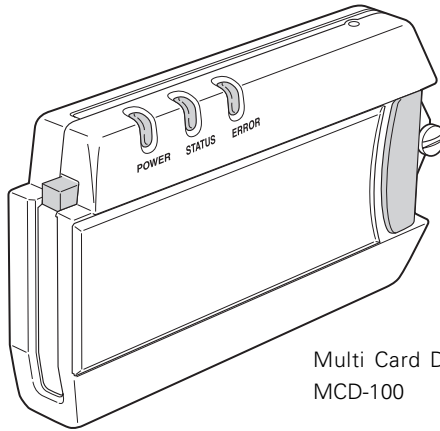


Multi Card Director

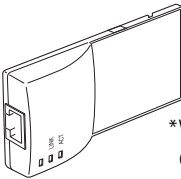
Owner's Manual

Setting and Operation

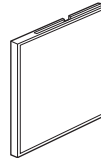
Read this manual first



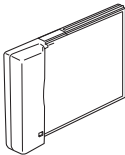
Multi Card Director
MCD-100



*Wired LAN Card
CA-20



*Compact Flash Card
CA-10



*Wireless LAN Card
CA-30

* Sold separately.

Compliance

Federal Communication Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

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.

Model Number	: MCD-100
Trade Name	: EIKI
Responsible party	: EIKI International Inc.
Address	: 30251 Esperanza, Rancho Santa Margarita, CA 92688-2132
Telephone No.	: (800)242-3454 (949-457-0200)

For Canadian Users

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

Cet appareil numérique de la class B est conforme à la norme NMB-003 du Canada.

L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

For French Users

Restricted frequency band only channels 10 through 11 (2457MHz and 2462MHz respectively) may be used in France. License required for every installation, indoor and outdoor installations.

Please contact ART for procedure to follow. Do not use this wireless LAN card in the open air.

CAUTION

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Exposure to radio frequency

This product uses a wireless LAN card (CF Card) to communicate with other devices using the 2.4 GHz ISM band. The radiated power output of this card is well below FCC radio frequency exposure limits. However, it is advised to maintain a minimum 20 cm separation between the product and user(s) or bystanders to minimize human exposure to the transmitted radio frequencies.

Index

Safety Instructions	6
Introduction	7
1. Functions of Multi Card Director	9
2. Setup Procedure	11
3. Operation of Multi Card Director	13
Operation of Multi Card Director	14
LAN Connection	15
4. Part Names and Functions, Factory Default Setting, Installation of MCI	17
Part Names and Functions	18
Factory Default Setting	19
Check Factory Default Setting	19
Reset the Setting to Factory Default Setting	19
Contents of Factory Default Setting	20
Installation of MCI	21
Mount MCI to the Projector	21
Remove MCI from the Projector	21
Insert / Remove Multi Card	22
5. Software and Installation	23
What is MCI Client	24
What is Slide Converter	24
Install the Software	25
6. Wired LAN Configuration	29
Preparation	30
Setting of the Network Environment	30
Configuration	30
Checking the Operation	32
Password Setting	33
7. Wireless LAN Configuration	35
Preparation	36
Setting of the Network Environment	36
Configuration	36
Checking the Operation	38

8. Configuration with Browser	41
Introduction	42
Environment of Web Browser	42
Configuration of Web Browser	42
Starting Up the Web Browser	43
Quick Setup	45
Advanced Setup	47
TCP / IP	47
Wireless Setting	48
E-mail Setting	49
Admin Password	50
User Password	51
Miscellaneous	52
Change Configuration Set	53
Restart	54
9. Display Image via Network	55
Transmit Image on the PC screen to the Projector	56
MCI Client Icon in the System Tray	58
About User Right to Login	59
10. PJ Controller	61
Preparation	62
Initial Setting	64
E-mail Setting	65
Power & Status	67
Control	69
Menu	78
11. Network Viewer	79
About Network Viewer	80
Operation	81
System Requirements for the FTP Server	81
Displaying Image in the FTP Server	82
Operation from PJ Controller	82
Operation from Web Browser	84
Operation from the Projector	86
12. Appendix	89
Troubleshooting	90
Terminology	93
Setting up IP Address with arp + ping Command	94
Specifications	95

Safety Instructions

All the safety and operating instructions should be read before the unit is operated

- Follow the instructions in the Owner's Manual for the projector and other peripherals when you install or operate this unit.
- Disconnect the power plug of projector and other connected devices from the AC outlet when you install or remove this unit.
Attempting to install or remove the unit while the power is connected to the AC outlet may cause electric shock and damages to the unit.
- Do not attempt to disassemble, modify, or repair the unit.
Failure to comply with this caution may cause fire or electric shock, and damages to the unit.
- Operating the unit when the unit is emitting excessive heat, fumes, or strange odor may cause fire or electric shock.
Disconnect a power supply plug from the outlet.
- Do not drop the unit or subject it to other mechanical shocks.
The internal parts may become damaged and may cause electric shock, fire or cause the unit to malfunction.
- Before operating this unit, make sure that no electromagnetic interference is produced.
Operation of any radio equipment may interfere the functionality of some medical devices (such as pacemaker).
- Do not touch the unit with wet hands.
Doing so while the power supply plug of a projector or other devices are connected to the AC outlet may cause electric shock.
- Do not operate cellular phones too close to this unit. (Within 20 cm).
Doing so may cause this unit to malfunction.

CAUTION IN USING THE PROJECTOR VIA NETWORK

- 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 network, carry out a safety check regularly and take particular care to its environment. Incorrect installation may cause fire or other accidents.

CAUTION IN USING MULTI CARD DIRECTOR

- EIKI assumes 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.

Introduction

Introduction

This Owner's Manual will show you how to set up and operate Multi Card Director. Before using, read this manual thoroughly and operate properly.

Package Contents

The package contains following items. Check each item as you unpack the package. If you have any of the following items missing, contact the sales dealer.

- Multi Card Director
- CD-ROM
- Operation Manual (2 kinds)

Caution about Radio Wave

This unit operates in 2.4 GHz band, the same frequency band used for industrial, scientific, and medical equipment (such as pacemaker), as well as amateur radio stations.

Please read "Safety Instructions" section and make sure the following cautions.

1. Be sure that there are no other devices in the area that may use the same frequency band as Multi Card Director.
2. If any other devices are causing radio interferences, change the communication frequency channel or move to other location.

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Pentium is a registered trademark of Intel Corp. in the U.S.A.

Each name of corporations or products in Owner's Manual is a trademark or a registered trademark of its respective corporation.

Notes

- The contents of this manual are subject to change without notice.
- You may not copy the printed materials accompanying with the software.
- We shall not be responsible for any damages caused by reliance on this manual.

In this owner's manual, Multi card Director can be referred to as "MCI" or "Muti Card Imager". These names can also appears on the operation screens and relevant descriptions.

1. Functions of Multi Card Director

Functions of Multi Card Director are described in this chapter.

1. Functions of Multi Card Director

Multi Card Director (hereinafter called " MCI ") is a multi-interface device which allows projectors to be used via a wide range of media. You can use it with one of the multi-cards as follows:

Wireless LAN (Wireless LAN card: CA-30*)

Via wireless LAN, computer screen image can be transmitted to the projectors which are remotely located. A single computer can transmit images up to five projectors. Besides this function, it can control and operate the projectors.

This function allows you to give presentations at anywhere you wish without an onerous cable connection.

Since the MCI can access to the wired LAN via an access point (infrastructure mode), no additional line construction will be required.

* IEEE802.11b, standard TCP/IP communication protocol supported.

Wired LAN (Wired LAN Card : CA-20*)

MCI can be directly connected to LAN line using a LAN cable. As the wireless LAN connection, it can transmit images to projectors and control or operate them via LAN connection.

* 10BASE-T, standard TCP/IP communication protocol supported.

Network Viewer

Under Wired or Wireless LAN environment, you can project the image stored in the FTP server on the network.

Viewer (Compact Flash Card : CA-10*)

Without using computers or video players, presentation data can be played only using a projector. The supplied data converting software:Slide Converter will converts PowerPoint, bitmap and JPEG data to the presentation data which can be played by the viewer function. Besides, its unique editing functions allows you to create presentation data composed with various types of images.

For details of the viewer function and slide converter, refer to the separate manual " Viewer / Slide Converter".

*** Sold Separately**

2. Setup Procedure

Read this chapter first.

This chapter describes how to setup the Multi Card Director. According to the using environment, configure your Multi Card Director.

Depending on a purpose or environment of the usage, Setup procedure of the MCI will be varied. Follow this flow diagram to properly setup your MCI.

STEP 1 Check the contents in a package



To begin with, check the contents in a package and read carefully the safety instructions.

STEP 2 Confirm part names and functions



Familiarize yourself with part names and functions of MCI.

- ☞ 4. Part Names and Functions, Factory Default Setting, Installation of MCI

Understand functions and operation of the MCI.

- ☞ 1. Functions of Multi Card Director
- ☞ 3. Operation of Multi Card Director

STEP 3 Attach the Multi Card Director to a projector



Attach the MCI to a projector and insert one of the optional multi cards to the MCI.

- ☞ 4. Part Names and Functions, Factory Default Setting, Installation of MCI

* Wired LAN connectionInsert a wired LAN card(CA-20).

* Wireless LAN ConnectionInsert a wireless LAN card (CA-30).

* Use MCI as a viewerInsert a compact flash card (CA-10).

Refer to the separate manual, " How to use Viewer/ How to use Slide Converter "

STEP 4 Install the software



Install the supplied software (MCI Client, Slide Converter) to your computer.

- ☞ 5. Software and Installation

STEP 5 Configure LAN



Configure wired or wireless LAN connection.

Wireless LAN connection ☞ 7. Wireless LAN Configuration

Wired LAN connection ☞ 6. Wired LAN Configuration

Detailed configuration is available by using browser.

- ☞ 8. Configuration with Browser

STEP 6 Setup Completed

Setup procedure is completed. Now you can operate projectors via wireless/wired LAN.

Display the images on the computer ☞ 9. Display Image via Network

Display the images in the FTP server ☞ 11. Network Viewer

Control or operate a projector ☞ 10. PJ Controller

☞ 8. Configuration with Browser

3. Operation of Multi Card Director

- Operation of Multi Card Director
- LAN Connection

Operation of Multi Card Director

Since *Screen-capture System* - the system transmitting images on the computer screen to projectors - is adopted, MCI can be used at various occasions free from software restrictions. Below is a diagram showing the system transferring an image from a computer to projectors.

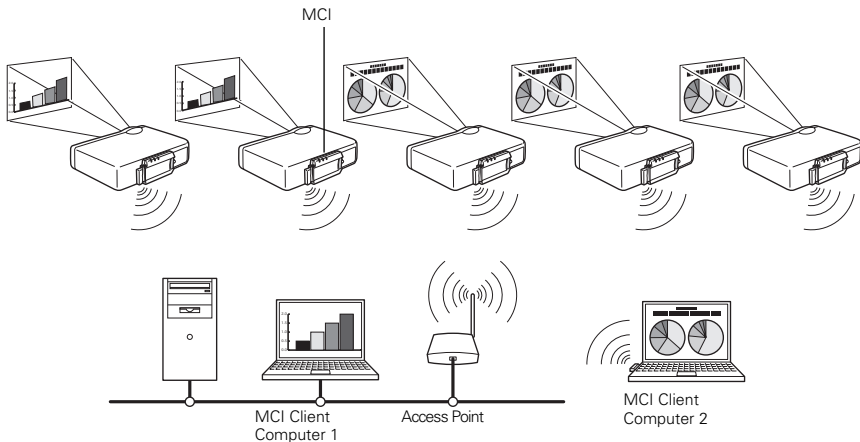
1. Use the exclusive software - MCI client - to load the computer screen in real-time.
2. The loaded image data will be compressed and transmitted to the MCI via wireless or wired LAN. A single computer can transmit the image to up to five projectors.
3. MCI converts the transmitted image data into RGB digital signal and then output it to the DVI input terminal of the projector.

