

# **DHD800**

## **Network Set-up & Operation**

### **USER MANUAL**

020-000246-01

**CHRISTIE®**

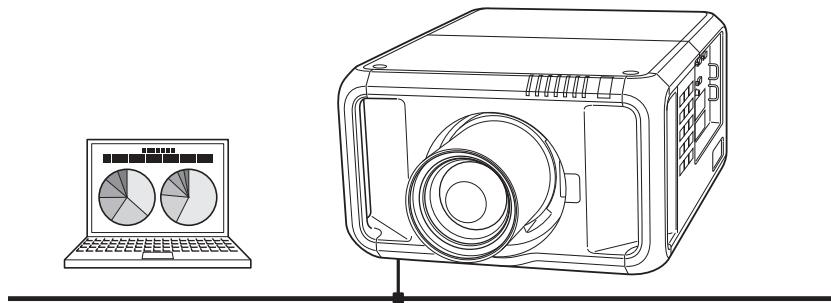




# Network Set-up and Operation

## Wired Setting

## Projector Set-up and Operation



This is the manual for the Network function.

Read this manual thoroughly to operate the Network function.

First, read the user's manual of the projector to understand the basic operation of the projector and the safety instructions.

The safety instructions in the user's manuals should be followed strictly.

# User Manual

for DHD800

## Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

## 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.



## CAUTION IN USING THE PROJECTOR VIA NETWORKS

- When you find a problem with the projector, remove the power cable immediately and inspect the unit. Using the projector with failure may cause fire or other accidents.
- If you remotely use the projector via networks, carry out a safety check regularly and take particular care to its environment. Incorrect installation may cause fire or other accidents.



## CAUTION IN USING NETWORK FUNCTION

- We assume no responsibility for the loss or damage of data, or damage of the computer caused by using this projector. Making back-up copies of valuable data in your computer is recommended.

# Table of contents

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Compliance.....	2
Safety instructions.....	3
Table of contents.....	4
<b>Chapter 1 Preparation .....</b>	<b>5</b>
Features.....	6
Required operating environment for computers.....	7
Network specifications of the projector.....	7
Flow of installation.....	9
Notice about installing Software CD-ROM.....	9
<b>Chapter 2 Setup Procedures.....</b>	<b>11</b>
Connecting to an Ethernet cable.....	12
Network configuration.....	13
How to enter values with the screen 10-key pallet.....	15
Network PIN code .....	15
Network information.....	16
Network factory default.....	16
<b>Chapter 3 Basic Setting and Operation.....</b>	<b>17</b>
Login the setting page of the projector.....	18
[1] Enter the IP address.....	18
[2] Login .....	18
[3] Display of main setting page .....	19
How to use the setting page .....	20
Initial setting .....	22
Network PIN code setting .....	23
Network configuration.....	24
E-mail setting .....	25
Examples: Type and contents of alert mail.....	28
SNMP setting .....	29
<b>Chapter 4 Controlling the Projector .....</b>	<b>31</b>
Power control and status check.....	32
Control.....	34
Input.....	34
System.....	35
Image adjustment.....	36
PC adjustment.....	37
Setting up the projector .....	38
Screen setting .....	38
Lens adjustment.....	39
Setting 1.....	40
Setting 2.....	41
Setting 3.....	42
Information.....	43
Information 1 .....	43
Information 2 .....	44
Network.....	44
<b>Chapter 5 Appendix .....</b>	<b>47</b>
Examples of connection .....	48
Use of telnet.....	50
Web browser setting.....	52
Examples: OS/Browsers .....	53
Q&A .....	57

# *Chapter 1*

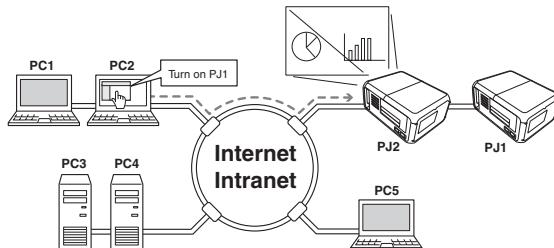
## *Preparation*

Describes features and operating environment of this projector.

## Features

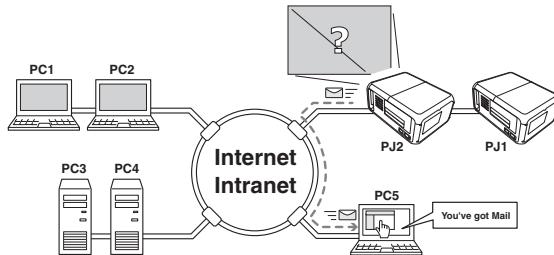
### Web Management function (☞p.31)

With this function, you can monitor projector functions such as power status, lamp status, input mode, signal condition, lamp-use time, etc. through the network by using the web browser installed on your computer.



### E-Mail Alert function (☞p.25)

The projector sends messages to the registered e-mail addresses when a lamp abnormality or power failure occurs with the projector. This message describes how to solve the cause of the problems. You can take efficient action for quick recovery.

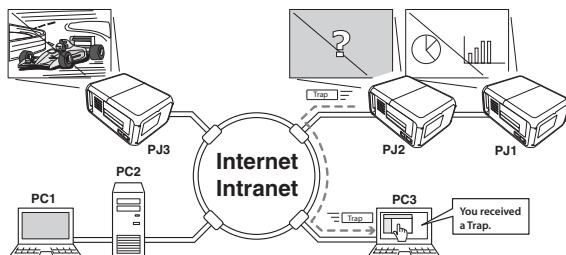


### SNMP Agent function (☞p.29)

To send the information of the projector to the SNMP manager. Enables you to manage the projector condition with the supplied SNMP manager software.

### SNMP Manager function

A function to manage the condition of projectors in the network by using the SNMP protocol. The managing computer needs to provide an SNMP managing software. Refer to the owner's manual of the "PJ Network Manager" supplied separately for further details.



## Required operating environment for computers

When operating the projector via networks, computers should meet the operating environment below.

Operating System		Windows 2000, Windows XP (32bit version), Windows Vista (32bit version), Windows 7 (32bit version) Mac OS X v 10.4 or 10.5
Computer environment	Recommended CPU	Windows: Pentium III 900MHz or more Macintosh : 800 MHz PowerPC G4 or faster, or 1.8 GHz Intel Core Processor or faster
	Memory	Windows : 64MB (Minimum)/ 128MB or more (Recommended) 128MB or more for Windows XP 1GB or more for Windows Vista or Windows 7 Macintosh : 256MB or more (512MB is recommended)
	Free disk space	100MB or more
	Drive equipment	CD-ROM drive
	Display settings	Support one of following resolutions; VGA (640 x 480), SVGA(800 x 600), XGA(1,024 x 768) Number of colors: Either of 16 bit (65,536 color 24/32 bit (16.77 million colors))
	Network card	The computer must provide a 10Base-T or 100Base-TX network card.
Web Browser*		Internet Explorer version 6.0 or 7.0 Netscape Navigator version 7.1 or 9.0 Safari 3.1 * Used to control and set up the projector. The layout of pages in the browser may slightly differ from each type of application or operating system you use.
Recommended Internet Mailer*		- Microsoft Outlook - Netscape Mail * Required the internet e-mail application software to receive an e-mail alert sent from this projector. If you do not use the function E-mail Alert, this application is not required. - Microsoft Outlook Express

## Network specifications of the projector

LAN Terminal

Data communication standards	100Base-TX (100Mbps)/10Base-T (10Mbps)
Protocol	TCP/IP

## Cabling Between the Projector and a Hub or computer\*1

Use an appropriate cable when connecting the projector and a hub or computer.

Connection	Ethernet cable type	Max. cable length
Projector - Hub	STP straight-through category 5*2 cable	100m (328feet)
Projector - Computer	STP crossover category 5*2 cable	100m (328feet)

\*1 There may be other limitations depending on your network environment or LAN specification.  
Please consult your network administrator for further details.

\*2 Cable category indicates cable quality.

## Notice

### Expression/Abbreviation

The OS of the computer and the Web browser described in this manual are Windows XP Professional and Internet Explorer 6.0. In case of another OS or Web browser, some instruction procedures may differ from the actual operation depending on your computer environment.

### Use of this manual

This manual does not provide the detailed description of basic operation and functions for computer, web browser, projector and network. For instructions about each piece of equipment or application software, please refer to the respective manual.

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\* Unauthorized use of a part or whole of the contents in this manual is prohibited.

\* The contents of this manual are subject to change without notice.

## Flow of installation

To use the projector via the networks, follow the setup procedures below.

### STEP 1

#### Connect the LAN and set the configuration.

- Decide depending on the LAN environment.
- → “2. Setup Procedures” (pp.11–16).
- Detailed LAN configurations need to be done with a browser later.
- First, complete the Wired LAN connection between computers and projectors, then start browser configurations.
- → “3. Basic setting and operation” (pp.17–30).

### STEP 2

#### Network Configuration has completed.

- Follow each chapter to operate the projector.
- 
- 
- Operate and manage the projector → “4. Controlling the projector” (pp.31–46)
  - “Power Control and status check” (p.32)
  - “Control” (pp.34–36)
  - “PC adjustment” (p.37)
  - “Setting up the projector” (pp.38–42)
  - “Projector information” (pp.43–45)
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### STEP 3

#### Install the Software on computers.

Install the software recorded in CD-ROM on each computer which will be operated. Refer to the owner's manual of PJ Network Manager.

## Notice about installing Software CD-ROM

It is available for controlling and setting of the projector by using the web browser without installing any software. So it is not required to install the software into your computer. For PJ Network Manager function, it is required to install the software. Please see the owner's manual of "PJ Network Manager Function".



# 2

## *Chapter 2*

### *Setup Procedures*

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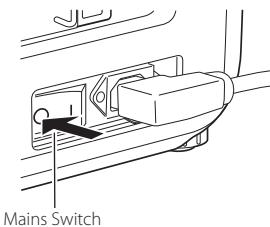
Describes how to configure the network.

Setting procedures and contents differ depending on the LAN installation location. When installing, consult your system administrator to set up the LAN appropriately.

