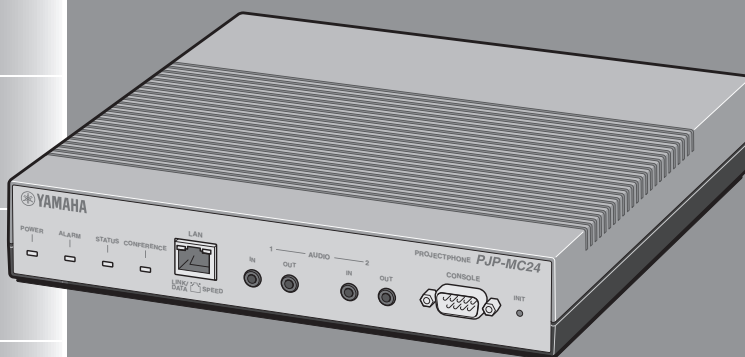




# PJP-MC24

Multipoint Audio Control Unit

*ProjectPhone*



Introduction

Getting Started

Setting up a  
Conference

Starting a Conference  
with a Reservation

Starting a Conference  
without a Reservation

Performing Device  
Maintenance

Troubleshooting

Appendix

## Instruction Manual

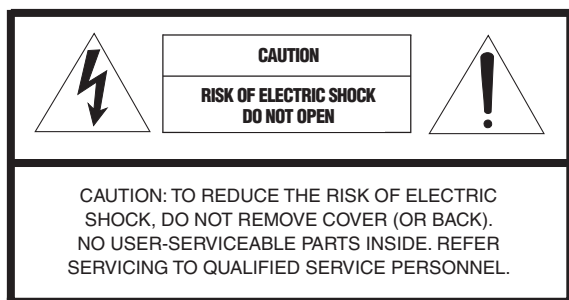
Thank you for purchasing Yamaha PJP-MC24.

Read this manual thoroughly in advance to correctly install and configure the PJP-MC24.

Be sure to observe the warnings and cautions in this manual and use the PJP-MC24 safely.

Keep this manual in a safe place.

# 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 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, bend 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 Do not install this product upside down or in upright position, or mount it on a wall.** Install the product on a stable, flat surface by orienting it horizontally.
- 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-MC24

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](http://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.

# 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 units.
- 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, turn the power off, and disconnect the AC power plug from the wall outlet.
- 17 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave the unit alone.
- 18 When using the unit for a long time, the unit may become warm. Turn the power off, then leave the unit alone for cooling.
- 19 Install this unit near the wall outlet and where the AC power plug can be reached easily.

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

## FOR CANADIAN CUSTOMERS

To prevent electric shock, match wide blade of plug to wide slot and fully insert.

This Class A digital apparatus complies with Canadian ICES-003.

## WARNING

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

## WARNING

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

## WARNING

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

## ■ For U.K. customers

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

### Note

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

## ■ Special Instructions for U.K. Model

### WARNING-THIS APPARATUS MUST BE EARTHED. IMPORTANT

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

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.

# Read This First

Thank you for purchasing this product.

The PJP-MC24 is a Multipoint Audio Control Unit designed exclusively for use with YAMAHA's IP audio conference system "ProjectPhone."

## Please Check the Package Contents.

- LAN cable (1 pc.)
- CD-ROM (1 pc.)
- Instruction Manual (this manual, 1 pc.)
- PJP-MC24

## In This Manual

### Connecting to a network

- Preparing to connect to a network ..... ▶ Page 14

### Holding a conference

- Setting up a Conference ..... ▶ Page 31
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- Yamaha Customer Support ..... ▶ Page 86

#### Note

- This manual contains information about the fundamental features of this product.
- See the built-in Web interface help for more detailed information. Use the web help as necessary.

This document also contains many more information.  
Refer to the table of contents for details.

Refer to page ▶ 6

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# Notations Used in This Manual

## Abbreviations

The following product names are abbreviated throughout the manual.

- YAMAHA PJP-MC24: This product
- IP Phone Conference System PJP-100H, PJP-50R: ProjectPhone
- Microsoft® Windows®: Windows
- 10BASE-T (100BASE-TX) cable: LAN cable

## Configuration examples

Examples of configured items such as IP addresses, domain names, and URLs, are only being used to help clarify explanations. When configuring this product, set up the configuration based on the actual network that this product will be connected to.

## Technical terms and understanding

Users need to have extensive knowledge of networks and the Internet to use this product properly. The manuals included with this product do not provide this knowledge. For more information please refer to commercial guides and reference books.

## Trademark acknowledgments

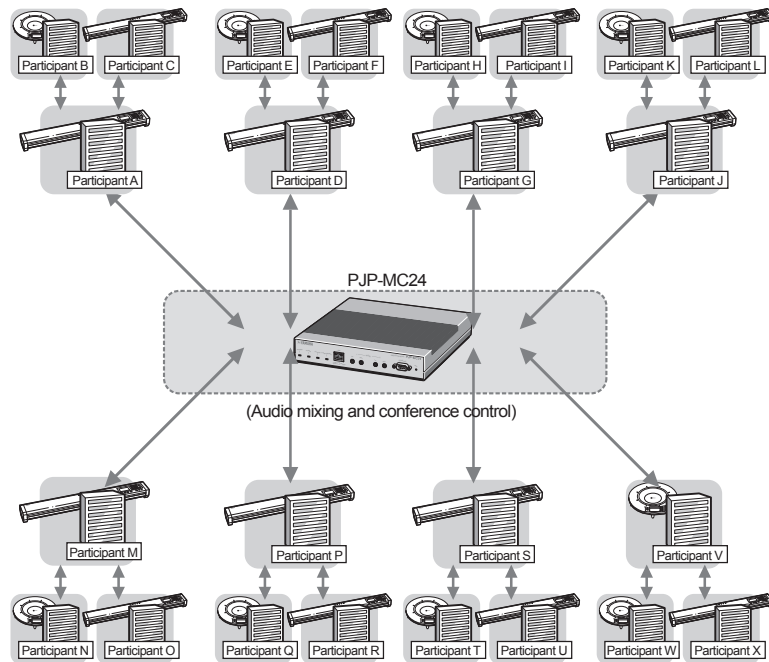
- Ethernet is a registered trademark of Xerox Corporation.
- Microsoft, Windows, and Microsoft Excel are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.



# About the Product

The PJP-MC24 is a Multipoint Audio Control Unit designed exclusively for use with YAMAHA's IP phone conference system "ProjectPhone."

It manages terminal address information and routes calls between terminals. It also manages conference schedules and automatically establishes connections between terminals for conferencing. Equipped with the digital mixing function, the PJP-MC24 enables a voice conference with multiple participants by connecting up to 24 ProjectPhones (or up to 96 ProjectPhones if four PJP-MC24 units are linked).



## Manages address information and routes calls between terminals

This product manages the address information of individual terminals and routes connection requests to the appropriate recipients. Even when a terminal's address is not fixed (i.e. the address is assigned dynamically by DHCP), it can always be accessed using the same dialing number. Also, even when calls are made directly between terminals, this product functions as a SIP server and records information about the calls.

## Digital mixing function

Equipped with the digital mixing function, this product is able to connect eight ProjectPhones. By connecting two PJP-MC24 units to each ProjectPhone, up to 24 ProjectPhones can be connected for a voice conference with multiple participants.

## Link function that supports conferences of varying scales

The link function can be used to connect up to four PJP-MC24 units. When four PJP-MC24 units are connected, four conferences, each with 24 participants, can be held simultaneously, or one conference with 96 participants can be held.

## **Multi-participant voice conference based on interconnection of ProjectPhones**

By using the mixing function of the ProjectPhone instead of the digital mixing function of the PJP-MC24, up to 30 voice conferences can be held simultaneously, each with 10 participants, independent of conferences that are held using the mixing function of the PJP-MC24. The audio data traffic is processed directly between each terminal so that the traffic load never concentrates on a specific participant location.

## **Enables automated conferencing with conference management functions and remote control**

If you make a conference reservation by selecting the participants and setting the conference time, this product automatically constructs a conference network by calling up and connecting to all of the participants' ProjectPhones. The participants at each location can join in the conference immediately without bothering to operate their ProjectPhones. The ad hoc conference function allows up to 10 participants to join a conference without a reservation, to hold a casual conference where the participants can discuss the topics freely in an open space.

## **Audio port**

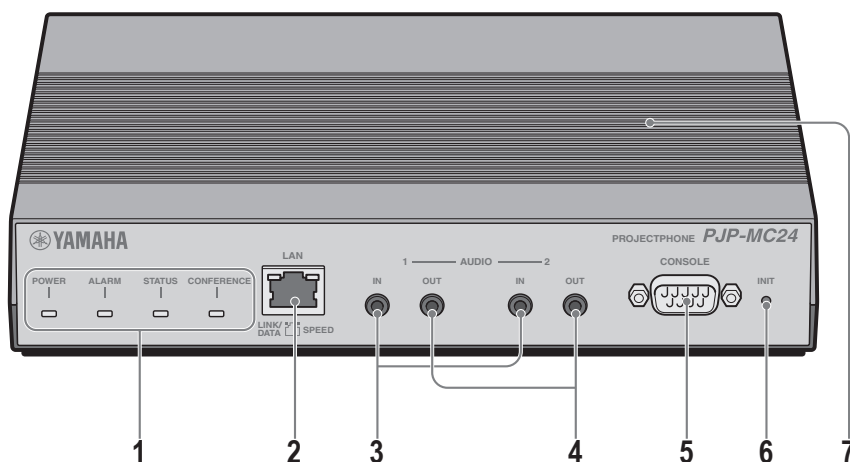
You can also connect an audio device to the audio port on the front panel of the PJP-MC24 to allow the audio device to join the voice conference. Devices equipped with a general audio interface, such as mobile phones, third-party conference systems and PCs, can be connected.

## **Easy to operate**

- You can configure this product using its built-in Web interface (GUI screen). Not only can you use a Web browser on the PC to configure this product, you can also monitor active conferences and conference participants in real time.
- This product's front panel indicator LEDs indicate connection problems as well as call and conference status.

# Component Names and Functions

## Front



### 1. LED

Indicates the product's operating status.

- **POWER:** Indicates whether or not the product is on. Lights when the PJP-MC24 is on.
- **ALARM:** Indicates the status of the product. Lights when an error of high priority, such as a firmware error or memory error, is present.
- **STATUS:** Indicates the communication status of the product.
- **CONFERENCE:** Indicates the conference status. Lights when a conference is in session.

### LED States

Basic indicator LED lighting patterns are listed below. For more information, see "Q1: When LEDs are off or blinking" (page 78).

● On    ○ Off

### POWER LED

- The power is on.
- The power is off or the product is not receiving power.

### ALARM LED

- The product is experiencing an error of high priority.
- The product is not experiencing an error of high priority.

### STATUS LED

- There is a problem with the network.
- The network is functioning normally.

### CONFERENCE LED

- A conference is in session. Lights if even one conference is in session.
- A conference is not in session.

## 2. LAN port

For connecting the product to network equipment (such as a personal computer, router or hub) with a LAN cable.

A LINK LED (left side) and a SPEED LED (right side) are above every LAN port.

- **LINK LED:** The LINK LED blinks if data is being sent and lights if a link has been established. If the LINK LED is off, there is no link.
- **SPEED LED:** The SPEED LED does not light when 10BASE-T is used and lights when 100BASE-TX is used.

## 3. AUDIO IN terminal

Connect this terminal to the line output terminal on an audio device or PC.

## 4. AUDIO OUT terminal

Connect this terminal to the line input terminal on an audio device or PC. You can connect a commercial IC recorder to record voice during a conference.

## 5. CONSOLE port

Connect the RS-232C terminal (serial connector) on a PC if you want to change the settings of this product or when you forget your password. For more information, see "Changing Settings from the CONSOLE Port" (page 74) or "If You Forget Your Password" (page 85).

## 6. INIT switch

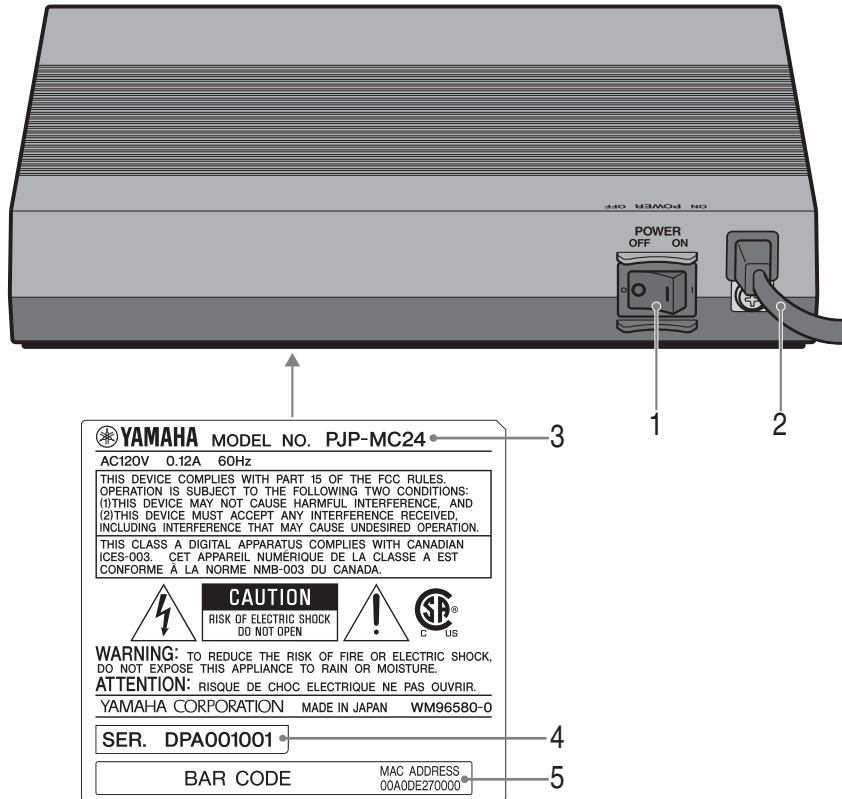
You can revert your PJP-MC24 to the factory settings by turning on the power while pressing this switch.

For details, see "Initializing the PJP-MC24" (page 84).

## 7. Vent holes

Help to prevent overheating.

## Rear/bottom



### 1. POWER switch

Turns the power on and off.

### 2. Power cord

### 3. Device name

Indicates the product name.

### 4. Serial number

Indicates the serial number. The serial number is used to identify and manage the product.

### 5. MAC address

Indicates the unique network ID number for this product's LAN port.

# Setup Flowchart

Follow these steps to prepare the product for use.

## Connecting the product to a network

### Step 1

**Connect the product to the host network and turn the power on.**

► Page 16



### Step 2

**Accessing the Web interface.**

► Page 17



### Step 3

**Set passwords for the product.**

► Page 19



### Step 4

**Set the date and time.**

► Page 21



### Step 5

**Configure basic network settings.**

► Page 23



## Setting up a Conference

Configure conference participant settings, register ProjectPhone information, etc. For more information, see “Configuration Flowchart.”

► Page 31

# Prepare the Following Before You Begin

## LAN cable

Obtain a LAN cable compatible with 10BASE-T or 100BASE-TX and make sure the cable is long enough to cover the distance to the host network.

If you use a commercially available LAN cable, select a STP (Shielded Twisted Pair) cable.

\*This is only applied when used in European region.

