# **LHD700** Network Set-up & Operation



## USER MANUAL

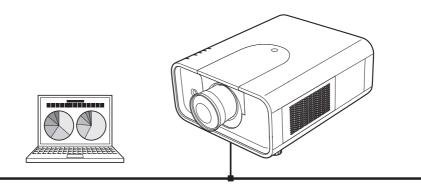
020-000446-01





# **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 LHD700



# **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



Compliance	
Safety instructions	
Table of contents	
Chapter 1 Preparation	
Features	6
Required operating environment for computers	7
Network specifications of the projector	7
Flow of installation	
Notice about installing Software CD-ROM	9
Chapter 2 Setup Procedures	11
Connecting to the LAN line	
Network configuration	
Network PIN code	
Network information	14
AMX D. D.	
Network factory default	
Wired LAN factory default settings	
Chapter 3 Basic Setting and Operation	17
Login the setting page of the projector	
[1] Enter the IP address	
[2] Login	
[3] Display of main setting page	
How to use the setting page	
Initial setting	
Network PIN code setting	23
Network configuration	
E-mail setting	
Examples: Type and contents of alert mail	
SNMP setting	
Chapter 4 Controlling the Projector	
Power control and status check	
Control	
Input	
System	
Image adjustment	
PC adjustment	
Setting up the projector	
Screen setting	
Lens adjustment	
Setting 1	
Setting 2	
Setting 3	
Information	
Chapter 5 Appendix	
Examples of connection	
Use of telnet	
Web browser setting Examples: OS/Browsers	
O&A	



# Chapter 1 Preparation

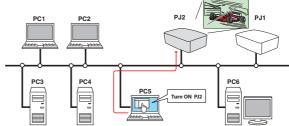
Describes features and operating environment of this projector.



# Features

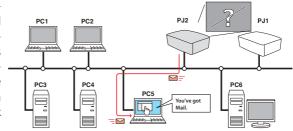
#### Web Management function (Pp.33)

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 (Procession (Procession Contemporation (Procession Contemporation Contemporatio Contemporation Contemporation Contemporation Contempor

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.

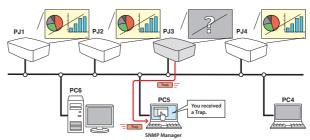


#### SNMP Agent function (187 p.30)

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 user'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)		
env	Free disk space	100MB or more		
iron	Drive equipment	CD-ROM drive		
Iment	Display settings	Support one of following resolutions; VGA (640 x 480), SVGA(800 x 600), XGA(1,024 x 768) Number of col- ors: 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, 7.0 or 8.0 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*		<ul> <li>Microsoft Outlook - Microsoft Outlook Express</li> <li>Netscape Mail</li> <li>Required the internet e-mail application software to receive an e-mail alert sent from this projector. If you do not use the func- tion E-mail Alert, this application is not required.</li> </ul>		

# Network specifications of the projector

LAN Terminal

Data communication standards         10Base-T/100Base-TX/1000Base-T compatible	
Physical layer	10Base-T
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.

#### Trademarks

Ethernet is a registered trademark of Xerox Corporation. Microsoft, Windows, Windows 2000, Windows XP, Windows Vista and Windows 7 are registered trademarks of Microsoft Corporation in the United States and other countries. Internet Explorer is a registered trademark of Microsoft Corporation. Netscape Navigator and Netscape Communicator are trademarks or registered trademarks of Netscape Communications Corporation. JavaScript is a registered trademark of Sun Microsystems, Inc.

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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 projec
  - tors, then start browser configurations.
    - $\rightarrow$  "3. Basic setting and operation" (pp.17–31).

#### **STEP 2** Network Configuration has completed.

- Follow each chapter to operate the projector.
   Operate and manage the projector → "4. Controlling the projector" (pp.33-45)
  → "Power Control and status check" (p.34)
  → "Control" (p.36)
  → "PC adjustment" (p.39)
  → "Setting up the projector" (p.40)
  - → "Information" (p.44)

## **STEP 3** Install the Software on computers.

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



# Chapter 2 Setup Procedures

2

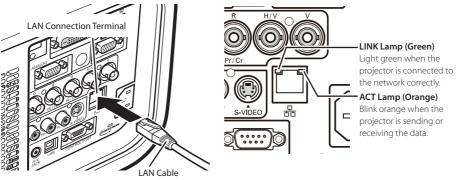
Describes how to configure the network.



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 the LAN line**

Connect the LAN cable to the LAN connection terminal of the projector.



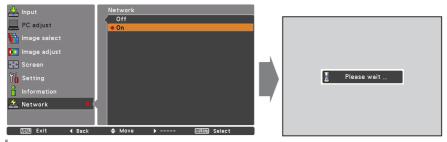
\* Please use a shielded LAN cable.

#### **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.17-31). First, complete the settings described in this chapter before performing steps in "3. Basic setting and operation."

#### **Setting Procedure**

- 1. Select "Network" in the Network menu, and press Point ▶ or **SELECT** button.
- 2. Select "On" with the Point ▲▼ buttons, and the press SELECT button. 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.



