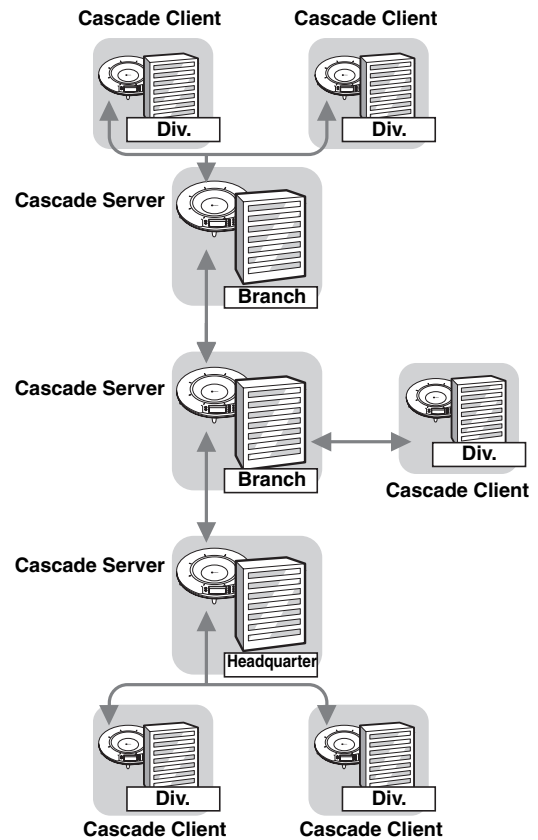
A cascade connection classifies the ProjectPhone to be involved in a call into the servers and clients, connects each client to a server and establishes the call by interconnecting the servers. While the maximum number of locations that can be connected in normal connection mode (mesh mode) is four, a larger number of locations can be connected by means of the cascade connection.

Example: Connecting the headquarter and branch A with a 2-location call and additionally connecting two divisions in two different locations to each of the headquarter and branch A.



■ The maximum number of locations in a cascade connection

Up to eight locations can be connected by means of the cascade connection. To establish the connection of eight locations, you need to connect the servers and clients as shown in the following figure.



Note

To use the cascade connection, all of the ProjectPhone involved in the call should be set to one of the cascade connection modes. A unit set to the normal connection mode (mesh mode) cannot be connected with a unit set to a cascade connection mode.

Configuring the cascade settings

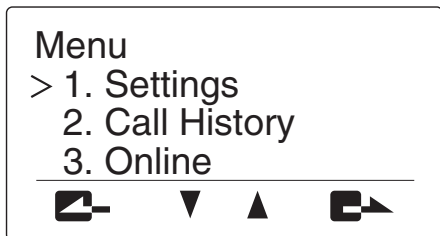
First configure the setting of the cascade server unit, and then configure the settings of the cascade client units.

■ Setup of the cascade server

1 Press repeatedly until the initial display appears.

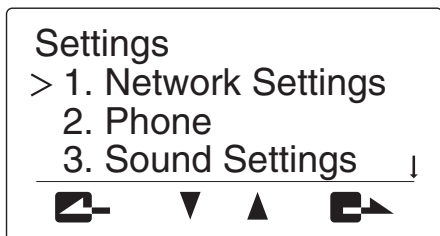
2 Press .

The menu screen appears.



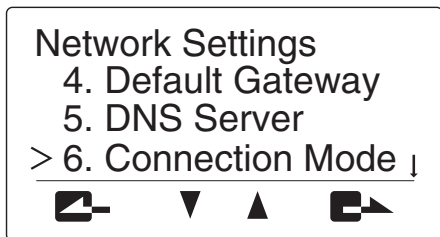
3 Press or to select “Settings”, and then press .

The “Settings” menu appears.



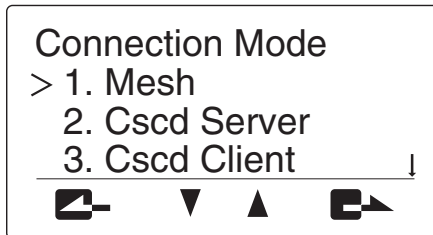
4 Press or to select “Network Settings”, and then press .

The “Network Settings” menu appears.



5 Press or to select “Connection Mode”, and then press .

The “Connection Mode” menu appears.



6 Press or to select “Cascade Server”, and then press .

The settings are saved.

Return to the initial display and check that is displayed at the top of the display.