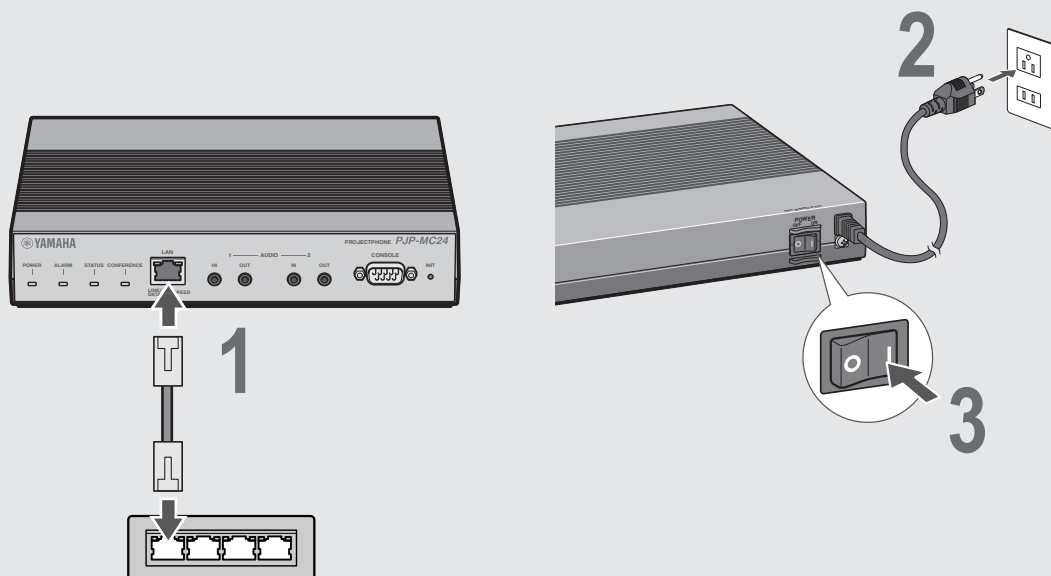
## Network information

Obtain or determine the following information prior to the installation of this product.

- The administrator password set for this product
- IP address set for this product
- The LAN default gateway and DNS server IP address

## Step 1

# Connecting the PJP-MC24



- 1** Connect the LAN ports of the host network and PJP-MC24 using a LAN cable.
- 2** Connect the PJP-MC24 to an AC outlet.
- 3** Flip the **POWER** switch on the PJP-MC24 to **ON** to turn on the power.  
After all of the LEDs turn on, they will all go off except for the POWER LED.



## Step 2

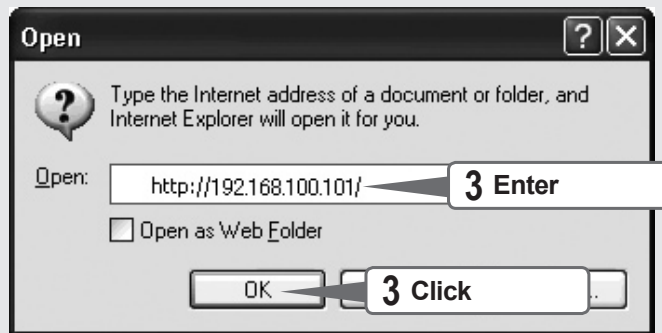
# Accessing the Web interface

Configure the PJP-MC24 by connecting it to a PC and using a Web browser to access the PJP-MC24 Web interface.

You can access the Web interface by following the steps outlined in this section.

### Note

To access the Web interface, you need to use a Web browser equivalent to Windows Internet Explorer 6.0 or later.



1

Confirm that the product is on.

2

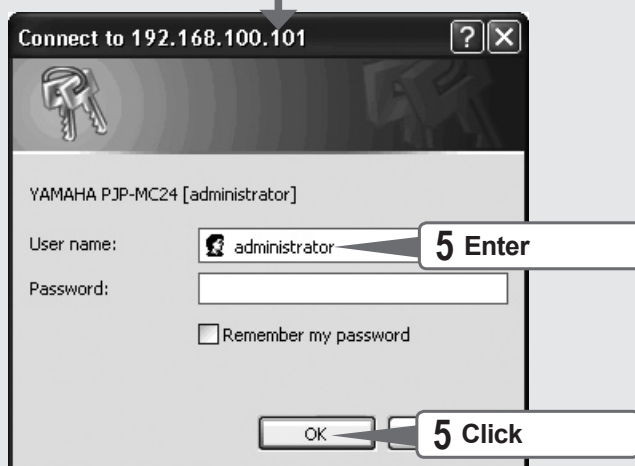
Open a Web browser on the PC and click **Open** on the **File** menu.

3

Enter “http://192.168.100.101/” using single-byte alphanumeric characters, and click **OK**.

The Web interface’s user level main window opens.

**?** If the Web interface’s user level main window does not open, see “Q2: When the Web Interface is Not Working” (page 80).



4

Click **Administrator Pages**.

The **Connect to 192.168.100.101** window opens.

5

Enter “administrator” in the **User** box, and click **OK**.

You do not need to enter a password.

The Web interface’s administrative main window opens.

## Step 3

# Setting Passwords

The product is not factory set with a login password. For security reasons, we recommend that you set a password. Setting a password that must be entered for access to the product will make it more difficult for a third party to tamper with its settings.

**System Settings** ?

- SIP Domain**

Domain Name	
Please set	<a href="#">Edit</a>
- Clock**

PJP-MC24 Date/Time	Timezone	NTP Server	
2007/10/27 14:18:45	+00:00	Not set	<a href="#">Edit</a>
- Cascade**

Operation Mode	
Standalone	<a href="#">Edit</a>
- Login Users**

User Name	Password	
administrator	Please set	<a href="#">Edit</a>
anonymous	Not set	<a href="#">Edit</a>

**1 Click** (on System Settings menu)

**2 Click** (on Edit button for administrator user)

**3 Enter** (on password input fields)

**Login User Settings** ?

<b>User Name</b>	administrator
<b>Password</b>	New Password: ..... New Password: ..... (to confirm)

**3 Enter** (on password input fields)

**4 Click** (on Apply button)

1

Click **System Settings** on the Web interface's user level main window.

The **System Settings** window opens.

2

Click the **Edit** button under **Login Users** next to **administrator** box.

The **Login User Settings** window opens.

3

Enter the password in the **Password** box.

Each entered character is indicated with a •.

4

Click **Apply**.

The set password becomes active, and a confirmation window opens.

5

Click **Close**.

The **Connect to 192.168.100.101** window opens.

6

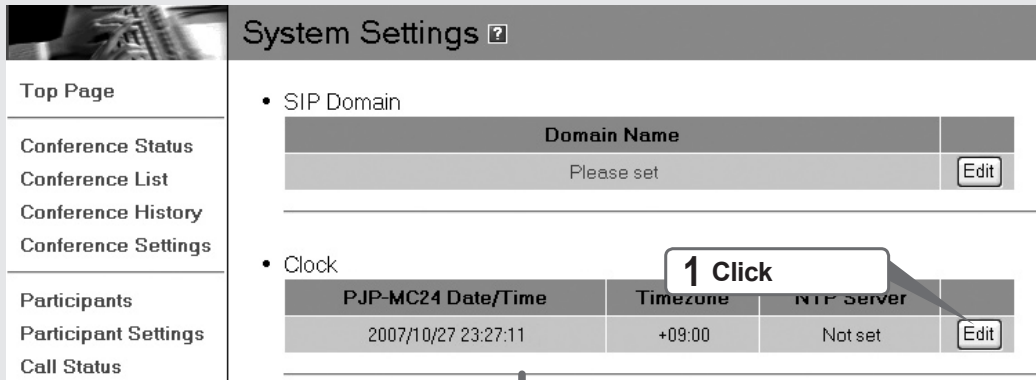
Enter "administrator" in the **User** box. Enter the password you set in Step 3 in the **Password** box. Then click **OK**.

The **System Settings** window appears again.

## Step 4

# Setting the Date and Time

On the **Clock Settings** window, you can set the date and time of the PJP-MC24.



**System Settings** ?

Top Page

Conference Status

Conference List

Conference History

Conference Settings

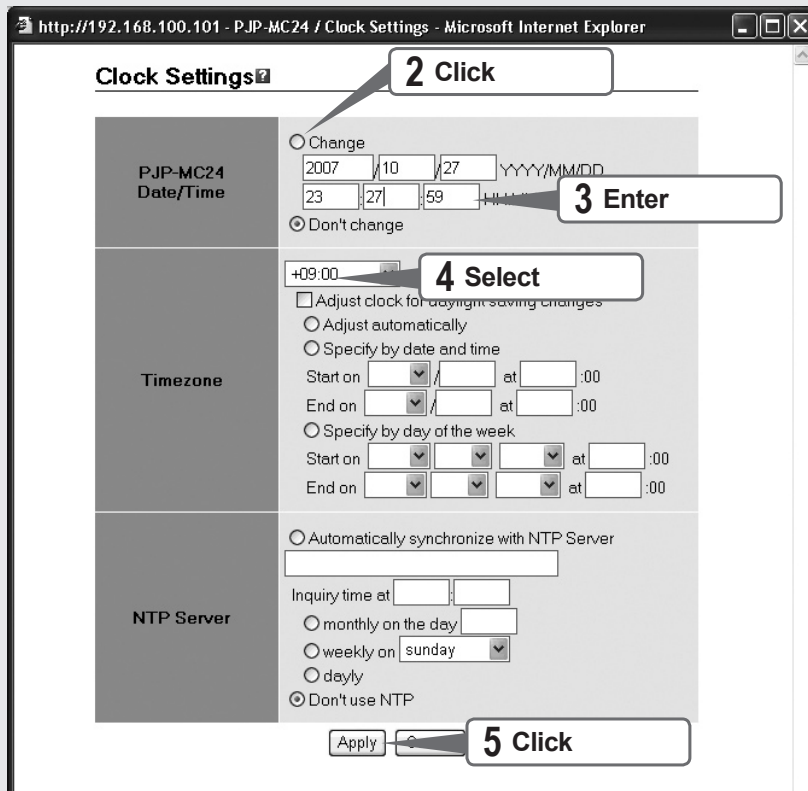
Participants

Participant Settings

Call Status

- SIP Domain
  - Domain Name: Please set [Edit]
- Clock
  - PJP-MC24 Date/Time: 2007/10/27 23:27:11
  - Timezone: +09:00
  - NTP Server: Not set [Edit]

1 Click



http://192.168.100.101 - PJP-MC24 / Clock Settings - Microsoft Internet Explorer

**Clock Settings** ?

2 Click

PJP-MC24 Date/Time

☐ Change

2007 / 10 / 27 YYYY/MM/DD

23 / 27 / 59 HH/MM/SS

3 Enter

☐ Don't change

Timezone

+09:00

4 Select

☐ Adjust clock for daylight saving changes

☐ Adjust automatically

☐ Specify by date and time

Start on [ ] / [ ] at [ ] :00

End on [ ] / [ ] at [ ] :00

☐ Specify by day of the week

Start on [ ] [ ] [ ] at [ ] :00

End on [ ] [ ] [ ] at [ ] :00

NTP Server

☐ Automatically synchronize with NTP Server

[ ]

Inquiry time at [ ] : [ ]

☐ monthly on the day [ ]

☐ weekly on [ ] [ ]

☐ daily

☒ Don't use NTP

5 Click

Apply

1

On the **System Settings** window, click **Edit** under **Clock**.

The **Clock Settings** window opens.

2

Click **Change** next to **PJP-MC24 Date/Time**.

3

Enter the date and time.

#### Tips

To set the time accurately, set a time slightly ahead of the current time, and then click the **Apply** button just as that time is reached.

4

Set the time zone in the **Timezone**.

If you are in Japan, select **+09:00**.

5

Click **Apply**.

A confirmation window opens.

6

Click **Close**.

The **System Settings** window appears again.

### For areas with daylight saving time

Select the **Adjust clock for daylight saving changes** check box, and then enter the daylight saving starting and ending times. For more information, click the help icon on the **Clock Settings** window.

### Setting the time automatically

You can set the time automatically using an Internet NTP (Network Time Protocol) server.

For more information, click the help icon on the **Clock Settings** window.

#### Note

The security settings of the LAN network that the PJP-MC24 is located on may not allow it to use an NTP server to set the time. When using an external NTP server, please configure your network equipment appropriately. Refer to your network equipment documentation for more information.

## Step 5

# Configuring Network Settings

## 1. Set the LAN Port IP Address of the PJP-MC24

Set an IP address and netmask that conform to the LAN.

### Note

The LAN port is factory set to an IP address of 192.168.100.101/24. Be sure to set the product to an IP address that is not already being used by another device on the LAN.

**IP Settings** ?

- LAN Port
 

IP Address	
192.168.100.101/24	<a href="#">Edit</a>
- Default Gateway
 

IP Address	
Please set	<a href="#">Edit</a>

IP Address Not set

[Add](#)

**LAN Port Settings** ?

IP Address 192.168.100.101 / 24

[Apply](#) [Add](#)

**1**

Click **IP Settings** in the Web interface navigation bar.

The **IP Settings** page appears.

**2**

Click **Edit** under **LAN port**.

The **LAN Port Settings** window opens.

**3**

Enter the product IP address.

**4**

Click **Apply**.

A confirmation window opens.

**5**

Click **Close**.

You will return to the **IP Settings** page.



## 2. Specify a Default Gateway

Specify the default gateway that the PJP-MC24 will use.

**PJP-MC24** ProjectPhone

IP address: 192.168.100.101 Login : administrator

### IP Settings ?

- LAN Port

IP Address	
192.168.100.101/24	<a href="#">Edit</a>
- Default Gateway

IP Address	
Please select	<a href="#">1 Click</a> <a href="#">Edit</a>
- DNS Server

IP Address			
Not set			
<a href="#">Add</a>			
- IP Keepalive

Target IP Address	Tx Interval	Tx Count		
Not set				

http://192.168.100.101 - PJP-MC24 / Default Gateway Setting - Microsoft Internet Explorer

### Default Gateway Setting

**IP Address**

☒ Specify  
☐ Don't specify

192.168.100.1

[Apply](#) [Cancel](#)

**1**

On the **IP Settings** page, click **Edit** under **Default Gateway**.

The **Default Gateway Setting** window opens.

**2**

Click **Specify**.

**3**

Enter the default gateway.

**4**

Click **Apply**.

A confirmation window opens.

**5**

Click **Close**.

You will return to the **IP Settings** page.

## Getting Started

## Getting Started

## Getting Started

## Getting Started

1

On the **IP Settings** page, click **Add** under **DNS Server**.

The **DNS Server Settings** window opens.

2

Enter the DNS server IP address in the **IP Address** box.

3

Click **Apply**.

A confirmation window opens.

4

Click **Close**.

You will return to the **IP Settings** page.

## 4. Specify IP Addresses to be Checked with IP Keepalive

Configure the IP Keepalive feature of the PJP-MC24 as necessary. The PJP-MC24 will search for network errors by sending an ICMP Echo request at a specified time interval to the IP addresses you select here. When the PJP-MC24 detects a network error, its front panel STATUS LED will light.

### Tips

You can also configure the product to send an error notification mail (page 69).

Conference History  
Conference Settings

Participants  
Participant Settings  
Call Status  
Call History  
Error History

**IP Settings**  
System Settings  
Mail Settings

System Information  
Maintenance

User Pages

English (en) ▼

- Default Gateway
 

IP Address	
192.168.100.1	<input type="button" value="Edit"/>
- DNS Server
 

IP Address		
192.168.100.1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
		<input type="button" value="Add"/>
- IP Keepalive
 

Target IP Address	Tx Interval	Tx Count		
Not set				
				<input type="button" value="Add"/>

**1 Click**

http://192.168.100.101 - PJP-MC24 / IP Keepalive Settings - Microsoft Internet Explorer

### IP Keepalive Settings

Target IP Address	192.168.100.1	<b>2 Enter</b>
Transmit Interval	60 seconds (1 - 65535)	<b>3 Select</b>
Transmit Count	10 times (3 - 100)	
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>		<b>4 Click</b>

1

On the **IP Settings** page, click **Add** under **IP Keepalive**.