LHD700 Network User Manual 020-000446-01 Rev.1 (11-2011)

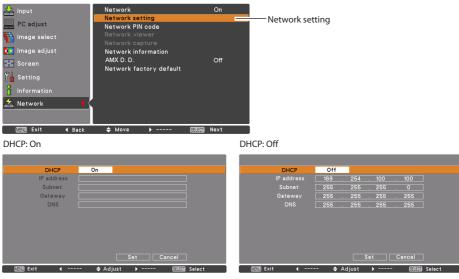


3. Select "Network setting" in the Network menu and press **SELECT** button, and then the LAN setting screen will appear and selected LAN settings will be displayed. Adjust each item to the setting environment. Consult your system administrator about the detailed settings.

Press **SELECT** button in a row where you want to adjust, and adjust the figures with the Point  $\blacktriangle$  buttons and move among the items with the Point  $\blacklozenge$  buttons, and then press **SELECT** button to fix. Move to the next row with the Point  $\blacklozenge$  buttons to adjust.

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.14). In such cases that the LAN cannot be connected, see this screen.



\* The numerical value is a setting example.

ltem	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
	Sets IP address of the default gateway (Router) 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).

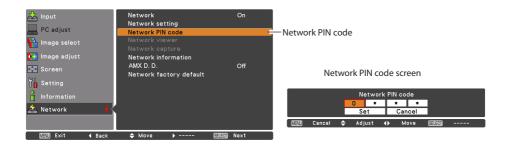
\*3 Set [255.255.255.255] if you do not use the function E-mail alert.

## **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.

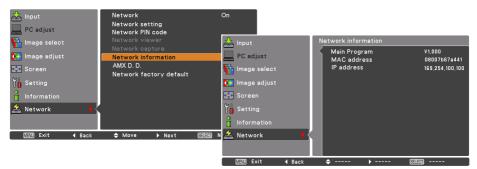
- 1. Select "Network PIN code" in the Network menu, and press **SELECT** button.
- The Network PIN code screen will appear.
- 2. Set the Network PIN code.

Set the figures with the Point  $\blacktriangle$  buttons and move to the next items with the Point  $\blacktriangleleft$  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"  $\rightarrow$  "Initial setting"  $\rightarrow$  "Network PIN code setting" (p.23).



## **Network information**

Select "Network information" in the Network menu and press Point **>** or **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.

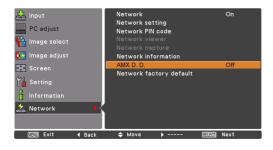
**CHkistie** 



# AMX D. D.

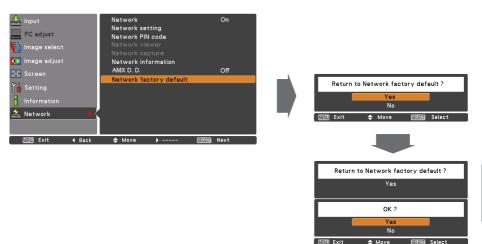
Choose "AMX D. D." in the Network menu and press **SELECT** button, select ON or OFF to allow the projector to be detected by AMX Device Discovery.

For more details, visit http://www.amx.com/.



# 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.



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# Wired LAN factory default settings

Parameter	Settings
DHCP	Off
IP ADDRESS	169.254.100.100
SUBNET MASK	255.255.0.0
GATEWAY ADDRESS	255.255.255.255
DNS ADDRESS	255.255.255.255

# 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.

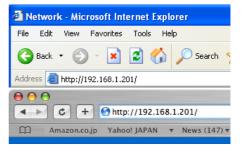


# Login the setting page of the projector

#### [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" (IPS p.12).



\* 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.

	Conne	ct to 192.1	68.1.201		
	-	1	G S		
	id = us	er			
	User n	ame:	🖸 user 💌		
	Passw	ord:	••••		
			Remember my password		
			OK Cancel		
Ć	To view this page, you need to log in to area "id = user" on 192.168.1.201. Your password will be sent in the clear.				
		Name:	user		
		Password:			
	Remember this password in my keychain				
			Cancel Log In		

# [3] Display of main setting page

**CHkISTIE**<sup>®</sup>

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

Initial setting	Control			
Initial Setting	Contrast	/ <u>stem</u> / <u>Image adj.</u>	Set - +	Sub menu tab
Bower & Status			Set - + Set - +	Switches the sub
PC Adj.	Brightness Color	32		menu tab.
PO Auj.		32	Set - +	
Gontrol	Tint		Set - +	
	Color tem White bala		✓ Set	
Setting	wwnite bala	nce Red <mark>32</mark>	Set - +	
E-mail setting		Green 32	Set - +	
	-	Blue 32	Set - +	
Network	Offset			
Information		Red 32	Set - +	
	-	Green <mark>32</mark>	Set - +	
SNMP setting		Blue 32	Set - +	
	Auto pictu	ire control	- Set	
	Advanced	color Auto	✓ Set	
	Sharpness	15	Set - +	
	Gamma	8	Set - +	
	Noise redu	iction ON n	- Set	
	Progressiv	e OFF	▼ Set	
	Reset		Reset	
	Store	Image	✓ Store.	
оположировски рокски рокски рокски	Load imag	e mode Stand and	- Load	
	-			
Main menu		Setting page		
		Displays the contr	oland	
For selection of cont		setting items acco		
setting items of the p	projector.	the selected men		