## Connecting to an Ethernet cable

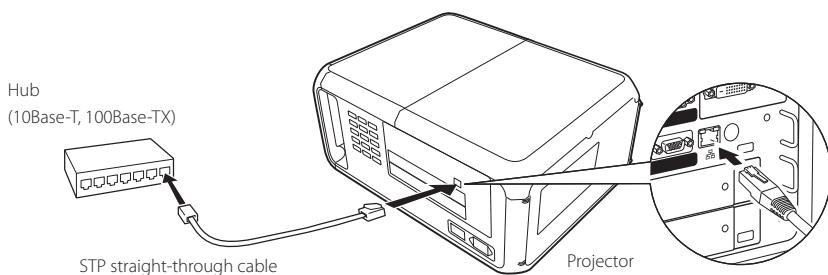
To connect your projector to a hub which supports 10Base-T/100Base-TX, use a STP (Shield Twisted Pair) straight-through cable having RJ-45 connectors.

1 Turn off the Mains switch.



2 Plug the RJ-45 connector at one end of the cable into the LAN port.

3 Plug the RJ-45 connector at the other end of the cable into a port on a hub.



☞ Use a STP crossover cable when directly connecting between the projector and computer without using a hub.

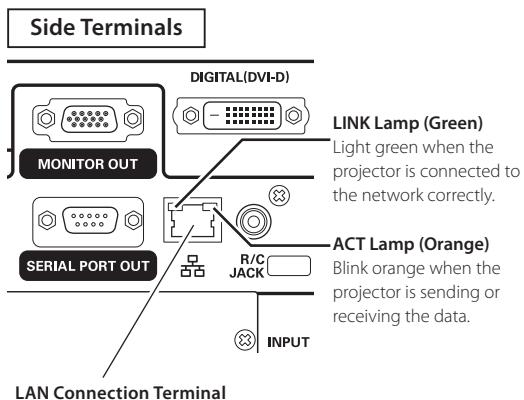
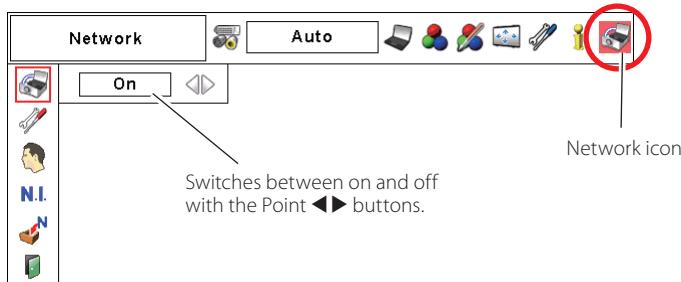
☞ The cable length between a hub and projector should be less than 100m.

## Network configuration

Set the Wired LAN network through the projector menu. Detailed network settings will be made with browser. Refer to "3. Basic setting and operation" (p.17-30). First, complete the settings described in this chapter before performing steps in "3. Basic setting and operation."

### Setting Procedure

1. Select Network icon in the menu bar with the Point **◀▶** buttons, and press **SELECT** button once.
2. Make sure that the Network mode is set to "On". If the mode is "Off", switch to ON with the Point **◀▶** buttons. Then the Menu will disappear, the "Please wait..." message will appear, and switching operation will start. Switching will take a while and the projector's LINK/ACT Lamp will be on or blink, and after completing the operation, the "Please wait..." message will disappear.



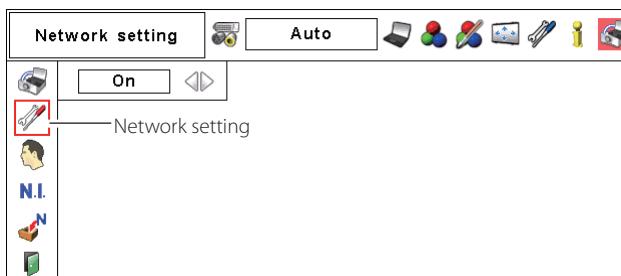
3. Select "Network setting" in the Network menu with the Point **▲▼** buttons and press **SELECT** button, and then the LAN setting screen will appear and selected LAN settings will be displayed. Adjust each item to the setting environment. Consult your system administrator about the detailed settings.

Press the Point **◀▶** buttons to move the red frame to an item where you want to adjust, and adjust the figures with the Point **▲▼** buttons and move among the items with the Point **◀▶** buttons.

You can also enter values by using the on-screen numeric keyboard (p.15).

4. After completing all the settings, select "Set" and press **SELECT** button. Now, all procedures have been done. To cancel the adjusted settings, select "Cancel" and press **SELECT** button.

You can confirm the LAN settings you have made from "Network information" (p.16). In such cases that the LAN cannot be connected, see this screen.



\* The numerical value is a setting example.

DHCP: On

DHCP	<b>On</b>
IP address	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Subnet	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Gateway	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
DNS	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<b>Set</b> <b>Cancel</b>	

DHCP: Off

DHCP	<b>Off</b>
IP address	<input type="text"/> 169 <input type="text"/> 254 <input type="text"/> 100 <input type="text"/> 100
Subnet	<input type="text"/> 255 <input type="text"/> 255 <input type="text"/> 0 <input type="text"/> 0
Gateway	<input type="text"/> 255 <input type="text"/> 255 <input type="text"/> 255 <input type="text"/> 255
DNS	<input type="text"/> 255 <input type="text"/> 255 <input type="text"/> 255 <input type="text"/> 255
<b>Set</b> <b>Cancel</b>	

Item	Description
DHCP	Sets DHCP function On or Off. When you setup the network setting manually, select "Off". When it is set On, IP address, Subnet, Gateway and DNS are automatically set according to your network environment *1.
IP address	Sets IP address of the projector
Subnet	Sets Subnet mask. Normally sets 255.255.255.0
Gateway*2	Sets IP address of the default gateway (Router)
DNS*3	Sets IP address of the DNS server.

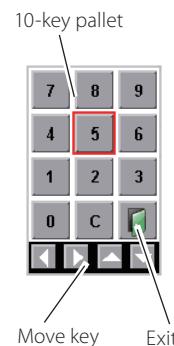
\*1 Set "On" only when the DHCP server is available on your network environment.

\*2 Set [255.255.255.255] if the network does not provide the gateway (router).

\*3 Set [255.255.255.255] if you do not use the function E-mail alert.

## How to enter values with the screen 10-key pallet

1. Select a column with a red frame by using the Point **◀▶** buttons.
2. Press the **SELECT** button. The screen 10-key pallet appears on the screen.
3. By using the Point **▼▲◀▶** buttons, select numbers 0 to 9 and press **SELECT** button. By repeating the above to enter the complete number on the column.  
\* To change the number in a column, select "C" and press **SELECT** button to clear the number in the column and then enter the number again.
4. After entering the number in the column, select a move key (**◀▶** **▲▼**) located on the lower part of the pallet by using the point buttons and press **SELECT** button repeatedly to move the red frame.
5. Repeat steps 3 to 4 for entering all the network address.
6. After finishing, select "Exit" and press **SELECT** button. The 10-key pallet disappears on the screen.



## Network PIN code

The Network PIN code is to restrict the access to the projector through the network.

After setting the Network PIN code, you need to enter it to operate the projector via the networks.

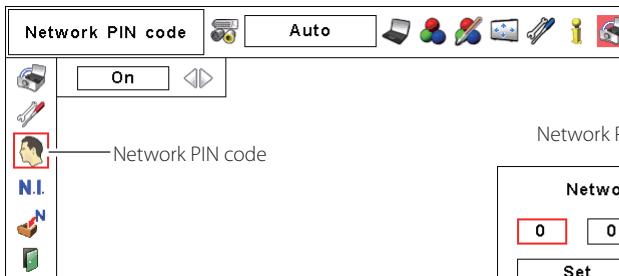
1. Select "Network PIN code" in the Network menu, and press **SELECT** button.

The Network PIN code screen will appear.

2. Set the Network PIN code.

Set the figures with the Point **▲▼** buttons and move to the next items with the Point **◀▶** buttons. Select "Set" and press **SELECT** button to set. To cancel the preset Network PIN code, select "Cancel". When you do not want to set the Network PIN code, set "0000".

It is recommended to set the Network PIN code if you use the projector via the networks. The Network PIN code can be set also through the networks. See "3. Basic setting and operation" → "Initial setting" → "Network PIN code setting" (p.23).

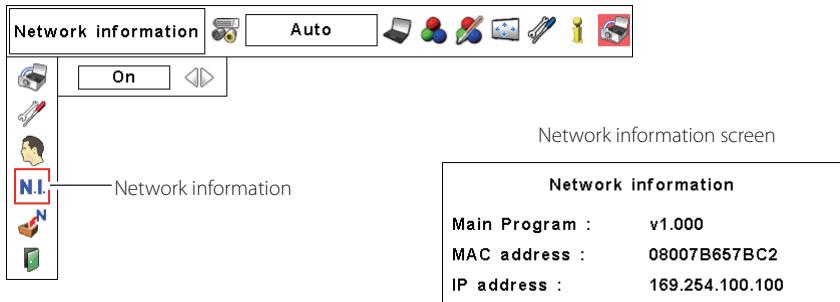


Network PIN code screen

Network PIN code			
0	0	0	0
Set		Cancel	

## Network information

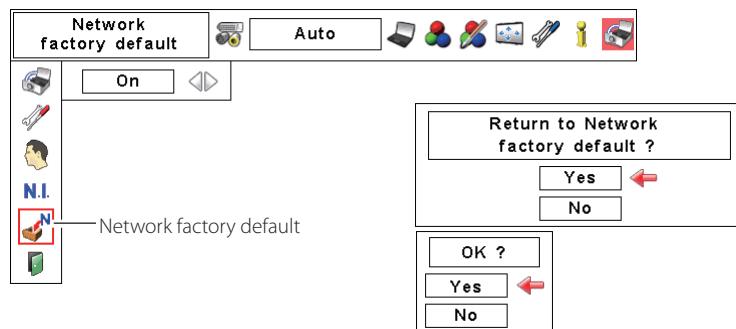
Select "Network information" in the Network menu and press **SELECT** button to show LAN setting environment of the currently selected projector. (The description below is an example and different from what will be shown.)



\* The numerical value is a setting example.

## Network factory default

1. Select "Network factory default" in the Network menu and press **SELECT** button.
2. A confirmation box appears and select "Yes" and then press **SELECT** button.
3. Another confirmation box appears and select "Yes" and then press **SELECT** button.
4. All the wired LAN settings will go back to the factory default settings. For details, refer to "Wired LAN factory default settings" as shown in the table below.