The **IP Keepalive Settings** window opens.

2

Enter the ICMP Echo request target IP address in the **Target IP Address** box.

Enter the IP address of a device whose connection you want to check (for example, the default gateway IP address).

3

Specify the transmit interval and count in the **Transmit Interval** and **Transmit Count** boxes as necessary.

**Transmit Interval**

You can specify the interval between ICMP Echo transmissions in seconds. If the PJP-MC24 receives an ICMP Echo Reply before the next Echo request transmission, the address passes. If no reply is received, the address fails.

**Transmit Count**

Sets the number of ICMP Echo request transmissions that will be sent. If the PJP-MC24 does not receive an ICMP Echo reply for the number of transmissions set under **Transmit Count**, the IP address is considered invalid.

4

Click **Apply**.

A confirmation window opens.

5

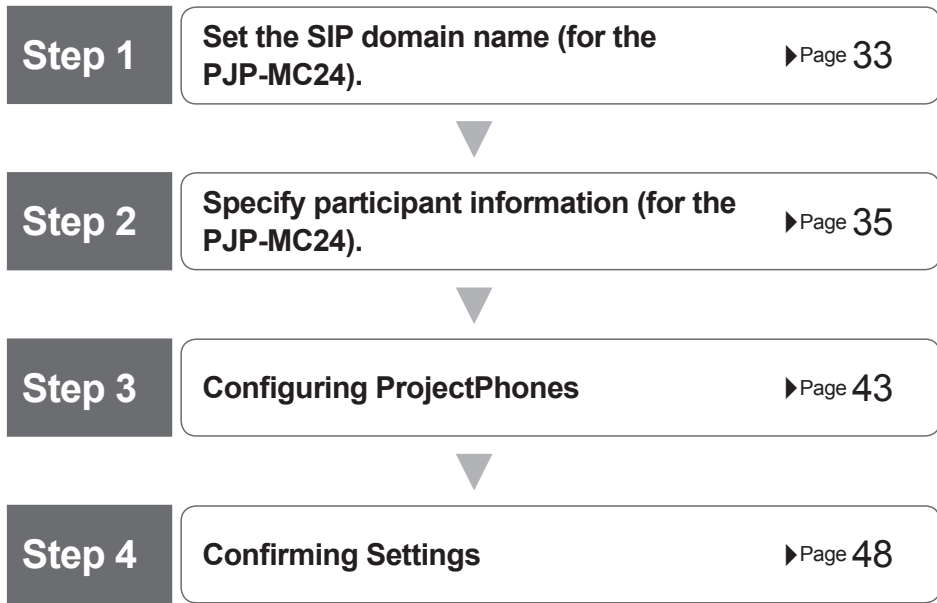
Click **Close**.

You will return to the **IP Settings** page.

# Configuration Flowchart

Continue on to these steps to configure the PJP-MC24 for use.

Configure all devices.



# Prepare the Following Before You Begin

## Participant setup information

Configuration will be easier if you determine or acquire the following participant information before you begin.

- The names you will assign to participants
- The location numbers you will assign to participants
- Whether or not you will require authentication
- The authentication password that you will use

## PJP-MC24 setup information

This information will be necessary when configuring the participants' ProjectPhones.

- IP address of the PJP-MC24 (page 23)
- The SIP domain name to be set in the PJP-MC24 (page 33)

## About location number limitations

If a participant sets the PJP-50R to use zero as the PSTN (public switched telephone network) prefix, then you will not be able to use location numbers that start with zero, such as "01" or "0050". For more details, please see the PJP-50R Basic Operation Guide.



## Step 1

# Setting the SIP Domain Name

Set the PJP-MC24's SIP domain name. The SIP domain name is a group identifier that enables participants' ProjectPhones to connect to the PJP-MC24.

**System Settings** ?

- SIP Domain**

Domain Name	
Please set	<a href="#">Edit</a>
- Clock**

PJP-MC24 Date/Time	Timezone	NTP Server	
2007/10/29 17:06:18	<b>2 Click</b>		<a href="#">Edit</a>
- Cascade**

Operation Mode	
Standalone	<a href="#">Edit</a>

**1 Click**
- Login Users**

User Name	Password		
administrator	Set	<a href="#">Edit</a>	
anonymous	Not set	<a href="#">Edit</a>	

[Add](#)

**SIP Domain Setting** ?

**4 Select**

☒ Specify **3 Click**

PJP-NETWORK

☐ Don't specify

[Apply](#) **5 Click**

1

Click **System Settings** on the Web interface's main window while logged in as an administrator.

The **System Settings** window opens.

2

Click **Edit** under **SIP Domain**.

The **SIP Domain Setting** window opens.

3

Click **Specify**.

4

**Enter the SIP domain name.**

The SIP domain name functions as a group identifier that enables participants' ProjectPhones to connect to the PJP-MC24. When assigning SIP addresses to participants' ProjectPhones (see page 45), use the SIP domain name specified here.

#### Tips

Because the SIP domain name is not resolved by the DNS, you can set it to any name that you like ("PJP-NETWORK" for example).

5

Click **Apply**.

A confirmation window opens.

6

Click **Close**.

The **System Settings** window appears again.

## Step 2

# Specifying Participant Information

You can set participant information one location at a time on the **Participant Settings** window (500 participants max.).

### Tips

- You can also download participant information in CSV file format, use a spreadsheet program such as Microsoft Excel to edit the information, and set the edited information to the PJP-MC24 (page 37).
- After you have registered participants, you can also register participant groups. Participant groups are useful for arranging participants according to the kinds of conferences that they participate in. Participant groups can help you avoid making mistakes when selecting the participants for a particular conference.

The screenshot shows the 'Participant Settings' window. On the left is a navigation menu with options: Top Page, Conference Status, Conference List, Conference History, Conference Settings, Participants, **Participant Settings**, Call Status, Call History, and Error History. The main area has two sections: 'Participant Groups' and 'Participants'. The 'Participant Groups' section has a table with 'Group Name' and a 'No groups' message. The 'Participants' section has a table with 'Name' and 'Number' columns, with 'Please set' in the 'Number' column. Callout '1 Click' points to the 'Participant Settings' menu item. Callout '2 Click' points to the 'Add' button in the 'Participants' section.

The screenshot shows the 'Participant Settings' window with a detailed form. The form has four main sections: 'Participant', 'Number', 'Terminal Type', and 'Authentication'. The 'Participant' section has a text field with 'Tokyo Office'. The 'Number' section has a text field with '0010'. The 'Terminal Type' section has a dropdown menu with 'Projectphone'. The 'Authentication' section has radio buttons for 'Digest Authentication' (selected) and 'No Authentication', and a password field with 'Password: .....'. Callout '3 Select' points to the 'Participant' field. Callout '4 Select' points to the 'Number' field. Callout '5 Select' points to the 'Terminal Type' dropdown. Callout '6 Select' points to the password field. Callout '7 Click' points to the 'Apply' button at the bottom.

1

Click **Participant Settings** on the Web interface's main window while logged in as an administrator.

The **Participant Settings** window appears.

2

Click **Add** under **Participants**.

The **Participant Settings** window opens.

3

Enter the location number in the **Number** box (max. 16 characters).

**Note**

- Location numbers do not have to all have the same number of digits.
- Numbers starting from the prefix for ad hoc conference (page 66) (default: 1111) cannot be registered as participant numbers.

4

Enter a participant name in the **Participant** box if necessary.

Enter the participant name that is displayed in places such as the **Participants** page (max. 32 characters; can be omitted).

**Note**

Participant names cannot contain "&", "=", "+", and "%".

5

Select **ProjectPhone** in the **Terminal Type** box.

**Note**

The **Other SIP Terminal** option is for future expansion.

6

In **Authentication**, specify whether or not the PJP-MC24 will require authentication to answer participant requests.

- **Digest authentication:** Digest authentication is performed. You must set a password.
- **No authentication:** Authentication is not performed.

**Note**

- Set a password other than the password for the product (page 19).
- You can select different passwords for each participant.
- Passwords cannot contain "&", "=", "+", and "%".

7

Click **Apply**.

The set participant information is saved, and a Confirmation window opens.

8

If you want to enter the information for another participant, click **Add another participant** and repeat steps 3 through 7.

9

When you have finished entering participant settings, click **Close**.

# Using a CSV File to Configure All Participant Settings

## 1. Create a participant information file.

After downloading a template CSV file, you can configure participant information all at once by using a spreadsheet program such as Microsoft Excel. If you want to use the Web interface to set individual participant information, such as making minor adjustments to the information you have already set, see page 35.

**PJP-MC24** ProjectPhone  
IP Address: 192.168.100.101 Login: administrator

### Participant Settings ?

- Participant Groups

Group Name		
No groups		
<input type="text"/>		
<input type="button" value="Add"/>		
- Participants

Name	Number		
Please set			
<input type="text"/>			
<input type="button" value="Add"/>			
- Participant Settings Management

Operation	
Input Settings from CSV File	<input type="button" value="Execute"/>
Output Settings to CSV File	<input type="button" value="Execute"/>
Delete All Participant Groups	<input type="button" value="Execute"/>
Delete All Participants	<input type="button" value="Execute"/>

**1 Click** (points to Participant Settings in sidebar)

**2 Click** (points to Output Settings to CSV File button)

http://192.168.100.101 - PJP-MC24 / Output Participant Settings to CSV File - Micr...

### Output Participant Settings to CSV File ?

Output Participant Settings to CSV File:  
Click the following link with right-button and select 'save as file':  
[Participant Settings CSV File](#)

**3 Click** (points to Participant Settings CSV File link)

**5 Click** (points to Close button)

1

Click **Participant Settings** on the Web interface's main window while logged in as an administrator.

The **Participant Settings** page appears.

2

Under **Participant Settings Management** click **Execute** next to **Output Settings to CSV File**.

The **Output Participant Settings to CSV File** window opens.

3

Right click **Participant Settings CSV File** and click **Save Target As**.

4

Specify the filename and save location, and then save the CSV file.

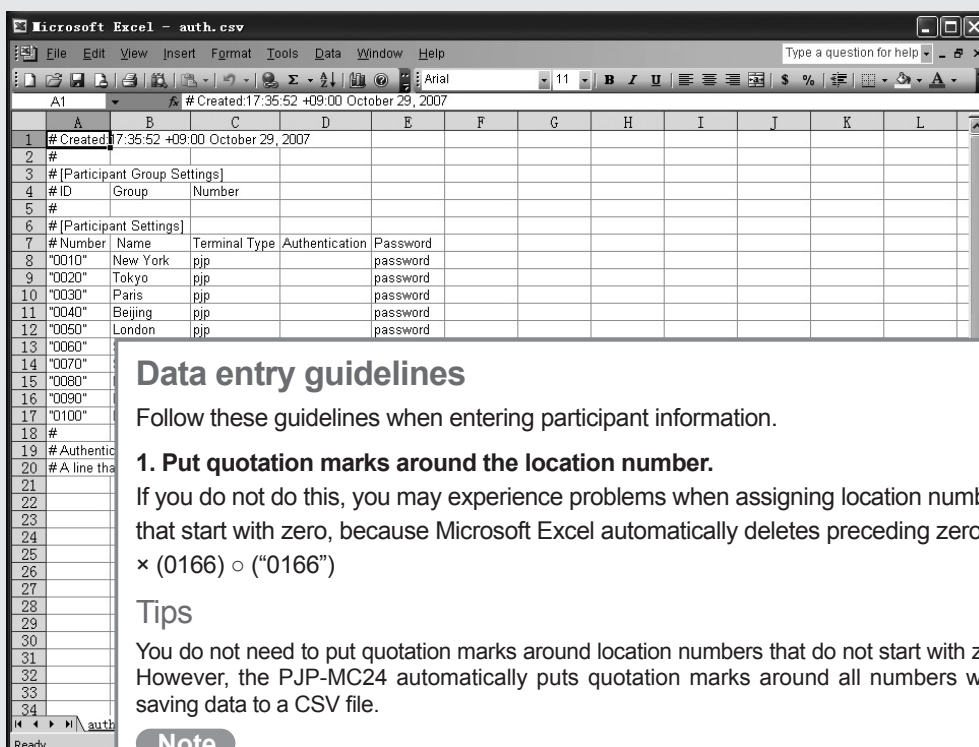
5

Click **Close**.

You will return to the **Participant Settings** page.

## 2. Enter participant information.

Use a spreadsheet program such as Microsoft Excel to enter all participant information into the template CSV file. You can input information for up to 500 participants.



A	B	C	D	E	F	G	H	I	J	K	L
1	# Created	17:35:52 +09:00 October 29, 2007									
2	#										
3	# [Participant Group Settings]										
4	# ID	Group	Number								
5	#										
6	# [Participant Settings]										
7	# Number	Name	Terminal Type	Authentication	Password						
8	"0010"	New York	pjp		password						
9	"0020"	Tokyo	pjp		password						
10	"0030"	Paris	pjp		password						
11	"0040"	Beijing	pjp		password						
12	"0050"	London	pjp		password						
13	"0060"										
14	"0070"										
15	"0080"										
16	"0090"										
17	"0100"										
18	#										
19	# Authentic										
20	# A line tha										
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											

### Data entry guidelines

Follow these guidelines when entering participant information.

#### 1. Put quotation marks around the location number.

If you do not do this, you may experience problems when assigning location numbers that start with zero, because Microsoft Excel automatically deletes preceding zeros.

× (0166) ○ ("0166")

#### Tips

You do not need to put quotation marks around location numbers that do not start with zero. However, the PJP-MC24 automatically puts quotation marks around all numbers when saving data to a CSV file.

#### Note

- If one of the participating terminals is a PJP-50R, see page 32 for special considerations that need to be made when choosing location number prefixes.
- Do not surround location numbers with quotation marks when entering them in the Web interface.

#### 2. How the PJP-MC24 handles blank spaces

- The spaces before and after character data are not recognized as data.
- Spaces inside of quotation marks are recognized as data.
- Spaces contained within characters other than commas are recognized as data.

"TokyoOffice" will be read as "TokyoOffice"

Tokyo Office will be read as "Tokyo Office"

#### 3. How the PJP-MC24 handles single quotation marks, double quotation marks, and commas.

They can all be used within character data.

○ Chicago'Office ○ Paris"Office ○ Beijing,Office

#### 4. Lines that begin with a pound sign will be treated as comment lines.

#### 5. Line feed code

CSV files are designed to be created and edited using Windows. They only use CR+LF newline.

## 1

Open the CSV file that was saved in “1. Create a Participant Information File” (page 37) using a spreadsheet program such as Microsoft Excel.

You can open the file with any spreadsheet program or text editor that is capable of handling CSV file format.

## 2

## Enter participant information and save the file.

The following is an explanation of how to edit participant information using Microsoft Excel.

### Column A: Location number

Enter the participant's location number in column A (max. 16 characters).

#### Note

Also read “About location number limitations” (page 32) before setting a location number.

- Location numbers do not have to all have the same number of digits.

### Column B: Participant name

Enter the participant name that is displayed in places such as the **Participants** page (max. 32 characters; can be omitted).

#### Note

Participant names cannot contain “&”, “=”, “+” and “%”.

### Column C: Terminal type

Enter the type of terminal that is installed at the participant location.

- **pjp**: A ProjectPhone
- **non-pjp**: Reserved for future expansion

### Column D: Authentication

Specify whether or not the PJP-MC24 will require authentication to answer participant requests.

- Blank: Digest authentication. Enter a password in column E.
- “none”: No authentication.

### Column E: Password

If the participant is set to digest authentication (column D is left blank), enter a password here.

#### Note

Passwords cannot contain “&”, “=”, “+” and “%”.



### 3. Upload the participant information file.

Upload the CSV file that you created to the PJP-MC24, and use it to configure participant information settings.

#### Note

Please be aware that when you upload a CSV file, it overwrites all participant information that was stored on the PJP-MC24.