* Since the image is being transmitted one by one, time-lag of the image projection will be occurred.

CAUTION : THIS SYSTEM IS NOT APPLICABLE TO AN APPLICATION SOFTWARE USING DIRECTX, MS-OFFICE ASSISTANT, AND REPLAYING OF MOTION PICTURES, SUCH AS DVD.

MCI System Block Diagram (Sample)

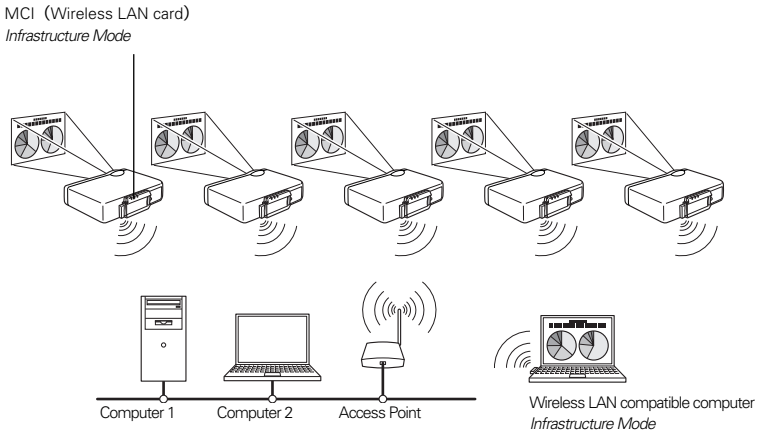
※ Below is a sample of wireless LAN block diagram. Image data can be transmitted to projectors from Computer 1 or Computer 2.



LAN Connection

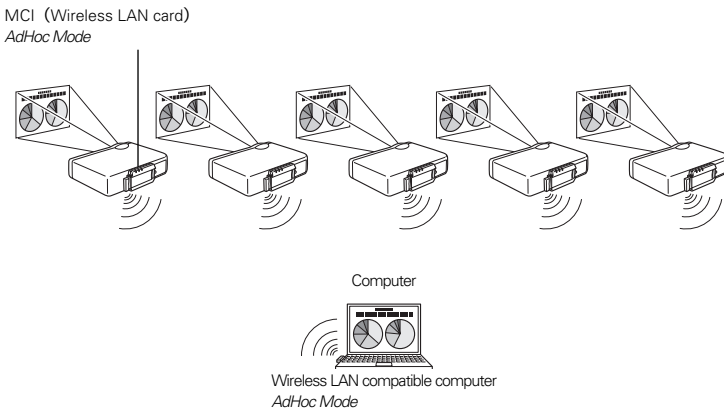
■ Wireless LAN Infrastructure Communication Mode

An access point will bridge or route your wireless LAN devices to a wired ethernet network. Wireless LAN devices can also communicate each other via the access point. Wireless LAN device will specify an access point using SSID/ESSID, a communication mode used in a network environment includes both wireless and wired LAN connection.



■ Wireless LAN ADHOC 802.11Communication Mode

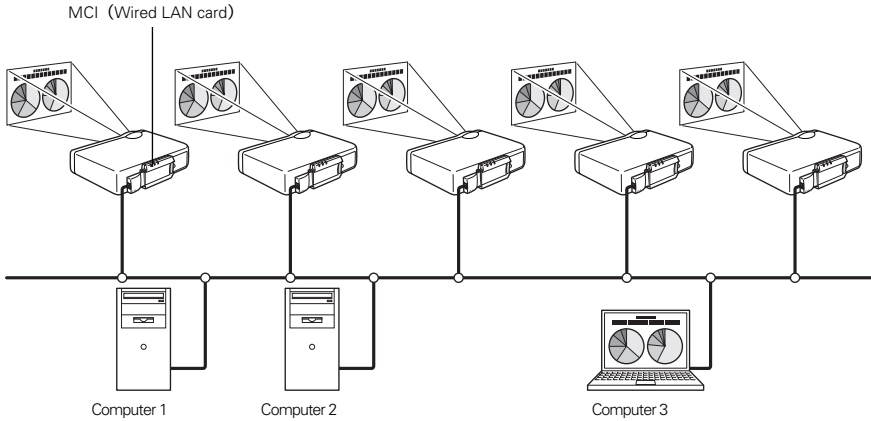
A communication mode used between wireless LAN devices. The devices are communicated by SSID/ESSID.



3. Operation of Multi Card Director

■ Wired LAN Communication Mode

The devices communicate via wired LAN line.



A remote control unit supplied with a projector can operate computer mouse

If your projector is supplied with a remote control unit with a mouse-driven function, you can operate the computer mouse with this remote control unit. Aim the remote control unit towards the projector.

The projector does not need to be connected by a USB cable. (For further detail of the remote control operation, refer to the owner's manual of the projector.)

4. Part Names and Functions

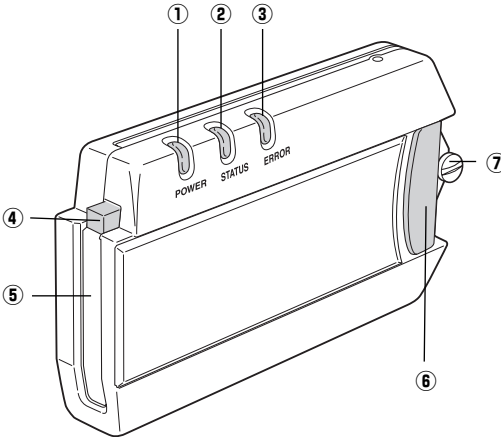
Factory Default Setting

Installation of MCI

Read this chapter carefully to handle and install the MCI properly.

Part Names and Functions

Front



① **POWER Indicator (Green)**

Normal : Lighted

Error : N/A

② **STATUS Indicator (Yellow)**

Normal : Blinks when receiving packets
(Only when own node receives the packets)

Error : N/A

③ **ERROR Indicator (Red)**

Normal : Off

Error : Lighted

④ **Eject Button**

Push this button to eject a multi card.

Multi Card: Wireless LAN Card /

Wired LAN Card/ Compact Flash card.

⑤ **Multi Card Slot**

Multi card insertion slot.

⑥ **Latch Button**

Used when mounting and removing the unit from the projector.

⑦ **Mounting Screw**

Used when mounting the unit to the projector.

⑧ **Connector Plug**

Plugs MCI into the DVI connector of the projector.

⑨ **Switch Button**

Lets the projector detect the MCI is attached.

⑩ **Mounting Hooks**

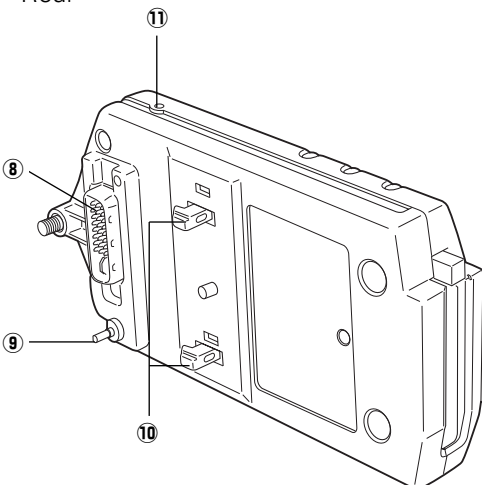
Used to attach MCI to the projector.

⑪ **Test Switch**

Used to check the current LAN setting or return MCI to the Factory default Setting.

For detail, refer to the next page.

Rear



Factory Default Setting

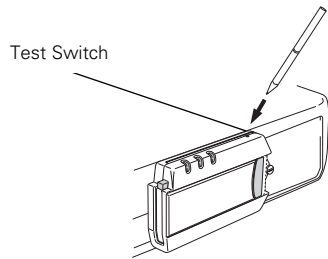
MCI has 3 settings (LAN1,2 and 3) for Wireless LAN and another 3 settings (LAN4, 5 and 6) for Wired LAN. Select the setting to suit your LAN environment.

LAN settings are provided at the factory. Select the LAN setting close to your using environment and adjust the values. LAN 3 for wireless LAN, LAN4 for wired LAN are preset at the factory. (Refer to "Contents of Factory Default Setting" on next page)

Check Factory Default Setting

To check the current LAN setting, follow the steps below :

- 1) Turn on the projector and select "Wireless" or "Wired" for its input.
- 2) Press the Test Switch with a sharpened tool.
- 3) The current LAN setting is displayed on the screen for 10 seconds.



Reset the Setting to Factory Default Setting

To reset the MCI to the factory default setting, follow the steps below :

- 1) Turn on the projector and select "Wireless" or "Wired" for its input.
 - 2) Press and hold the Test Switch for approx.10 seconds. After all the indicators on the MCI are flashing simultaneously, the setting will be then reset to the factory default setting.
- MCI cannot be reset when no LAN card or compact flash card is attached.

Example : Projection Contents of Factory Default Setting (Wireless LAN Card inserted)

- * WIRELESS SSID/ESSID is set in lower-case character, it is shown only in upper-case character.
- * It may be different from the actual screen.

```
MULTI CARD DIRECTOR INFORMATION:  
MAIN PROGRAM:   VX.XX(XXXX/XX/XX)  
BOOT PROGRAM:   VX.XX(XXXX/XX/XX)  
CARD TYPE:      FCC/IC(U.S.)  
MAC ADDRESS:    00C06FXXXXXX  
CONFIGURATION #: LAN3  
IP ADDRESS:     192.168.100.100  
SUBNET MASK:    255.255.255.0  
GATEWAY ADDRESS: 255.255.255.255  
IP CONFIGURATION: MANUAL  
ARP + PING:     ENABLE  
*WIRELESS MODE: 802.11 ADHOC  
*WIRELESS CHANNEL: 11  
*WIRELESS SSID/ESSID: WIRELESS  
*WIRELESS WEP:  DISABLE
```

* Only for wireless LAN

Contents of Factory Default Setting

Wireless LAN Card inserted (Set to "LAN3" at the factory)

項目	Factory Default Setting		
	LAN 1	LAN 2	LAN 3
Configuration Set <CONFIGURATION #>	<LAN 1>	<LAN 2>	<LAN 3>
IP Address <IP ADDRESS>	<169.254.100.100>	<192.168.100.100>	<192.168.100.100>
Subnet Mask <SUBNET MASK>	<255.255.0.0>	<255.255.255.0>	<255.255.255.0>
Gateway Address <GATEWAY ADDRESS>	<255.255.255.255>	<255.255.255.255>	<255.255.255.255>
IP Configuration Method <IP CONFIGURATION>	Manual Setting <MANUAL>	DHCP <DHCP>	Manual Setting <MANUAL>
ARP+PING <ARP + PING>	Enable <ENABLE>	Enable <ENABLE>	Enable <ENABLE>
Wireless Mode <WIRELESS MODE>	AdHoc <802.11 AdHoc>	Infrastructure <INFRASTRUCTURE>	AdHoc <802.11 AdHoc>
Channel <WIRELESS CHANNEL>	<11>	<11>	<11>
SSID/ESSID <WIRELESS SSID/ESSID>	WIRELESS <WIRELESS> (Uppercase)	ANY <ANY (Assigned SSID/ ESSID is displayed) >	WIRELESS <WIRELESS> (Uppercase)
WEP Encryption <WIRELESS WEP>	Disable <DISABLE>	Disable <DISABLE>	Disable <DISABLE>
DNS Domain	-	-	-
DNS Address	<255.255.255.255>	<255.255.255.255>	<255.255.255.255>

Wired LAN Card inserted (Set to "LAN4" at the factory)

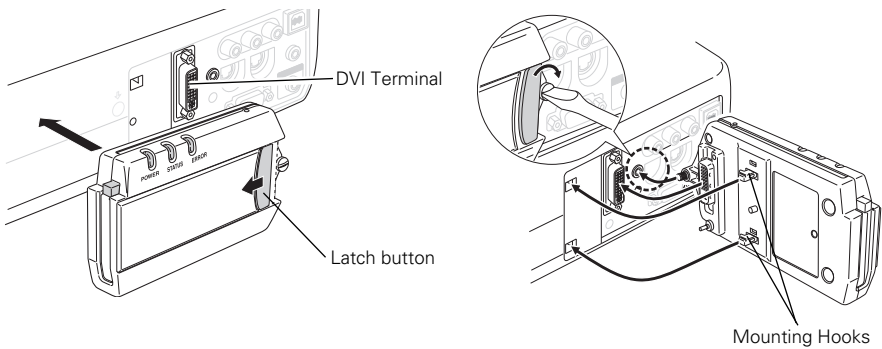
項目	Factory Default Setting		
	LAN4	LAN5	LAN6
Configuration Set <CONFIGURATION #>	<LAN4>	<LAN5>	<LAN6>
IP Address <IP ADDRESS>	<169.254.100.100>	<192.168.100.100>	<192.168.100.100>
Subnet Mask <SUBNET MASK>	<255.255.0.0>	<255.255.255.0>	<255.255.255.0>
Gateway Address <GATEWAY ADDRESS>	<255.255.255.255>	<255.255.255.255>	<255.255.255.255>
IP Configuration method <IP CONFIGURATION>	Manual Setting <MANUAL>	DHCP <DHCP>	Manual Setting <MANUAL>
ARP+PING <ARP + PING>	Enable <ENABLE>	Enable <ENABLE>	Enable <ENABLE>
DNS Domain	-	-	-
DNS Address	<255.255.255.255>	<255.255.255.255>	<255.255.255.255>

※Expressions in < > are names projected on the screen when the Test Switch is pressed.