■ Setup of the cascade clients

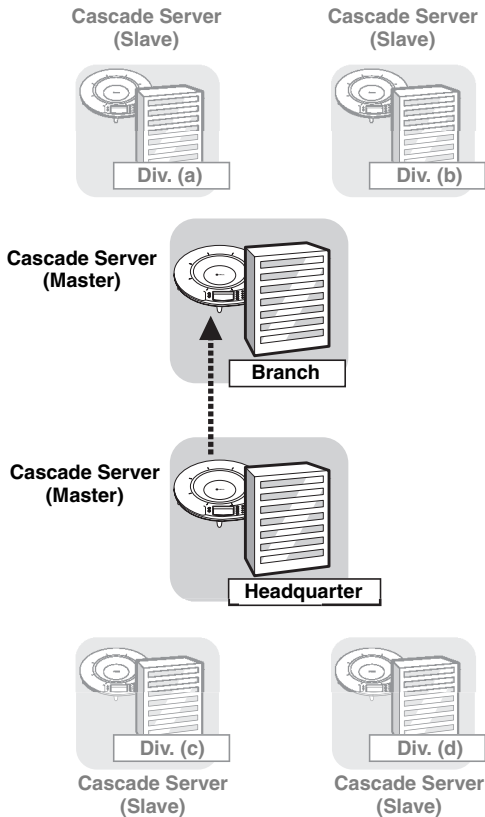
Follow the procedure in “Setup of the cascade server” above and select “Cascade Client” in step 6. After completing the setting, return to the initial display and check that is displayed at the top of the display.

Communication using a cascade connection

When the cascade connection is used, the calls can be placed using the following procedure.

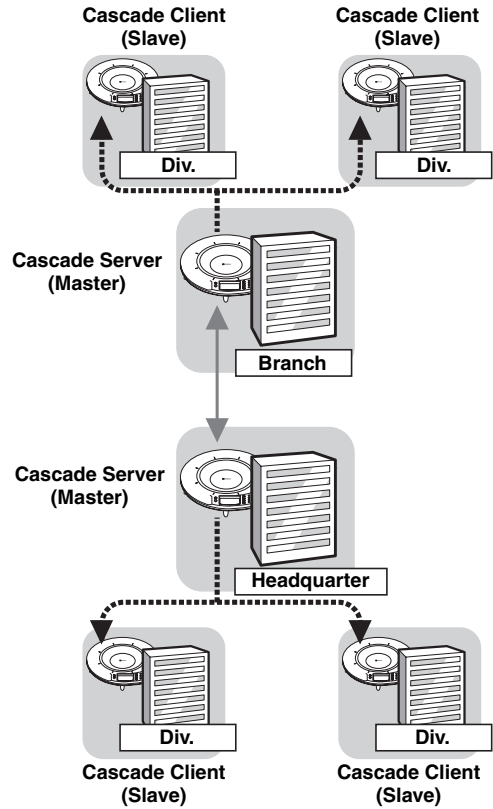
1 Call the master unit in another location from the cascade master unit.

The calling method is the same as ordinary calling. See page 7 in the “Basic operation guide” (a separate manual) for details.



2 After the communication is established, call each of the slave units connected to the Cascade master unit.

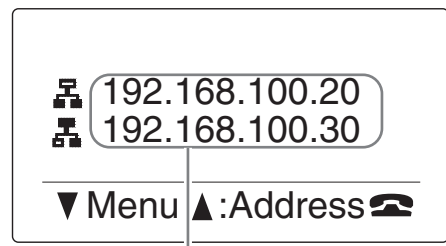
The calling method is the same as ordinary calling.



You can also call the slave units connected to the cascade master unit before calling the master unit in another location.

Display in cascade connection

The IP addresses of other units connected to this unit are displayed during a call.



IP address of other units

The mark displayed before each IP address indicates the cascade connection mode of each unit.

- : “Cascade Server”.
- : “Cascade Client”.

Interlocked Connection of ProjectPhone Systems

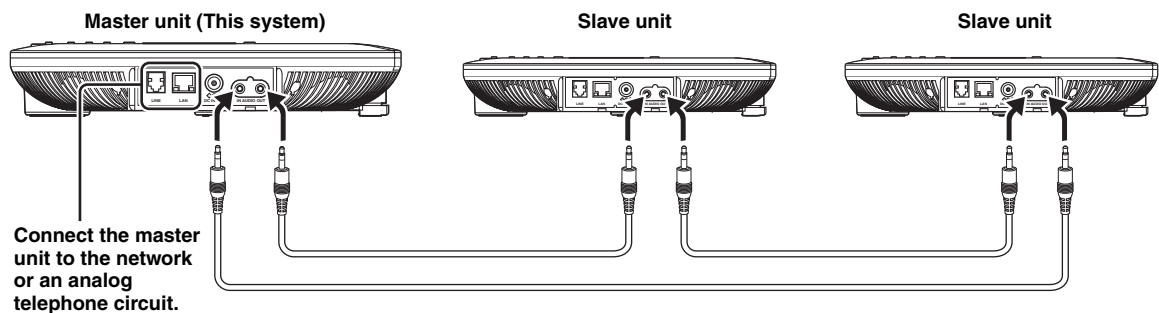
To have a meeting in a large conference room or with a large number of persons, some ProjectPhone systems can be connected as slave units to this system. The number of connectable systems varies depending on the installation environment.