Names of files to be uploaded should not contain "&".

**PJP-MC24** ProjectPhone

IP address: 192.168.100.101 Login : administrator

## Participant Settings ?

- Participant Groups

Group Name
No groups

Add
- Participants

Name	Number
Please set	

Add
- Participant Settings Management

Operat
Input Settings from CSV File
Output Settings to CSV File
Delete All Participant Groups
Delete All Participants

http://192.168.100.101 - PJP-MC24 / Input Participant Settings from CSV File - Microsof...

### Input Participant Settings from CSV File ?

Input Attendant Settings from CSV File:  
Select the file and click 'upload' button.  
**Attention: All of the current settings will be deleted.**

File: 

Browse...

Upload

Cancel

1

Click **Participant Settings** on the Web interface's main window while logged in as an administrator.

The **Participant Settings** window appears.

2

Under **Participant Settings Management** click **Execute** next to **Input Settings to CSV File**.

The **Input Participant Settings from CSV File** window opens.

3

Click **Browse**.

The **Choose file** window opens.

4

Select the file that you used in "2. Enter participant information" (page 39) and click **Open**.

5

Click **Upload**.

The PJP-MC24 will load the participant information from the file that you selected in step 4.

6

Click **Close**.

You will return to the **Participant Settings** window.

The participant information settings are now complete.

7

Confirm that the CSV file's participant information is listed properly under **Participants**.

If it is displayed properly, the participant information settings are complete. Please proceed to "Step 3: Changing ProjectPhones Settings" (page 43).

**If the information listed under Participants is incorrect:**

If the participant information is not entered properly into the CSV file, the information will not be configured properly.

Correct the CSV file, and then upload the file again.

## Step 3

# Changing ProjectPhone Settings

After participant information has been configured on the PJP-MC24, configure the participants' ProjectPhones to join conferences via the PJP-MC24.

## Configuration Flowchart

Follow these steps to configure the participants' ProjectPhones.

### 1. Set the IP address (next page).

Set the IP address, netmask, and default gateway that the ProjectPhone will use.

### 2. Register SIP server information (page 45).

Configure the participant's ProjectPhones so that they refer to the PJP-MC24 as a SIP server.

### 3. Enable remote control from the PJP-MC24 (page 47).

Configure the ProjectPhone to accept control signals from the PJP-MC24 used to start conferences.

#### Note

- Before performing the following operations, you need to configure the ProjectPhones network connection settings. For more details, please see the ProjectPhone Setup Guide.
- The following explanation gives examples of how the settings would be configured using the PJP-100H ProjectPhone.

### If a participant is using a PJP-50R:

If you are using a PJP-50R and want to make calls directly to other ProjectPhones, then you need to pay special attention to the PJP-50R dialing prefix settings.

- You can use prefixes to identify the type of network that you want to call to. To dial other ProjectPhones, you enter the IP network prefix, followed by the location number. If you choose not to specify a prefix for IP network calls, you can call other ProjectPhones by simply entering their location numbers.
- However, if location numbers start with network prefix numbers (for example a network prefix is set to zero and there is a location number "0010" then you will have to change the PJP-50R dialing prefix settings in order to reach those location numbers. For more details, please see the PJP-50R Basic Operation Guide.

# 1. Set the IP Address

Use the ProjectPhone keys to set the IP address, netmask, and default gateway that the ProjectPhone will use. For more information, see “Step 2: Registering the network settings of this unit” (PJP-100H) or “Step 2: Registering the settings of this unit” (PJP-50R) in the ProjectPhone Basic Operation Guide.

## Tips


You can use a DHCP server instead of setting a fixed IP address. This will not interfere with conferences in any way.

## When you have finished entering the settings

Confirm the settings and connection status on the ProjectPhone display. For more details, please see the ProjectPhone Basic Operation Guide.

## 2. Register SIP Server Information

Configure the participant's ProjectPhones so that they refer to the PJP-MC24 as a SIP server. You will need to know the PJP-MC24 settings, such as the SIP domain name, so obtain this information before you start.



PJP-100H

Serial No. / MAC Address

NP1000139 / 00:A0:DE:46:00:78

IP Address / Subnet Mask

192.168.100.201 / 255.255.255.0

Default Gateway / DNS Server

192.168.100.1 / 192.168.100.1

Program Version

DT 1.33 2007.02.27 10:46:58

Address Book

[View/Edit Address Book](#)

Network Settings

DHCP

Disable

IP Address

192.168.100.201

Subnet Mask

255.255.255.0

Default Gateway

192.168.100.1

DNS Server

192.168.100.1

Connection Mode

Mesh

NAT Traversal

Not Configured

SIP Server

Not Configured

SIP Server Name

Not Configured

SIP Address

Not Configured

3 Click

Setting Home > SIP

SIP

SIP Server:

☐ Disable

☒ Enable

SIP Server Name:

192.168.100.101

SIP Server Password:

\*\*\*\*\*

SIP Address:

sip:0010@PJP-NETWORK

Submit

Reset

4 Click

5 Enter

6 Enter

7 Enter

8 Click

Cannot change data. Please retry after the phone.

Ready To Update

- 1 Connect the ProjectPhone to the PC you will use to configure it.
- 2 Open a Web browser and enter “http://<ProjectPhone’s\_IP\_address>” into the address bar.  
The ProjectPhone **Web Settings** page appears.
- 3 Click **SIP Server**.  
The **SIP Server** page appears.
- 4 Set **SIP Server** to **Enable**.
- 5 In the **SIP Server Name** box, type the PJP-MC24 IP address.  
Enter the IP address that has been assigned to the PJP-MC24 LAN port (page 23).
- 6 In the **SIP Server Password** box, enter the authentication password.  
If an authentication password has been set using the PJP-MC24 Participant Settings (page 36), enter that password. If **No Authentication** has been selected, leave the password box blank.
- 7 In the **SIP Address** box, enter the ProjectPhone’s SIP address in the following format: sip: (location number)@(PJP-MC24 SIP domain name).
  - Location number: The location number for the participant using the ProjectPhone (page 36).
  - SIP domain name: The domain name set on page 34.

**SIP address example**

If the participant using the ProjectPhone has the location number 0010, and the SIP domain name is PJP-NETWORK, the SIP address would be “sip:0010@PJP-NETWORK”.
- 8 Click **Submit**.  
Check the ProjectPhone display and make sure that it is connected properly to the PJP-MC24.

### 3. Enable Remote Control from the PJP-MC24

Configure the ProjectPhone to accept control signals from the PJP-MC24 used to start conferences.

#### Note

- If you do not configure the ProjectPhone to allow remote control from the PJP-MC24, it will not be able to participate in scheduled conferences. Be sure to enable remote control.
- If a password is set for the ProjectPhone, the PJP-MC24 cannot implement communication control even when the remote control is enabled. Cancel the ProjectPhone password, if set.


To allow remote control, follow these steps using the ProjectPhone keys:

1

On the initial screen, press the ▼ key.


The **Menu** screen appears.

2

Press the ▲ or ▼ key and select **Settings**, and then press the  key.

The **Settings** menu screen appears.

3

Press the ▲ or ▼ key and select **General Settings**, and then press the  key.


The **General Settings** screen appears.

4

Press the ▲ or ▼ key and select **Remote Control**, and then press the  key.

The **Remote Control** screen appears.

5

Press the ▲ or ▼ key and select **Enable**, and then press the  key.

Remote control from the PJP-MC24 is now enabled.

## Step 4

# Confirming Settings

After you have completed the product and ProjectPhone settings, confirm that the participants are registered properly.

IP Address: 192.168.100.101 Login : administrator

**Participants** ?

- Participant Information

Name	Number	IP Address	Status
New York Office	0010	192.168.100.201	Registered
Tokyo Office	0020	192.168.100.202	Registered
Paris Office	0030	192.168.100.203	Registered
Beijing Office	0040	192.168.100.204	Registered
London Office	0050	192.168.100.205	Registered
Sydney Office	0060	192.168.100.206	Registered
	0070	192.168.100.207	Registered
	0080	192.168.100.208	Registered
Los Angeles Office	0090	192.168.100.209	Registered
Dublin Office	0100		Registered

1

Click **Participants** on the Web interface's main window while logged in as an administrator.

The **Participants** page appears.

2

Make sure that all of the participants that were configured on page 35 are listed under **Participant Information**.

3

Confirm that the **Status** column lists all participants as being **Registered**.

**If a participant is listed as "Not registered"**

- The PJP-MC24 has not registered the participant. Please review pages 33 to 47 and confirm that the ProjectPhone is configured properly and that the correct participant configuration information has been entered into the PJP-MC24.
- Confirm that the participant's ProjectPhone is on.
- Confirm that the participant's ProjectPhone is connected properly to the network.

**If "Error" is displayed under the status column**

See "Troubleshooting" on page 77.



# Overview of Conference Using the PJP-MC24

## Types of Conferences You Can Hold with the PJP-MC24

Two types of conferences can be held with the PJP-MC24: Mixer conference and local conference. You can select the conference type according to the number of participants and other conditions.

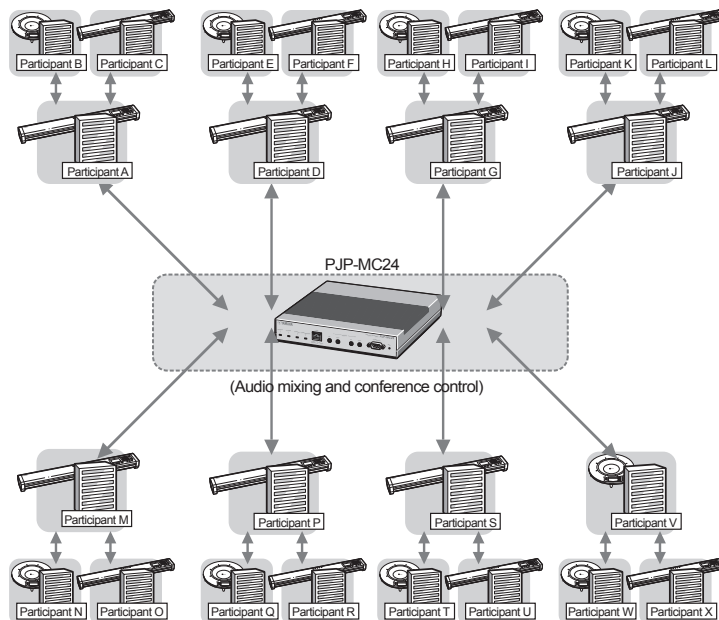
### Tips

For conferences not requiring a reservation, see “Starting a Conference without a Reservation” (page 65).

### Mixer Conference

The mixing function of the PJP-MC24 is used to connect ProjectPhones at a maximum of 24 locations.

- Multiple mixer conferences cannot be held simultaneously if only one PJP-MC24 unit is used.
- When Cascade (page 64) is used to link four PJP-MC24 units, you can hold up to four mixer conferences simultaneously, each with 24 participants, or one mixer conference with 96 participants.



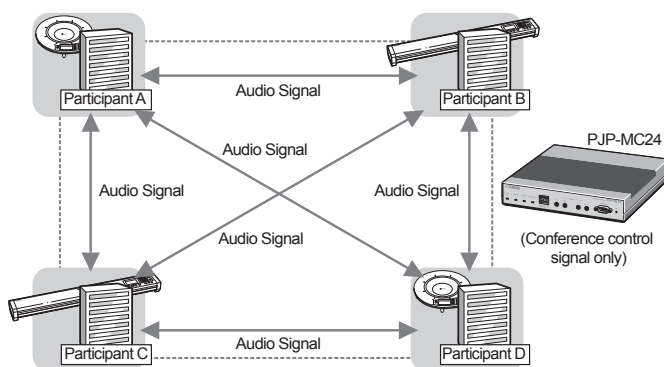
### Local Conference

The mixing functions of the participant's terminals (ProjectPhones) can be used to hold up to 30 conferences in addition to mixer conferences. Local conferences are classified into the mesh connection type and the cascade connection type.

- The PJP-MC24 schedules conferences, manages participants and conference resources, and constructs the conference network.
- Once connection has been established between the participants, they transfer audio data directly with each other without going through the PJP-MC24.

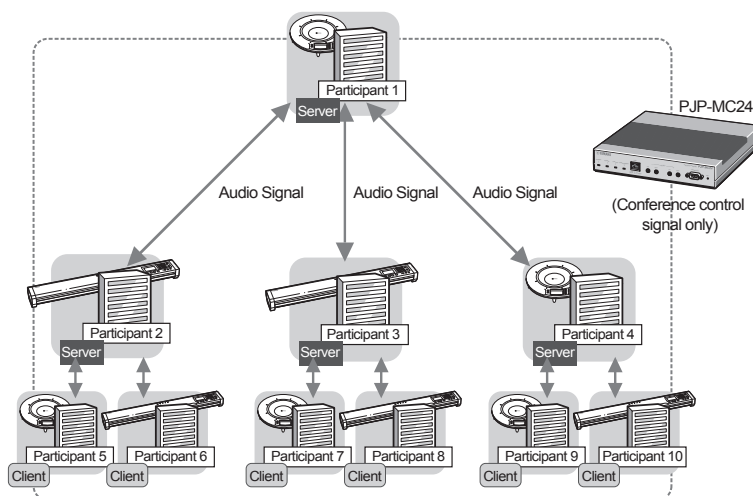
### Mesh Connection

In a mesh network, a communication path is established between each participant. The PJP-MC24 can connect up to four participants on this type of network.



### Cascade Connection

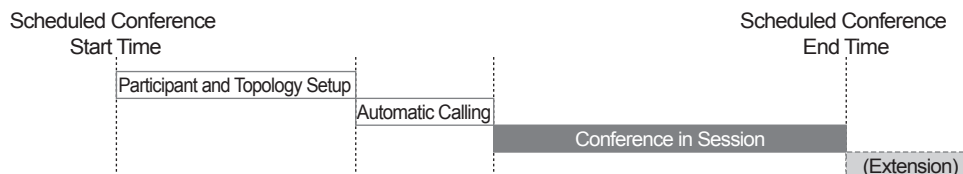
Up to 10 participants can be cascaded-connected. The PJP-MC24 automatically sets server and client terminals based on the number of participants.



## Conference Flowchart

Schedule a conference by specifying the conference participants and the starting time.

- At the scheduled conference start time, the PJP-MC24 will automatically connect to the participants and construct the conference network.
- Scheduled conferences will be held according to the following process.



### Tips

You can manually start a conference without waiting for the scheduled conference start time (page 59). However, you still must make a conference reservation and register all conference participants.

# Registering a Conference Time and Participants (Reserving a Conference)

To hold a conference, you have to make a reservation by specifying the participant information and the conference date and time.

## Reserving a Conference

**Top Page** ?

1 Click

Dec 2007

2 Click

- Active Conferences : 0 (2007/12/03 09:46:07 +09:00)

Name	Number	Date/Time	Type	Monitor
No active conferences				

- Scheduled Conferences : 0

Name	Number	Date/Time	Type	Schedule
No scheduled conferences				

Add new conference 3 Click

Add

http://192.168.100.101 - PJP-MC24 / Add/Edit Conference - Microsoft Internet Explorer

**Add/Edit Conference** ?

4 Enter

5 Enter

6 Select

7 Click

Name: Business Meeting

Number: 0001

Date/Time: Specify (2007/12/03 16:00 - 17:00) / Don't specify

Participants: Select

Audio Ports: ☐ AUDIO 1 ☐ AUDIO 2

1

Click **Top Page** in the Web interface navigation bar.

The **Top Page** appears.

On the **Top Page** calendar, the current date is surrounded by a red box.

2

Click the day on the calendar on which you want to hold a conference.

The selected date will be surrounded by a blue box (if today's date is selected, it will be surrounded by a purple box).