# 3

## *Chapter 3*

### ***Basic Setting and Operation***

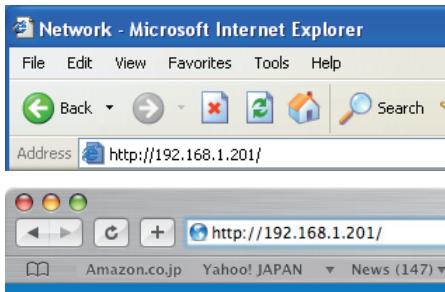
Describes basic operations and settings for controlling the projector by using the web browser. It is required that computer and projector is connected to the network and the network address is properly configured.

## Login the setting page of the projector

### [1] Enter the IP address

Launch the web browser installed in your computer, enter the IP address into the "Address" on the browser and then press "Enter" key.

Enter the address that you configured in item "Network configuration" (☞p.13-14).



\* The numerical value is a setting example.

### [2] Login

If the setting page has set the password, the authentication window will appear. In this case type "user" onto the **User Name** text area and the login Network PIN code onto the **Password** text area and then click **OK (Log in)** button.

\* The entering User Name must be "user" and it can not be changed.

#### [Note]

When accessing the projector for the first time or the Network PIN code "0000" is set, the auto-login will be performed and the next main setting page is displayed.



### [3] Display of main setting page

The following main setting page will be displayed according to your display mode selection. Perform various kinds of settings through this page. Click on the menus to display the control and setting pages.

#### Main setting page in the display

**Control**  
Input / System / **Image adj.**

Contrast 32 Set

Brightness 32 Set

Color 32 Set

Tint 32 Set

BrilliantColor ON Set

Color temp. Mid Set

White balance

Red 32 Set

Green 32 Set

Blue 32 Set

Offset

Red 32 Set

Green 32 Set

Blue 32 Set

Sharpness 15 Set

Gamma 8 Set

Noise reduction --- Set

Progressive --- Set

Reset

Store Image1

Load image mode Standard

**Sub menu tab**  
Switches the sub menu tab.

**Main menu**  
For selection of control and setting items of the projector.

**Setting page**  
Displays the control and setting items according to the selected menu.

## How to use the setting page

To control and set up the projector, use the setting menus on the web browser. Describes the basic operation and procedures commonly used on this manual.

### Example of the setting page

The setting menu appears when clicking the sub menu tab.

\* Each item has a valid setting range respectively.



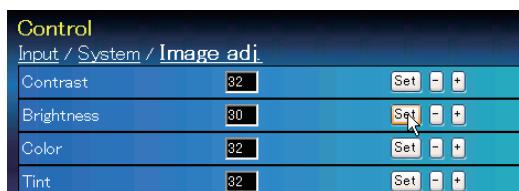
### Types of setting

#### Text box setting

Enter a number or text and then click **Set** button.

or

Change a value with **-** or **+** button.



#### Pull-down menu setting

Select an item with pull-down menu button and then click **Set** button.



☞ The value in the text box indicates current value.

☞ Each item has a valid setting range. The setting value exceeding this becomes invalid. Some control items can not be used depending on the selecting input mode or functions of the projector you use. In this case, the values of those items are indicated with "—".

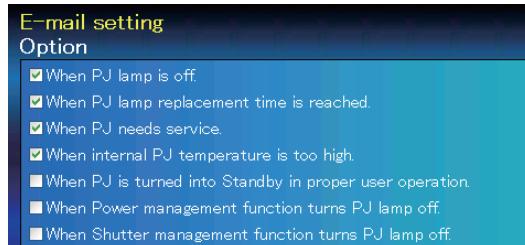
## Radio button setting

Select an item by selecting a radio button.



## Check box setting

Select items by ticking on check boxes.





## Initial setting

After installing the projector, perform the following basic initial setting. Click **Initial Setting** on the main menu to display the initial setting page.



Item	Description
Language	Switches display language on the setting page. (Japanese, English)
Model name	Indicates the model name of the projector.
SERIAL NO.	Indicates the serial number of the projector.
Network PIN code	Sets the Network PIN code to login the setting page. (p.23)

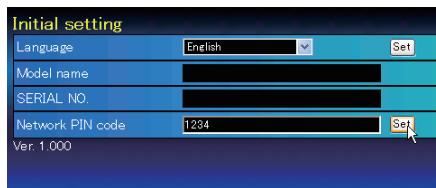
## Network PIN code setting

This is to set the Network PIN code to restrict the access from an unauthorized person through the network.

Enter a 4-digit number as the Network PIN code onto the text box and click **Set** button.

The projector begins restarting and it takes about 10 seconds. Close (Quit) the web browser and access to the login page again in 10 seconds. This is to perform the login authentication firmly.

The default Network PIN code [0000] means no Network PIN code is set.



- When you connect the projector to the network, it is recommended to set a new Network PIN code. Only a four-digit number is valid for the Network PIN code.



## Network configuration

Click **Network** on the main menu. The following setting page is displayed. The IP Address, Subnet Mask, Default Gateway, DNS (Domain Name Server) and projector name are set up on this menu.

The IP address and Subnet Mask have been configured already in chapter "Installation". If you want to change them or configure default gateway or DNS, perform them in this page. If you change them, the projector begins restarting and it takes about 10 seconds. Close (Quit) the web browser and access to the login page again in 10 seconds.



\* The numerical value is a setting example.

Item	Description
DHCP	Sets DHCP configuration (ON/OFF).
IP address	Sets IP address of the projector
Subnet mask	Sets Subnet mask. Normally sets 255.255.255.0
Default gateway <sup>*1</sup>	Sets IP address of the default gateway (Router)
DNS <sup>*2</sup>	Sets IP address of the DNS server. Must be set when using the e-mail function
Projector name <sup>*3</sup>	Sets name of the projector. (64 characters maximum)

☞ You must use the number specified by your administrator. The address must be entered as a group with four numbers split by a dot like [192.168.001.101].

\*1 Set [0.0.0.0] if the network does not provide the gateway (router).

\*2 Set [0.0.0.0] if you do not use the function E-Mail alert.

\*3 If you use the DNS server, register the host name registered to the DNS server as a projector name. You can access with this projector name from any computers in your network. If you do not use the DNS server, access with the assigned IP address to the projector.

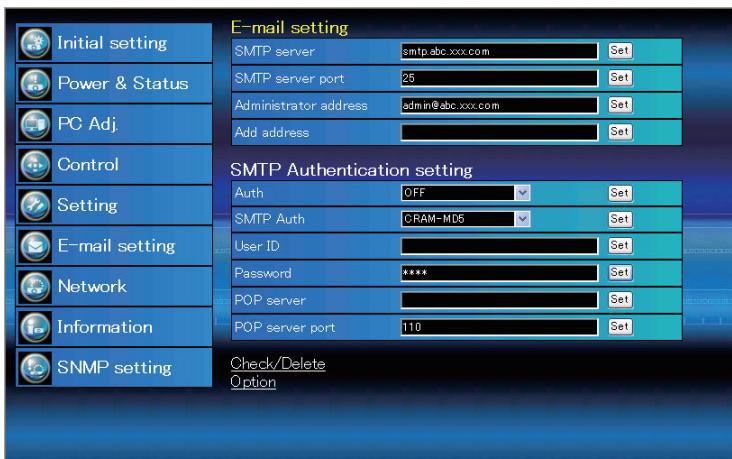
\* All the network setting will reset to the default when setting [0.0.0.0] of the IP Address.

\* If you make incorrect settings, you cannot find out the new network settings. Be careful to set up them correctly, otherwise you cannot connect to the projector. It is recommended to make a note of them.



## E-mail setting

This projector has an E-mail function which can send an alert message to users or an administrator if it detects an abnormality on the projector or run out of the life span of the lamp. Click **E-mail Setting** on the main menu and follow the below steps.



Item	Description
SMTP server .....	Enter server name or IP address of the SMTP server. (up to 60 characters)
SMTP server port .....	Enter Port number of the SMTP server. (from 1 to 65535)
Administrator address .....	Enter e-mail address of administrator.
Add address .....	Enter e-mail address of the user to send mail when the projector has an abnormality.
<b>SMTP Authentication setting</b>	
Auth .....	Sets authentication setting option. (Off, SMTP Auth, POP before SMTP)
SMTP Auth .....	Sets user authentication setting option when selecting "SMTP Auth" in above column. (CRAM-MD5, LOGIN, PLAIN)
User ID .....	Enter SMTP user ID. (up to 63 characters)
Password .....	Enter SMTP password. (up to 63 characters)
POP server .....	Enter server name or IP address of the POP server. (up to 60 characters)
POP server port .....	Enter Port number of the POP server. (from 1 to 65535)

## 1 Setting SMTP server and administrator address

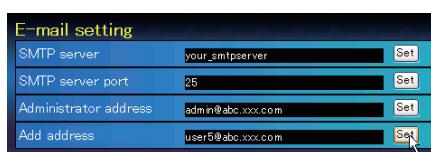
Enter the server name or IP address of the SMTP server\*, the port number of the SMTP server and administrator address and click **Set** button. The administrator address is set to "Reply-To" address of the message sent from the projector.



\*1 The SMTP server is a server for sending e-mail. Please contact your network administrator to have this SMTP server address.

## 2 Registering and deleting E-mail addresses

Enter the e-mail address onto "Add e-mail address" and click **Set** button.



**Check / Delete**

To check the registered addresses, click **Check/Delete** sub menu tab. The address-  
es are listed as the figure on the right.

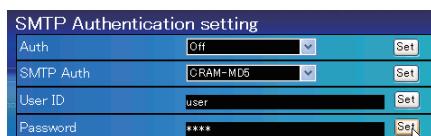
Up to 10 E-mail addresses can be registered.



To delete the registered addresses, check the address you want to delete and click **Delete** button.

## 3 Setting SMTP authentication

Set the SMTP authentication concerned and click **Set** button. Please contact your network administrator in details.



- ⦿ If the projector sends an alert message due to the abnormality on the projector but the SMTP server is down in some other reason, the message will not be sent. In this case, the message "Unable to connect to server." will be displayed on the setting page. To clear this message, set up SMTP server address again.
- ⦿ To use the E-Mail function, it must be set the DNS address on the Network setting page correctly.
- ⦿ You cannot use this E-mail function if the DNS server and SMTP server cannot be used in your network environment.
- ⦿ The projector does not send message to the address set in "Administrator address" text box. If you want to send e-mails to the administrator address, enter the administrator address into "Add address" text box.