- In an interlocked connection of the ProjectPhone systems, allow a distance of at least 2 meters between them.
- Set the “Room Size” to “Small” for an interlocked connection.
- If echo or howling is produced, install the ProjectPhone systems at larger distances or decrease their volumes.
- To avoid the echo or howling, set the volume level setting of each Project Phone system to the same level.

■ Connection

Using stereo mini-plug cables, connect the AUDIO OUT terminal of each ProjectPhone system to the AUDIO IN terminal of another ProjectPhone system. The following illustration shows an example of an interlocked connection of three ProjectPhone systems including this system.



■ Setup of the Master unit

Set “External Input/Output” to “Connection (Master)”.

The display shows

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “External I/O” → “Connection(mstr)”.

Using the Web menu

In the Web menu, select “External Input/Output” → “Connection (Master)”.

■ Setup of the Slave units

Set “External Input/Output” to “Connection (Slave)”. The display shows

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “External I/O” → “Connection(slv)”.

Using the Web menu

In the Web menu, select “External Input/Output” → “Connection (Slave)”.

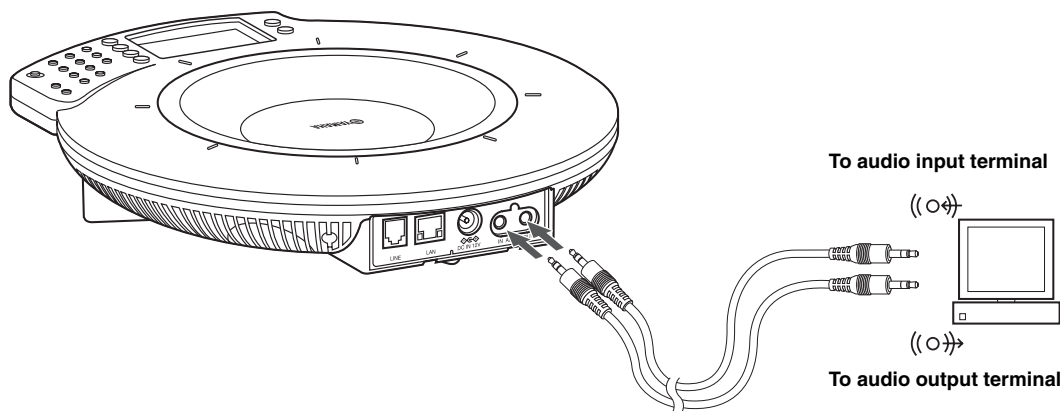
Connection Using Audio Connection Cables

This system can be used as a high-performance, high-quality microphone/speaker unit when it is connected to a PC or TV conference system with an audio cable.

Connecting with a PC or TV conference system

■ Connection


Prepare two commercially available audio connection cables (stereo mini-jack cables).



1 Connect the **AUDIO IN** jack of this unit to the audio output terminal of the PC or Video Conference system.

2 Connect the **AUDIO OUT** jack of this unit to the audio input terminal of the PC or Video Conference system.

■ Setup of this unit

Set “External Input/Output” to “Audio”. The display shows .

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “External I/O” → “Audio”.

Using the Web menu

In the Web menu, select “External Input/Output” → “Audio”.



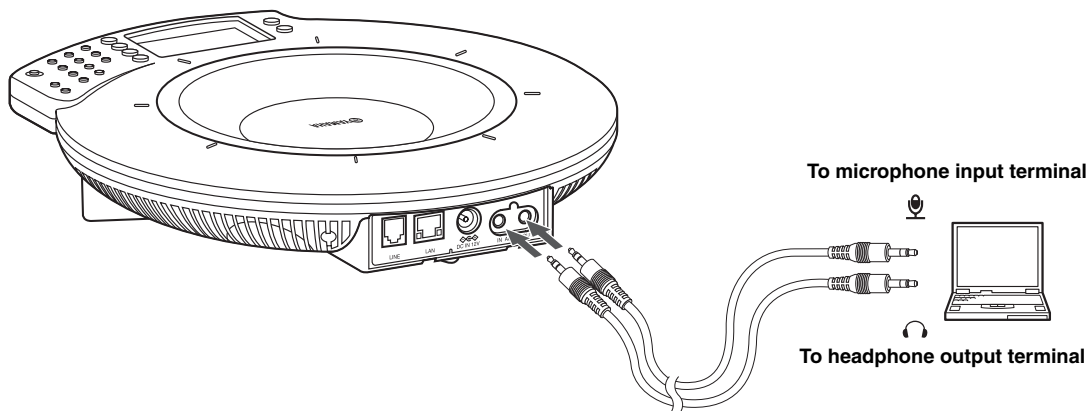
- The audio may be distorted or too low in certain operating environments. In such a case, adjust “Audio Input” and “Audio Output” in the “Audio Fine Adjustment” menu. For details, see page 19.
- Change the settings of the audio input/output of the connected PC and TV conference system in advance. See “Setting of PC” (page 32) for the settings of the audio input/output of PCs.
- The designs of the line input/output terminals of TV conference systems vary depending on the models. Always use audio connection cables having the plugs matching the line input/output terminals of the connected TV conference system. Note that the plugs connected to the ProjectPhone system of the audio connection cables should always be the stereo mini-plugs.