Installation of MCI

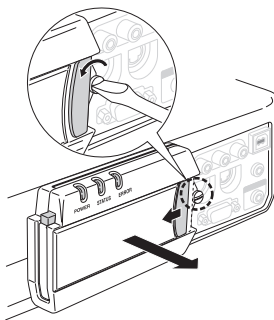
Mount MCI to the Projector

1. With pressing the Latch Button on the MCI in the direction of the arrow, insert the connector plug of the MCI into the DVI terminal of the projector. Alongside, press the Mounting Hooks into the holes on the projector.
2. Release your hand from the MCI when the connector is properly mounted to the DVI terminal.
3. Tighten the screw with a flathead screwdriver to firmly secure the MCI to the projector.



Remove MCI from the Projector

1. Release the screw with a flathead screwdriver.
2. With pressing the Latch Button, remove the MCI from the projector.



Insert / Remove Multi Card

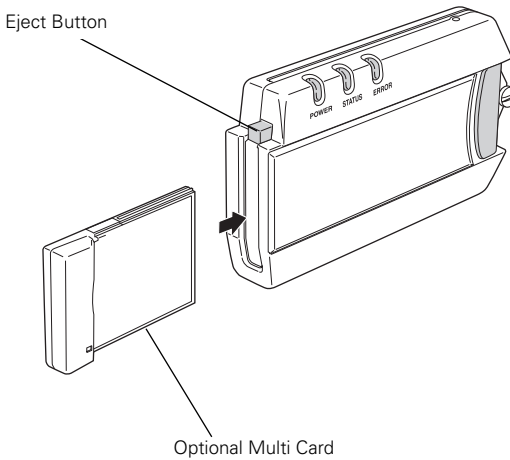
- Insert Multi Card

Insert the Multi Card into the Multi Card Slot of MCI until the Eject Button is pushed off

Caution: "Mutli Card" indicates Wireless LAN Card (CA-30), Wired LAN Card (CA-20) and Compact Flash Card (CA-10). Do not use undesignated cards which may not properly operate with the MCI and damage the MCI itself.

- Remove Multi Card

Press the Eject Button to remove the Multi Card.



5. Software and Installation

Install the software necessary to use the MCI. The following two applications are included in the supplied CD-ROM.

- MCI Client

MCI Client transmits image data from a computer to projectors via wireless or wired LAN and also control/operate a projector.

In this chapter, we will install this application.

It is also possible to run MCI directly from the CD-ROM if you do not wish to install.

- Slide Converter

Slide Converter is an application to convert PowerPoint, bitmap and JPEG data into the image data which can be displayed by a projector. (*Viewer* Function)

For details of this software, refer to the separate manual "Viewer / Slide Converter"

What is MCI Client

MCI Client transmits image data from a computer to MCI-attached projectors (up to five) via wireless or wired LAN as well as remotely controls the projectors operation.

When a computer is transmitting image data to a MCI-attached projector or controlling its operation, no other computers can communicate the projector.

- * If you set "Accept Interruptive Connection" as "Enable" on the Web browser, the other computer can break into the connection. (Refer to "Miscellaneous" of " 8. Configuration with Browser".)

MCI Client does not support software containing DirectX function, MS-Office Assistant and replaying motion picture, such as DVD.

Operating Environment

This software requires the following computer environment.

Required Operation System	Windows 98 / Me / NT4.0 / 2000 / XP
Requirements when using Windows 98 / Me / NT4.0 / 2000	Over RAM 64MB main memory. (More memory will be required depending on applications running at the same time.)
Requirements when using Windows XP Home Edition / Professional	Over RAM 128MB main memory. (More memory will be required depending on applications running at the same time.)
Recommended CPU	Higher than Pentium3 600MHz
HDD Disk Drive	With more than 100MB free area
Display Setting	Support more than one of following resolutions. VGA (640×480), SVGA(800×600), XGA (1024×768) Number of colors : Either of 16 bit (65536 colors) or 24/32 bit (16,77 million colors)

What is Slide Converter

Slide Converter is an application to convert PowerPoint, bitmap and JPEG data into the image data which can be displayed by a projector. (Viewer Function)

For details of this software, refer to the separate manual "Viewer / Slide Converter"

To install this software, follow the instruction in this chapter.

Install the Software

Now install the software (MCI Client / Slide Converter)

* When you wish to run MCI Client directly from the CD-ROM, select "Launch MCI Client" at Step 3.

1. Insert the CD-ROM into the CD-ROM Driver.

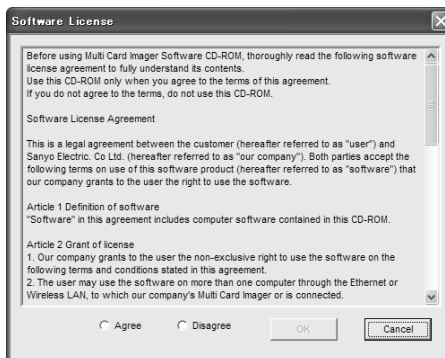
The software automatically runs and shows the "Select Language" screen. Select the language you wish to use and press OK button.



Note: If the "Language Selection" screen does not appear automatically, open [CD-ROM drive] of [My Computer] of your computer and double-click "AutoRun.exe". The "Language Selection" screen will then appear.

2. "Software License window" will be displayed.

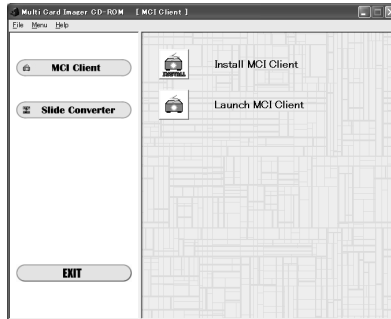
Thoroughly read the contents. If you agree to the contents of the software license agreement, check on the [Agree] radio button and click [OK].



5. Software and Installation

3. Main Menu screen will appear.

Select " MCI Client" from the menu on the left.

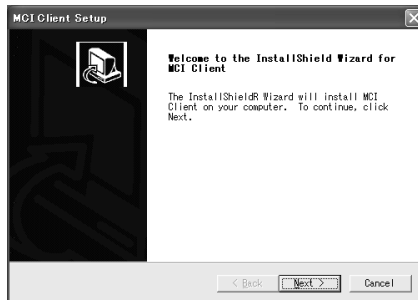


Caution: MCI Client and Slide Converter cannot be installed at the same time. Install respectively. When you install Slide Converter, click "Slide Converter " menu on the left side on the screen

4. Click " Install MCI Client ".

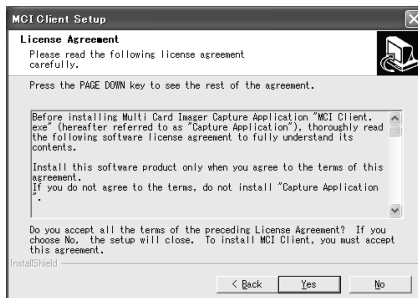
Install Wizard for MCI client will start up. Then click " Next "

※ If you wish to start up MCI client directly from the CD-ROM, select " launch MCI Client".



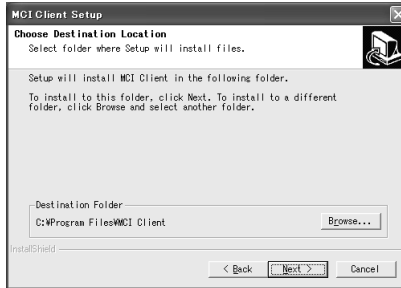
5. " License Agreement" screen will appear.

Thoroughly read the contents. If you agree to the contents of the software license agreement, check on the [Agree] radio button and click [OK].



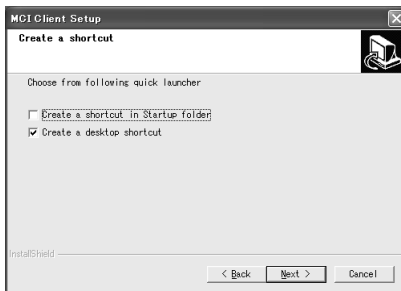
6. Select installing destination

"Choose Destination Location" screen will appear. Select the location and click OK button.



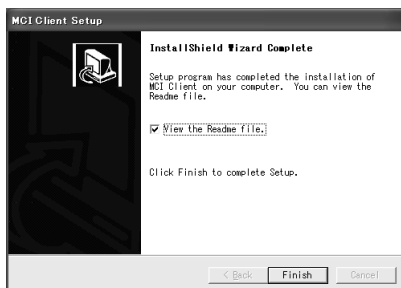
7. Create a shortcut

If you do not need a shortcut, clear the check box and click Next button. Then the software starts copying the files from the CD-ROM.



8. Finish the Install Wizard.

When completing the copy of the files, "InstallShield Wizard Complete" screen will appear. Click "finish" to complete the setup. Read the "Readme file" when needed.

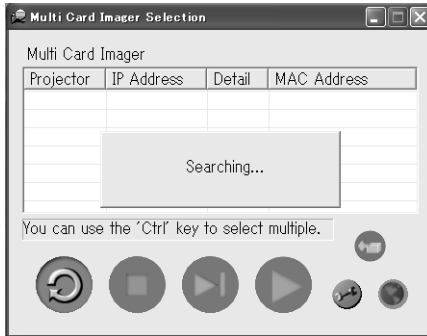


5. Software and Installation

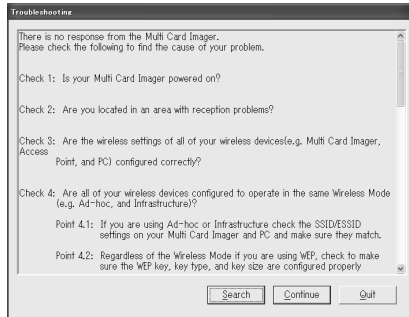
9. Confirm if the installation is successfully completed.

Select [Start]→ [Program]→ [Multi Card Imager]→ [MCI Client] or double-click the "MCI Client icon" on the desktop to start up MCI Client. If the screen below is displayed, the installation is successfully completed. Click button on the top right hand corner.

※ MCI client does not operate at this point. Error message as below will be displayed.