# 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.

Control Input / System / Im	ihe ane		
Contrast	32	Set - +	
Brightness	32	Set - +	
Color	32	Set - +	
Tint	32	Set - +	
Color temp.	Mid	▼ Set	
White balance			
T	Red 32	Set - +	
<sup>16</sup> C	àreen <mark>32</mark>	Set - +	*
	Blue 32	Set - +	
Offset			
	Red 32	Set - +	
C	ireen <mark>32</mark>	Set - +	
	Blue 32	Set - +	
Auto picture control	Li	✓ Set	
Advanced color	Auto	✓ Set	
Sharpness	15	Set - +	
Gamma	8	Set - +	
Noise reduction	ON	▼ Set	

#### 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.

Control Input / <u>System</u> /	<u>Image adj.</u>	
Contrast	32	Set - +
Brightness	32	Set - +
Color	32	Set - +
Tint	32	Set - +

Tint	32	Set - +
Color temp.	Mid	▼ Set
White balance	Red Low Mid	Set - +
	Green High	Set - +
	Blue <mark>32</mark>	Set = +

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 "---".



#### How to use the setting page

#### **Radio button setting**

Select an item by selecting a radio button.

Control Input / System /	<u>Image adj.</u>		
© RGB	RGB(PC analog)		
O 5BNC	Video		
	Video	-	
3	Set		

#### Check box setting

Select items by ticking on check boxes.

#### E-mail 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.





# 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.

	Initial setting		
Initial setting	Language	English 👻	Set
Power & Status	Model name		
	SERIAL NO.		
PC Adj.	Network PIN code		Set
Control	Temperature	Centigrade 🔹	Set
Control	PJLink	OFF 🗸	
🕢 Setting	Password		Set
E-mail setting	Ver. 0.002		a občenita občenita občenita občenita o
💮 Network	dia sector da se canvala se canvela se canve		
G Information			
SNMP setting			

\* The serial number in the figure is used for an example.

ltem	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)
Temperature	Switches display temperature unit. (Centigrade, Fahrenheit)
PJLink	Switches PJLink password authentication. (ON, OFF) (🖙 p.23)
Password	Password for PJLink function (🖙 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

Model name		
SERIAL NO.		
Network PIN code		Set
Temperature	Centigrade 🗸 🗸	Set

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.

	Network setting		
Initial setting	DHCP	OFF	
🐻 Power & Status	IP address	169.254.100.100	
	Subnet mask Default gateway	255.255.255.0 255.255.255.255	
💭 PC Adj.	Default gateway	255.255.255.255	
💮 Control		Set	
Setting	Projector name	Pro-05	Set
	Crestron control		
E-mail setting	IP address		a.ui:
🙆 Network	IP ID		
	Port	41794	
Information		OUL	
SNMP setting	AMX D. D.		
	AMX D. D.	OFF 🗸	Set

\* The numerical value is a setting example.

ltem	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*1	Sets IP address of the default gateway (Router)
DNS*2	Sets IP address of the DNS server. Must be set when using the e-mail function
Projector name*3	Sets name of the projector. (64 characters maximum)
	the number specified by your administrator. The address must be entered as a ur 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.



#### Crestron control

You can use Crestron RoomView® to monitor and control the projector through the net-work.

For more information, visit http://www. crestron.com & www.crestron.com/getroomview.

ltem	Description
IP address	Control System IP Address as a string. The default value is blank.
IP ID	Control System IP ID as a string. The default value is blank. (from 3 to 254)
Port	"The default value is 41794. (from 1 to 65535)



#### AMX D. D.

If your network environment uses an AMX controller, select ON to allow the projector to be detected by AMX Device Discovery. (ON, OFF) For more details, visit http://www.amx.com/.

AMX D. D.		
AMX D. D.	OFF	Set





# **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.

Initial setting	SMTP server	smtp.abc.xxx.com	Set	
🔝 Power & Status	SMTP server port	25	Set	
	Administrator address	admin@abc.xxx.com	Set	
PC Adj.	Add address		Set	
🚱 Control	SMTP Authenticat	tion setting		
🧭 Setting	Auth	OFF 🗸	Set	
	SMTP Auth	CRAM-MD5	Set	
🔄 E-mail setting	user ID		Set	20100000
Network	Password	****	Set	
	POP server		Set	
D Information	POP server port	110	Set	11-12-14 1-12-14
SNMP setting	<u>Check/Delete</u> Option			

ltem	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.

#### SMTP Authentication setting

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)
	Enter server name or IP address of the POP server. (up to 60 characters)



#### 1 Setting SMTP server and administrator address

Enter the server name or IP address of the SMTP server\*<sup>1</sup>, 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.

E-mail setting		
SMTP server	your_smtpserver	Set
SMTP server port	25	Set
Administrator address	admin@abc.xxx.com	Set
Add address		Set

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

E-mail setting

#### 2 Registering and deleting E-mail addresses

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

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

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.