To choose a date in a different month, click the triangles above the calendar to switch to that month.

3

Click the **Add** button under **Scheduled Conferences**.

The **Add/Edit Conference Schedule** window opens.

4

Enter the conference name in the **Name** box.

You can enter up to 128 characters.

5

Enter the conference number used to identify the conference in the **Number** box (max. 4 digits).

6

Click **Specify** next to **Date/Time**, and enter the conference start time.

After confirming the conference date, enter the conference start time (to the nearest quarter hour).

### Tips

- If you want to make a reservation for a recurring conference, see "Setting Up a Recurring Conference" (page 55).
- You can make a conference reservation without specifying the conference date and time. However, you will have to initiate the conference manually (page 59).

7

Click the **Select** button next to **Participants**.

The **Add/Edit Conference Schedule/Participants** window opens.

http://192.168.100.101 - PJP-MC24 / Add/Edit Conference / Participants - Mi...

### Add/Edit Conference / Participants

**Participant Group** Not set

**Participants**

- ☒ New York Office
- ☒ Tokyo Office
- ☒ Paris Office
- ☒ Beijing Office
- ☒ London Office
- ☒ Sydney Office
- ☒ Seoul Office
- ☒ Madrid Office
- ☒ Los Angeles Office
- ☒ Dublin Office

Select All Deselect All

Apply

**Audio Ports** ☐ AUDIO 1 ☐ AUDIO 2

**Type** Max. 10 ☒ Reservation Inquiry

**(Center Participant)** (Automatically selected)

**(Owner)** Sales Division: Tanaka

**(Contact)** 03-1111-1001

**(Description)** Sales Report

Apply Cancel

8

Select the conference participants.

If a participant group has been set up, a list of participant groups will be displayed above the list of individual participants. Select or clear a participant group check box to select or deselect all of the participants in that group.

9

Click **Apply**.

You will return to the **Add/Edit Conference Schedule** window.

10

From the **Audio Port**, select the PJP-MC24 audio port check box to be used.

The device connected to the selected audio port can connect to the audio channel used for the conference.

11

Select the conference type from the **Type** list.

Select the conference type based on the number of participants.

- **Max. 4 ('ProjectPhone' series only):** A local conference of mesh type (page 50) is held.
- **Max. 10:** A local conference of cascade type (page 50) is held. The PJP-MC24 will automatically connect all participants by setting server and client terminals based on the number of participants.
- **Max. 24:** A mixer conference (page 49) is held independently by the PJP-MC24.
- **Max. 48/72/96:** A mixer conference is held using Cascade (page 64).

12

Click **Reservation Inquiry**.

The **Add/Edit Conference Schedule / Reservation Inquiry** window opens.

This window displays a reservation graph with each day broken into units of 15 minutes. Unreserved time slots are colored green, while reserved time slots are colored red. If you cannot reserve a conference because resources or participants are unavailable, you can use this window to find out what the problem is and to search for open time slots.

13

If necessary, select a participant that you want at the center of the network topology from the **Center Participant** list (only available if you selected **Max. 10** for the conference type in step 11).

The PJP-MC24 will construct the topology around the selected central participant (selection of a central participant is optional).

14

Enter information into the **(Owner)**, **(Contact)**, and **(Description)** boxes as necessary.

You can enter supplementary conference information (optional).

You can type up to 24 characters in the **(Owner)** and **(Contact)** boxes and up to 128 characters in the **(Description)** box.

15

Click **Apply**.

You have made a conference reservation.

# Setting Up a Recurring Conference

You can reserve weekly and other recurring conferences for up to half a year.

The screenshot shows a web browser window titled 'http://192.168.100.101 - PJP-MC24 / Add/Edit Conference / Repeat Setti...'. The main content area is titled 'Add/Edit Conference / Repeat Setting'. It contains a form with the following elements:

- Date/Time:** 2007/12/03 16:00 - 17:00
- Repeat:** A section containing:
  - ☒ Repeat
  - A dropdown menu currently set to 'Every month'.
  - End Day:** A date selector showing 2008/05/30.
  - Except Day:** A label '(YYYY/MM/DD, up to 5 days)' followed by five empty input boxes for exceptions.
- Buttons:** An 'Apply' button and a circular button with a right-pointing arrow.

Numbered callouts point to the following elements:

- 1: Points to the 'Repeat' checkbox.
- 2: Points to the frequency dropdown menu.
- 3: Points to the 'End Day' date selector.
- 4: Points to the 'Except Day' input boxes.
- 5: Points to the circular arrow button.

1

Click **Repeat** in the **Add/Edit Conference Schedule** window (page 51).

The **Add/Edit Conference Schedule / Repeat Setting** window will appear.

2

Select the **Repeat** check box and then select the frequency of repetition (**Every day/Every week/Every month**).

3

Enter the day when conference repetition will end in the **End Day** box.

You can enter an ending day that is up to half a year after the first conference day.

4

If necessary, select dates that are exceptions and will not be reserved.

You can select up to 5 dates by using the following format: YYYY/MM/DD (example: 2007/10/10)

### Tips

To except six or more dates, please adjust the ending date (**End Day**) for the recurring conference, and make a new reservation for the later dates.

5

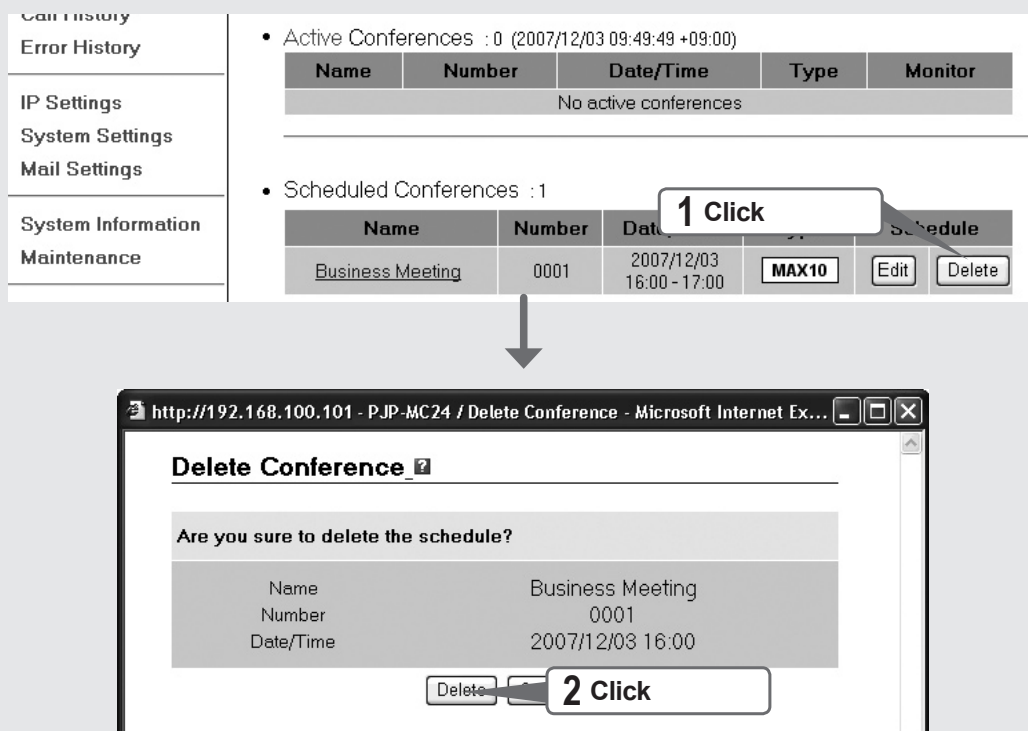
Click **Apply**.

You will return to the **Add/Edit Conference Schedule** page.

The conference repetition conditions will be displayed to the right of the **Repeat** button.

# Deleting a Conference Reservation

If a conference has been canceled, delete the conference reservation.



# 1

On the **Top Page**, click **Delete** next to the conference reservation listed under **Scheduled Conferences** that you want to delete.

The **Delete Scheduled Conference** window opens.

# 2

Click **Delete**.

The conference reservation will be deleted.

### Note

You cannot delete a reservation for an active conference.

## To delete a repeating conference

Repeating conference reservations can only be deleted from the **Conference List** page (accessed by clicking **Conference List** on the main window). If you delete a conference from the **Top Page** that is part of a repeating conference, it will be added to the repeating conference's excepted days list (and the repeating conference itself will not be deleted).



# Starting a Conference

You can start a conference after you have reserved it.

## Starting a Conference According to Schedule

You can start a reserved conference at the scheduled time without operating the PJP-MC24. The following explains the connection process for participants.

### 1

#### Prepare the ProjectPhone for the Conference.

- Turn on the ProjectPhone and connect its LAN cable, so that it will be able to connect to the PJP-MC24.
- Disconnect the ProjectPhone from all other terminals. You can check the ProjectPhone display to see whether or not the ProjectPhone is connected to other terminals and whether or not it will be able to connect to the PJP-MC24.

#### Pre-conference **Conference Status** page display

The **Participants** list on the **Conference Status** (page 60) page displays **Will attend** in the status of scheduled conference participants.

#### Conference Status

- Scheduled conferences (2007/12/03 15:51:38 +09:00)

Cancelled Conference (2007/12/03 15:51:55 - 05:05)					
Name	Number	Date/Time		Type	Monitor
Business Meeting	0001	2007/12/03 16:00 -		MAX10	
Status	Auto-invite	Elapsed	Remaining		Schedule
Wait Schedule	Not proceeded	-	-		<input type="button" value="Edit"/>
(Owner)			(Contact)		
Sales Division: Tanaka			03-1111-1001		
(Description)					
Sales Report					
Operation					
Start conference immediately					<input type="button" value="Start"/>

- Participants

Name	Number	Status	
New York Office	0010	Will attend	
Tokyo Office	0020	Will attend	
Paris Office	0030	Will attend	
Beijing Office	0040	Will attend	
London Office	0050	Will attend	
Sydney Office	0060	Will attend	
Seoul Office	0070	Will attend	
Madrid Office	0080	Will attend	
Los Angeles Office	0090	Will attend	
Dublin Office	0100	Will attend	

## 2

## Wait for the PJP-MC24 to Establish a Connection

When the schedule time arrives, the PJP-MC24 automatically calls the terminals of the participants.

The PJP-MC24 will automatically establish a connection, so there is no need to operate the ProjectPhone or to try to call the product. When the PJP-MC24 calls a terminal, the ProjectPhone will ring briefly before automatically connecting to the network.






### Note

The PJP-MC24 builds the network topology at the start of the conference, so participants will not be able to connect to the product before it has established a connection with them. Please wait for the PJP-MC24 to establish a connection.

## Conference Status page display after participants have been called

The status of scheduled conference participants is listed as **Inviting**.

### • Participants

Name	Number	Status	
New York Office	0010	 Inviting	Cancel
Tokyo Office	0020	 Inviting	Cancel
Paris Office	0030	 Inviting	Cancel
Beijing Office	0040	 Inviting	Cancel
London Office	0050	 Inviting	Cancel

## 3

## Start the Conference









### Note

- The **MIC MUTE** is automatically switched on once connection has been established. Before the conference starts, use the **MIC MUTE** button to switch **MIC MUTE** off.
- If a server is disconnected while a conference is in session, the clients that are connected to the server will also be disconnected. The line will be connected automatically, so please wait.

## Conference Status page display once the conference has started

Conference participants are listed as **Attending**.

### • Participants

Name	Number	Status	
New York Office	0010	 Attending	
Tokyo Office	0020	 Attending	
Paris Office	0030	 Attending	
Beijing Office	0040	 Attending	
London Office	0050	 Attending	
Sydney Office	0060	 Attending	
Seoul Office	0070	 Attending	
Madrid Office	0080	 Attending	

### If the Conference Does Not Start

See “Q3: When You Cannot Hold a Conference” (page 82).

# Starting a Conference Before the Scheduled Start Time

To start a conference immediately without waiting for the scheduled conference start time, follow these steps on the Web interface.

Call History  
Error History

IP Settings  
System Settings  
Mail Settings

System Information  
Maintenance

- Active Conferences : 0 (2007/12/03 15:51:30 +09:00)
 

Name	Number	Date/Time	Type	Monitor
No active conferences				
- Scheduled Conferences : 1 (2007/12/03 15:51:38 +09:00)
 

Name	Number	Date/Time	Type	Schedule
<u>Business Meeting</u>	0001	2007/10/01 16:00 - 17:00	MAX4	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Top Page

Conference Status

Conference List  
Conference History  
Conference Settings

Participants  
Participant Settings  
Call Status  
Call History  
Error History

- Scheduled conferences (2007/12/03 15:51:38 +09:00)
 

Name	Number	Date/Time	Type	Monitor			
Business Meeting	0001	2007/12/03 16:00 -	MAX10				
Status	Auto-invite	Elapsed	Remaining	Schedule			
Wait Schedule	Not proceeded	-	-	<input type="button" value="Edit"/>			
(Owner)		(Contact)					
Sales Division: Tanaka		03-1111-1001					
(Description)							
Start conference immediately							
Operation							
Start conference immediately				<input type="button" value="Start"/>			

1

On the **Top Page** under **Scheduled Conferences**, click the name of the scheduled conference that you want to start.

The **Conference Status** page appears.

2

Click the **Start** button under **Operation**.

The **Start Conference** window opens.

3

Select the conference duration, and then click **Start**.

The PJP-MC24 will begin conference preparation.

The PJP-MC24 will finish preparing in about 10 seconds and will then start calling participants.

#### Note

It may not be possible to start the selected conference using this method if another conference is already in session.

# Operations during Reserved Conference

## Checking Conference Status

You can check the status of an active conference on the **Conference Status** page.

The **Conference Status** page shows you information such as participant status and conference reservation details.

The screenshot shows the 'Conference Status' page. On the left is a sidebar menu with options: Top Page, Conference Status (highlighted), Conference List, Conference History, Conference information (with a sub-menu: Participants, Participant Settings, Call Status, Call History, Error History), IP Settings, System Settings, Mail Settings, System Information, Maintenance, and Participant information. The main content area is titled 'Conference Status' and shows details for a conference on 2007/12/03 at 16:00:38 +09:00. It includes a table with columns: Name, Number, Date/Time, Type, and Monitor. The first row shows 'Business Meeting' with number '0001' and type 'MAX10'. Below this is a table with columns: Status, Auto-invite, Elapsed, Remaining, and Schedule. The first row shows 'Active', 'Proceeding', '00:00', '01:00', and an 'Edit' button. Further down are sections for (Owner), (Contact), (Description), and Operation. The Operation section has buttons for 'Terminate' and 'Extend'. At the bottom is a 'Participants' section with a table showing names, numbers, and status (all 'Attending').

**Click**

7/12/03 16:00:38 +09:00)

Name	Number	Date/Time	Type	Monitor
Business Meeting	0001	2007/12/03 16:00 - 17:00	MAX10	Monitor

Status	Auto-invite	Elapsed	Remaining	Schedule
Active	Proceeding	00:00	01:00	Edit

(Owner)

Sales Division: Tanaka

(Contact)

03-1111-1001

(Description)

Sales Report

Operation

Terminate active conference

Extend conference time

Terminate

Extend

Participants

Name	Number	Status
New York Office	0010	Attending
Tokyo Office	0020	Attending
Paris Office	0030	Attending
Beijing Office	0040	Attending
London Office	0050	Attending
Sydney Office	0060	Attending
Seoul Office	0070	Attending

Click **Conference Status** on the main window.

The **Conference Status** page appears.

### Monitoring a conference in real time

Click **Monitor** on the **Conference Status** page to open the **Monitor Conference** window.

Set the **Refresh Interval** and then click **Start** to begin monitoring the conference.

# Extending a Conference

To extend a conference beyond the scheduled conference end time, follow these steps on the Web interface.