Error message



6. Wired LAN Configuration

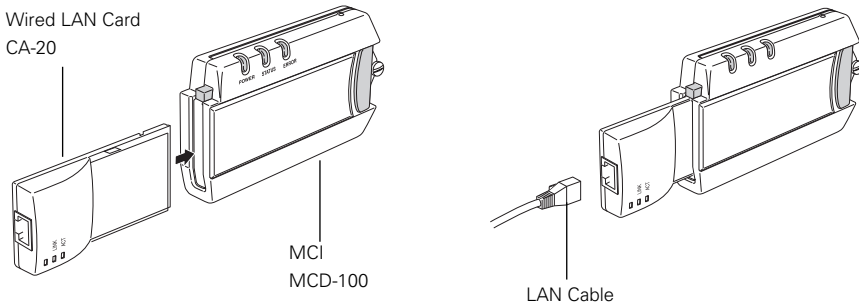
This chapter describes how to configure a wired LAN environment to connect a computer and projectors (MCI attached). The following wired LAN card will be needed for this connection.

Wired LAN Card : CA-20

Preparation

MCI has to be installed on the same LAN environment with the MCI Client Computer for its operation.

1. Insert the wired LAN card : CA-20 into the MCI.
2. Insert the LAN cable into the wired LAN card.
※ Confirm the functions of indicators on the MCI and the wireless LAN card.



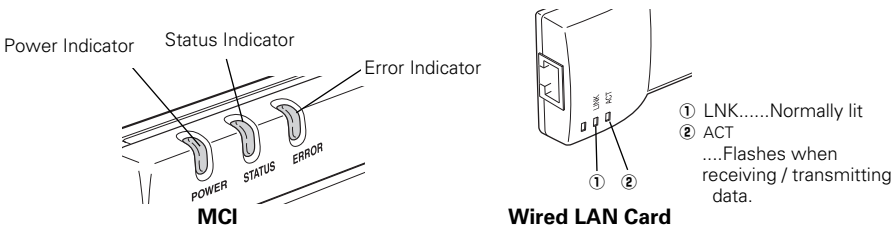
Setting of the Network Environment

Wireless LAN environment will be set on the Projector Menu.
Detailed setting is available with the browser menu. Refer to "8. Configuration with Browser".

Configuration

1. Select "Wired" from the input menu of the projector.
If "Wired" is not shown on the menu, the wired LAN card may not be properly mounted to the projector. Check the attachment once again

Caution: Confirm if the Power Indicator on the MCI is lit and the Error Indicator is off.
If the Power Indicator is off and the Error indicator is flashing, check the attachment of the MCI and restart the projector.



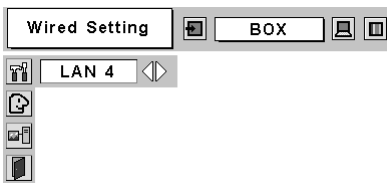
2. Select "Wired Setting" from the MCI menu.

Select "Wired Setting" from the MCI menu.



3. Select the LAN configuration you wish to use

Using Point left /right buttons on the top panel / remote control of your projector, select a network configuration (LAN 4, LAN5, or LAN6) you wish to use. Pressing the Point button toggles "LAN4", "LAN5", "LAN6" and "Off" in order. The message "Wait a moment" appears when switching LAN configurations. At the factory, LAN 4 is selected.



Selecting LAN configurations

MCI has three preset network configurations (LAN1, LAN2 and LAN3) . At the factory, LAN3 is selected. For details of factory default setting, refer to " 4. Factory Default Setting.

Select the closest configuration you wish to use.

When you set the IP address manually, select LAN4 or LAN6. When the DHCP server on the network assigns the IP address, select LAN5.

4. Display the Network Configuration Screen.

Press Select button to display the network configuration screen. Contents of the selected LAN configuration will be displayed. Enter the value in each parameter. For details of each parameter, contact your system administrator.

5. Press SELECT button to complete the configuration.

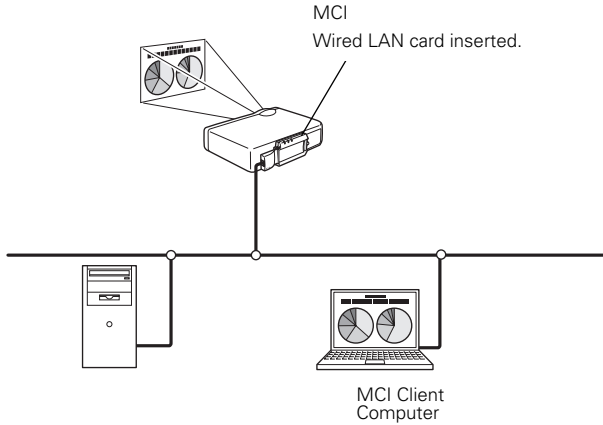
Confirm if the configuration is properly completed. (See next page)

LAN 4	Wired Setting			
IP Address	169	254	100	100
Sub net	255	255	0	0
Gateway	255	255	255	255
DNS	255	255	255	255
<div style="display: flex; justify-content: center; gap: 20px;"> SET CANCEL </div>				

* IP address can be set using "arp + ping" command. (See P94)

* The above diagram is the preset value of LAN 4

Checking the Operation

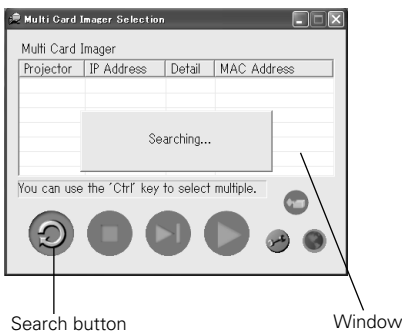


1. Start up the MCI Client on your computer.

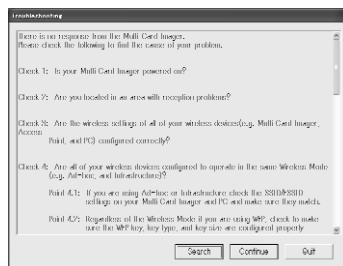
MCI Client starts to search MCIs. If configured projectors are shown on the window of the MCI client, your computer is properly connected to the projectors via wired LAN. If "Troubleshooting" dialog appears, your computer is not connected to projectors. Check the message on the "Troubleshooting" screen and search again.

Caution: MCI located in the different segment cannot be connected. Specify the IP address. For details, refer to "Checking the operation" in 7. Wireless LAN Configuration on P38.

Main Screen



Error Screen



Password Setting

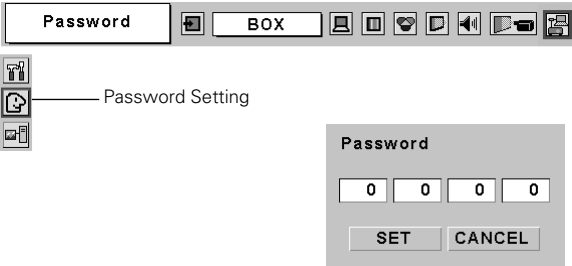
Set the password to restrict access to the MCI through the network.
Once the password is set, you will be required to enter the password when accessing the MCI.

1. Select "Password" from the MCI menu.

"Password" setting screen will be displayed.

2. Enter password

Enter the password using Point up/down buttons (4 digit-number) and then press SELECT button. Enter "0000" if you do not need a password.



Setting password is recommended when you connect the MCI to network.
The password can be also checked and changed by browser.

7. Wireless LAN Configuration

This chapter describes how to configure a wireless LAN environment to connect a computer and projectors (MCI attached). The following wireless LAN card will be needed for this connection.

Wireless LAN Card : CA-30

When you connect your computer and the projector(MCI attached) via wireless LAN, your computer has to be equipped with a wireless LAN card adapter which supports IEEE 802.11b.

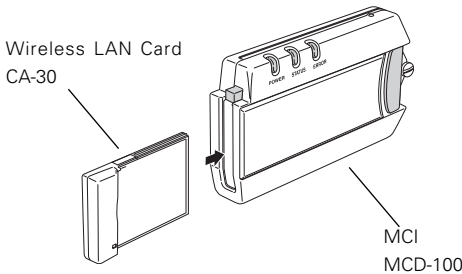
If you connect in Infrastructure mode, an access point which supports IEEE 802.11b will be required.

Preparation

MCI has to be installed on the same LAN environment with the MCI Client Computer for its operation.

Insert the wireless LAN card : CA-30 into the MCI.

※ Confirm the functions of indicators on the MCI and the wireless LAN card.



Setting the Network Environment

In the first place, check your wireless LAN environment. For details of wireless LAN connection , refer to 3. Operation of Multi Card Director.

Wireless LAN environment will be set on the Projector Menu.

Detailed setting is available with the browser menu. Refer to 8. Configuration with Browser.

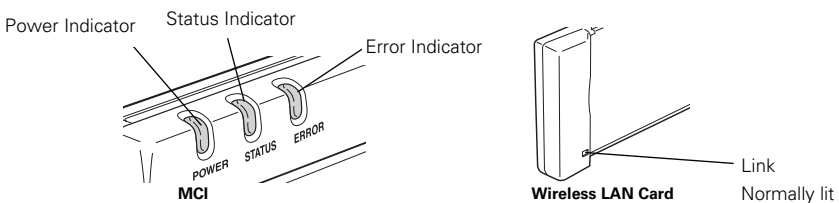
Configuration

1. Select "Wireless" from the input menu of the projector.

If "Wireless" is not shown on the menu, the wireless LAN card may not be properly mounted to the projector. Check the attachment once again.

Caution: Confirm if the Power Indicator on the MCI is lit and the Error Indicator is off.

If the Power Indicator is off and the Error indicator is flashing, check the attachment of the MCI and restart the projector.



2. Select "Wireless Setting" from the MCI menu.

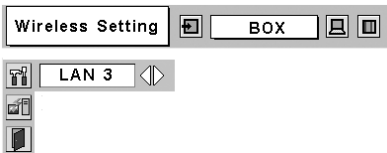
Select " Wireless Setting " from the MCI menu.



3. Select the LAN configuration you wish to use.

Using Point left/right buttons on the top panel / remote control of your projector, select a network configuration (LAN 1,LAN2, or LAN3) you wish to use. Pressing the Point button toggles"LAN1", "LAN2", "LAN3" and "Off" in order.The message " Wait a moment" appears when switching LAN configurations. At the factory, LAN 3 (AdHoc) is selected.

Following instruction is based on LAN3 configuration.



Selecting LAN configurations

MCI has three preset network configurations (LAN1, LAN2 and LAN3) . At the factory, LAN3 is selected. For details of factory default setting, refer to " 4. Factory Default Setting.

4. Display the network configuration screen.

Press Select button to display the network configuration screen. Contents of the selected LAN configuration will be displayed. Enter the value in each parameter.

☞If you use the factory default setting(LAN3)☞

- a) IP Address.....enter the IP address.
- b) Sub net.....not required to enter. (Use factory default setting)
- c) Gateway.....Not required to enter. (Use factory default setting)
- d) Connection Status.....AdHoc
- e) SSID/ESSID/IBSSD.....Enter characters ("WIRELESS" is entered at the factory)

※ a: Do not use the same IP address of other wireless LAN (AdHoc) computer

※ e: Specify the same words of your wired LAN enabled computer. At the factory, WIRELESS" is entered for SSID/ESSID/IBSSD. Make sure if the wireless channel of your computer is 11.

※b,c: No need to set in AdHoc Mode.

LAN 3	Wireless Setting
IP Address	192 . 168 . 100 . 100
Sub net	255 . 255 . 255 . 0
Gateway	255 . 255 . 255 . 255
Connection Status	Ad.Hoc
SSID/ESSID/IBSSD	W I R E L E S S
	<input type="button" value="SET"/> <input type="button" value="CANCEL"/>

* The above diagram is the preset value of LAN 3

☞ How to enter numeric value and characters on the configuration screen ☞

Pressing Point left/right buttons move field and Point up/down buttons changes values and selects characters at SSID/ESSID/BSSD field. Characters can be selected among A-Z, a-z and blank(space). Press Point right button to enter the next character.