SMTP Authenti	cation setting	
Auth	OFF 🗸 🗸	Set
SMTP Auth	CRAM-MD5	Set
User ID	user	Set
Password	****	Set

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.

LHD700 Network User Manual 020-000446-01 Rev.1 (11-2011)

Sivil P server	your_smtpserver	
SMTP server port	25	Set
Administrator address	admin@abc.xxx.com	Set
Add address	user5@abc.xxx.com	_ ভিক্
		~
	Check / Delete	
E-mail setting Check/Delete		

S
$\simeq$
$\leq$

#### 4 Setting POP server

When "POP before SMTP" is selected at "Auth" of "SMTP Authentication setting", enter "POP server\*2" 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.

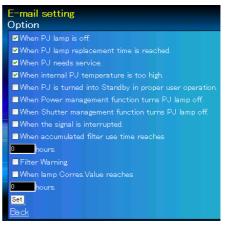
If the SMTP server is missing or the authentication is not completed because of input error in E-mail address setting or SMTP authentication setting when sending alert e-mail, the error message will be displayed. Please check the respective settings.

#### 5 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.

 <sup>&</sup>quot;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 use time.





POP server	your_popserver	Set
POP server port	110	Set
<u>Check/Delete</u>		
Option		



Option



#### 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 temperature goes over the safety limit. 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:

	rom projector Name: <i>model name</i> I.201 Projector Name: Proj05
It sends you follo	wing message.
	equirement from Projector is detected. tatus of projector and consult with the dealer. OK OK  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 poweron 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 (readwrite). 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.

🛞 Initial setting	SNMP setting PJ information			
🚯 Power & Status	Contact		Set	
	Place		Set	
🗊 PC Adj.	Community name(refer)	public	Set	
💮 Control	Trap			
	Community name	public	Set	
🧭 Setting	Trap address		Set	
🙆 E-mail setting	<u>Check/Delete</u>			
🛞 Network	<u>Option</u>			
🕞 Information				
SNMP setting				

PJ information

ltem	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

ltem	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.

✓ Up to 10 trap addresses can be registered.

SNMP setting Check/Delete		P.	t t	
192.168.1.5 192.168.1.6 Delete				
Back				

#### 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.

When PJ lamp is	
When PJ lamp rej	
When PJ needs s	
When internal PJ	
When PJ is turne	
When Power man	
When Shutter ma	
When the signal is	
When accumulate	d filter use time reaches <mark>0</mark>
	s Value reaches <mark>0 hours</mark> hours

"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.

 ${\mathscr O}$  Up to 99,999 hours can be set for the time setting.

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# 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.

🛞 Initial setting	Power & Status PJ status		
🕃 Power & Status	Power Status	ON Normal	
🗊 PC Adj.	Power control	ON Standby	
💿 Control	PJ temp. External temp. A	26.0 °C	Confirmation window as
Setting	Inside temp. A	50.1 °C	shown in the below appears when the <b>Standby</b> button is
» 💽 E-mail setting	Inside temp. B	45.7 °C	pressed.
Network			
- 🕞 Information			
SNMP setting			

Warning temperature icon



Popup confirmation window

Microsoft Internet Explorer 🔀		
Turn to standby?		
OK Cancel		

#### 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.

#### PJ temp.

External temp. A .. Displays the temperature around the remote control receptor at the front of the projector.

Inside temp. A ..... Displays the surrounding temperature of lamp in the projector.

Inside temp. B ...... Displays the surrounding temperature of panel in the projector.

\* The warning icon will appear if the temperature exceeds a specified value. Check if there is no object to obstruct the airflow around the intake or exhaust vent. It might be airfilter clogged. Replace the airfilter with new one.

\* The temperature unit can be set either Centigrade or Fahrenheit in the item "Initial Setting". (#@p.22)

 $\ensuremath{\mathscr{D}}$  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
Lamp failure	Lamp failure is occurring
Abnormal temperature	The temperature of the projector became too high
Standby 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. (INP.42)





# 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 user's manual of the projector to have the further information of each control item.

🛞 Initial setting	Control Input / System / Image adj
🐻 Power & Status	O RGB     RGE(PC analog)     ▼     SBNC     Video     Video     T
💭 PC Adj.	● VIDEO Video - Set
Control	
_ 🐼 Setting	
E-mail setting	
Network	
Information	
SNMP setting	

## 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.

ltem	Descriptio	on
Input	Selects inp	out mode of the projector.
Source	Selects sig	nal source of the input.
	RGB :	RGB (PC analog)
		RGB (Scart)
		RGB (PC digital)
		RGB (AV HDCP)
		HDMI
	5BNC :	Video
		Y, Pb/Cb, Pr/Cr
		RGB
	VIDEO :	Video
		Y, Pb/Cb, Pr/Cr
		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 user'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.