The screenshot shows the 'Conference Status' page. On the left is a sidebar with navigation links: Top Page, Conference Status (selected), Conference List, Conference History, Conference Settings, Participants, Participant Settings, Call Status, Call History, Error History, IP Settings, and System Settings. The main content area is titled 'Conference Status' and shows 'Active conferences (2007/12/03 16:00:38 +09:00)'. It contains a table with columns: Name, Number, Date/Time, Type, and Monitor. The first row shows 'Business Meeting' with number '0001' and time '2007/12/03 16:00 - 17:00'. Below this is another table with columns: Status, Auto-invite, Elapsed, Remaining, and Schedule. The first row shows 'Active', 'Proceeding', '00:00', '01:00', and an 'Edit' button. Below these tables are sections for (Owner), (Contact), (Description), and Operation. The Operation section has a 'Terminate active' button and an 'Extend conference time' button. A callout box labeled '1 Click' points to the 'Extend conference time' button.

Name	Number	Date/Time	Type	Monitor
Business Meeting	0001	2007/12/03 16:00 - 17:00	MAX10	Monitor

Status	Auto-invite	Elapsed	Remaining	Schedule
Active	Proceeding	00:00	01:00	Edit

(Owner)  
Sales Division: Tanaka

(Contact)  
03-1111-1001

(Description)  
Sales Report

Operation  
Terminate active  
Extend conference time

1 Click

The screenshot shows the 'Extend Conference' dialog box. It has a title bar with the URL 'http://192.168.100.101 - PJP-MC24 / Terminate Conference - Microsoft...'. The main content area says 'To extend the conference, select the extend time and click "Execute" button.' Below this is a dropdown menu showing '15 minutes'. A callout box labeled '2 Select' points to the dropdown menu. At the bottom is an 'Execute' button. A callout box labeled '2 Click' points to the 'Execute' button.

Extend Conference

To extend the conference, select the extend time and click "Execute" button.

15 minutes

Execute

2 Select

2 Click

**1** On the **Conference Status** page (see previous page), click **Extend** under **Operation**.

The **Extend Conference** window opens.

**2** Select the amount of time for which you want to extend the conference, and then click **Execute**.

The conference time will be extended.

### Note

It may not be possible to extend the selected conference using this method if another conference is already in session.

# Changing the Participants in an Active Conference

You can add or remove participants in an active conference.

## Points to consider when changing participants

Different limitations apply to changing participants, depending on which conference type you selected on the **Add/Edit Conference Schedule** window (page 51).

### When the conference type is **Max. 4** (Project Phone series only)

- You can add or remove participants as long as the number of participants stays at 4 or below.
- If you want to add more than four participants, you will have to temporarily stop the conference and switch the conference type to **Max. 10**.

### When the conference type is **Max. 10**

- You can add or remove participants as long as the number of participants stays at 10 or below.
- Removing a server terminal may cause the clients connected to it to be disconnected. The line will be connected automatically, so please wait.

# 1

On the **Conference Status** page (page 60), click **Edit** under **Schedule**.

Business Meeting	0001	2007/12/03 16:00 - 17:00		MAX10	Monitor
Status	Auto-invite	Elapsed	Remaining		Schedule
Active	Proceeding	00:00	01:00		Edit
(Owner)			(Contact)		
Sales Division: Tanaka			03-1111-1001		
(Description)					
Sales Report					

The **Add/Edit Conference Schedule** window opens.

# 2

Change the participants.

### To add new participants

- Click the **Select** button next to **Participants** to open the **Add/Edit Conference Schedule / Participants** window.
- Click to put a check next to the participants that you want to add, and click **Apply**.

### To remove participants from a conference

Remove the checks that are next to the participants that you want to remove.

# 3

Click **Apply**.

The participants specified in step 2 will be added or removed.

# Ending a Conference

## Ending a Conference at the Scheduled Ending Time

No operation is necessary.

When the conference ending time is reached, the PJP-MC24 automatically disconnects all participants.

## Ending a Conference Immediately

Follow these steps on the Web interface:

The screenshot shows the PJP-MC24 web interface. On the left is a sidebar menu with options: Conference History, Conference Settings, Participants, Participant Settings, Call Status, Call History, Error History, IP Settings, and System Settings. The main content area displays a table with columns: Status, Auto-invite, Elapsed, Remaining, and Schedule. The table shows a conference in 'Active' status, 'Proceeding', with 00:46 elapsed and 00:14 remaining. Below the table, there are sections for '(Owner)' (Sales Division: Tanaka), '(Contact)' (03-1111-1001), and '(Description)'. Under the '(Description)' section, there is a '1 Click' callout pointing to the 'Terminate' button. Below the 'Terminate' button is an 'Extend' button. The 'Terminate' button is labeled 'Terminate active conference'.

The screenshot shows a web browser window titled 'http://192.168.100.101 - PJP-MC24 / Terminate Conference - Microsoft Intern...'. The main content area is titled 'Terminate Conference' and contains the text: 'Click 'Execute' button to terminate the conference ' (Business Meeting) '. Below the text is an 'Execute' button. A '2 Click' callout points to the 'Execute' button.

1

On the **Conference Status** page (see page 60), click **Terminate** under **Operation**.

The **Terminate Conference** window opens.

2

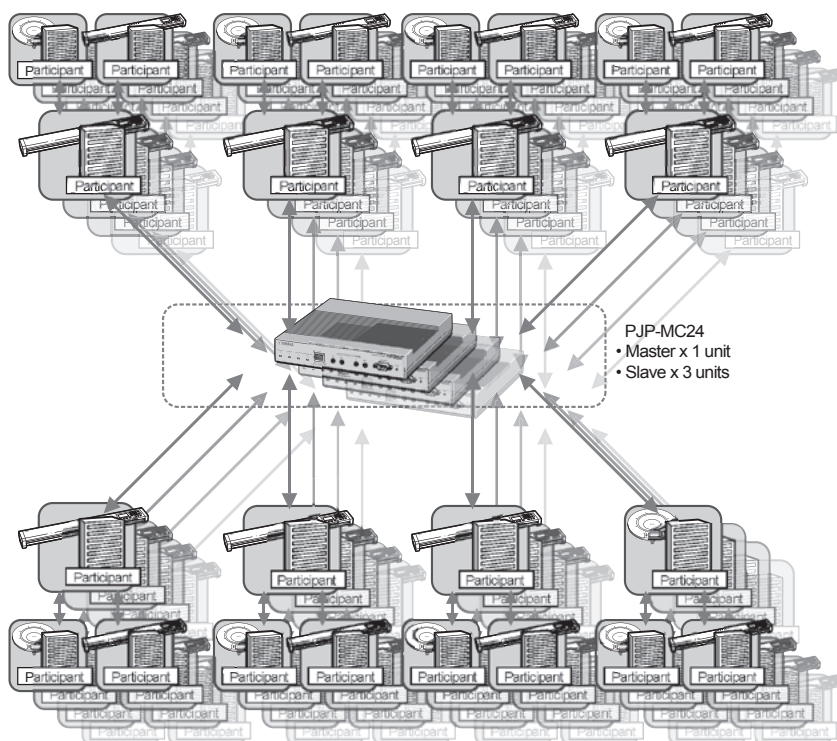
Click **Execute**.

The PJP-MC24 will end the conference.

To ensure that they disconnect, all participants should close their connections by pressing the ProjectPhone hang-up button.

# Increasing the Number of Mixer Conference Participants (Cascade)

You can hold a mixer conference with up to 96 participants by linking up to four PJP-MC24 units.



## How to Use Cascade

In the **Cascade Setting** window, assign each PJP-MC24 comprising the system as either the master (1 unit only) that manages conference reservations or a slave in charge of mixing only.

### How to Open the **Cascade Setting** Window

Select **System Settings**, and click **Change** next to **Cascade**.

## Tips

For more information on Cascade settings, refer to Help of the Cascade Setting window.



# Overview of Conference without a Reservation

Two types of conferences can be held using the PJP-MC24 without a reservation: Ad-hoc conferences, and conferences started by one ProjectPhone calling other ProjectPhone directly.

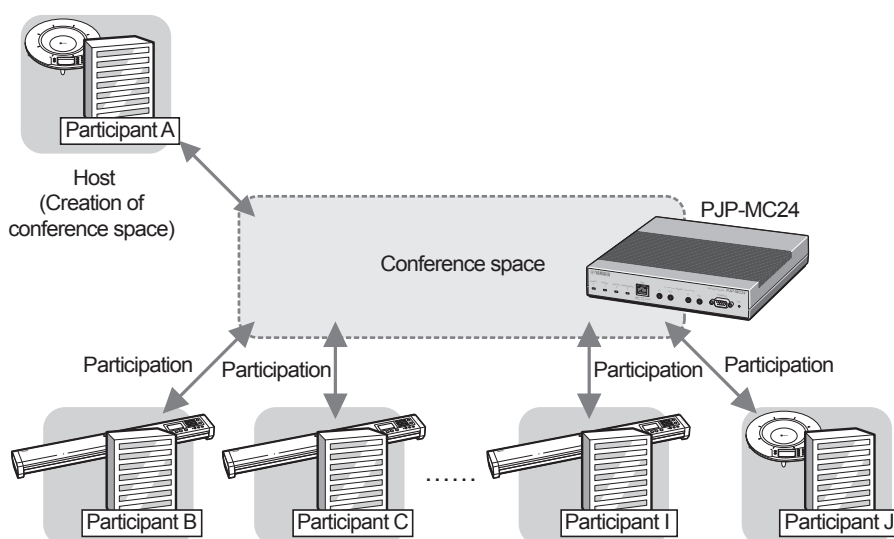
You can select the conference type according to the number of participants and other conditions.

## Tips

To start a conference with a reservation, refer to "Starting a Conference with a Reservation" (page 49).

## Ad-hoc Conference

Up to 10 participants can join a conference space provided by the host without a reservation. The participants can join a conference given at any time and held in an open space where they can discuss freely.



## Conference Started by One ProjectPhone Calling Other ProjectPhone

If the PJP-MC24 is used in an environment where a SIP server is implemented, it is possible to dial other participants from a ProjectPhone.

# Starting a Conference in a Conference Space Provided by the Host (Ad-hoc Conference)

Up to 10 participants can join a conference space (by calling the conference number) provided by the host without a reservation (ad-hoc conference).

## Note

- See the next page if you want to start a conference with 11 or more participants without a reservation.
- In an ad-hoc conference, the security function such as password-based connection authentication cannot be used. To limit the participants, hold a conference with a reservation (page 49).

1

The host dials the prefix for ad-hoc conference “1111” followed by a given “conference number.”

The conference number should be different from any of the conference numbers already used for reserved conferences or ad-hoc conferences in session.

**Example: Starting an ad-hoc conference using conference number 3030**

Dial “①①①①③⑦③⑦”.

**If you hear a warning tone,**

The conference number is already in use. Specify a different conference number and dial again.

**If you hear a busy tone,**

The maximum number of simultaneous conferences may be currently in session. Wait for a while and dial again.

**Tips**

The prefix can also be changed in the **Ad-hoc Conference Settings** in the **Conference Settings** page displayed by clicking **Conference Settings** on the left side of the Web interface.

2

The host notifies the participants of the ad-hoc conference number.

3

Each participant dials the ad-hoc conference number.

The participants join the conference.

**When the conference is over,**

Each participant, including the host, clicks the On-Hook button to disconnect from the conference.

The ad-hoc conference will end automatically when there is no longer any participant connected to the conference.

# Starting a Conference with 11 or More Participants without a Reservation

To start a conference with 11 or more participants, or an emergency conference in a secure manner, follow these steps on the Web interface of the PJP-MC24.

## Tips

The following operation lets you hold a conference without a reservation, even when the number of participants is 10 or less.

1

Reserve a conference following the steps listed under “Reserving a Conference” (page 51).

Enter the following information when you make the reservation:

- **Name:** Enter the conference name (any name is fine).
- **Number:** Enter the conference number (any number is fine).
- **Date/Time:** Pick any future date and time.
- **Participants:** Specify the conference participants.
- **Type:** Select the conference type.

You do not need to configure any settings other than the ones listed above.

2

Start the conference by following the steps listed under “Starting a Conference Before the Scheduled Start Time” (page 59).

# Starting a Conference with One ProjectPhone Calling Other Project Phone

If the PJP-MC24 is used in an environment where a SIP server is implemented, it is possible to dial other participants from a ProjectPhone.

## Tips

For more information on calls between ProjectPhones using a SIP server, see “Using a SIP Server” in the ProjectPhone manual.

# PJP-MC24 Maintenance and Management Features

This chapter explains this product's maintenance and management features. For more detailed information about each feature, refer to the help in the Web interface.

## Note

Only the 100 latest records meeting the filter conditions can be displayed on the Web interface as conference history, call history and error history information. To check all records stored in the PJP-MC24, download the CSV file and open it in Microsoft Excel or other spreadsheet software.

## Checking Call Status

If you are logged in as an administrator, you can click **Call Status** on the Web interface's main window to check the status of all calls that are made using the PJP-MC24 as a SIP server.

You can display call start **Date/Time**, **Caller number** (the location number that was dialed from), **Callee number** (the location number that was dialed to), and **Call Duration**.

## Viewing Call History

If you are logged in as an administrator, you can click **Call History** on the Web interface's main window to view the **Call History** of all calls that have been made using the PJP-MC24 as a SIP server (a maximum of 25,000 calls can be recorded).

- You can view **Call Date/Time**, **Caller number** (the location number that was dialed from), **Callee number** (the location number that was dialed to), **Call Duration**, and **Call Status** (at the time a call ended).
- You can also search for history items that match certain criteria (call date and time, callee number, etc.).

## Viewing Detected Errors

If you are logged in as an administrator, you can click **Error History** on the Web interface's main window to view the error history of all errors that the PJP-MC24 has detected (a maximum of 1,500 errors can be recorded).

- You can view **Call Date/Time**, **Caller number** (the location number that was dialed from), **Callee number** (the location number that was dialed to), **Error Level**, and **Error Info**.
- You can also search for history items that match certain criteria (call date and time, callee number, etc.).
- You can configure the PJP-MC24 to automatically send a notification e-mail whenever it detects an error. Click **Mail Settings** on the Web interface's main window while logged in as an administrator and then configure the settings on the **Mail Settings** page.

## Maintenance and Management

Click **Maintenance** on the Web interface's main window while logged in as an administrator to open the **Maintenance** page.

### Configuration management

You can manage data recorded in the PJP-MC24 configuration file (CONFIG).

- **Input Commands:** You can display and change settings using individual commands.
- **Output Configuration to Window:** Displays the current PJP-MC24 configuration settings.
- **Output Configuration to File:** Saves the current PJP-MC24 configuration settings to a PC.

### SYSLOG management

You can manage the command history data recorded in the PJP-MC24 SYSLOG file.

- **Host Address:** The IP address of the SYSLOG server used when the PJP-MC24 sends the SYSLOG to the server.
- **DEBUG/INFO/NOTICE:** You can individually choose whether or not to save or display the following types of SYSLOG.
- **Output SYSLOG to Window:** Displays the current SYSLOG.
- **Output SYSLOG to File:** Saves the current SYSLOG file to a PC.
- **Delete SYSLOG:** Deletes all SYSLOGs recorded in the PJP-MC24.

### History information management

You can manage all history information (conference history, call history, and error history).

- **Flash-Memory Save Time:** You can set the time when the PJP-MC24 will save its history information to the flash memory. While the PJP-MC24 is saving the data (for less than 100 seconds), all call controlling stops, so set a save time when the PJP-MC24 is unlikely to be in use.
- **Save History Information:** Saves history information to the non-volatile flash memory.
- **Delete History Information:** Deletes all history information including the information that has been saved to the flash memory.