Parameters and Descriptions

Parameter	Description
IP Address.....	Set the IP address in the environment you wish to use.
Sub Net	Set the Subnet mask in the environment you wish to use.
Gateway.....	Set the gateway address in the environment you wish to use. * If any segment beyond the router is not used, the gateway address can be left at "255.255.255.255".
Connection Status	Set this status in accordance with the communication mode (Infrastructure or AdHoc) you wish to use.
SSID/ESSID/IBSSID	In both Infrastructure and AdHoc mode, same charactered have to be set to the MCI, access point and the wireless-enabled computer. (up to 32 characters) Be cautious when entering the characters, since SSID/ESSID is case-sensitive. To set "ANY" for the MCI is not recommended.

※ IP address can be set using "arp + ping" command. (See P94)

5. Press SELECT button to complete the configuration.

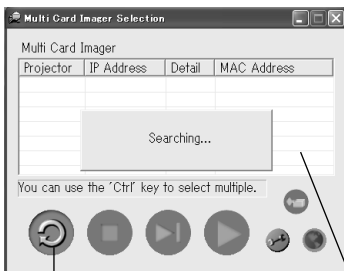
Checking the Operation

Check the configuration is successfully completed and the operation of the wireless LAN connection.

1. Start up the MCI Client on your computer.

MCI Client starts to search MCIs. If configured projectors are shown on the window of the MCI client, your computer is properly connected to the projectors via wireless LAN. If " Troubleshooting" dialog appears, your computer is not connected to projectors. Check the message on the "Troubleshooting" screen and search again.

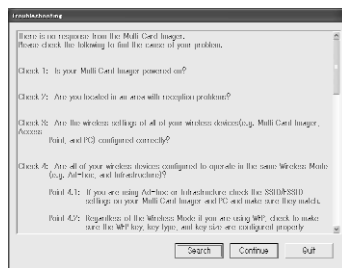
Main Screen



Search button

Window

Error Screen



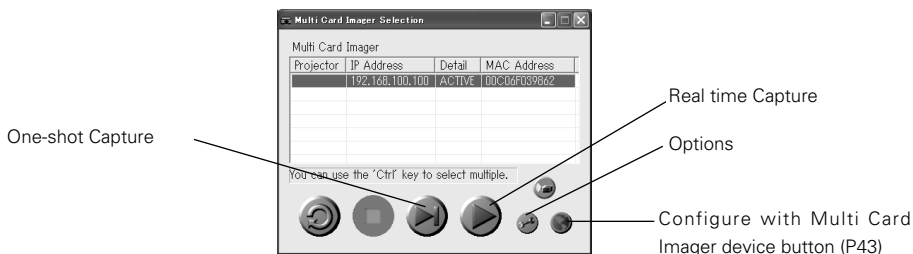
Search Continue Quit

2. Select a projector

Point the projector you wish to connect with the mouse cursor. The pointed projector will be highlighted.

3. Click "Capture" button

Click One-shot Capture button or Real time Capture button. Confirm if the image of your computer screen is properly projected from the projector.



Caution: MCI Client computer cannot communicate with the projector installed in the segment which is beyond the router. In this case, specify the IP address as following procedure.

1. Click Options button

Click Options button on the main screen. Options screen will be displayed.
Click Add button to show the IP Address screen.

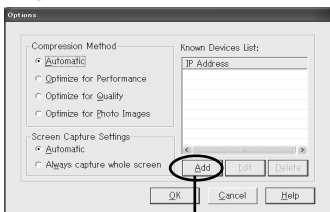
2. Enter IP address

Enter the same IP address as the one set to the projector. (e.g.192.168.100.100)
Click OK button.

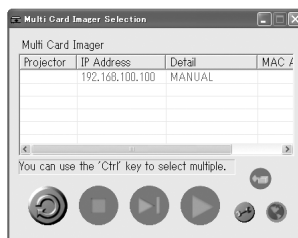
3. The entered IP address is shown in the window

Press OK button to close the Options Screen.
The entered IP address and "MANUAL" is added to the window.

Options Screen



Add



Note: Detailed information of the network can be configured by browser. Refer to "8. Configuration with Browser" on P41

8. Configuration with Browser

MCI can be set, controlled and operated by the web browser.

Caution : When you use the web browser, the MCI needs to be connected to the projector via wireless or wired LAN. Complete the setup of the LAN connection.

The web browser can set or operate followings:

- LAN setting
Configure Wired/Wireless LAN environment.
- Email Setting
Configure E-mail function to maintain the projector.
- Operation of Network Viewer
- Password Setting
Configure security password to control the projector.
- Others

Introduction

To operate by web browser, you need to configure its environment.

Check the environment of the web browser and configure to make it possible to operate the MCI.

Environment of Web Browser

Web browser is required to support the following version.

Microsoft : Internet Explorer Ver.4.0 or later

Netscape Communications : Netscape Navigator Ver4.6 or later

Configuration of Web Browser

Configure the operation environment of the web browser. Configuration has to be accurate for proper operation.

Using Proxy Server

Internet Explorer

Start up Internet Explorer. Select [Tools] > [Internet Options]. Select the [Connection] tab and click the [LAN Setup] button in the [Local Area Network (LAN) Setup] field. Click the [Details] button in the [Proxy Server] field. Input the IP address set on the MCI in the [Proxy server is not used at address starting from the following IP address] field.

Netscape Navigator

Start up Netscape Navigator. Select [Edit] > [Setup] > [Category]. Select [Details] and [Proxy], and check on [Set proxy manually.]. Click the [Display] button and input the IP address set on the MCI in the [Proxy server is not used at address starting from the following IP address] field.

Not using Proxy Server

Internet Explorer

Start up Internet Explorer. Select [Tools] > [Internet Options]. Select the [Connection] tab and click the [LAN Setup] button in the [Local Area Network (LAN) Setup] field. Check off [Proxy server is used at local address] of the [Proxy Server] field.

Netscape Navigator

Start up Netscape Navigator. Select [Edit] > [Setup] > [Category]. Select [Details] and [Proxy], and check on [Connect Internet directly.].

Starting up the Web Browser

Start up the MCI Client. Select the projector to be configured and click "Configure Multi Card Imager device" button. (See page 39) "Multi Card Imager Configuration" screen will appear.

Items to be configured are shown in MENU on the light side of the screen.

Note: MCI Configuration screen can be also displayed by entering the IP address directly on the browser's URL. (e.g. http://00.00.00.00)

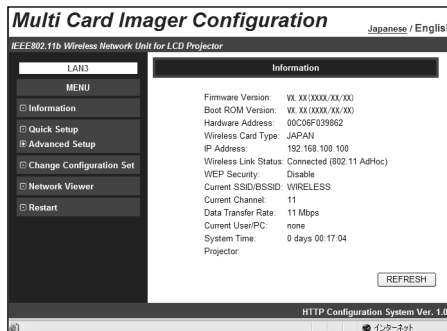


Configure Multi Card Imager device

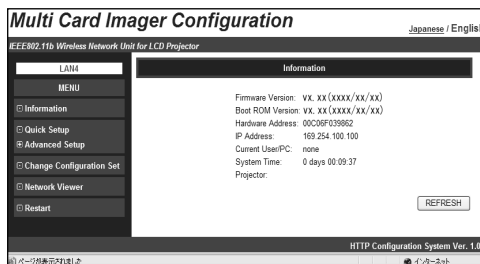
Information

On the initial screen, the setup contents and current status of the MCI are displayed. The contents is varied by Wired or wireless LAN environment.

Screen of Wireless LAN



Screen of Wired LAN



8. Configuration with Browser

Parameters and descriptions of Information

Parameter	Description
Firmware Version	Shows the firmware version of this system.
Boot ROM Version	Shows the boot ROM version of this system.
Wireless Card Type*	Shows the countries in which the device can be used. This unit is set to "US" and cannot be changed.
IP Address	Shows the IP address currently set on this system. If DHCP is set, the IP address assigned from the DHCP server is displayed.
Wireless Link Status*	Shows the wireless communication mode and its status of this system.
WEP Security*	Shows the WEP (Encryption) setting status. However, the WEP key is not shown.
Current SSID/ESSID*	Shows SSID set on this system.
Current Channel*	Shows the channel, through which this system is currently communicating.
Data Transfer Rate*	Shows the current wireless communication speed of this system. The communication speed is automatically changed by the environment at that time (11 Mbps, 5.5 Mbps, 2 Mbps, or 1 Mbps). The communication speed cannot be set at a fixed rate.
Current User/PC	Shows the IP address of the personal computer, which is currently transferring images to this system using MCI Client.
System Time	Shows the elapsed time since the power is turned on. The time can be reset by selecting "Reset" from the browser configuration screen, or by disconnecting power from the projector and connecting back on.
Projector	Shows the name of MCI attached projector. (Can be changed)
Refresh button	Refreshes the displayed data.

* Not shown when wired LAN card is attached.

Quick Setup

Quick Setup includes minimum setup items required for operating the MCI.

The contents of this page is a part of the advanced setup page. Therefore, the contents set on this page may affect relevant items on the advanced setup. If you set the items on the advanced setup page, the settings on this page are not necessary.

Depending on the inserted LAN card, wireless or wired, setting items will be varied.

To reflect the setting on the MCI, click APPLY button. For details of each item/button, refer to the next page.

Wireless LAN card inserted

Multi Card Imager Configuration Japanese / English

IEEE802.11b Wireless Network Unit for LCD Projector

LAN3

MENU

- Information
- Quick Setup
- Advanced Setup
- Change Configuration Set
- Network Viewer
- Restart

Quick Setup

Projector:

IP Configuration Method: Manual

IP Address:

Subnet Mask:

Gateway Address:

Wireless Mode: Ad-hoc

Channel:

SSID/ESSID:

APPLY REFRESH

RESTORE Factory Default Settings

HTTP Configuration System Ver. 1.00

Wired LAN card inserted

Multi Card Imager Configuration Japanese / English

IEEE802.11b Wireless Network Unit for LCD Projector

LAN4

MENU

- Information
- Quick Setup
- Advanced Setup
- Change Configuration Set
- Network Viewer
- Restart

Quick Setup

Projector:

IP Configuration Method: Manual

IP Address:

Subnet Mask:

Gateway Address:

APPLY REFRESH

RESTORE Factory Default Settings

HTTP Configuration System Ver. 1.00

8. Configuration with Browser

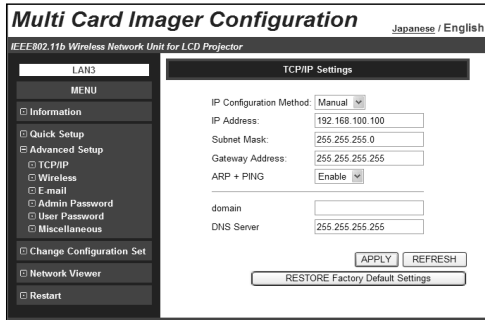
Parameter	Description
Projector	Name the projector(MCI) to distinguish it from others. (up to 32 characters). The name set here will be displayed on the main screen of MCI client.
IP Configured Method	A desired IP address setup method is selected from [Manual], [DHCP], and [BOOTP]. If [DHCP] or [BOOTP] is selected, the IP address is obtained automatically as [DHCP client] or [BOOTP client]. At this time, it is necessary that the DHCP server/BOOTP server must be in the environment allowing the network communication. When the IP Address Configuration Method is set to DHCP or BOOTP, and you press the test switch to display the settings while the MCI is attempting to obtain an IP address, IP Address, Subnet Mask, and Gateway Address fields will display [-.-.-]. If the MCI fails to obtain IP address from the DHCP server, these fields also show [-.-.-] and the MCI is not communicated. If the MCI fails to obtain IP address from BOOTP server, the existing IP address will be assigned.
IP Address	Set the IP address in the environment you wish to use. If [IP Configuration Method] is set to [DHCP] or [BOOTP], this setting is not needed.
Subnet Mask	Set the Subnet mask in the environment you wish to use. If [IP Configuration Method] is set to [DHCP] or [BOOTP], this setting may become unnecessary depending on the settings of [DHCP Server] and [BOOTP Server].
Gateway Address	Set the gateway address in the environment you wish to use. If [IP Configuration Method] is set to [DHCP] or [BOOTP], this setting may become unnecessary depending on the settings of [DHCP Server] and [BOOTP Server]. If any segment beyond the router is not used, the gateway address can be remained "255.255.255.255".
Wireless Mode*	Set the wireless communication mode in the environment you wish to use. Select either "Infrastructure" or "AdHoc".
Channel*	If you use the MCI in 802.11AdHoc mode, select the channel, from 1 to 11.
SSID/ESSID*	Set the SSID/ESSID. (up to ASCII 32 characters) SSID/ESSID is case-sensitive. Even though all characters projected by pressing the TEST switch on Multi Card Director are uppercase, it is necessary to distinguish between upper and lower case characters.
APPLY button	If the contents you have set on this page are correct, click the [APPLY] button. The screen to restart the MCI will be displayed. To enable your new settings, click RESTART button.
REFRESH button	Cancel the new settings.
RESTORE Factory Default Settings button	Restore the settings to the values at the factory.