Connection of the headphone output and microphone input terminals

If your PC or TV conference system does not have the line input/output terminals, it can be connected to this system using the headphone output and microphone input terminals.

■ Connection

Prepare two commercially available audio connection cables (stereo mini-jack cables).



1 Connect the **AUDIO IN** jack of this unit to the headphone output terminal of the PC.

2 Connect the **AUDIO OUT** jack of this unit to the microphone input terminal of the PC.

3 Set the “Audio Fine Adjustment” and “External Input/Output” menus.

■ Setting the “Audio Fine Adjustment” menu

Set the “Audio Output” between -6.0 and -12.0 dB.

Using the keys on this unit

From the initial display, select “Menu” → “Settings” → “Sound Settings” → “Volume Fine Adj” → “Audio OUT”.



The audio Adjust the volume using ▲ and ▼.

■ Setup of this unit

Set “External I/O” to “Audio”. The display shows .

Using the keys on this unit

From the initial display, select “Menu” → “Settings” → “Sound Settings” → “External I/O” → “Audio”.

Using the Web menu

Open the “Web Settings Page” and select “External Input/Output” → “Audio”.



- The audio may be distorted or too low in certain operating environments. In such a case, adjust “Audio Input” and “Audio Output” in the “Audio Fine Adjustment” menu. For details, see page 19.
- Change the settings of the audio input/output of the connected PC and TV conference system in advance. See “Setting of PC” (page 32) for the settings of the audio input/output of PCs.

Setting of PC

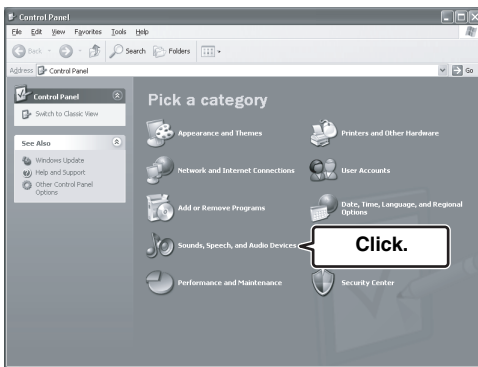
The PC settings should be changed so that the audio input from this unit to the PC is not output to this unit. It is necessary to change the setup so that the audio input from the connected terminal is accepted.

Note

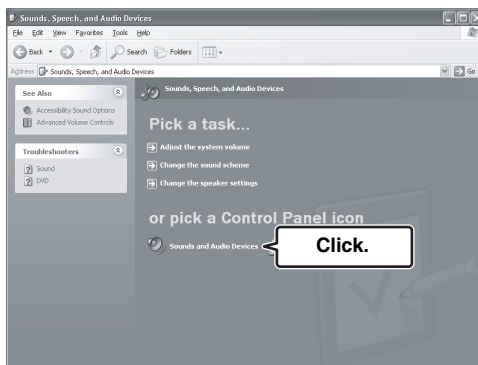
The options of Sound and Audio Devices Properties may differ depending on the PC. When different from the following instruction, refer to the instruction manuals of your PC or the sound card installed to your PC, and set the parameters as follows.

1 Click “Start” on the task bar, point to “Settings”, and click “Control Panel”.

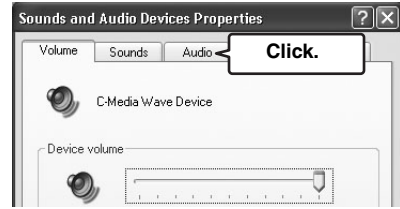
2 Click “Sounds, Speech and Audio Devices”.



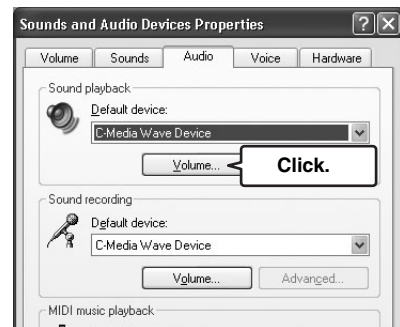
3 Click “Sounds and Audio Devices”.



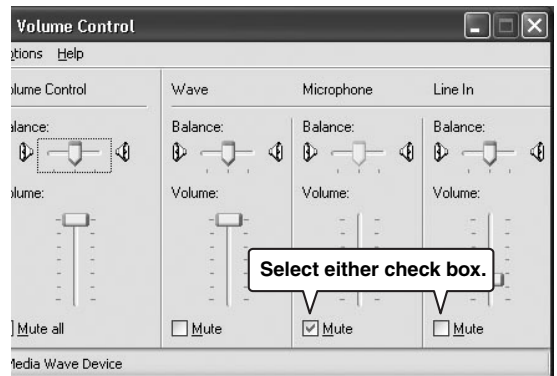
4 Click the “Audio” tab.