## 4 Setting POP server

When "POP before SMTP" is selected at "Auth" of "SMTP Authentication setting", enter "POP server<sup>\*2</sup>" and "POP server port" and click **Set** button.



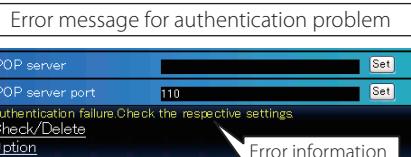
\*2 The POP server is a server for receiving e-mail.

Please contact your network administrator to have this POP server address.

## Error message for sending alert mail

When the projector has an abnormality, an alert message will be sent to the registered E-mail address.

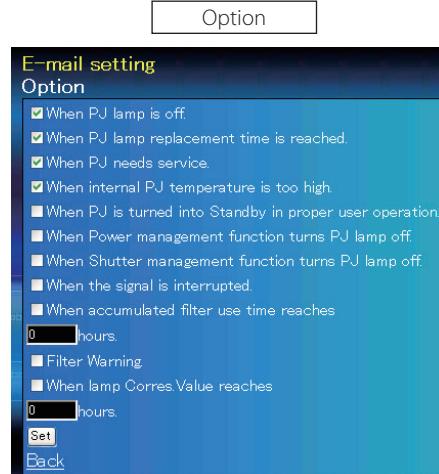
If the SMTP server is missing or the authentication is not completed because of input error in E-mail address setting or SMTP authentication setting when sending alert e-mail, the error message will be displayed. Please check the respective settings.



## Option selection for sending alert mail

Click **Option** sub menu tab. Check the condition items under which alert mail will be sent and click **Set** button.

Please refer to item "Examples :Type and contents of alert mail" described on the next page.



- When PJ lamp is off
- When PJ lamp replacement time is reached
- When PJ needs service
- When internal PJ temperature is too high
- When PJ is turned into Standby in proper user operation
- When Power management function turns PJ lamp off
- When Shutter management function turns PJ lamp off
- When the signal is interrupted
- When accumulated filter use time reaches 0 hours
- Filter Warning
- When lamp Corres Value reaches 0 hours

- Up to 99,999 hours can be set for use time.

## Examples: Type and contents of alert mail

When the projector has an abnormality, the following alert messages are sent to the registered E-mail address according to your selected condition. Administrator or user can take an efficient action quickly by receiving this message. This is very useful to maintain and service the projector.

The following are examples of received messages.

### ● When internal PJ temperature is too high:

TITLE: Message from projector  
 Projector Model Name: *model name*  
 TCP/IP: 192.168.1.201 Projector Name: Proj05

It sends you following message.

\*The Projector lamp is turned off, because internal projector temperature is too high.  
 Wait for the completion of the cooling process and make sure the projector has been turned into Standby. Then turn the projector on again.  
 If the Indicator continues flashing, check the air filter for dust accumulation.

### ● When PJ needs service:

TITLE: Message from projector  
 Projector Model Name: *model name*  
 TCP/IP: 192.168.1.201 Projector Name: Proj05

It sends you following message.

\*Maintenance requirement from Projector is detected.  
 Check up LED status of projector and consult with the dealer.

AD,	3.3V	OK
KS,	3.3V	OK
---	---	---
MAIN,	3.3V	NG
---	---	---



- ☞ The projector lamp was turned off, because the projector power circuit failed.  
 Unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the problem still persists, unplug the AC power cord and ask servicing to a qualified service personnel with the error information.

### ● When PJ lamp replacement time is reached:

TITLE: Message from projector  
 Projector Model Name: *model name*  
 TCP/IP: 192.168.1.201 Projector Name: Proj05

It sends you following message.

\*The projector lamp has reached replacement time.  
 Lamp ON 2000 h

- ☞ Replace it with a new lamp immediately and reset the lamp counter. If the projector is used without resetting the lamp counter, the alert mail is sent to users in every power-on of the projector. This alert mail will not be sent when unchecking the mail sending condition "When PJ lamp replacement time is reached".



## SNMP setting

This projector provides a SNMP (Simple Network Management Protocol) agent function. The SNMP consists of a manager and agents. The group which communicates information each other with SNMP is called "Community". There are two access modes in a community, Refer (read only) and Set (read-write). This projector allows to use Refer (read only) only. The SNMP message informs the projector status called "Trap" to an administrator. Click **SNMP Setting** on the main menu and set up each item.



### PJ information

Item	Description
Contact	Enter user name of the projector etc. (optional)
Place	Enter place of the projector (optional)
Community name(refer)	Enter community name (read only). Default name is "public".

### Trap

Item	Description
Community name	Enter community name to send "Trap". Default name is "public".
Trap address	Enter IP address of the SNMP manager computer to receive "Trap".

**Trap check/delete****Check and delete the trap address**

Checking the registered trap address and deleting the address.

To delete the address, tick check box in front of the IP address and click **Delete** button.

**SNMP setting**  
Check/Delete 192.168.1.5 192.168.1.6**Delete****Back**

☞ Up to 10 trap addresses can be registered.

**Trap option****Trap option setting**

Tick check boxes in front of the condition item to send the trap.

☞ Click **Set** button if you tick or un-tick the check box on a page.

**SNMP setting**  
Option When PJ lamp is off When PJ lamp replacement time is reached When PJ needs service When internal PJ temperature is too high When PJ is turned into Standby in proper user operation When Power management function turns PJ lamp off When Shutter management function turns PJ lamp off When the signal is interrupted When accumulated filter use time reaches0  hours Filter Warning When lamp Corres Value reaches0  hours**Set****Back**

☞ "When PJ lamp is off" signifies the lamp goes out without user operation. "When PJ is turned into Standby in proper user operation" signifies that the projector is turned on by using the web browser and then it is turned into standby with ON/STANDBY button on the side control or the remote control.

☞ Up to 99,999 hours can be set for the time setting.

# 4

## *Chapter 4*

### ***Controlling the Projector***

Describes controlling and setting of the projector by using the web browser.



## Power control and status check

Click **Power & Status** on the main menu. The control page will be displayed.

By clicking **ON** or **Standby** button on the page, the power of the projector can be controlled.



Popup confirmation window

### Item Description

#### PJ status

**Power** ..... Displays the status of the lamp. (ON, OFF, On starting up, On cooling down, Service in need)

**Status** ..... Displays the status of the projector's power. (Refer to next page.)

**Power control** ..... Controls the projector power by clicking the "ON" or "Standby" button.

- ☞ The projector cannot be turned on while the projector is on cooling down.
- ☞ The web browser checks and updates the projector's condition every 30 seconds automatically.

## About projector condition

Status	Description
Normal.....	Projector is operating normally.
Power management in operation.....	Power management is operating
Shutter management in operation .....	Shutter management is operating
Lamp failure.....	Lamp failure is occurring
Abnormal temperature .....	The temperature of the projector became too high
Stby after Abnormal Temp.....	Projector detects abnormal temp. and sets into standby mode.
Power failure .....	Power failure has occurred inside the projector. Projector is turned off. Unplug the AC cord and ask servicing to a qualified service personnel.

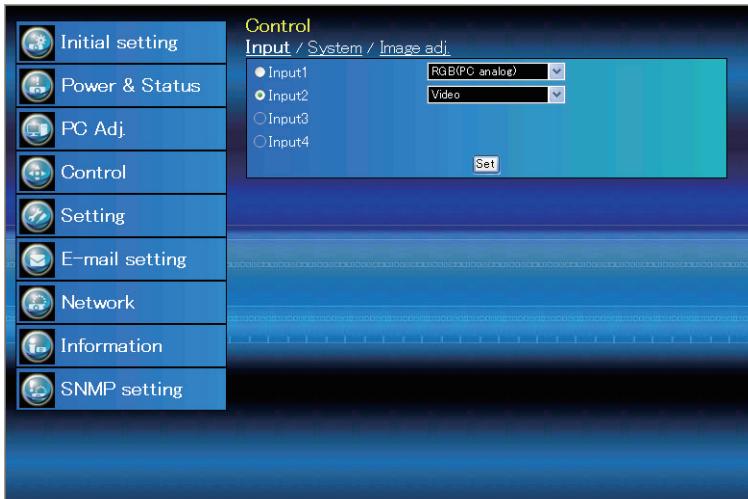
When a security (PIN code lock) has been set on the projector, you also cannot control it through the network. To control the projector through the network temporarily, execute "PJ lock suspend" command to unlock the security. "PJ lock suspend" is on setting sub menu [2] on Setting main menu. (☞p.41)



## Control

Click **Control** on the main menu. The setting method differs depending on the contents of the page. Click on the page number to change pages and select desired setting items.

☞ Please see the owner's manual of the projector to have the further information of each control item.



## Input

This function is to select the input mode and source mode of the projector. Click **Set** button after selecting the input and source mode.

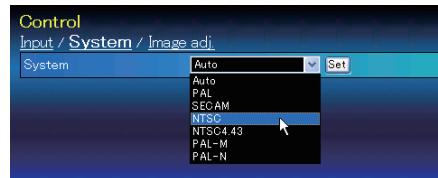
Item	Description
Input	Selects input mode of the projector.
Source	Selects signal source of the input.
Input1 :	RGB(PC analog) RGB(PC Scart) RGB(PC digital) RGB(AV HDCP) HDMI
Input2 :	Video Y, Pb/Cb, Pr/Cr RGB S-video

- ☞ The control page displays valid control items depending on the selected input mode, signal or functions of the projector you use, therefore, there may be different controls between the described items and actual control items on the page display. For further information , refer to the projector's owner's manual.

- ☞ When the projector is in standby, all the controlling items are inactive.

## System

This function is to select the system of signal input to the projector. The available system mode are listed on the pull-down menu button according to the input signal. Select a system and then click **Set** button.



### Available selection at the RGB(PC analog) input

Item	Description
------	-------------

XGA1 .....It automatically switches to the proper computer system of the input signal.

\* The computer system modes (VGA, SVGA, XGA, SXGA, UXGA, WXGA...) which meet the input signal are listed.

### Available selection at the RGB(PC digital), RGB(AV HDCP), HDMI input

Item	Description
------	-------------

D-XGA .....It automatically switches to the proper computer system of the input signal.

\* The computer system modes (D-VGA, D-SVGA, D-XGA, D-SXGA1...) which meet the input signal are listed.

D-480p .....It automatically switches to the proper scanning system of the input signal.

\* The selectable scanning systems are D-480p, D-575p, D-720p, D-1035i, D-1080i and D-1080p.