### Special functions

- **Switch to Maintenance Mode:** Switch the PJP-MC24 to maintenance mode before changing setting configurations. New conference and call requests will be ignored while the PJP-MC24 is in the maintenance mode.
- **Restart:** The PJP-MC24 will cancel all calls and restart itself.
- **Recover Initial Settings:** See "Initializing the PJP-MC24" (page 84).

# Utilizing Latest Functions (Revision Upgrade)

You can utilize the latest functions by downloading from our website the latest program (firmware) to manage the functions of this product (revision upgrade).

## Software License Agreement

To use the revision upgrading function, you should 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 ProjectPhone program after having accepted (hereinafter “this product”) You can download this the terms and conditions of the present Software Licensing Agreement.

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

### 2 Inhibition of redistribution

You are permitted to download this program only when you are intended to upgrade the functions of this product. It is inhibited to upload or post this program in a website accessible by an unspecified number of the general public unless there is a permission from Yamaha.

### 3 Production of duplicates

You may not produce duplicates of this program unless when it is necessary for backing up purpose or for upgrading of more than one 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

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

### 6 Export control

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

### 7 Compliance to laws and regulations

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

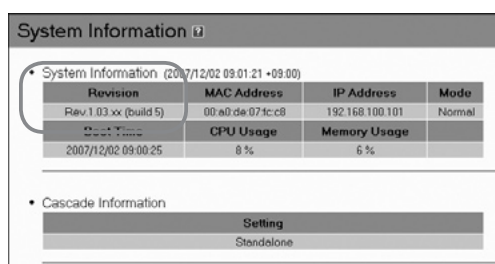
# Utilizing the latest functions (revision upgrade) (Continued)

## Upgrading to the Latest Revision

Obtain the latest firmware using a PC, etc., and transfer the firmware to the product via TFTP to upgrade the program to the latest revision.

### 1. Check the latest revision number

Check Revision of the System Information window.



#### Opening the System Information window:

Click the following items in the Web interface:

- System Information in the main window while logged in as an administrator

### 2. Obtain the latest firmware

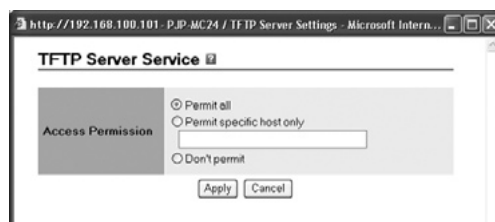
Access the ProjectPhone support page from a PC to obtain the latest firmware.

#### ProjectPhone support page

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

### 3. Permit TFTP server access

Permit the product to access the TFTP server on the **TFTP Server Settings** window.



#### Opening the TFTP Server Settings window

Click the following items in the Web interface:

- **Maintenance** on the main window while logged in as an administrator.
- **Change** under **TFTP Server Settings**



## 4. Transfer the firmware to the product

### Note

- Once the revision upgrade is started, never perform any operation until the upgrade is completed and the product is restarted. If the upgrade is interrupted, the product may become unusable. In this case, you must bring the product to YAMAHA for repair.
- Once the revision upgrade is completed, the product restarts automatically. When the product is restarted, all communication is disconnected.
- Never disconnect the LAN cable while the revision upgrade is still in progress. Doing so may render the product unusable, in which case you must bring the product to YAMAHA for repair.

Follow the operating steps below:

- 1 Launch Command Prompt on a Windows PC where the product has been permitted to access the TFTP server (previous page).**

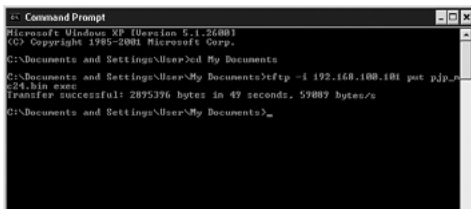
If you are using a Windows XP PC, click **Start**, click **All Programs**, click **Accessories**, and then select **Command Prompt**.

- 2 Enter and execute the following command:**

```
tftp -i [IP address of the product]
put [File name]exec -i
```

### Entry example:

```
tftp -i 192.168.100.101 put pjp_mc24.
bin exec -i
```



The revision upgrade is started.

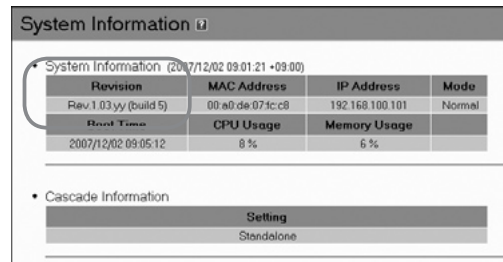
**It takes several minutes before the product is upgraded.**

The ALARM, STATUS and CONFERENCE LEDs turn on one by one while the product is being upgraded. Do not turn off the power to the product while any of the LEDs is lit.

Once the revision upgrade is completed,

the product is restarted.

In **Revision** of the **System Information** window, confirm that the revision number has been updated.



### Opening the System Information window:

Click the following items in the Web interface:

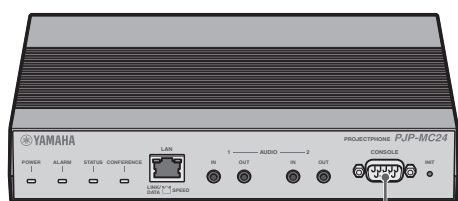
- **System Information** in the main window while logged in as an administrator

# Changing Settings from the CONSOLE Port

The settings of the PJP-MC24 can be changed using a PC connected to the CONSOLE port.

## 1. Connect the CONSOLE port to the SFlb PC

Use a cross serial cable to connect the PJP-MC24 CONSOLE port and a PC serial port.



CONSOLE Port

### Tips

Use connectors that match the PJP-MC24 (D-sub9 pin, male) and the PC.

## 2. Confirming the CONSOLE port number

Check the COM port number of the PC serial port that you intend to connect to.

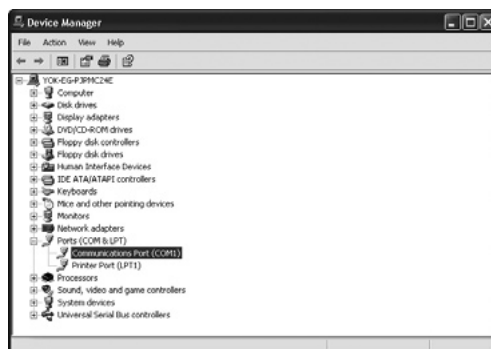
- 1 Click **My Computer** on the **Start** menu.
- 2 Click **View System Information** under **System Tasks**.

The **System Properties** window opens.

- 3 Click the **Hardware** tab.
- 4 Click **Device Manager**.

The **Device Manager** window opens.

- 5 Click **Ports (COM&LPT)** and confirm the **Communications Port (COMx)** number.



The COM port number is typically **COM1**.

- 6 Close the **Device Manager** and **System Properties** windows.

### 3. Specify the CONSOLE port and establish connection.

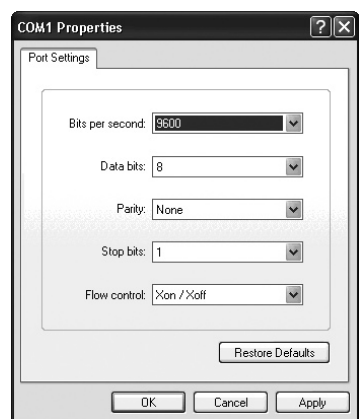
Log in to the PJP-MC24 using the PC that is connected to the CONSOLE port. Use console commands to configure settings. The following example uses Windows **HyperTerminal**.

- 1 On the task bar, click **Start**, point to **Programs > Accessories > Communications**, and click **HyperTerminal**.  
The **Connection Description** window opens.
- 2 Enter the connection name in the **Name** box.  
You can enter any connection name.
- 3 Select the **CONSOLE** port number that you identified in “2. Confirming the CONSOLE Port Number” from **Connect Using** and click **OK**.



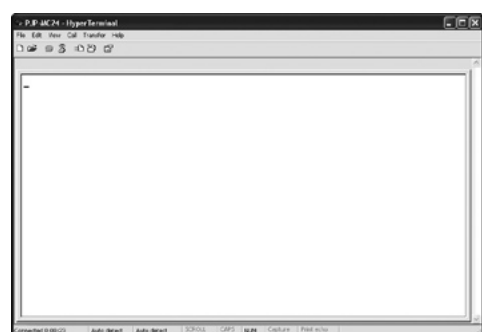
The **COMx Properties** window opens.

- 4 Enter the following values.



- Bits per second: 9600
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: Xon/Xoff

- 5 Click **OK**  
The **HyperTerminal** window opens.



## Changing Settings from the CONSOLE Port (Continued)

### 4. Log in.

- 1 Turn the PJP-MC24 off.
  - 2 Use a serial cable to connect the PJP-MC24 CONSOLE port and a PC serial port.
- For information on PC settings and connection, see page 74.

- 3 Start a terminal software program on the PC.

See the previous page for details.

- 4 Turn the PJP-MC24 on.

The PC terminal software displays the PJP-MC24 ROM version and waits for you to press the Enter key.

- 5 Press the Enter key.

The Password: box appears.

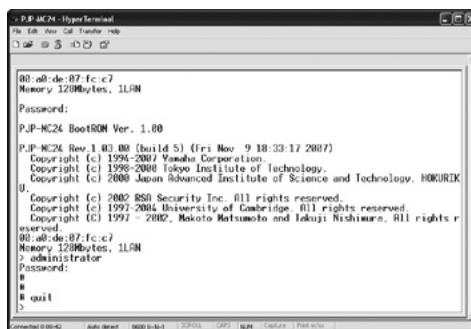
- 6 Press the Enter key.

If a > is displayed you can enter console commands.

- 7 Type "administrator" and press the Enter key.

- 8 When the Password: box appears, type the administrator password.

When # appears, you can change the settings of the PJP-MC24 using console commands.



- 9 Enter console commands to set desired items.

- 10 When all items have been set, type "save" and then press the Enter key.

The settings you just made with console commands are saved to the PJP-MC24's memory.

- 11 To end the settings, type "quit" and then press the Enter key.

# If you suspect a failure

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## Before Contacting Customer Support

Before contacting customer support, please review the information in this manual to see if you can use it to solve your problem.

---

### Confirm the following:

- **Is the POWER LED on?**  
If not, refer to the next page.
- **Is the LINK LED at the LAN port on?**  
If not, refer to the next page.

---

### Check the STATUS LED

If it is on, there is a connection problem. See page 79.

---

## How to Fix Your Problem

Refer to the help chapter that matches the situation most:

- **Q1: When LEDs are off or blinking** (next page)
- **Q2: When the Web Interface is Not Working** (page 80)
- **Q3: When You Cannot Hold a Conference** (page 82)
- **Q4: Other Problems** (page 83)

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### If your problem was not solved

Contact YAMAHA customer support (page 86).

# Q1 When LEDs are off or blinking

Symptom ▶	Cause ▶	Solution
<b>All LEDs do not light.</b>	The PJP-MC24 is not turned on.	Turn the power switch on.
	The power cord is not connected.	Make sure that the power cord is secured firmly in the power socket.
	The main or line circuit breakers have been tripped.	<ul style="list-style-type: none"> <li>• If the breaker is switched off, switch it on.</li> <li>• If the breaker is switched on, switch it off and then back on again.</li> </ul>
	There is a power outage.	Wait until power returns.
	The outlet is not receiving power. (when other devices cannot be used either).	<ul style="list-style-type: none"> <li>• If other devices are not functioning either, have the outlet or wiring fixed.</li> <li>• If other devices are functioning on the same outlet, have the PJP-MC24 fixed.</li> </ul>
<b>The LINK LED at the LAN port does not turn on.</b>	The PC or hub is turned off.	Confirm that the PJP-MC24 and the devices connected to it are on. Even if a device is connected correctly to the LAN port, the LAN LED will not light unless the connected device is turned on.
	The PJP-MC24 is not connected properly.	Remove all cords and then reinsert them, making sure that they click into place.
	The cable in use is not a LAN cable.	<ul style="list-style-type: none"> <li>• Make sure that you are not using an ISDN cable (the connectors look exactly the same, so it can be hard to tell the difference).</li> <li>• Try switching to a different LAN cable.</li> </ul>
	The PC LAN (network) card is not functioning properly, or its connection mode is not compatible with the PJP-MC24.	<ul style="list-style-type: none"> <li>• If other devices are not functioning either, have the outlet or wiring fixed.</li> <li>• If other devices are functioning on the same outlet, have the PJP-MC24 fixed.</li> </ul>
<b>All LEDs are lighted</b>	Immediately after the power has been turned on (normal operation).	Wait for about three seconds for loading to finish.
	The PJP-MC24 is broken.	Have the PJP-MC24 repaired.

# Q1 When LEDs are off or blinking (continued)

Symptom ▶	Cause ▶	Solution
<b>STATUS LED is blinking.</b>	The PJP-MC24 is malfunctioning.	Initialize the PJP-MC24 (page 84), and reconfigure its settings.
<b>STATUS LED is lighted.</b>	There is a connection problem.	<ul style="list-style-type: none"> <li>• Confirm that there is no connection problem, and the IP Keepalive settings are properly configured (page 29).</li> <li>• The STATUS LED lights if the PJP-MC24 fails to connect to even one IP Keepalive recipient address.</li> </ul>
<b>There is a connection problem, but the STATUS LED does not light.</b>	IP Keepalive has not been set.	Configure the IP Keepalive settings (page 29).
	The IP Keepalive function does not detect a connection problem.	Wait for a few minutes, and check the STATUS LED again.

# Q2 When the Web Interface is Not Working

Symptom ▶	Cause ▶	Solution
The Web interface is inaccessible.	The PJP-MC24 does not recognize the PC (The LINK LED above the LAN port is not lighted).	See “The LINK LED at the LAN port does not turn on” (page 78).
	The PC network settings are incorrect (other PCs and printers on the LAN are not functioning).	<ul style="list-style-type: none"> <li>• Reconfigure the LAN port and card settings, and reboot the PC.</li> <li>• Reset the PC IP address.</li> </ul>
	The PJP-MC24 is malfunctioning.	Initialize the PJP-MC24 (page 84), and reconfigure the settings.
	The PJP-MC24 LAN Port IP address has not been set.	<ul style="list-style-type: none"> <li>• If connecting to a PC through a LAN port, set the LAN port IP address.</li> <li>• Properly configure the PC network settings. When using DHCP, use a separate DHCP server.</li> </ul>
	Access to the Web interface is blocked.	<ul style="list-style-type: none"> <li>• If the IP address access limitation feature is enabled, the following message will be displayed when you try to connect from an unauthorized host: Error503 “This server is available to members only. I’m sorry, your host is not member.” When using remote control, reconfigure the <b>GUI Settings</b>.</li> <li>• Connect to the PJP-MC24 using a PC that has been granted access permission or change the access settings on the <b>GUI Settings</b> window.</li> </ul>
	The port number has been changed on the <b>GUI Settings</b> window.	Access by typing “http://(IP address):(port number)” (for example http://192.168.100.101:80/) into your Web browser.
	The specified URL is invalid.	When using the PJP-MC24 for the first time or after reverting it to the defaults, access “http://192.168.100.101/.”
	The Web browser is not configured to connect via LAN.	If you are using Windows Internet Explorer 6: the connection settings are found in the <b>Connection</b> tab under <b>Internet Options</b> . If the connection method is set to dial-up, the browser will not be able to access the Web interface. Change the connection setting to <b>Never dial a connection</b> .