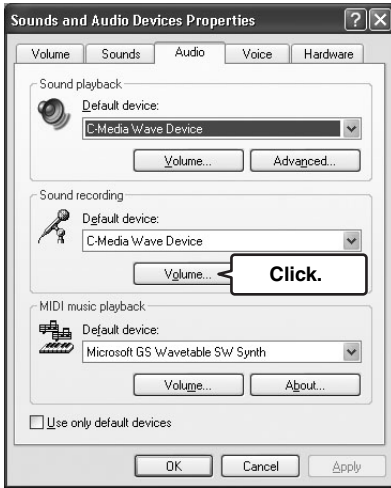
5 In the “Sound Playback” field, click “Volume...”.



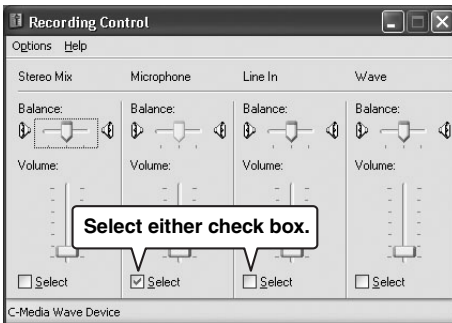
6 In the “Line In” field, click “Mute” to check it.



- 7 In the “Sound recording” field, click “Volume...”.



- 8 Select the input audio according to the connection method.



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 install the firmware. One way is to connect to the Internet using this unit and automatically install the latest firmware. The other way is to download the firmware to your PC and install it manually (page 36).

Software Licensing Agreement

To use the revision upgrading function, you must accept the following 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 IP audio 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 for the purpose of upgrading the functions of this product. Uploading or posting this program at a website accessible by the general public is prohibited unless you have permission from Yamaha.

3 Production of duplicates

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

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

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.

Updating the firmware automatically

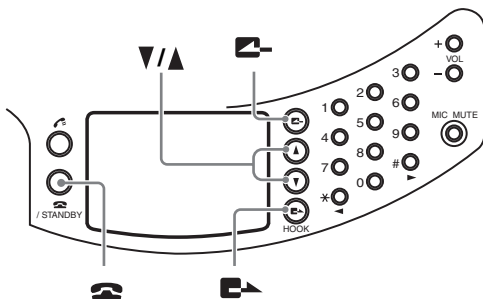
Follow the procedure below to install the latest firmware automatically.

Notes

- Automatic firmware update can be performed only if this unit is connected to the Internet. If connection is not possible, follow the procedure in “Updating the firmware manually” (page 36).
- Once the firmware update is started, do not perform any other operation until the update operation is completed and this unit is restarted. If the update operation is interrupted, this unit may become unusable, in which 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 ongoing calls are disconnected at this time.
- Do not unplug the power cable during the firmware update. Otherwise, this unit could become unusable, in which case you need to return this unit to the factory for repairs.



You can also specify the URL from which the firmware is downloaded (page 36).



1 Press repeatedly until the initial display appears.

2 Press .

The menu display appears.

3 Press or to select “Settings”, and then press .

The “Settings” menu appears.

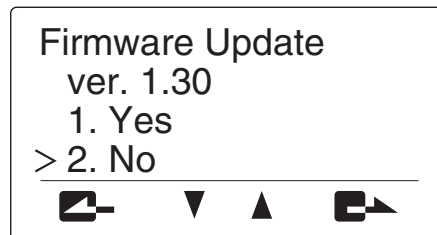


4 Press , and then press or to select “Firmware Update”.



5 Press .

The “Firmware Update” menu appears.



6 Press or to select “Yes”, and then press .

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

■ **To cancel the firmware downloading**
In step 5, press .

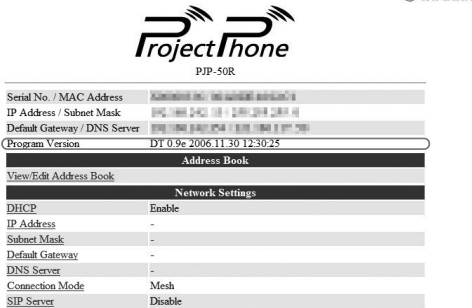
It takes about a minute for the revision updating operation.

MIC MUTE (orange LED) on the top panel of this unit flashes during the firmware update process. Do not turn this unit off while MIC MUTE (orange LED) is flashing.

When the firmware update is complete

This unit restarts automatically.

Check the version number in the “Program Version” on the top of the Web menu to confirm that the new firmware has been installed properly.