* Not displayed when wired LAN card is inserted to the MCI.

Advanced Setup

TCP / IP

TCP/IP related items can be configured on this page.

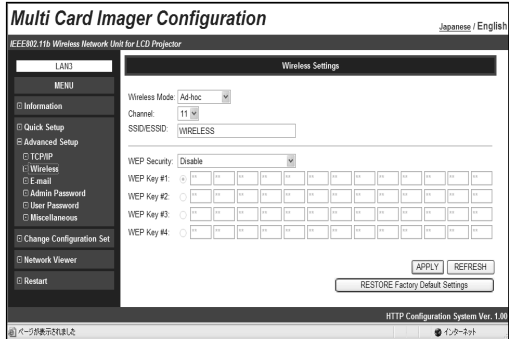


Parameter	Description
IP Configuration Method	A desired IP address setup method is selected from [Manual], [DHCP], and [BOOTP]. If [DHCP] or [BOOTP] is selected, the IP address is obtained automatically as [DHCP client] or [BOOTP client]. At this time, it is necessary that the DHCP server/BOOTP server must be in the environment allowing the network communication. When the IP Address Configuration Method is set to DHCP or BOOTP, and you press the test switch to display the settings while the MCI is attempting to obtain an IP address, IP Address, Subnet Mask, and Gateway Address fields will display [-.-.-]. If the MCI fails to obtain IP address from the DHCP server, these fields also show [-.-.-] and the MCI is not communicated. If the MCI fails to obtain IP address from BOOTP server, the existing IP address will be assigned.
IP Address	Set the IP address in the environment you wish to use. If [IP configuration Method] is set to [DHCP] or [BOOTP], this setting is not needed.
Subnet Mask	Set the Subnet mask in the environment you wish to use. If [IP Configuration Method] is set to [DHCP] or [BOOTP], this setting may become unnecessary depending on the settings of [DHCP Server] and [BOOTP Server].
Gateway Address	Set the gateway address in the environment you wish to use. If [IP Configuration Method] is set at [DHCP] or [BOOTP], this setting may become unnecessary depending on the settings of [DHCP Server] and [BOOTP Server]. If any segment beyond the router is not used, the gateway address can be remained "255.255.255.255".
ARP+PING	Select "Enable" or "Disable" the IP address setup using "arp" and "ping" (Refer to P94 for details)
domain	Enter the domain name where the MCI belongs. (up to ASCII 254 characters)
DNS Server.....	Enter the address of the DNS server.
APPLY button	If the contents you have set are correct, click the APPLY button. The screen to restart the MCI will be displayed. To enable your new settings, click RESTART button.
REFRESH button	Cancel the new settings.
RESTORE Factory Default Settings button	Restore the settings to the values at the factory.

Wireless Setting

Wireless related items can be configured on this page.

This page is not shown when the wired LAN card is inserted in the MCI.



Parameter	Description
Wireless Mode	Set the wireless communication mode in the environment you wish to use. Select either "Infrastructure" or "AdHoc".
Channel	If you use the MCI in 802.11AdHoc mode, select the channel, from 1 to 11.
SSID/ESSID*	Set the SSID/ESSID. (up to ASCII 32 characters) SSID/ESSID is case-sensitive. Even though all characters projected by pressing the TEST switch on the MCI are uppercase, it is necessary to distinguish between upper and lower case characters.
WEP Security	Select "Enable" or "Disable" the WEP(encryption). When using WEP, select any of [Enable (40bit/Shared Key)], [Enable (40bit/Open System)], [Enable (128bit/Shared Key)], and [Enable (128bit/Open System)] corresponding to this WEP. When enabling WEP (Encryption), the image transfer speed may become slower.
WEP Key#1- Key#4	Set WEP key in the hexadecimal notation (0 to F). 5 bytes are set for 40-bit WEP and 13 bytes are set for 128-bit WEP.Four WEP keys can be set, however, the only one with check on its radio button is in effect. Both of the number and value of the WEP key in effect must be same as those of your PC and the access point. Depending on computers and access points, you may be allowed to select only one WEP key. In this case, use WEP key 1.
APPLY button	If the contents you have set on this page are correct, click the APPLY button. The screen to restart the MCI will be displayed. To enable your new settings, click RESTART button.
REFRESH button	Cancel the new settings.
RESTORE Factory Default Settings button	Restore the Wireless Settings to the values at the factory.

E-mail Setting

MCI has a function to send an email to inform its operating condition to the administrator or users. To use this function, the MCI needs to be provided with the IP address which can communicate to the SMTP server. This function is available only for wired LAN and wireless LAN in infrastructure mode.

The screenshot shows the 'Multi Card Imager Configuration' web interface. The title bar includes 'IEEE802.11b Wireless Network Unit for LCD Projector' and language options 'Japanese / English'. The left sidebar contains a 'MENU' section with options: Information, Quick Setup, Advanced Setup (selected), TCP/IP, Wireless, E-mail, Admin Password, User Password, Miscellaneous, Change Configuration Set, Network Viewer, and Restart. The main content area is titled 'E-mail Settings' and contains the following fields and options:

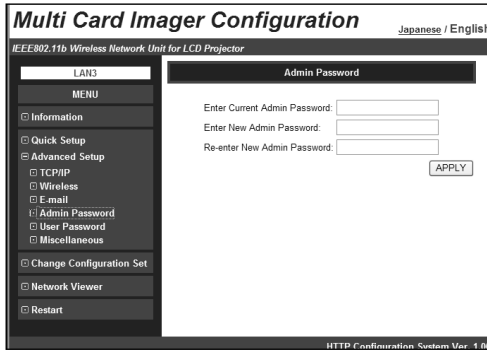
- SMTP server: [text input]
- Administrator Address: [text input]
- Mail Address: [text input]
- Option:
 - When the projector lamp is off.
 - When the life spans of Lamp is reached.
 - When internal projector power circuit is failed.
 - When internal projector temperature is too high.
 - When the projector is turned off with power ON/OFF button.
 - When Power management function turns the projector lamp off.
 - When the signal is interrupted.
 - When accumulated Lamp-use time reaches in ""hours.
- Attached Message: [text area]
- When a connection error occurs during an auto play.

Buttons at the bottom right include 'APPLY', 'REFRESH', and 'RESTORE Factory Default Settings'. The footer indicates 'HTTP Configuration System Ver. 1.00'.

Parameter	Description
SMTP Server	Enter the address of SMTP server, (up to ASCII254 characters)
Administrator Address	Enter the E-mail address of administrator.
Mail Address	Enter E-mail addresses of users.
Option.....	When the checked item has occurred, the MCI send alert messages.
Attached Message	Attach the message to the email. (up to 110 characters)
APPLY button.....	If the contents you have set on this page are correct, click the [APPLY] button. The screen to restart the MCI will be displayed. To enable your new settings, click RESTART button.
REFRESH button	Cancel the new settings.
RESTORE Factory Default Settings button	Restore the E-mail Settings to the values at the factory.

Admin Password

If the Admin Password is set, no one but the system administrator can change the setting contents of the MCI. At the factory, the Admin Password is not set.



Parameter	Description
Enter Current Admin Password	Input the currently set admin password. The password you have input is shown like "●●●●●●●●". (up to ASCII16 Characters)
Enter New Admin Password	Input a new admin password you wish to set. The password you have input is shown like "●●●●●●●●". (up to ASCII16 Characters)
Re-enter New Admin Password.....	Re-enter the new admin password you wish to set. The password you have input is shown like "●●●●●●●●". (up to ASCII16 Characters)
APPLY button.....	If the contents you have set on this page are correct, click the APPLY button. The screen to restart the MCI will be displayed. To enable your new settings, click RESTART button.

If you set the admin password for the first time, do not input any password in the [Enter Current Admin Password] field. Enter a password in [Enter New Admin Password] and [Re-enter New Admin Password] fields.

When you change the settings next time, the password will be required to enter. Leave the "User name" field blank and enter the password you set.



User Password

The User Password can be set to restrict the access to the MCI.

The password different from the Admin Password can be set for the User Password.

When you reset the User password, you do not need to enter the current password.

At the factory, the User Password is not set.

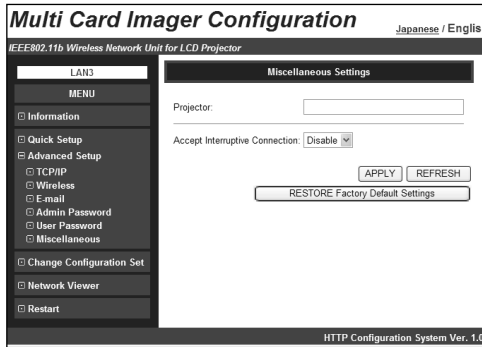
If you do not need a password, enter "0000".

The screenshot shows the 'Multi Card Imager Configuration' web interface. The title bar includes 'Japanese / English' and 'IEEE802.11b Wireless Network Unit for LCD Projector'. A left-hand menu lists various configuration options, with 'User Password' selected. The main content area is titled 'User Password' and contains two input fields: 'Enter New User Password:' and 'Re-enter New User Password:'. An 'APPLY' button is located below the second input field. The footer of the interface reads 'HTTP Configuration System Ver. 1.00'.

Parameter	Description
Enter New User Password.....	Input a new password you wish to set. The password you have input is shown like "●●●●". (4 figures)
Re-enter New User Password	Re-enter the new password you wish to set. The password you have input is shown like "●●●●". (4 figures)
APPLY button.....	If the contents you have set on this page are correct, click the APPLY button. The screen to restart the MCI will be displayed. To enable your new settings, click RESTART button.

Miscellaneous

You can name the projector and set Interruptive Connection on this screen.

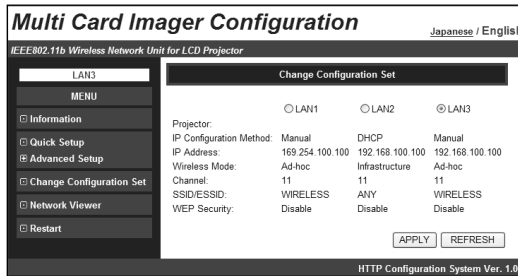


Parameter	Description
Projector	Name the projector(MCI) to distinguish it from others. (up to 32 characters). The name set here will be displayed on the main screen of MCI client.
Accept Interruptive Connection	Enable or Disable the interruptive connection to the projector which is connected to other computer when you send images using MCI Client. (See "9. Display Image via Network" for further detail.)
APPLY button	If the contents you have set are correct, click the APPLY button. The screen to restart the MCI will be displayed. To enable your new settings, click RESTART button.
REFRESH button	Cancel the new settings.
RESTORE Factory Default Settings button	Restore the miscellaneous settings to the values at the factory.