XGA1 👻	Set
XGA1 WXGA1 WXGA3 XGA6	

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

ltem	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) or HDMI input

ltem	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 Component input

ltem	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" (I p.39) 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.

ltem	Description	Control		
Contract		Input / System / Image	<u>ə adj.</u>	
Contrast	trast. (0~ 63)	Contrast	32	Set - +
Brightness	Adjusts picture bright-	Brightness	32	Set - +
5	ness. (0~ 63)	Color	32	Set - +
Color	Adjusts picture color	Tint	32	Set - +
	saturation. (0~ 63)	Color temp.	Mid	Set
Tint	Adjusts picture hue.	White balance		
Color tomp	(0~ 63) Sets a color temperature		d <u>32</u>	Set - +
color temp	mode. (X Low, Low, Mid,		n <mark>32</mark>	Set - +
	High, Adj.)		e <mark>32</mark>	Set - +
White balance		Offset		
Red, Green,	Blue Adjusts each white	and the second se	d <u>32</u>	Set - +
	balance respectively.		in <u>32</u>	Set - +
	(0~ 63)		e <mark>32</mark>	Set - +
	nen changing the value of the	Auto picture control	-	
	hite balance, the color temp. dicates "Adj."	Advanced color	Auto	
Offset	alcates Auj.	Sharpness	15	Set - +
	Blue Adjusts each offset	Gamma	8	Set - +
, ,	respectively. (0~ 63)	Noise reduction	ON -	
Auto picture cor	ntrol Sets auto picture con-	Progressive	OFF	
	trol level. (OFF, L1, L2)	Reset		Reset
Advanced cold	or Applies improved	Store	Image1	
	color adjustment with yellow light controller.	Load image mode	Standard	Load
	(Auto, OFF)			
Sharpness	Adjusts picture sharpnes	s. (0~ 31)		
Gamma		r part of the picture. (0	)~ 15)	
	nSwitches noise reduction			
Progressive	Switches progressive mo	de (OFF, ON, Film)		
Reset				
	Stores the Image adjustn			Image10] from
	the pull-down menu and		- 5	<u> </u>
Load image m	ode Loads the Image mode. S click <b>Load</b> button. There	Select an image mod		

mode as shown in the table left.

out sourd Video		
<b>v</b>	<b>v</b>	
<b>v</b>	~	
<b>v</b>	*	
~	*	
*	~	
~	~	
	Video	Video Computer

ne mark "🖌 " means that the available image mode in the elected input source. The error message appears when electing 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.

	PC Adj.				
Initial setting	Current mode	XGA1			
🔝 Power & Status	Auto PC adj.	Auto PC adj.			
	Fine sync	16	Set -	) 🖸	
🗊 PC Adj.	Total dots	1344	Set -	) 🛨	
🚯 Control	Clamp	1	Set -	) 🖸	
	Display area				
🧭 Setting		Horizontal <mark>1024</mark>	Set -	) 🖸	
		Vertical 768	Set -	) 🖸	
E-mail setting	Position				<b>acatolete</b> e
Network		Horizontal <mark>287</mark>	Set -	) 🖸	
Network		Vertical <mark>35</mark>	Set -	) 🖸	anata
Information	Reset	Reset			10 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -
	Mode	Mode1,Free 😪 😪	Store	Free	
SNMP setting					

ltem	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	
Horizontal	Adjusts the image area horizontally.
Vertical	Adjusts the image area vertically.
Position	
Horizontal	Adjusts the horizontal position of the screen.
Vertical	Adjusts the vertical position of the screen.
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.

🛞 Initial setting	Setting Screen setting/	<u>Setting1 / 2 / 3</u>
🚯 Power & Status	Screen	Wide (16:9) Set
	Ceiling	OFF Set
🗊 PC Adj.	Rear	OFF Set
O control	Screen aspect	Default (16:10) Y Set
Control	Keystone	
🐼 Setting	Ste	ep(s)
		Up Down Left Right Reset
E-mail setting		
Network	Digital zoom	
	Reset	Reset
- 🕞 Information	Lens adjustment	
	Zoom	
SNMP setting		ep(s) 1 🗸 🗸 - 🔸
	Focus	
		ep(s) 1
	Lens shift Ste	ep(s) 1
		Up Down Left Right
		Reset

# Screen setting

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

ltem	Description
Screen	Switches the screen mode. (Normal, Full, Wide(16:9), Zoom, True, Natural wide, Custom)
Ceiling	Sets the image top/bottom and left/ right reversed. (ON, OFF)
Rear	Sets the image left/right reversed. (ON, OFF)

	Wide (16:9)	👻 Set
Ceiling	Normal Full	Set
Rear	Wide (16:9) Zoom True	Set
Screen aspect	Natural wide Custom	Set
	Gustom	~
	1	<b>~</b>

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



# Item Description Screen aspect Sets the aspect. {Default(16:9), 16:10, 4:3} Keystone Corrects the keystone distortion of the projected image on the screen by pressing the Up/Down/Left/Right buttons. Click Reset to reset the keystone correction.

- Digital zoom ...... Adjusts the image zoom in and out at computer input mode. Click OFF to return the image to its normal size.
- Reset......Resets the settings of Screen, Ceiling, Rear, Keystone and Digital zoom.