### Available selection at the Video/S-video/Scart input

Item	Description
------	-------------

AUTO .....It automatically switches to the proper color system of the input signal.

\* The selectable color systems are PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N.

\* AUTO is fixed at the Scart input.

### Available selection at the Y,Pb/Cb,Pr/Cr input

Item	Description
------	-------------

AUTO .....It automatically switches to the proper scanning system of the input signal.

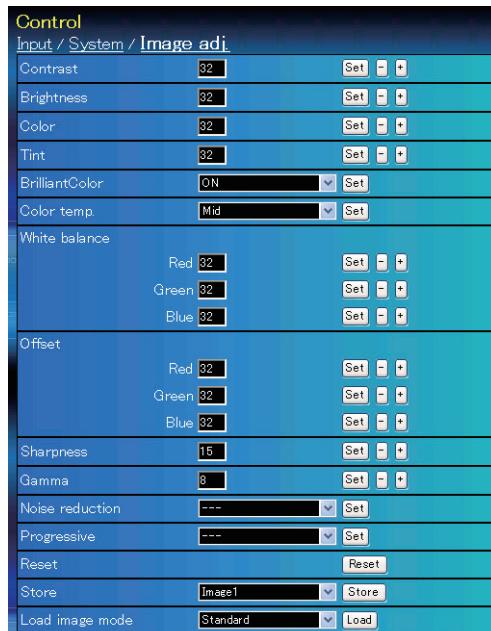
\* The selectable scanning systems are 480i, 575i, 480p, 575p, 720p, 1035i, 1080i and 1080p.

☞ If the mode (Mode1 to Mode10) which is stored in the item "PC Adjustment" (☞ p.37) is available, they are also listed together with the above mode.

## Image adjustment

This function is to adjust the projected picture image and save the image mode. To store the adjusted value, click **Store** button, and to load the adjusted value, click **Load** button.

Item	Description
Contrast	Adjusts picture contrast. (0~ 63)
Brightness	Adjusts picture brightness. (0~ 63)
Color	Adjusts picture color saturation. (0~ 63)
Tint	Adjusts picture hue. (0~ 63)
BrilliantColor	Applies improved color performance with the BrilliantColor™ technology. (ON, OFF)
Color temp.	Sets a color temperature mode. (XLow, Low, Mid, High, Adj)
White Balance	
Red, Green, Blue	Adjusts each white balance respectively. (0~ 63)
*	When Color matching is set to "On" and changing the "Target" value of "Advanced color matching", the color temp. indicates "Adj."
Offset	
Red, Green, Blue	Adjusts each offset respectively. (0~ 63)
Sharpness	Adjusts picture sharpness. (0~ 31)
Gamma	Adjusts brightness of darker part of the picture. (0~ 15)
Noise reduction	Switches noise reduction mode (ON, OFF)
Progressive	Switches progressive mode (ON, OFF, Film)
Reset	Resets the Image adjustment to previous levels.
Store	Stores the Image adjustment values. Select an item [Image1 - Image10] from the pull-down menu and click <b>Store</b> button.
Load image mode	Loads the Image mode. Select an image mode from the pull-down menu and click <b>Load</b> button. There may not be available mode depending on the input mode as shown in the table left.



Input source		
Image mode	Video	Computer
Standard	✓	✓
Cinema	✓	*
Real	*	✓
Dynamic	✓	✓
Image1 - 10	✓	✓

☞ The mark "✓" means that the available image mode in the selected input source. The error message appears when selecting the disabled image mode indicated with "\*".



## PC adjustment

Click **PC Adj.** on the main menu. This function is to adjust the signal from the computer connected to the projector to obtain the proper picture image on the screen.

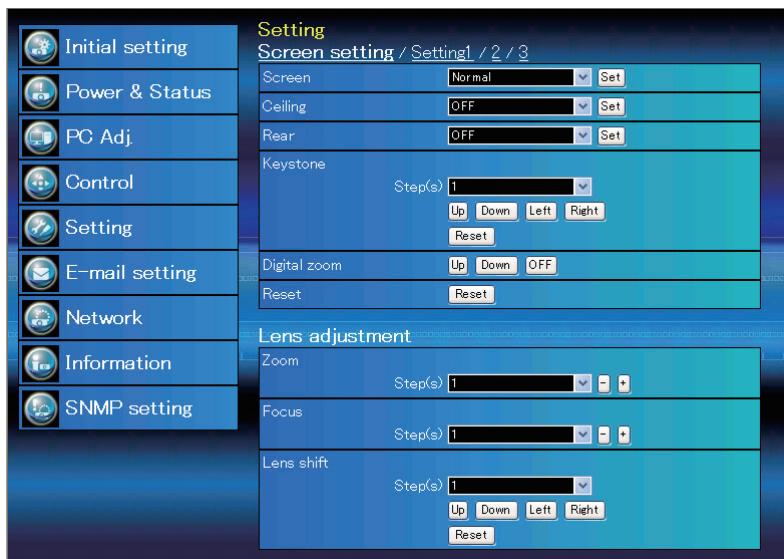


Item	Description
Current mode	Displays a current mode like VGA, SVGA, XGA, SXGA, UXGA, WXGA, etc. or Mode1 - Mode10 which are the customized mode created by using the "Mode Store" function described below.
Auto PC adj.	Performs automatic adjustment.
Fine sync	Performs Fine Sync adjustment. (0 ~ 31)
Total dots	Adjust the number of total dots in the horizontal period.
Clamp	Adjusts the phase of the clamp.
Display area	<p>Horizontal ..... Adjusts the image area horizontally.</p> <p>Vertical ..... Adjusts the image area vertically.</p>
Position	<p>Horizontal ..... Adjusts the horizontal position of the screen.</p> <p>Vertical ..... Adjusts the vertical position of the screen.</p>
Reset	Resets the PC adjustments to the previous levels.
Mode Store	Stores the PC adjustment values. Select a mode no. [Mode1 - Mode10] from the pull-down menu.
Mode Free	Clear the PC adjustment values. Select a mode no. [Mode1 - Mode10] from the pull-down menu.



## Setting up the projector

Click **Setting** on the main menu. This function is to set up the projector. Select the sub menu [Screen setting] or [Setting] and then set up each setting.

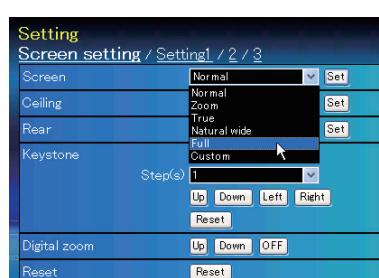


### Screen setting

This function is to adjust the screen mode or the lens functions of the projector.

Item	Description
Screen	Switches the screen mode. (Normal, Zoom, True, Natural wide, Full, Custom)
Ceiling	Sets the image top/bottom and left/right reversed. (ON, OFF)
Rear	Sets the image left/right reversed. (ON, OFF)

\* See the next page for the description of other functions.



☞ **Natural wide** cannot be selected when 720p, 1035i, 1080i, 1080p or 1080psf is selected in AV system menu.

Item	Description
Keystone	Corrects the keystone distortion of the projected image on the screen by pressing the Up/Down/Left/Right buttons. Click <b>Reset</b> to reset the keystone correction.
Digital zoom	Adjusts the image zoom in and out at computer input mode. Click <b>OFF</b> to return the image to its normal size.
Reset	Resets the settings of Screen, Ceiling, Rear, Keystone and Digital zoom.



## Lens adjustment

Item	Description
Zoom	Adjusts the image zoom in and out.
Focus	Adjusts the focus of the image.
Lens shift	Positions to the desired point by pressing the Up/Down/Left/Right buttons. Click <b>Reset</b> to return to the center position.

\* **Step(s)**.....Sets the effective steps (1-20 steps) by one pressing the +/- or Up/Down/Left/Right buttons to adjust them quickly.

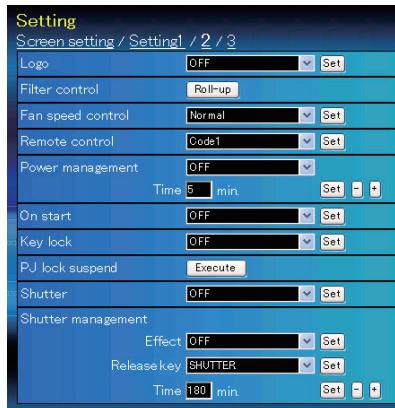
## Setting 1

Item	Description
Language.....	Sets the language display of projector's on-screen display menu.
Display.....	Switches on or off the on-screen menu display on the screen. (ON, Countdown off, OFF)
Countdown off.....	Displays input image instead the countdown during the startup.
Background.....	Sets the screen background when no signal input. (Blue, User, Black)
Lamp mode.....	Switches lamp mode. (2 Lamps mode, Lamp1 mode, Lamp2 mode)
Lamp control.....	Selects lamp control mode. (Normal, Eco1, Eco2)
Lamp life control.....	Selects lamp life control mode (Mode1, Mode2) when the total use time exceeds the recommended total hours of use.
Lamp interval.....	Sets the interval period of switching two lamps. (OFF, Auto, 24H, 200H, 500H, 1000H, 2000H)
Picture in Picture.....	Selects the Picture in Picture mode which has been preset in the setting menu of the projector. (OFF, User1 - User5)
Edge blending.....	Sets the seamless overlapping for multi-screen. (ON, OFF)
Color matching.....	Corrects the difference of color for multi-screen. (ON, OFF)
DynamicBlack.....	Improve the black level of the image. (OFF, Low, High)
HDMI setup.....	Sets the digital RGB image level according to the HDMI source. (Normal, Enhanced)



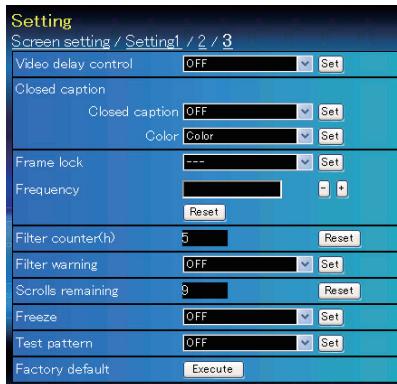
## Setting 2

Item	Description
Logo	Sets on or off the logo display on the screen during the startup. (User, Default, OFF)
Filter control	Scroll the filter. Click "Roll-up", a confirmation display appears, and then click "OK", the filter will be scrolled.
Fan speed control	Sets the running speed for the cooling fans. (Normal, Max)
Remote control	Selects the remote control code. (Code1 - Code8)
Power management	Sets into the selected power management mode (OFF, Ready, Shutdown) if the input signal is interrupted and no control key is pressed for the specified period of time. *The specified time can be set 1 to 30 min.
On start	Sets the power-on mode when the AC cord is connected to the outlet. (ON, OFF)
Key lock	Sets the prohibition of controls either Projector or Remote control. (OFF, Projector, Remote control)
PJ lock suspend	When the projector has a security of PIN code lock, disable this function temporarily by pressing Execute button.
Setting procedure	<ol style="list-style-type: none"> <li>1. Turn off the projector, disconnect AC cord from the outlet and then connect AC cord again.</li> <li>2. Access this page with the web browser.</li> <li>3. Click Execute button on the PJ lock suspend.</li> </ol>
Shutter	Sets the shutter operation. (ON: close, OFF: open)
Shutter management	Sets the shutter management operation.
Effect	Sets the effect to fade in or out at opening or closing the shutter. (OFF, L1, L2)
Release key	Sets available keys to release the shutter. (Any, SHUTTER)
Time	Sets the specified period of time when the projector shuts down after the projector is left with the shutter closed. *The specified time can be set 5 to 480 min.