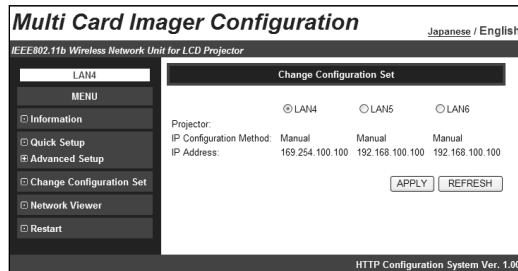
Changing Configuration Set

Select a set of LAN settings to be enabled from LAN1, LAN2 and LAN3. Besides it, setting values of LAN1, LAN2 and LAN3 (Projector name, IP Configuration Method, IP Address, Wireless Mode, Channel, SSID/ESSID, WEP Security) can be checked on this screen. Depending on the inserted LAN card, wireless or wired, setting items will be varied.

Wireless LAN card inserted



Wired LAN Card inserted



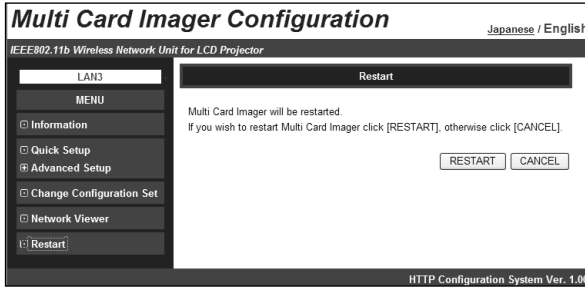
Parameter	Description
LAN1 LAN2 LAN3*	Select a LAN setting from LAN1, LAN2 and LAN3
APPLY button	If the contents you have set are correct, click the APPLY button. The screen to restart the MCI will be displayed. To enable your new settings, click RESTART button.
REFRESH button	Cancel the new settings.

* When wired LAN card is inserted, LAN4, LAN 5 and LAN6 will be displayed.

Restart

You can reboot the MCI on this screen.

To activate the new settings, the MCI has to be restarted. Click RESTART button to reboot the unit.



Parameter	Description
RESTART button	Click this button when you restart the MCI after completing the settings.
CANCEL button	Cancel to restart the MCI.

9. Display Image via Network

Using MCI Client, you can display the image on your computer screen from the projector via network.

Displaying Image on the PC screen to the Projector

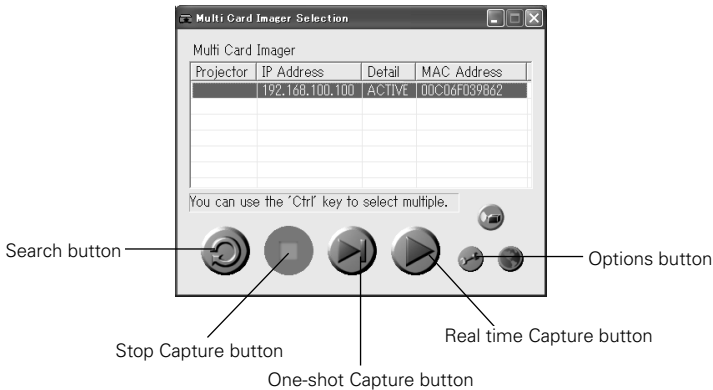
1. Start up the MCI Client

To activate the MCI Client, select [Start] > [Program] > [Multi Card Imager] > [MCI Client] in that order.

As soon as the MCI Client is activated, it starts searching projectors and displays the list of available projectors on the network. If the projector you wish to connect is not shown on the list, click the Search button.

Caution: MCI located in the different segment cannot be connected. Specify the IP address. For details, refer to "Checking the operation" in 7. Wireless LAN Configuration (P38)

Memo: While the MCI Client is activated, the icon appears in the system tray. For details of this icon, refer to "MCI Client Icon in the System Tray" on P58.



2. Select the projector you wish to display image

Select the projector you wish to transmit the image data from the list. If you wish to select two or more, select them with pressing down Ctrl key on the keyboard. Up to 5 units can be selected.

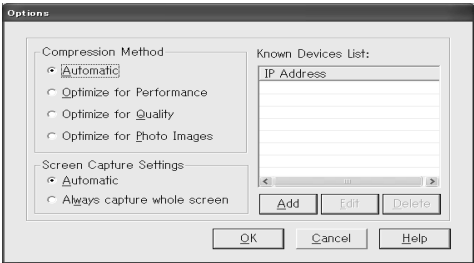
Selected projector will be highlighted. The projector showing "Connecting" is currently being used. You cannot connect this projector.

3. Configure the conditions of image transmission

Click Options button to display the Options Screen.

Configure the conditions of image transmission on this screen. (See the next page for details.)

To reflect the new configuration, click OK button.



Compression Method

Parameter	Description
Automatic.....	Automatically select the most suitable compression method..
Optimize for Performance	Optimize for switching speed of image.
Optimize for Quality	Optimize for image quality.
Optimize for Photo Images	Select this when capturing photo images.

Screen Capture Settings *Reflected for Real-time Capture

Parameter	Description
Automatic.....	Capture the image when any change occurs on the computer screen.
Always capture whole screen	Constantly capture the image on the computer screen.

4. Display the image on the computer screen to the MCI

Parameter	Description
Real time Capture button	Transmit the image to the projector in real-time.
One-shot Capture button	Transmit the image to the projector when you press this button.
Stop Capture button	Stop the real-time capturing.
	If the password is set, Password Input Screen will appear. (Refer to <i>Password Setting</i> in "Chapter 8 Configuration with Browser")

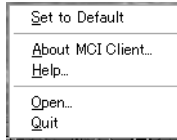
Memo: While executing real-time capture, no buttons can be clicked other than Stop button. The transmitted image are kept in the MCI and displayed until the projector is turned off or the MCI is restarted, even if you close the MCI Client.

MCI Client Icon in the System Tray

When right-clicking the icon in the system tray, the following menu will be shown.



The icon will be changed (Lighted on) when MCI Client is connected to the MCI.



Parameter	Description
Set to Default	Save the following information. MCI Client will be activated with this saved settings from the next time. This function is not available when you activate the MCI Client directly from the CD-ROM. <ul style="list-style-type: none">• Options settings• Connected projectors• Transfer mode (Real time Capture, One-shot Capture or Disconnect)• User Password
About MCI Client	Show version information.
Help	Show help information.
Open.....	Activate the window of the MCI Client.
Quit.....	Quit MCI Client.

About User Right to Login

Notes on the case where you log into Windows XP Professional/Windows XP HomeEdition/Windows2000 Professional with user right (right other than administrator right)

If you log into Windows XP Professional/Windows XP HomeEdition/Windows2000 Professional with user right (right other than administrator right), the following error message will appear when you start up the MCI Client.

Check whether the IP address of the MCI and that of your computer are in an accessible system for each other. If it is not accessible, change the setting of the IP address by either of the following methods.

1. Login again with administrator right, and change the IP address of your computer for an accessible system. After setting, log into your computer with user right.
2. Login again with administrator right, and change the IP address of your computer which is possible to communicate with the MCI. After setting, log into your computer with user right.



Before starting up the MCI Client, set [Hardware acceleration] to [None]. ([Hardware acceleration] is located in [start] - [Control Panel] - [Display] - [Settings] - [Advanced] - [Troubleshoot].) to make the projection speed faster. This setting is, however, not available with user right (right other than administrator right). In this case, first login with administrator right and set [Hardware acceleration] to [None], and then log into your computer with user right again.

If the setting of [Hardware acceleration] remains [Full], the processing speed of the projected image is slower compared to [None] (default).

10. PJ Controller

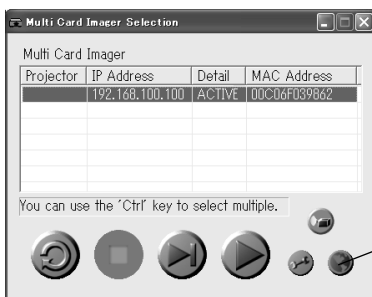
PJ Controller offers the following functions:

- Controlling the projector
 - Monitoring the projector condition.
 - E-mail function to inform the projector condition to users.
- Operating the projector
- Operating Network Viewer
- Controlling the projector menu.

Preparation

1. Start up the MCI Client

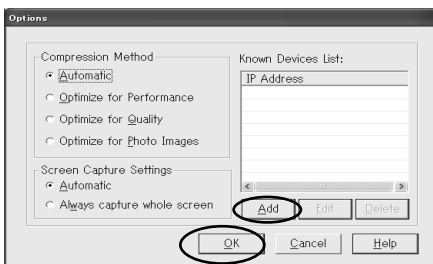
To activate the MCI Client, select [Start] > [Program] > [Multi Card Imager] > [MCI Client] in that order. Detected projectors will be displayed on the main screen.



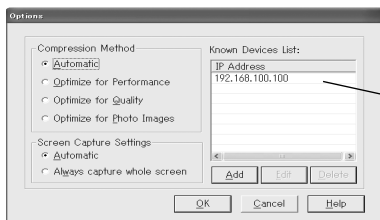
✎ Connecting the projector separated by a router ✎

MCI Client computer cannot connect to the projector installed in the segment beyond the router cannot be connected. In this case, click Options button to show the Options Screen.

- 1 Click Add button to display the IP Address Screen.
- 2 Enter the same IP address as the one set to the projector. (e.g. 192.168.100.100)
- 3 Click OK button to close the window. The entered IP address will be added to the Known Devices List.

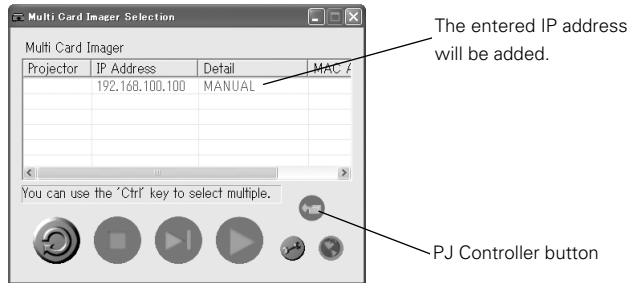


Enter the IP address



The entered IP address will be shown here.

- ④ Press OK on the Options screen. The IP address and "MANUAL" will be shown on the main screen.



2. Select the projector and click the PJ Controller button

- * The projector showing "Connecting" cannot be controlled by PJ Controller.
- * PJ Controller can control a single projector only.

3. PJ Controller is activated.

The screen below will be displayed.

The left side is "Main Menu". Select the setting item you wish to control/adjust.

Control items or condition items of the selected setting item are shown on the right side.

"Initial Setting" is shown on the initial screen.

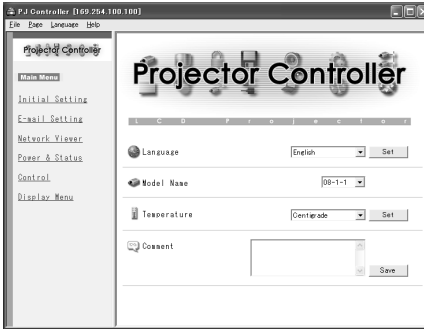


Initial Setting

Before using the PJ Controller function, initial setting will be required.

1. Select Initial Setting from the main menu and configure each item.

Main Menu



Parameter	Description
Language	Select a desired language from the pull-down menu, and click [Set] button.
Model Name.....	Select a model name of the projector to which the MCI is installed. * Model Name is listed as code in OPTIONAL PARTS section of the projector's owner's manual. PJ Controller can not be functioned with a wrong code.
Temperature.....	Select Centigrade or Fahrenheit from the pull-down menu and click Set button.
Comment	You can store any comments regarding the initial settings. To save the comments you entered, click [Save] button.

2. After the Initial Setting, configure each item

Once the initial setting is completed, then go to other items to configure / control.