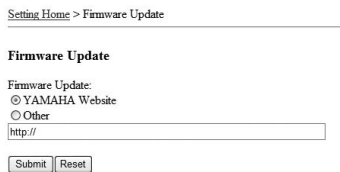


■ Specifying the URL from which to download the firmware

This feature is useful if you want to manage the firmware version used by the ProjectPhones in your office.

1 Click “Firmware Update” in the Web menu.

The “Firmware Update” window appears.



2 Select “Other”, and then enter the URL to be connected for updating the firmware.

3 Click “Submit”.

The URL that is connected when this unit carries out the firmware update automatically is changed.

To use the latest firmware at all times

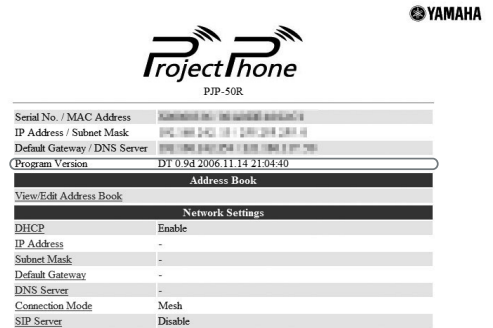
In step 2, select “YAMAHA Website”.

Updating the firmware manually

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

■ Confirming the current version number

Check the “Program Version” on the top of the Web menu.



■ Downloading the latest firmware to your PC

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

ProjectPhone website:

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

■ Installing the firmware to this unit

Follow the procedure below to install the firmware to this unit.

1 Press repeatedly until the initial display appears.

2 Start “Command Prompt” in the Windows PC which can access the Web menu of this unit.

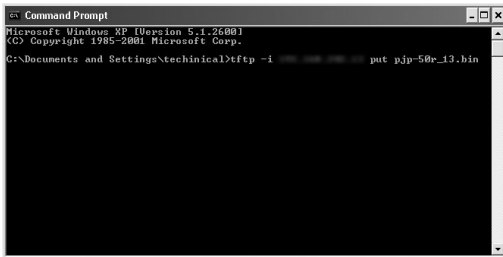
When using Windows XP, select the “Start” menu → “All Program” → “Accessories” → “Command Prompt”.

3 Enter and run the following command.


tftp -i [IP address of this unit] put [file name of the firmware]

Example:

```
tftp -i 192.168.100.200 put pjp50r_13.bin
```




Set the directory containing the firmware as the current directory before executing the above command.

4 When the system shows the revision upgrading confirmation message, press .

The revision upgrading operation will start.

■ To cancel the firmware update

In step 4, press .

It takes about a minute for the revision updating operation.

MIC MUTE (orange LED) on the top panel of this unit flashes during the firmware update process. Do not turn this unit off while MIC MUTE (orange LED) is flashing.

When the firmware update is complete

This unit restarts automatically.

Check the version number in the “Program Version” on the top of the Web menu to confirm that the new firmware has been installed properly.



Serial No. / MAC Address	XXXXXXXXXX-XXXXXXXXXXXXXXXXXX
IP Address / Subnet Mask	192.168.100.200 / 255.255.255.0
Default Gateway / DNS Server	192.168.100.1 / 192.168.100.1
Program Version	DT 0.9c 2006.11.30.12:30:25
Address Book	
View/Edit Address Book	
Network Settings	
DHCP	Enable
IP Address	-
Subnet Mask	-
Default Gateway	-
DNS Server	-
Connection Mode	Mesh
SIP Server	Disable

Notes

- Once the firmware update is started, do not perform any other operation until the update operation is completed and this unit is restarted. If the update operation is interrupted, this unit may become unusable, in which 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 ongoing calls are disconnected at this time.
- Do not unplug the power cable during the firmware update. Otherwise, this unit could become unusable, in which case you need to return this unit to the factory for repairs.

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 your nearest authorized YAMAHA dealer or service center.

First, check if the microphone indicators light up. If the indicator is turned off, see “Q1: LED indicators do not light up” below. For other cases, refer to one of the following pages according to the problem.

- “Q2: Web menu setting is not available” (pages 39)
- “Q3: A call cannot be made” (pages 40)
- “Q4: Other problems” (pages 41)

Q1: LED indicators do not light up

Problem	Cause	Remedy	
The microphone indicators do not light up.	This unit is not turned on.	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.		If another electrical appliance also cannot be turned on, have the power outlet or power wiring serviced.
			If another electrical appliance can be turned on, have this unit serviced.
	The microphones are muted (the MIC MUTE LED lights up).	Press MIC MUTE so that the MIC MUTE LED is turned off.	