## Setting 3

Item	Description
Video delay control	...Sets the digital processing of the image faster. (OFF, Low, Mid, High)
Closed caption	...Sets the closed caption function. Closed caption...Sets the closed caption mode. (OFF, CC1, CC2, CC3, CC4)
Color	...Sets the color of the contents. (Color, White)
Frame lock	...Sets the frame lock frequency of the image. (Auto, Manual 23.98Hz, Manual 25Hz, Manual 29.97Hz, Manual 50Hz, Manual 59.94Hz, Manual 60Hz)
Frequency	...When "Frame lock" is set to "Auto", "Frequency" function is disable. When "Frame lock" is set to "Manual", the current frame lock frequency is displayed. Click "+" or "-" and then the projector automatically search to the nearest available frequency. At this time, the text box of "Frame lock" will be changed to "Manual ---". Click "Reset", a confirmation display appears, and then click "OK", the frame lock frequency will be reset.
Filter counter(h)	...Displays the filter counter. Reset the time after filter cartridge replacement. Click "Reset", a confirmation display appears, and then click "OK", the time will be reset. * Do not reset the Filter counter when the filter cartridge is not replaced.
Filter warning	...Sets the time to indicate the filter warning message on the screen. (OFF, 1000H, 2000H, 3000H)
Scrolls remaining	...Displays the scrolls remaining of the filter. Reset the scroll counter after filter cartridge replacement. Click "Reset", a confirmation display appears, and then click "OK", the time will be reset. * Do not reset the Scrolls remaining when the filter cartridge is not replaced.
Freeze	...Sets the image to freeze mode. (ON, OFF)
Test pattern	...Sets the preset image of the projector. (OFF, color, Gradation1 - Gradation4, All white, All black, Cross))
Factory default	...Sets all of the projector control items to the factory default setting except the following items. User Logo, Logo PIN code lock, PIN code lock, Lamp Corres. Value, Filter counter, PJ time, Network PIN code, Network setting * This function is not effective for the settings of Network address settings, e-mail settings, etc.





## Information

This page is to display the basic information of the projector status. Click **Information** on the main menu.

	Initial setting
	Power & Status
	PC Adj
	Control
	Setting
	E-mail setting
	Network
	Information
	SNMP setting

**Information**  
1 / 2

Input	2
	Video
System	AUTO
Signal	Yes
Screen	Full
PJ time(h)	5
Lamp mode	2 Lamps mode
Lamp control	Normal
Lamp interval	Auto
Lamp status	
Lamp1	
Lamp2	
Lamp Corres. Value(h)	
Lamp1	6
Lamp2	6
Security	
Key lock	OFF
PIN code lock	No

Click this button to update the information.

### Information 1

Items	Description
Input	Displays selected input and source.
System	Displays selected signal system.
Signal	Input signal status (Yes, No)
Screen	Displays screen mode.
PJ time(h)	Displays the accumulated use time of the projector.
Lamp mode	Displays the current "Lamp mode".
Lamp control	Displays the current "Lamp control".
Lamp interval	Displays the current "Lamp interval".
Lamp status	Displays the status of the 2 lamps with an icon. Refer to the table on page 45.
Lamp Corres. Value(h)	Displays the use time (Corresponding value) of the 2 lamps.
Security	Displays the security (Key lock and PIN code lock) status.

## Information 2

Item	Description
Power management	Displays the power management status.
Shutter	Displays the shutter status. (OFF: open, ON: close)
Shutter management	Displays the shutter management status.
Remote control	Displays the remote control code.
Filter time(h)	Displays the accumulated use time of the filter.
Filter condition	Displays filter status with an icon. Refer to the table as shown in the next page.
Color wheel type	Displays the color wheel type. (For brightness, For rich color reproduction)
Lens type	Displays the lens type number and it's lens specification.
Option control No.	Displays the option control number for purchasing suitable optional terminal boards.



## Network

Items	Description
MAC address	Displays MAC address of the projector.
IP address	Displays the IP address of the projector.

**Indication of the lamp status**

Icon display/background	Status
 White/Blue	Lamp on (Normal)
 White/Red	Lamp on (Lamp is being used over a specified use time, replace lamp immediately)
 Gray/Blue	Lamp off (Normal)
 Gray/Red	Lamp off (Lamp is being used over a specified use time, replace lamp immediately)
 Red/Blue with X	Lamp failure (Lamp failure, check lamp condition)
 Red/Red with X	Lamp failure (Lamp failure and lamp is being used over a specified use time, replace lamp immediately)

**Indication of the filter status**

Icon display/background	Status
 Blue	Good condition.
 Yellow/Gray	Filter is almost clogged.
 Red/Gray	Filter is clogged. Replace a filter with new one. * When the projector cannot decode the return from the filter cartridge, this icon also appears.



# 5

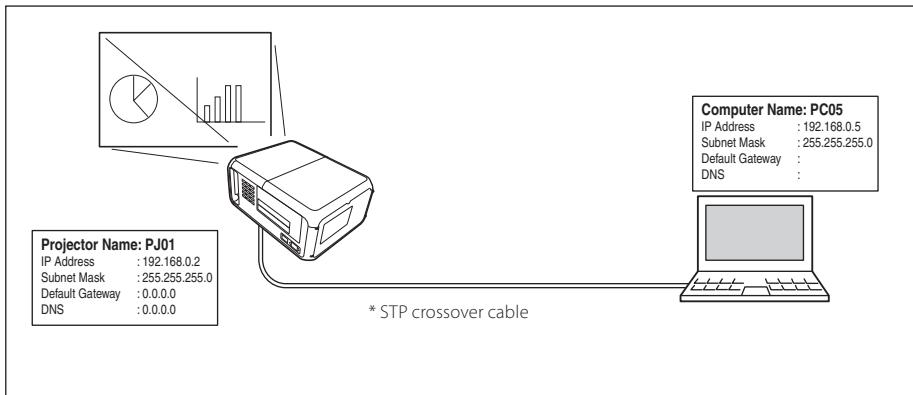
## *Chapter 5* *Appendix*

- 
- Connection examples
  - Use of telnet
  - Web browser setting
  - Technical data
  - Q & A

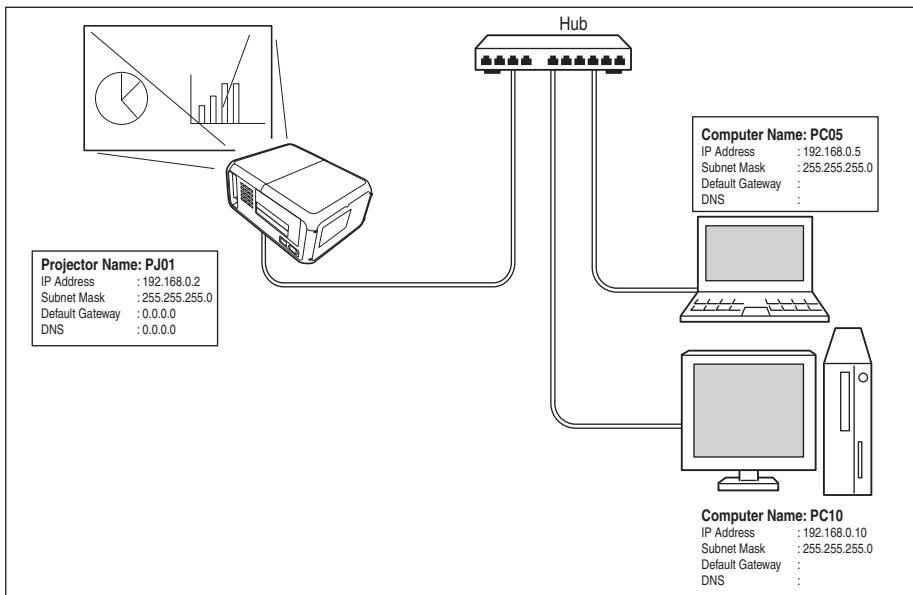
## Examples of connection

### Peer-To-Peer connection

Connecting the projector (PJ01) to the control computer (PC05) directly.