# Q2 When the Web Interface Is Not Working (Continued)

Symptom ▶	Cause ▶	Solution
The Web interface is inaccessible (continued).	The Web browser is using a proxy server.	<ul style="list-style-type: none"> <li>You can only access the Web interface if the proxy settings are configured properly.</li> <li>If you are using Windows Internet Explorer 6: On the <b>Tools</b> menu, click <b>Internet Options</b>. Click the <b>Connection</b> tab and then click <b>LAN Settings</b>. Then clear the <b>Use a proxy server for your LAN</b> check box.</li> </ul>
The Web interface cannot be accessed even when a password is entered.	The password is incorrect. (The interface indicates that the password is incorrect).	<ul style="list-style-type: none"> <li>The password is case sensitive. Make sure that the case is correct for every letter.</li> <li>A problem may arise if the Web browser is set to automatically enter a password and username when connecting. Delete the username and then enter the password again, or close the browser before accessing the Web interface again.</li> </ul>
	You cannot access the Web interface using the entered password.	Enter the administrator password.
The settings have returned to their previous configuration.	The <b>Apply</b> button was not clicked after configuration.	Be sure to save settings made on the Web interface by clicking the <b>Apply</b> button. Settings will not be saved if the <b>Apply</b> button is not clicked.
Cannot save a set password in the Web browser for logging in to the Web interface.	The user box is blank on the <b>Network Password</b> page.	Some Web browsers do not let you save a password without also saving a username. Enter a username.
A login prompt appears even though a password has not been set.	A login prompt will appear even if no password has been set (this is normal).	Log in as "administrator" and leave the password blank. And click <b>OK</b> .

# Q3 When you cannot hold a conference

Symptom ▶	Cause ▶	Solution
<b>Cannot register participant information (nothing is displayed in the error history)</b>	The participant's ProjectPhone is not configured to register to the PJP-MC24. Or the server address is not correct.	Make sure that the participant's ProjectPhone is set to recognize the PJP-MC24 (LAN port) IP address as a SIP server address.
	There is a problem with the network connecting the PJP-MC24 to the participant's ProjectPhone.	<ul style="list-style-type: none"> <li>• Confirm that all network devices are configured properly.</li> <li>• Ping all connected network devices to find the source of the error.</li> </ul>
<b>Cannot register participant information to the Web interface. (a 401 error is displayed in the error history)</b>	The participant information has not yet been entered into the PJP-MC24.	Enter the participant information.
	The authentication password is incorrect.	Configure the ProjectPhone to use the same password as the one set for participants on the PJP-MC24 (passwords are case sensitive).
<b>Cannot register participant information to the Web interface. (a 403 error is displayed in the error history)</b>	The SIP domain name is incorrect.	Set the ProjectPhone's SIP address to the same value as the domain name in the PJP-MC24 <b>Basic Settings</b> (i.e. sip: (location number)@(domain name)).
<b>Cannot register participant information to the Web interface. (a 480 error is displayed in the error history)</b>	The PJP-MC24 is in maintenance mode.	The PJP-MC24 will not register new information while in maintenance mode. Click <b>Execute</b> next to <b>Switch to Normal Mode</b> .
<b>A conference participant cannot be reached</b>	The participant's ProjectPhone is not on.	Check to make sure that the ProjectPhone is plugged in and switched on.
	The participant's ProjectPhone LAN cable is disconnected.	Properly connect the LAN cable.
	The participant's ProjectPhone <b>Remote Control</b> feature is not activated.	Adjust the settings using the keys on the ProjectPhone (page 47).

# Q4 Other problems

Symptom ▶	Cause ▶	Solution
<b>Cannot synchronize the PJP-MC24 or PC to an NTP server. to the Web interface.</b>	The NTP server IP address or domain name is incorrect.	<ul style="list-style-type: none"><li>• Check to make sure that the settings match the NTP server information.</li><li>• Ping the NTP server to confirm that it is functioning.</li></ul>
	The route to the registered NTP server has not been configured.	Check the provider and route settings.
<b>An incorrect time is displayed.</b>	The time zone is not set properly.	Set the time zone according to the PJP-MC24 location.
<b>Cannot log in on CONSOLE Port</b>	You are using a straight serial cable.	Use a cross serial cable.
	The serial port settings are incorrect.	Set to 9600 bps, 8 bits, 1 stop bit, and no parity (page 75).

# Initializing the PJP-MC24

You can recover the PJP-MC24's factory settings.

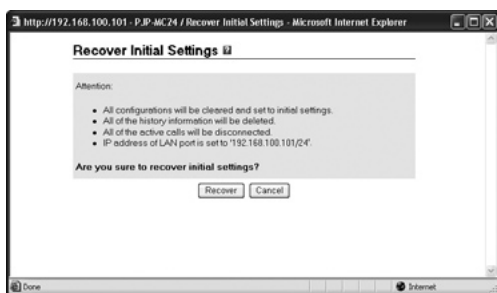
## Note

When recovering initial settings, please keep in mind the following:

- All communications will be interrupted when the recovering initial settings is finished.
- All settings with initial values will return to those values.
- All registered addresses will be deleted.
- Non-volatile memory will be overwritten.
- The process is irreversible. You cannot undo the initialization.

## Initializing on the Web interface

You can initialize the PJP-MC24 (recover its factory settings) from **Recover Initial Settings** page.



For more information, click the help icon on the Web interface to display an explanation of the settings.

### How to Access the **Recover Initial Settings** Page

Click the following items in the Web interface:

- **Maintenance** on the main window while logged in as an administrator.
- **Execute**, next to **Recover Initial Settings** under **Special Functions**.

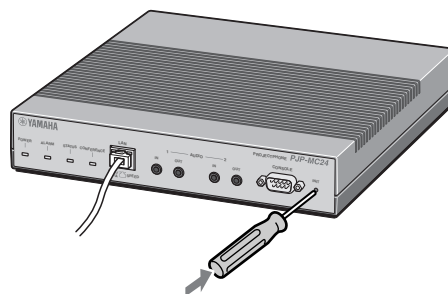
**If initialization cannot be performed on the Web interface, such as when a wrong IP address has been set for the PJP-MC24, perform the following operation.**

### 1 Turn the PJP-MC24 off.

There is no need to disconnect the cables.

### 2 Turn on the PJP-MC24 while pressing the **INIT** switch.

This switch is located at the bottom of a small hole. Press it using the tip of a precision screwdriver, ball-point pen or other object with a sharp tip.



The LEDs on the front panel of the PJP-MC24 blink several times.

### 3 Release the **INIT** switch.

All settings of the PJP-MC24 return to the factory settings.

Since all items you have set are initialized, you must configure all settings again.

# If You Forget Your Password

If you forget your login or administrator password, you will be unable to access the PJP-MC24. However, you can access the PJP-MC24 from a serial terminal connected to the CONSOLE port by logging on with this emergency password.

## Emergency Password

w,lXlma

You will have administrative privileges when you log in with the emergency password. Set new administrative and login passwords. When you change passwords and are prompted for the previous password, you can use the emergency password in place of the actual previously set password.

## Resetting Passwords

Log in to the PJP-MC24 using the emergency password and reset the passwords.

- 1 Perform steps 1 to 7 under 4, “Log In” (page 76).**
- 2 When the Password: box appears, enter the emergency password.**
- 3 Enter a command appropriate for the type of the password you want to reset.**
  - If you forgot the administrator password, type “administrator password” and press the Enter key.
  - If you forgot the login password, type “login password” and press the Enter key.
- 4 When the Old\_Password: box appears, enter the emergency password.**
- 5 When the New\_Password: box appears, enter the new password.**
- 6 When the New\_Password: box appears again, enter the new password set in step 5 one more time for confirmation.**
- 7 Type “save” and press the Enter key.**
- 8 Type “quit” and press the Enter key.**

The password has been reset.

The next time you log in, use the new password entered in step 5.

# Contacting Customer Support

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## Before Contacting Customer Support

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### Please check the manual

Check to see if the solution to your problem can be found in the manual.

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### Check log information and setting configurations

A Yamaha representative may ask for log (SYSLOG) or configuration (config) information in order to understand the situation. The problem may be easier to fix if you provide log and configuration information along with a description of your problem.

You can view the log and configuration information using the following method.

**1 Open a PC Web browser and click **Open** on the **File** menu.**

The **Open** dialog box opens.

**2 Type “<http://192.168.100.101/>” using single-byte alphanumeric, and then click **OK**.**

The Web interface's user level main window opens.

**3 Click **Administrator Pages**.**

The Web interface's administrative main window opens.

**4 Click **Maintenance**.**

**5 Click **Execute** next to **Output Configuration to Window** in the **Configuration Management** window to view configuration information. Click **Execute** next to **Output SYSLOG to Window** in the **SYSLOG Management** window.**

to view log information. See also, “Maintenance and Management” (page 70).

# General Specifications

## External dimensions (width x height x depth)

220 mm x 42.6 mm x 220 mm

## Weight

1,200 g

## Power requirements

120 VAC, 60 Hz (USA, Canada)

230 VAC, 50 Hz (Europe)

220 VAC, 50 Hz (China)

100 VAC, 50/60 Hz (Japan)

## Current consumption

0.12 A max.

## Operating environment

Ambient temperature: 0 to 40°C

Ambient humidity: 15 to 80 %

(no condensation)

## Storage conditions

Ambient temperature: -20 to 50°C

Ambient humidity: 10 to 90 %

(no condensation)

## Radio interference standards

FCC Part 15 Class A (US)

EN55022 Class A (EU)

## LAN interface

10BASE-T/100BASE-TX Ethernet

1 port

Protocol: IEEE802.3/IEEE802.3u

Communication mode: Auto negotiation and  
fixed setting

Connector: RJ-45

MAC address: Written on the PJP-MC24 label

Polarity: straight or cross auto detection

## Serial interface

DTE fixed (cross cable for PC connection)

Number of Ports: 1

Asynchronous serial: RS-232C

Connector: D-sub 9 pin

Bits per second: 9600 bps

Data bit length: 8 bits

Parity check: None

Stop bits: 1 bit

Flow control: Software (Xon/Xoff)

## Audio input/output interface:

Stereo analog inputs/outputs (2 lines each).

Connector: Mini jack

## Display function (LED)

POWER, ALARM, STATUS, CONFERENCE,  
LINK, SPEED

## Accessories

- LAN cable x 1
- Instruction Manual (this manual) x 1
- CD-ROM 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 a STP (Shielded Twisted Pair) cable.

\*This is only applied when used in European region.

\*Specifications are subject to change without notice.

# Notes about Product Transfer and Disposal

When disposing of or transferring this product to another party, be sure to initialize the settings.

## Note

When transferring this product to another party, please be sure to include the manuals and instructions.

The saved configuration data contains registered participant IDs and passwords, call information, and other important information. If you hand over or dispose of the PJP-MC24 without initializing it, its data could be abused by a third party.

For instructions on how to initialize the PJP-MC24, see “Initializing the PJP-MC24” (page 84).



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For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

#### **NORTH AMERICA**

**Yamaha Electronics Corporation, U.S.A.**  
6600 Orangethorpe Ave., Buena Park, Calif.  
90620,  
U.S.A.  
Tel: 714-522-9105

#### **CENTRAL & SOUTH AMERICA**

**Yamaha Corporation,**  
**Asia-Pacific Music Marketing Group**  
Nakazawa-cho 10-1, Naka-ku, Hamamatsu,  
Japan 430-8650  
Tel: +81-53-460-2312

#### **EUROPE**

##### **THE UNITED KINGDOM/IRELAND**

**Yamaha Music U.K. Ltd.**  
Sherbourne Drive, Tilbrook, Milton Keynes,  
MK7 8BL, England  
Tel: 01908-366700

##### **GERMANY**

**Yamaha Music Central Europe GmbH**  
Siemensstraße 22-34, 25462 Rellingen,  
Germany  
Tel: 04101-3030

##### **SWITZERLAND/LIECHTENSTEIN**

**Yamaha Music Central Europe GmbH,**  
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Seefeldstrasse 94, 8008, Zürich, Switzerland  
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##### **AUSTRIA**

**Yamaha Music Central Europe GmbH,**  
**Branch Austria**  
Schleiergasse 20, A-1100 Wien, Austria  
Tel: 01-60203900

##### **CZECH REPUBLIC/SLOVAKIA/ HUNGARY/SLOVENIA**

**Yamaha Music Central Europe GmbH,**  
**Branch Austria, CEE Department**  
Schleiergasse 20, A-1100 Wien, Austria  
Tel: 01-602039025

##### **POLAND**

**Yamaha Music Central Europe GmbH,**  
**So.z. o.o. Oddział w Polsce**  
ul. 17 Stycznia 56, PL-02-146 Warszawa,  
Poland  
Tel: 022-868-07-57

##### **THE NETHERLANDS/ BELGIUM/LUXEMBOURG**

**Yamaha Music Central Europe GmbH,**  
**Branch Benelux**  
Clarissenhof 5-b, 4133 AB Vianen,  
The Netherlands  
Tel: 0347-358 040

##### **FRANCE**

**Yamaha Musique France**  
BP 70-77312 Marne-la-Vallée Cedex 2, France  
Tel: 01-64-61-4000

##### **ITALY**

**Yamaha Musica Italia S.P.A.**  
Viale Italia 88, 20020 Lainate, (Milano), Italy  
Tel: 02-935-771

##### **SPAIN/PORTUGAL**

**Yamaha Musica Iberica, S.A.**  
Ctra. de la Coruna km. 17, 200, 28230  
Las Rozas (Madrid), Spain  
Tel: 91-639-8888

##### **SWEDEN/FINLAND/NORWAY/ ICELAND**

**Yamaha Scandinavia AB**  
J. A. Wettergrens Gata 1  
Box 30053  
S-400 43 Göteborg, Sweden  
Tel: 031 89 34 00

##### **DENMARK**

**YS Copenhagen Liaison Office**  
Generatorvej 6A  
DK-2730 Herlev, Denmark  
Tel: 44 92 49 00

##### **OTHER EUROPEAN COUNTRIES**

**Yamaha Music Central Europe GmbH**  
Siemensstraße 22-34, 25462 Rellingen,  
Germany  
Tel: +49-4101-3030

#### **AFRICA**

**Yamaha Corporation,**  
**Asia-Pacific Music Marketing Group**  
Nakazawa-cho 10-1, Naka-ku, Hamamatsu,  
Japan 430-8650  
Tel: +81-53-460-2312

#### **MIDDLE EAST**

##### **TURKEY/CYPRUS**

**Yamaha Music Central Europe GmbH**  
Siemensstraße 22-34, 25462 Rellingen,  
Germany  
Tel: 04101-3030

##### **OTHER COUNTRIES**

**Yamaha Corporation,**  
**Asia-Pacific Music Marketing Group**  
Nakazawa-cho 10-1, Naka-ku, Hamamatsu,  
Japan 430-8650  
Tel: +81-53-460-2312

#### **ASIA**

##### **THE PEOPLE'S REPUBLIC OF CHINA**

**Yamaha Music & Electronics (China)  
Co.,Ltd.**  
25/F., United Plaza, 1468 Nanjing Road  
(West),  
Jingan, Shanghai, China  
Tel: 021-6247-2211

##### **OTHER ASIAN COUNTRIES**

**Yamaha Corporation,**  
**Asia-Pacific Music Marketing Group**  
Nakazawa-cho 10-1, Naka-ku, Hamamatsu,  
Japan 430-8650  
Tel: +81-53-460-2312

#### **OCEANIA**

**Yamaha Corporation,**  
**Asia-Pacific Music Marketing Group**  
Nakazawa-cho 10-1, Naka-ku, Hamamatsu,  
Japan 430-8650  
Tel: +81-53-460-2312

#### **HEAD OFFICE**

**Yamaha Corporation, Sound Network Division**  
Nakazawa-cho 10-1, Naka-ku, Hamamatsu, Japan 430-8650  
Tel: +81-53-460-3468

This owner's manual is based on the latest version of the firmware as of December, 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/>



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YAMAHA CORPORATION 10-1 Nakazawa-cho, Naka-ku, Hamamatsu, Shizuoka 430-8650, Japan

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