Q2: Web menu setting is not available

Problem	Cause	Remedy
The Web menu cannot be opened.	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 42), 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 clear the "Use proxy user" check box.
	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).	Enter the master password (page 21)
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 designating the IP address cannot cross a firewall. If you want to change the calling method to SIP, consult your system administrator.	
	A network fault occurred.		Wait until the fault is released.
			Consult your system administrator.
	The connection mode settings of this unit and the other unit are different.	A unit in the mesh connection mode cannot communicate with a unit in a cascade connection mode. Set the two units to the same connection mode (page 14).	
	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 15).	
	The SIP address in the address book is incorrect.	Register the correct SIP address (page 23).	
	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.	
	The Dial Type setup of this system differs from the actual type of the telephone line.	Check the telephone line type and set the Dial Type setup of this system accordingly.	
This unit is connected to an incompatible telephone circuit (digital circuit, etc.).	Consult the manager of your telephone circuit.		
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 designating the IP address cannot cross a firewall. If you want to change the calling method to SIP, consult your system administrator.	
	A network fault occurred.		Wait until the fault is released.
		Consult your system administrator.	

Problem	Cause	Remedy
A call cannot be received.	The connection mode settings of this unit and the other unit are different.	A unit in the mesh connection mode cannot communicate with a unit in a cascade connection mode. Set the two units to the same connection mode (page 14).
	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 15).
	The SIP server is not running.	Consult your system administrator.
	This unit is connected to an incompatible telephone circuit (digital circuit, etc.).	Consult the manager of your telephone circuit.
The audio from the other unit cannot be heard.	The microphones are muted on the other unit.	Cancel mute on the other unit.
The audio is interrupted.	The required bandwidth is not reserved.	Check that the bandwidth required for communication is reserved (pages 4 and 46).
	A network fault occurred.	Wait until the fault is released. Consult your system administrator.
	The LAN cable or modular cable is not connected properly.	Check that the LAN cable or modular cable is connected firmly.
	The setting of the codec is not proper.	Set the codec properly (page 19).

Q4: Other problems

Problem	Cause	Remedy
The audio output is delayed.	The required bandwidth is not reserved.	Check that the bandwidth required for communication is reserved (pages 4 and 46).
This unit generates feedback noises.	This unit is located against a wall.	Locate this unit at a certain distance from a wall.
	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 by avoiding the positions in front of the microphones. Avoid talking with a loud voice to reduce reverberations. Change the Room Size setup (page 18).
I forgot the password.		Enter the master password (page 21)
The clock setting has been cleared.	The built-in battery for clock information is dead.	Consult your nearest authorized Yamaha dealer or service center.

Resetting this Unit

You can restore the factory settings of this unit.

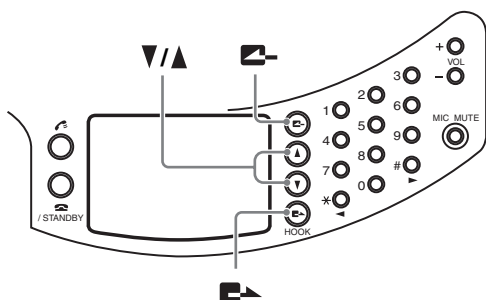
Notes

Before restoring the factory settings, note the following.

- All of the settings that have default settings are set to the default settings.
- Once the factory settings are restored, the previous settings made by the user cannot be recalled.

■ Resetting using the keys on this unit

Follow the procedure below to restore the factory settings using the keys on this unit.



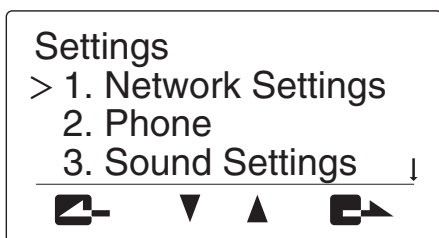
1 Press repeatedly until the initial display appears.

2 Press .

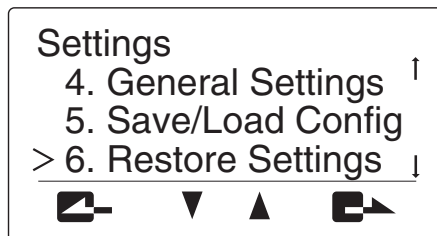
The menu screen appears.

3 Press or to select “Settings”, and then press .

The “Settings” menu appears.



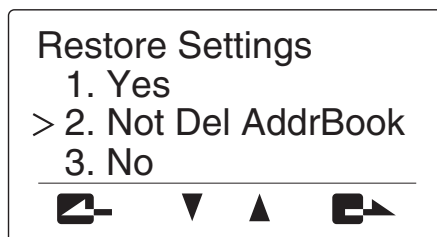
4 Press or to select “Restore Settings”.



If you forgot the password, enter the master password (page 21).

5 Press .

The “Restore Settings” menu appears.



6 Select “Yes” or “Leave Address Book” and press .

The setups of the system are reset, and this unit restarts automatically.



If you select “Leave Address Book”, the data in the Address Book is retained.

■ To cancel resetting

In step 5, press , or press or to select “No” and then press .