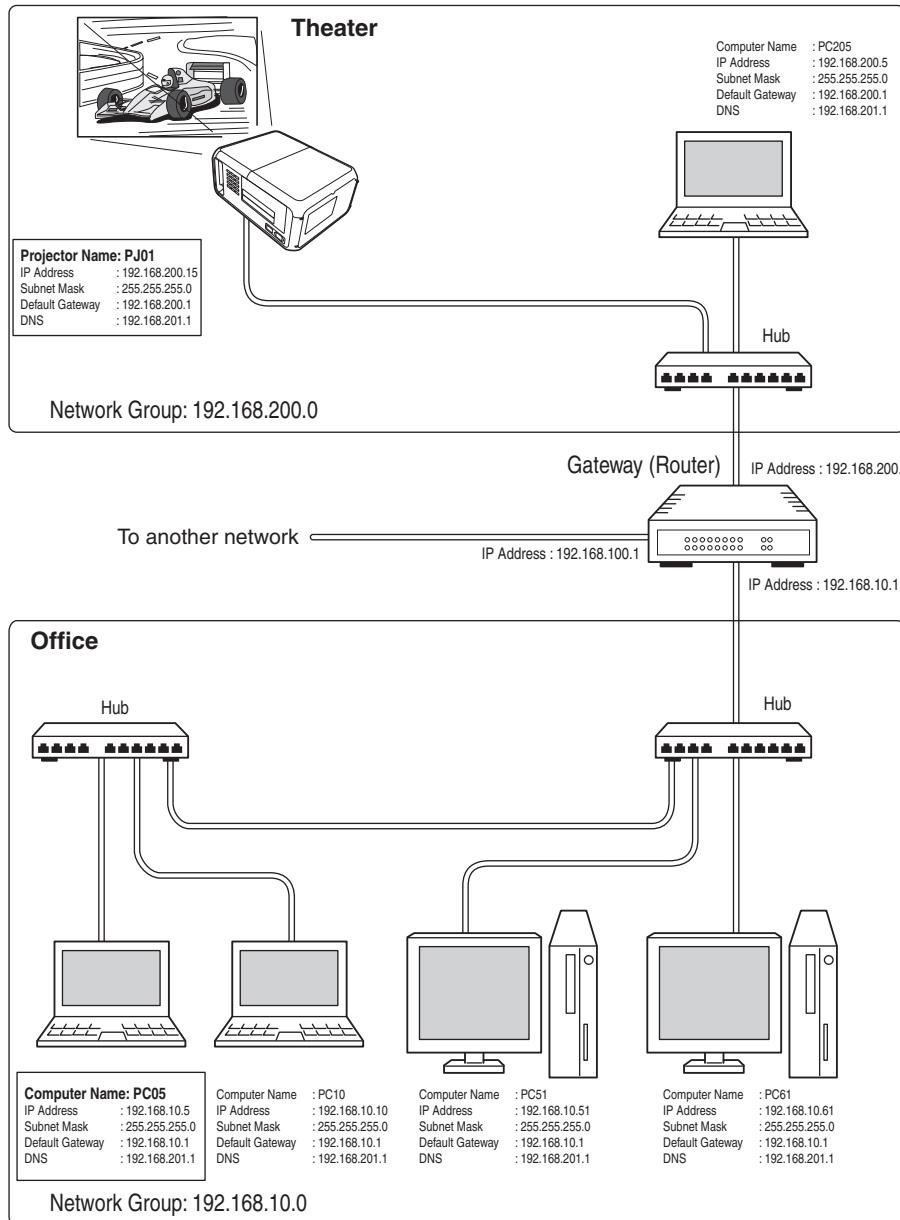
Connecting the projector (PJ01) to the control computer (PC05) via the hub.



When the projector is connected to the computer directly without hub, the STP crossover cable should be used.

**The gateway (Router) installed in the network**

Connecting the projector (PJ01) to the control computer (PC05) via the gateway.



## Use of telnet

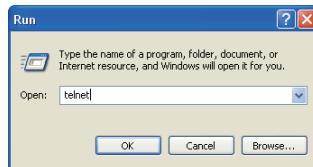
You can control the projector by using the telnet application\*1 installed on your computer. Normally, the telnet application is available on your computer.

\* The telnet 10000 port is used to control the projector.

### Control

(For example, in case of using the telnet application of **Windows XP Professional**.)

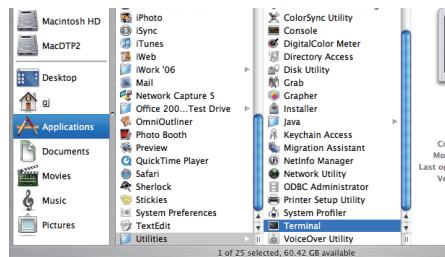
1. Select **Run...** submenu from **Start** menu on the computer. Type "telnet" onto the **Open** text area on the displayed window and press **OK** button.



(For example, in case of using the telnet application of **Mac OS X v 10.4**)

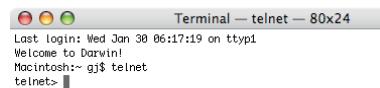
1. Select **Terminal** from **Applications**

-->**Utilities**.



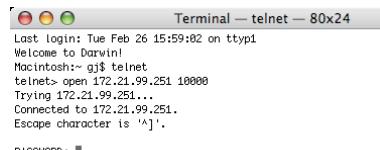
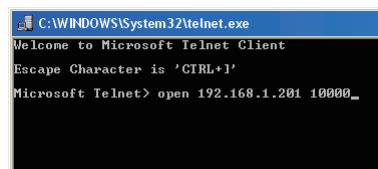
Type as below on the displayed window.

> telnet [return]



2. The telnet application will start and the following window will be displayed. Type as below to connect the projector.

> open 192.168.1.201 10000 [return]

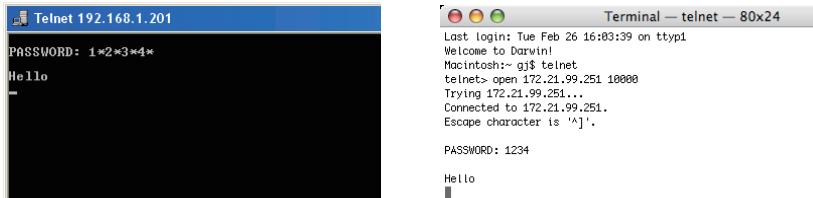


\* Use the IP address assigned to the projector.

3. When communication is established correctly, the word "PASSWORD:" appears on the window. Type the login password (Network PIN code<sup>\*)</sup>) for the projector and then press "Enter" key on the keyboard. If you do not set up the Network PIN code, just press "Enter" key.

When the word "Hello" is replied, login has been succeeded.

\* The password "1234" is used for the example.



4. Type the commands, refer to below table, to control the projector and then press "Enter" key for termination. For example, type "C00" which is a command to turn on the projector, and press "Enter" key. Confirm the projector is turning on.

\* Enter with ASCII 64-byte capital characters and one-byte characters.

To disconnect the communication, press "Ctrl" key and "]" key at the same time, type "close" and then press "Enter" key on the Keyboard.

> close [return]

The table below shows the typical command lists for controlling this projector and please consult your local dealer for further information of another commands.

**Command list table**

Command	Function
C00	Power on
C01	Power off
C05	Select Input 1
C06	Select Input 2
C07	Select Input 3
C08	Select Input 4
C1C	Menu display on
C1D	Menu display off

\*1 Further instructions about the telnet application, please see the on-line guide on your computer.

\*2 The password is a Network PIN code decided item "Network PIN code setting" (p.15, 23). If the authentication of the entered password is failed 4 times continuously, the communication will be disconnected automatically. Please try again for the connection.

☞ If the password or any command is not entered for more than 30 seconds, the communication will be disconnected automatically. Please try again for the connection. (p.50)

Windows : Press any key and then type at "Microsoft Telnet > ".

MAC : Type "telnet" [return] and then type at "telnet > ".

## Web browser setting

This projector is designed to be set up and controlled from an Internet web browser. Depending on the preference settings of the web browser, some control functions may not be available. Please make sure that the following functions are set up properly in the web browser.

### Active Script/JavaScript enable

There are some control items used with the JavaScript function in the setting pages. If the web browser is set not to use this JavaScript function, it may not control the projector properly. In this case, the warning message "Make sure JavaScript is ON." will be displayed on the top of the page. To enable the JavaScript, please see further instructions on the next page.

### Proxy setting

In some cases, your web browser is set up to use the proxy server for the internet or intranet connection. In this case, when you install this projector into the local network, you should set up the proxy setting of web browser preference correctly. Especially when connecting the projector and computer with a STP crossover cable directly, or when the network does not provide the proxy server, make sure that "not use proxy server" is set up in your web browser preference. Please see item "Examples: OS/Browsers" in the next page for further setting up procedure.

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⌚ There are various ways to change your browser preferences depending on the version or applications. Please see the setting instructions on next page for example and also refer to on-line help of your web browser.

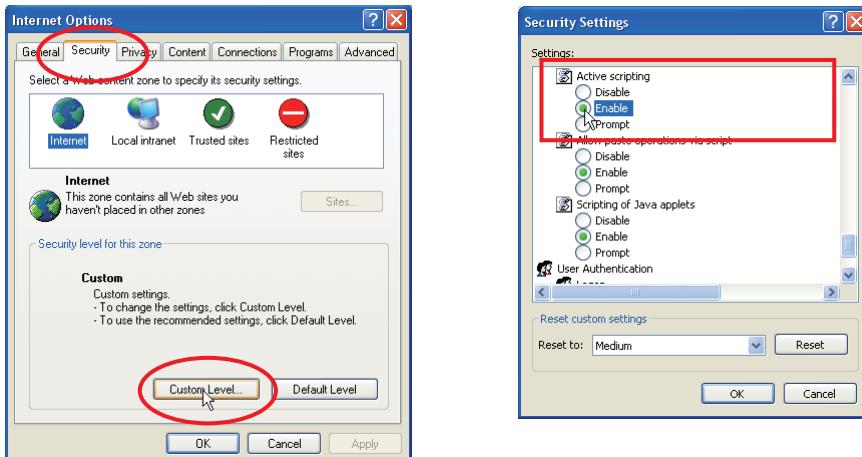
## Examples: OS/Browsers

### Windows XP Professional

#### Internet Explorer v.6.0

##### ActiveScript setting

Select **Internet Options** from **Tools** menu on the web browser and then select **Security** tab and click **Customize Level...** button. On the security setting window, scroll down and find the **Scripting** item, make sure that "Enable" is selected in item **Active Scripting**.



## Proxy setting

Select **Internet Options** from **Tools** menu on the web browser and then select **Connection** tab and click **LAN Settings** button. Properly set up your web browser's the proxy server settings according to the local area network environment to which the projector is connected.

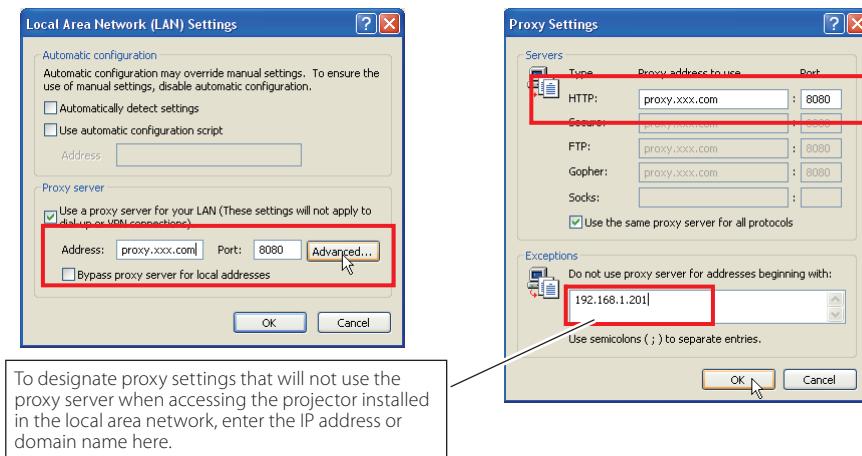
### - Using proxy server

To use an external internet connection from the local area network, check the item **Use a proxy server** and enter the proxy server address and port correctly in the proxy settings window. For further instruction please consult your network administrator.