		Wide (16:9)	🖌 🖌 Set
Ceiling		OFF	🗸 Set
Rear		OFF	✓ Set
Screen aspect		Default (16:10)	V Set
Keystone			
		) 1	~
		Up Down Left	Right
		Reset	
Digital zoom		Up Down OFF	
Reset		Reset	
Lens adjusti	nent		
		) 1	
Focus		s	·
Focus			
Focus Lens shift	Step(s	) 1	

Screen Aspect	Defaul	t(16:9)	16	:10	4	:3
	Input	source	Input	source	Input	source
Screen mode	Video	PC	Video	PC	Video	PC
Normal	~	~	~	~	~	~
Full	~	~	~	~	~	~
Wide(16:9)	*1	*1	~	~	~	~
Zoom	~	~	~	~	~	~
True	*1	~	*1	~	*1	~
Natural wide	*2	*1	*2	*1	*1	*1
Custom	~	~	~	~	~	~

- The mark "
  "
  "
  means that the available screen mode in the selected input source system.
- \*1 The error message appears when selecting the disabled screen mode indicated with "\*1".
- \*2 Natural wide cannot be selected when 720p, 1035i, 1080i or 1080p is selected in AV system menu.

# Lens adjustment

ltem	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.



✓ Set

👻 Set 👻 Set

👻 Set

👻 Set

👻 Set

🔹 Set 🔻 Set

🗕 👻 Set

# Setting 1

ltem	Description	Setting Screen setting / Setting	ng1/2/3
Input button	Sets the input search mode by pressing	Input button	Mode2
	the INPUT button of the projector and the	Display	ON
	remote control. (Mode1, Mode2, Mode3)	Background	Blue
Display	Switches on or off the on-screen menu	Logo	Default
	display on the screen. (ON, Countdown off, OFF)	Picture in Picture	OFF
Countdowr	off Displays input image instead the	Edge blending	OFF
Countdown	countdown during the startup.	Color matching	ON
Background	Sets the screen background when no sig-	HDM setup	Normal
Duckground	nal input. (Blue, User, Black)	Lamp control	Auto
Logo	Sets on or off the logo display on the screen during the startup. (User, Default, OFF)		<u></u>
Picture in Picture	Sets the Picture in Picture mode. (OFF, User1	- User5)	
Edge blending	Sets the seamless overlapping for multi-scre	en. (ON, OFF)	
Color matching	Corrects the difference of color for multi-scre	en. (ON, OFF)	
HDMI setup	Sets the input signal from HDMI input.		
Image	Sets the Digital RGB image level of HDMI. (No	ormal, Enhanced)	
Lamp control	Selects lamp control mode. (Auto, Normal, E	co1, Eco2)	

# Setting 2

ltem	Description	Setting	-1 (9 (2	
	Scroll the filter. Click "Roll-up", a confir- mation display appears, and then click "OK", the filter will be scrolled. ISets the running speed for the cooling	Screen setting / Setting Filter control Fan speed control Remote control Power management	21 / 2 / 3 Roll-up Normal Code1	v Set
	fans. (Normal, Max) Selects the remote control code. (Code1 - Code8) tSets into the selected power manage-	Tim Direct on Key lock	e 5 min. OFF OFF	Set - + V Set V Set
r en el managemen	ment mode (OFF, Ready 1, Ready 2, Shut down) if the input signal is inter- rupted and no control key is pressed for the specified period of time. *The specified time can be set 1 to 30	PJ lock suspend Shutter Shutter management Release ke Tim	Execute OFF Any e 180 min.	✓ Set ✓ Set
	min. Sets the power-on mode when the AC co Sets the prohibition of controls either Pro Remote control)	ord is connected to	o the outlet.	
	When the projector has a security of PIN by pressing Execute button.	code lock, disable t	this function 1	temporarily

#### Setting procedure

- 1. Turn off the projector, disconnect AC cord from the outlet and then connect AC cord again.
- 2. Access this page with the web browser.
- 3. Click Execute button on the PJ lock suspend.

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



#### Continue from the previous page.

Item	Description	= PJ lock suspend	Execute	
Shutter	Sets the shutter operation. (ON: close,	Shutter	OFF	✓ Set
	OFF: open)	Shutter manageme	ent	
Shutter		Rel	ease key <mark>Any</mark>	V Set
management.	Sets the shutter management opera- tion.		Time 180 min.	Set - +
Release key	Sets available keys to release the shutter.	(Any, SHUTTE	R)	
Time	Sets the specified period of time when the	ne projector sh	nuts down after	the projector
	is left with the shutter closed.			

\* The specified time can be set 5 to 480 min.