■ Resetting using the Web menu

Follow the procedure below to restore the factory settings using the Web menu.

1 In the Web menu, click “Restore Factory Setting”.

The “Restore Factory Setting” window appears.



2 Click “Restore Factory Setting” or “Restore Factory Settings without deleting an address book”.

The setups of the system are reset, and this unit restarts automatically.



If you select “Restore Factory Settings without deleting an address book”, the data in the Address Book is retained.

Obtaining the Setting Information for Support on this Unit

You can download the setting information and save them in your PC for reference when a problem occurs.

Note

These files are used for support and cannot be opened or edited using normal applications.

Obtaining the setting information

You can download the setting information of this unit and save it in your PC.

1 Click “Download Setting Information” in the Web menu.

The “Download File” window appears.

2 Click “Save”.

The “Save File” window appears.

3 Specify the file name and the place to be saved, and then click “Save”.

The setting information is saved in your PC.

Confirming the System Log Message of This Unit (Syslog)

You can send information or an event which occurs in the system of this unit to another unit as a message (this is called “syslog”). “Syslog” contains information such as the start/shutdown of this unit, the login, the activity in normal states, and the states of an error. You can specify the level of the message if necessary.

1 In the Web menu, click “Syslog Setting”.

The “Syslog” window appears.

Setting Home > Syslog

Syslog

Debug Mode
 Info Mode
 Notice Mode

Syslog Network Output Enable
 Disable

Syslog Host Address 0 0 0 0

Submit Reset

2 Select the desired mode(s) which specifies the kind of the message that is sent and click.



You can select the check boxes of multiple modes.

- **Debug Mode:** Sends the debug log to confirm the inner activity when an error occurs.
- **Info Mode (Default):** Sends the operation log such as the event or states of the activity of this unit.
- **Notice Mode:** Sends the details of the operation log when this unit is in the normal state.

3 In the “Syslog Network Output”, click “Enable”.

4 In the “Syslog Host Address”, enter the host IP address of the destination unit.

5 Click “Submit”.

The Syslog message specified in step 2 is sent to the host address specified in step 4.

Specifications

General

- Dimensions (W x H x D) 283 mm x 53.6 mm x 297.5 mm
(11.1 in. x 2.1 in. x 11.7 in.)
- Weight (excl. AC adapter) 1.4 kg
(3.1 lbs)
- Power supply 100 to 240 V AC (50/60 Hz)
- Power consumption Approx. 8 W

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

LINE interface

- Connector RJ-11

Audio input/output interfaces

- Stereo analog input/output (1 each)
- Connectors Mini-jacks

Audio

- Arrayed microphones (directivity controlled)
- Zone audio pickup function
- Spot audio pickup function
- Microphone auto tracking function

Signal processing

- 3CH adaptive echo canceller
- Microphone/speaker array control
- Microphone gain control

Communications

- Connected locations
 - Max. 4 locations, in the mesh connection mode
 - Max. 8 locations, in the cascade connection mode
- Audio codec/frequency response (also refer to the table below)
 - G.711 extension original system (fs = 16 kHz)/300 Hz - 7 kHz
 - G.711 (μ-law)/300 Hz - 3.4 kHz
 - G.711 (A-law)/300 Hz - 3.4 kHz
 - G.726-32/300 Hz - 3.4 kHz
- DHCP and SIP compliance
- Time synchronization using the SNTP server
- Port number for SIP 5060 (UDP)
- Port number for RTP/RTCP 57000 to 57010 (UDP)

Accessories

- AC adapter (PJP-PS01) x 1
- Power cable x 1
- LAN cable x 1
- Modular telephone cable x 1
- Owner's manual <Setup Guide> (this manual) x 1
- Owner's manual <Basic Operation Guide> x 1
- Warranty card 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 and STP (Shielded Twisted Pair) cable.

*Specifications are subject to change without notice.

Transmission bandwidth requirement of the system

	Transmission bandwidth (2-location call)	Transmission bandwidth (3-location call)	Transmission bandwidth (4-location call)
G.711 Extension	160 kbps for each of uplink and downlink	320 kbps for each of uplink and downlink	480 kbps for each of uplink and downlink
G.711 μ-law /A-law	90 kbps for each of uplink and downlink	180 kbps for each of uplink and downlink	270 kbps for each of uplink and downlink
G.726-32	60 kbps for each of uplink and downlink	—	—

Notes on Transferring/Disposing this Unit

The settings stored in this unit include personal information such as the address book or call history data. If this unit is transferred or disposed without restoring the factory settings, information may be abused by a third party. For instructions on how to restore the factory settings, see “Resetting this Unit” (page 42).

Note

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

This owner's manual is based on the latest version of the firmware as of October 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 toute dernière version du micrologiciel, celle d'octobre 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/>

Dieses Benutzerhandbuch basiert auf der neuesten Version der Firmware vom Stand Oktober 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/>