### - Not using proxy server

Uncheck the item **Use a proxy server**.

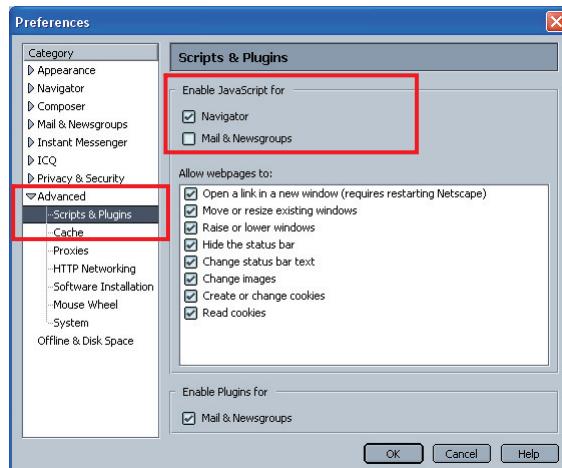
If you connect the projector to the computer directly with STP crossover cable, this must be unchecked.



## Netscape Navigator v.7.1

### JavaScript Setting

Select **Preference** from **Edit** menu on the web browser and then select the item **Advanced/Scripts & Plugins** in the **Category** column. Make sure that the **Enable JavaScript for Navigator** is checked.



### Proxy setting

Select **Preference** from **Edit** menu on the web browser and then select the item **Advanced/Proxies** in the **Category** column. Properly set up your web browser's proxy server settings according to the local area network environment to which the projector is connected.

#### - Using proxy server

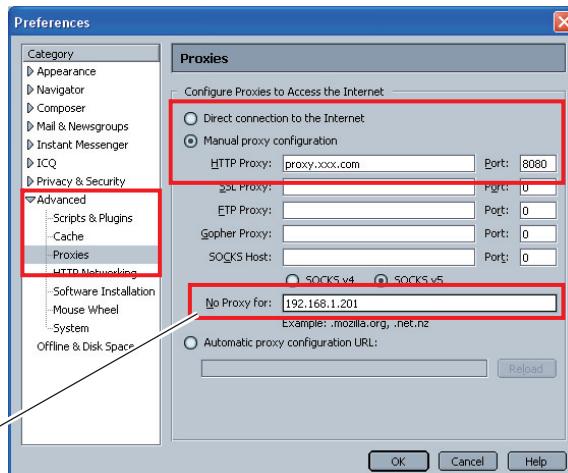
When you use an external internet connection from the local area network, select the item **Manual proxy configuration**. Enter the proxy server address and port number correctly on **HTTP Proxy** item. For further instruction please consult your network administrator.

#### - Not using proxy server

Select the item **Direct connection to the Internet** in the proxy setting window.

If you connect the projector to the computer directly with STP crossover cable, this must be selected.

To designate proxy settings that will not use the proxy server when accessing the projector installed in the local area network, enter the IP address or domain name here.



## MAC OS X v 10.4

### Safari v.3.2.1

#### JavaScript enable setting

Select **Preferences...** from **Safari** on the web browser and then select **Security** tab and check **Enable JavaScript**.



#### Proxy setting

1 Open **Preferences...** from **Safari** menu on the web browser **Safari**. The preference menu appears.

2 Select **Advanced** icon and then click **Proxies: Change Settings ...**

3 Select **Proxies** tab and properly set up your web browser **Safari**'s proxy server settings according to the local area network environment to which the projector is connected.

#### - Using proxy server

To use an external internet connection from the local area network, check the items **Web Proxy (HTTP)** and **Secure Web Proxy (HTTPS)** of **Select a proxy server to configure** window and enter the proxy server address and port correctly in **Web Proxy Server** window. For further instruction please consult your network administrator.

#### - Not using proxy server

Uncheck the items **Web Proxy (HTTP)** and **Secure Web Proxy (HTTPS)** of **Select a proxy server to configure**.

If you connect the projector to the computer directly with STP crossover cable, they must be unchecked.

The image shows two windows: 'Advanced' in the Safari Preferences and 'Network' in the System Preferences. In the Advanced window, the 'Proxies' button is circled in red. In the Network window, the 'Proxies' tab is selected and highlighted with a red circle. A callout box points from the 'Proxies' section in the Advanced window to the 'Proxies' tab in the Network window. A text box at the bottom left provides instructions for bypassing proxy settings.

To designate proxy settings that will not use the proxy server when accessing the projector installed in the local area network, enter the IP address or domain name here.

## Q&A

### Installation/Access

#### **Q** *Why doesn't the setting page appear in my web browser?*

**A** Following causes are possible. Please check them.

1. The projector does not connect to the network.

Check LED indicators status (☞ p.13).

- Check the connection of LAN cable if the LINK Lamp does not light green.

- Check the network configuration of the projector if the ACT Lamp does not blink orange.

2. Wrong network configuration of the computer.

Check the network configuration of the computer.

3. The proxy setting of the web browser is not set correctly (☞ p.52).

4. The computer does not provide TCP/IP protocol.

#### **Q** *How can I restrict access from the computer.*

**A** 1. Please use the password authentication function on the login page (☞ p.23).  
2. Please use the IP filtering function provided with the gateway (router) to restrict the accessing from the computer. For further information please consult your network administrator.

#### **Q** *Can I access the projector installed on the company's local area network from a remote location?*

**A** There are some ways to access to the projector in the LAN, but you must consult your network administrator for security reason.

☛ Use of modem

(Connect to the company's network from your home or some other places by using modem.)

☛ Use of private line

(Connect to the company's network from the branch office or maintenance office by using private line.)

☛ Use of internet

(Connect to the company's network from your home, branch office or some other places by using the internet.)

**Q**

**We use the DHCP/BOOTP server to assign the IP address. Is it possible to use the projector in this network environment?**

**A**

Possible. This projector supports the DHCP/BOOTP server. To use this projector in this network environment, set it up so that the DHCP/BOOTP server does not assign the IP address configured to this projector for another device on the network. Please consult your network administrator (☞ pp.13-14, 24).

**Q**

**How can I install several projectors?**

**A**

Install and configure network one by one to avoid the IP address collision each other. To configure the IP address please see item "Network configuration" (☞ pp.13-14, 24).

## Password/Login

**Q**

**What should I do when I forget the IP address of the projector?**

**A**

You can check the IP address in the "Network information" menu.

**Q**

**What should I do when I forget the password (Network PIN code)?**

**A**

Please set the new network PIN code in the "Network PIN code" menu.

**Q**

**Can I register the setting page as a web browser "Favorites" or "Bookmarks"?**

**A**

Please add "Login" page to your "Favorites" or "Bookmarks". Do not add the specified setting page because it will not be able to perform the password authentication correctly.

## Operation

### **Q** *Why can't I change the controls in the setting page with web browser?*

**A** Please make sure the projector is turned on. If it is in the standby mode, the setting is not effective to the projector. To control the projector with a web browser, the projector must be in the powered-on condition.

### **Q** *Why does it sometimes take a lot of time to complete the page display?*

**A** The display speed of the page depends on the network environment in which both the projector and computer are placed. It may take much time to complete the page display if network traffic is heavy. Please consult your network administrator.

### **Q** *How many numbers of the E-mail address can I register in the E-mail setting page?*

**A** You can register up to 10 addresses.

### **Q** *Why am I not receiving E-mail alert messages?*

**A** Make sure that the registered E-mail address and SMTP server address are correct. If the SMTP server is located in your LAN (Local Area Network), the address should be set to the SMTP server in your LAN. The SMTP server located outside of your LAN may not be available for security reason. For further information please contact your network administrator (☞ p.25).

## Others

### **Q** *What are the rules for IP address assignment?*

**A** If the network is constructed with TCP/IP protocol, a unique IP address is required for each piece of network equipment. The following are basic rules of the assignment.

Rule1

Do not configure the same IP address to the network equipment in the same network group. Each piece of equipment must be assigned a unique IP address.

If the IP address is set [192.168.x.x], the Subnet Mask should be set [255.255.255.0] for example.

Rule2

The start address [xxx.xxx.xxx.0] and the last address [xxx.xxx.xxx.255] of the IP address must not be assigned to any other equipment. These address numbers are reserved.

Rule3

The IP address must correlate to a network number. If network numbers are different between the equipment, they cannot establish communications each other. In this case, the router is placed in the networks to make the routing.

### **Q** *Can I control the projector by using the telnet application?*

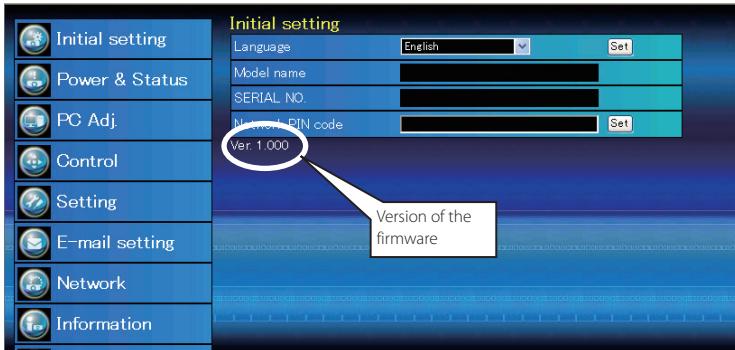
**A** Possible. Please refer to the item "Use of telnet" (☞ p.50 - 51).

### **Q** *What is the MAC address assigned to the projector?*

**A** The MAC address is displayed in "Network information" menu of the projector (☞ p.16) and in "Information" menu through the web browser (☞ p.44).

**Q** *Can I update the firmware of the projector.***A**

It is possible to update the firmware through the network. It is required to have a special tool for the updating. For further information please consult your local dealer. The version number of the firmware is indicated on the lower part of the "Initial setting" page.







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