## Setting 3

ltem	Description	Setting		
Closed captio	<b>n</b> Sets the closed caption function.	Screen setting / Settin Closed caption	<u>e1 / 2 / 3</u>	
Closed caption	nSets the closed caption mode. (OFF,	Closed caption	on OFF	Set
	CC1, CC2, CC3, CC4)		or Color	Set
Color	Sets the color of the contents. (Color,	Lamp Corres Value (h)	14	Reset
	White)	Filter counter (h)	17	Reset
Lamp Corres. Value(h	n)Displays the lamp use time	Filter warning	OFF	Set
	(Corresponding value). Reset the time	Scrolls remaining	8	Set
	after lamp replacement. Click "Reset", a confirmation display appears, and	Freeze	OFF	Set
	then click "OK", the time will be reset.	Test pattern	OFF	· Set
Filter counter(h	)Displays the filter counter. Reset the	Factory default	Execute	
	time after filter cartridge replacement.			Fa Fa f
	Click "Reset", a confirmation display			
	appears, and then click "OK", the time			
	will be reset.			
	* Do not reset the Filter counter when th	5	1	
Filter warning	Sets the time to indicate the filter warnir 1000H)	ng message on the	screen. (OFF, 40	0H, 700H,
Scrolls romaining	<b>g</b> Displays the scrolls remaining of the filte	or Posot the scroll c	ountor ofter filt	or cor
	tridge replacement. Click "Reset", a confi			
	the time will be reset.		sears, and then	chek on,
	* Do not reset the Scrolls remaining whe	n the filter cartrido	e is not replace	d
Freeze	Sets the image to freeze mode. (ON, OF	-	e is not replace	
	Sets the preset image of the projector. (	·	n1 - Gradation4	1 All
rest pattern	white, All black, Cross)		in Gladation	i, / (ii
Factory defaul	tSets all of the projector control items to lowing items.	the factory default	setting except t	he fol-
	User Logo, Logo PIN code lock, PIN code time, Network PIN code, Network setting		Value, Filter cou	unter, PJ
	* This function is not effective for the set settings, etc.	tings of Network ac	ddress settings,	e-mail



ENGLISH





# Information

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

	Information	
Initial setting	Input	MDEO
Power & Status		Video
	System	Auto
🗊 PC Adj.	Signal	Yes
	Screen	Wide(16.9)
Control	Lamp status	
🐼 Setting	Security	
		lock OFF
E-mail setting	PIN code	
Network	Shutter	OFF
	PJ time(h)	3
Information	Lamp Corres Value(h)	<u>15</u>
SNMP setting	Filter time(h)	4
SNWP Setting	Filter condition	*
		Update -
	Network	Click this button to
	MAC address	08007B670000 update the information.
	IP address	172.21.99.251

#### Information

Items	Description
Input	Displays selected input and source.
System	Displays selected signal system.
Signal	Input signal status (Yes, No)
Screen	Displays screen mode.
Lamp status	Displays lamp status with an icon. Refer to the table as shown in the next
	page.
Security	Displays the security (Key lock and PIN code lock) status.
Shutter	Displays the shutter status. (OFF: open, ON: close)
PJ time(h)	Displays the accumulated use time of the projector.
Lamp Corres. Value(h)	Displays the use time (Corresponding value) of the lamp.
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.

\* When PIP mode is active, displays Input, System, and Screen to "PIP mode".

Network	
ltems	Description
MAC address IP address	Displays MAC address of the projector. Displays the IP address of the projector.



### Indication of the lamp status

lcon display/background	Status	
White/Blue	Lamp on (Normal)	
White/Red	amp on (Lamp is being used over a specified use time, replace lamp mmediately)	
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

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



# Chapter 5 Appendix

5

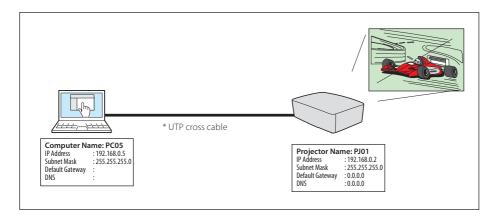
Connection examples Use of telnet Web browser setting Q & A



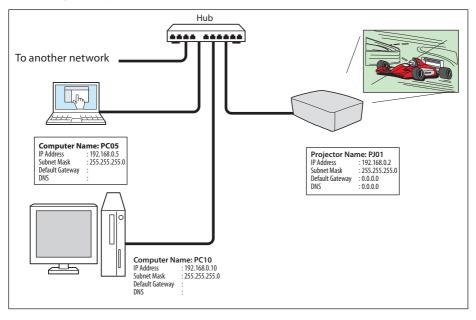
# **Examples of connection**

#### 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.

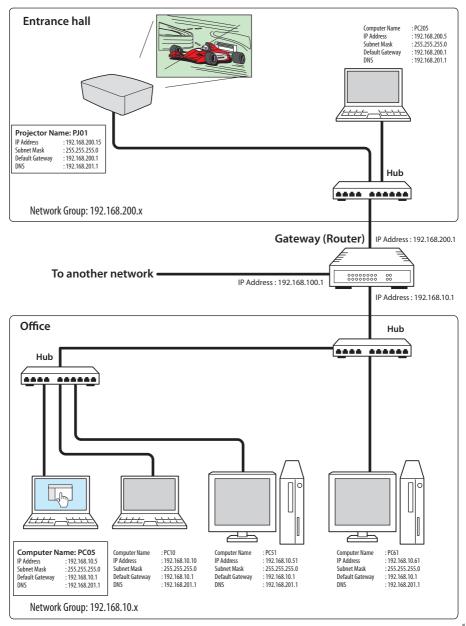


When the projector is connected to the computer directly without hub, the UTP cross cable should be used.



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

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



LHD700 Network User Manual 020-000446-01 Rev.1 (11-2011) ENGLISH



# Use of telnet

You can control the projector by using the telnet application<sup>\*1</sup> 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.

Run	? 🛛
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	telnet
	OK Cancel Browse

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

1. Select **Terminal** from **Applications** -->Utilities.

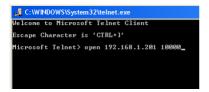


Type as below on the displayed window. > telnet [return]



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>\*2</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	Function
C00	Power on
C02	Power off
C1C	Menu display on
C1D	Menu display off

#### **Command list table**

\*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" (#pp.14, 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.



# 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 UTP cross 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.

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.

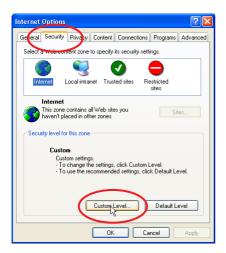
# **Examples: OS/Browsers**

## 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 UTP cross cable, this must be unchecked.

Automatic configuration may override manual settings. To ensure the	Servers	
use of manual settings, disable automatic configuration.	Type Provy address	to use Port
Automatically detect settings	HTTP: proxy.xxx.col	m : 8080
Use automatic configuration script	FTP: proxy.xxx.co	m : 8080
Address	Gopher: proxy.xxx.co	m : 8080
Proxy server	Socks:	
Use a proxy server for your LAN (These settings will not apply to dial.up.or.VPN.coppections)	Use the same proxy serve	r for all protocols
Address: proxy.xxxx.com Port: 8080 Advanced Bypass proxy server for local addresses	Exceptions Do not use proxy server for a	addresses beginning with:
OK Cancel	192.168.1.201	ate entries.
designate proxy settings that will not use the	[	OK Cancel



#### 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.

Preferences	×
Category D Appearance D Navigator D Composer D Mail & Newsgroups D Instant Messenger D ICQ D Privacy & Security Advanced Forcise Proxies HTTP Networking Software Installation Mouse Wheel System Offline & Disk Space	Scripts & Plugins         Enable JavaScript for         Navigator         Mail & Newsgroups         Allow webpages to:         Ø Open a link in a new window (requires restarting Netscape)         Ø Move or resize existing windows         Ø Raise or lower windows         Ø Hide the status bar         Ø Change status bar text         Ø Change inages         Ø Create or change cookies         Ø Read cookies
	Enable Plugins for Mail & Newsgroups OK Cancel Help

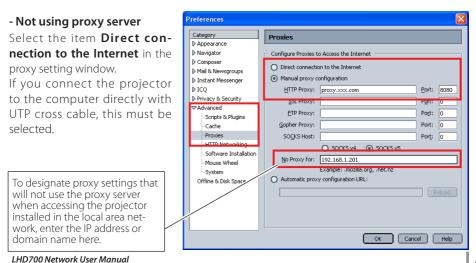
#### **Proxy setting**

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 the proxy server settings according to the local area network environment to which the projector is connected.

#### - Using proxy server

020-000446-01 Rev.1 (11-2011)

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.





## 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**.

⊖ ○ Security	$\bigcirc$
Ceneral Appearance Bookmarks Tabs RSS AutoFill Security	Advanced
Web Content: 🗹 Enable plug-ins	
🗹 Enable Java	
Enable JavaScript	
Block pop-up windows	
Accept Cookies: O Always	

#### **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 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 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 UTP cross cable, they must be unchecked.

Image: Constraint of the state of	Image: Show All     Network
Ceneral Appearance Bookmarks Tabs RSS AutoFill Security devanced Universal Access: Never use font sizes smaller than 9 *  Press Tab to highlight each item on a webpage Option-Tab highlights each item.  Style Sheet: None Selected	Location: Automatic
Proxies: Change Settings ?	Web Proxy (HTTP)     Proxy server requires password     Streaming Proxy (RTTP)     Exclude simple hostnames  Broass proxy settings for these Hosts & Domains:  192.168.1.201
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.	I See Passive FTP Mode (PASV)  Click the lock to prevent further changes.  Assist me  Apply Now



# Q&A

Α

Α

Α

#### Installation/Access

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

Following causes are possible. Please check them.

- 1. The projector does not connect to the network. Check LED indicators status (183° p.12).
  - 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 (187 p.54).
- 4. The computer does not provide TCP/IP protocol.

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

- 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?

- 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 (187 pp.13, 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" (IPP pp.12-13, 24).

#### Password/Login

- 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.

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#### Operation

Α

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

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.

# 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.

# 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 (187 p.26).



#### 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.0] and the last address [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 (ISP p.14) and in "Information" menu through the web browser (ISP p.45).

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Α

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

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.

Initial setting	Initial setting		
Initial setting	Language	English	▼ Set
Power & Status	Model name		
	SERIAL NO		
🗊 PC Adj.	Network PIN code		Set
Control	Temperature	Centigrade	- Set
Control	PJLink	OFF	
🥑 Setting			Set
E-mail setting	Ver. 0.002		
- 🚱 Network		Version of the	
Information			
SNMP setting			



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