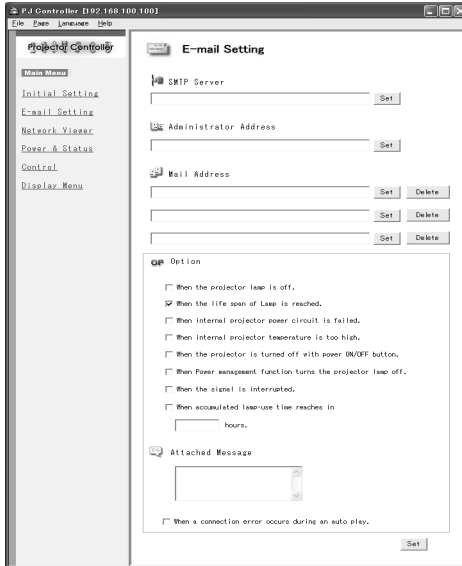
3. Exit from PJ Controller

To exit from PJ Controller, select [File] > [Exit]

Memo: Real-time Capture and One-shot Capture are not available with the computer using PJ controller function.

E-mail Setting

MCI has a function to send an email to inform its operating condition to the administrator or users. MCI has a function to send an email to inform its operating condition to the administrator or users. Select E-mail Setting from the main menu and configure each item as follows:



1. Register E-mail Address

Parameter	Description
SMTP Server	Enter the address of SMTP server and click Set button.
Administrator Address	Enter the E-mail address of administrator and click Set button
Mail Address	Enter E-mail addresses of users and click Set button To delete the E-mail address, click Delete button.

- * The SMTP server is a server for sending E-Mail. Please contact your network administrator to have this SMTP server address.
- * To use the E-mail function, it must be set the DNS address correctly. (See "TCP/IP" in "8. Configuration with Browser".)

You cannot use this E-mail function if the DNS server and SMTP server cannot be used in your network environment. If the SMTP server is located in your LAN (Local Area network), the address set to SMTP server should be specified the in SMTP server located in your LAN. The server located outside of your LAN may not be available for security reason. For further information please contact your network administrator.

2. Check Option items

Check the conditions where you would choose the MCI to send alert messages.

※ Regarding the alert message, see below samples.

3. Input the message to attach the E-mail.

The message typed here will be attached to the alert message.

Samples of Alert Message

* When the internal temperature is too high

TITLE: Message from projector
Projector Model Name: XX100
TCP/IP: 192.168.0.111 Projector Name:

It sends you following message.

*The Projector lamp is turned off, because internal projector temperature is too high..
Wait for Temperature Warning Indicator turned off, and then turn the Projector on again.
If the Indicator continues flashing, check the air filter for dust accumulation.

[A] 21.5degrees centigrade[B] -13.7degrees centigrade[C] 51.6degrees centigrade
Temperature of Sensor B is too high.
Temperature of Sensor C is too high.

* The Network Unit let users know the information which thermal sensor [A], [B] or [C] inside the projector detected the abnormal temperature risen and so the projector was turned off. Please refer to item "Check the status of projector" for the location of the sensors [A], [B] and [C], and temperature (+ p.39). Also see the owner's manual of the projector for further details.

* When the internal power circuit is failed

TITLE: Message from projector
Projector Model Name: XX100
TCP/IP: 192.168.0.111 Projector Name:

It sends you following message.

*The Projector lamp is turned off, because projector power circuit is failed..
Unplug this projector from AC outlet and ask servicing to qualified service personnel.

* The Projector lamp was turned off, because the projector power circuit failed.
Unplug the projector from AC outlet and ask servicing to a qualified service personnel

* When the life span of the lamp has been expired

TITLE: Message from projector
Projector Model Name: XX100
TCP/IP: 192.168.0.111 Projector Name:

It sends you following message.

*The life-span of lamp is reached.
Lamp replacement is required.

* Replace it with a new lamp immediately and reset the lamp counter. If the projector is used without reset the lamp counter, the alert mail is sent to users in every power-on of the projector.

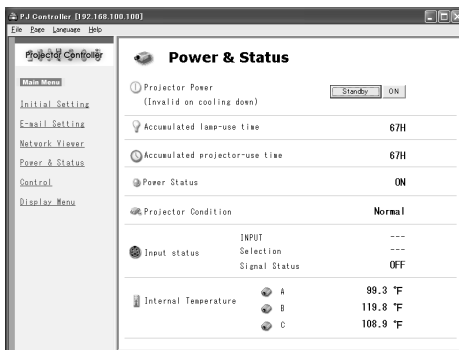
Power & Status

Click "Power & Status" on the main menu and configure each item.

1. Turn on/off the projector

Click Standby / ON buttons to turn off / on the projector. When pressing the Standby button, the confirmation message will appear. Click OK to turn off the projector.

Note: Projector cannot be turned on for approximately 90 seconds after it being turned off. When the display of "Power Status" changes from "On cooling down" to "On", click ON to turn on the projector.



Confirmation Message

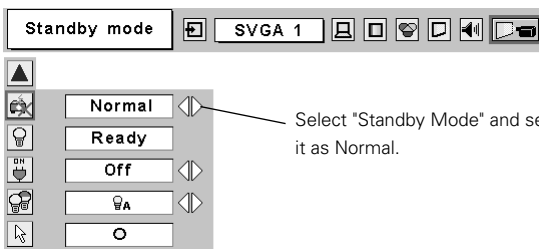


Caution about turning on / off the projector via network

When you wish to turn on / off the projector via network, preset the projector as follows:

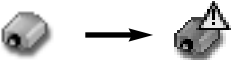
1. Select "Setting" from the Projector menu.
2. Select "Standby mode" from the Setting menu and set it as "Normal".

If you set this function as Normal, the MCI is constantly provided with power even if the projector is turned off. If you set this as Eco, then the MCI will be turned off when you turn off the projector. Consequently, you cannot turn on / off the projector via network.



2. Check the status of the projector

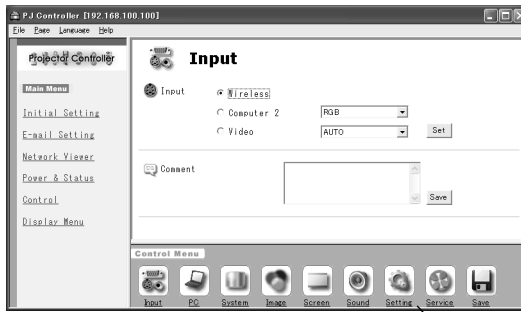
The following items can be checked on the Power & Status screen.

Parameter	Description
Accumulated lamp-use time.....	Displays accumulated time of lamp use in hour increment.
Accumulated projector-use time	Displays accumulated time of projector use in hour increment.
Power Status	Displays the status of the projector's lamp as follows: On, Standby, On cooling down, Power Saver Mode/On cooling down, Temperature Error/On cooling down, On starting up, On power management operating, Temperature Error/Standby
Projection Condition	Displays the projector's condition as follows: Normal, Temperature Error, Power Failure
Input Status	Displays the following input status
Input.....	Displays selected input mode.
Selection	Displays selected input source mode.
Signal Status	Displays signal status.
Internal Temperature	Displays detected internal temperature of the projector. The icons A, B and C stands for the thermal sensors inside the projector. If the internal temperature exceeds the certain point, each icon changes as below and let users know the error. Check the air filters and surrounding area of exhaust and intake vents of the projector.
	
	<p>Icon A, B and C are located as follows:</p> <ul style="list-style-type: none"> A: Ambient temperature of the projector B: Ambient temperature of the C: Ambient temperature of the lamp <p>* The ambient temperature of the projector may be shown a little higher than the actual temperature.</p>

Control

When you select Control from the main menu, Control Menu will appear at the bottom of the screen. Using this menu, you can adjust or configure the projector.

Caution: Control items displayed on this screen is varied depending on the input source or product model of the projector. So the figures shown in this section may be different from the actual screen displayed on your computer. For further detail, refer to the owner's manual of your projector. This function is not available if the projector is turned off.



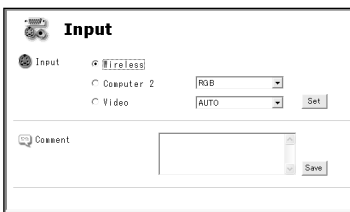
Control Menu



Input

On this screen, you can select input source of the projector. Check the input terminal and select the signal mode from the pull-down menu. Click Set button to switch the input.

You can save a note in Comment field. Click Save button to save the note.



Parameter	Description
Wireless	Select this input when using network capture or viewer function.
Computer 2	Select the input source from RGB, Component, and RGB (Scart)
Video	Select the input source from AUTO, VIDEO, and S-VIDEO.



PC Adjustment

This feature optimizes the signal from the connected computer to display the screen.

- * PC Adjustment screen is displayed only when Computer 2 (RGB) is selected for the input source.

The screenshot shows the 'PC Adjustment' screen with the following settings:

- Current Mode: XGA1
- Auto PC adjustment: Start button
- Fine sync: 26 (range 0-26)
- Total dots: 1344 (range 0-1344)
- H Position: 291 (range 0-291)
- V Position: 36 (range 0-36)
- Clamp: 3 (range 0-3)
- Display Area H: 1024 (range 0-1024)
- Display Area V: 768 (range 0-768)
- Full Screen: ON (toggle OFF/ON)
- Load Setting No.: dropdown menu
- Save Setting No.: Save to: dropdown menu, Mode free button, Set button
- Comment: text input field, Save button

Parameter	Description
Current Mode	Displays computer mode
Auto PC Adjustment	Executed by clicking Start button.
Fine sync	Click ◀▶ to adjust the value
Total dots	Click ◀▶ to adjust the number to fit your computer image.
H Position	Click ◀▶ to adjust the horizontal position.
V Position	Click ◀▶ to adjust the vertical position.
Clamp	Click ◀▶ to adjust the clamp level.
Display Area H	Click ◀▶ to decrease/increase the value to fit resolution of the image.
Display Area V	Click ◀▶ to decrease/increase the value to fit resolution of the image.
Full Screen	Displays the image in the full screen size.
Load Setting No.	Loads the preset settings(Mode 1-5)
Save Setting No.	You can save the settings of the PC Adjustment. Select the mode number you wish to save and click Set button.
	※If you want to delete the content in the mode. select the mode and click "Mode free" button.
Comment	You can save a not regarding the PC Adjustment. Click Save button to save the note.



SYSTEM Adjustment

On this screen, you can select color system and scan mode for the video signal. This screen is displayed only when Video (Video/Component) is selected for the input source of the projector. Depending on the signal, the screen is varied as below.

Component Input

Parameter	Description
System Adjustment.....	Select a scan mode of component signal.
AUTO	Automatically adjust to the scan mode of the input signal.

VIDEO/S-VIDEO Input

Parameter	Description
Color System Adjustment	Select a color system of Video/S-Video signal.
AUTO.....	Automatically adjust to the color system of the input signal.

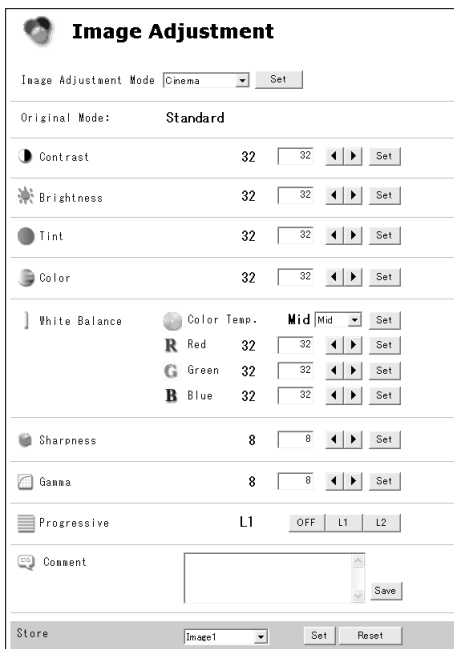
Note: Items in System Adjustment are displayed only for video input (video/Component).



Image Adjustment

On this screen, you can adjust the image projected from the projector. Select an Image Adjustment Mode from the pull-down menu and click Set button. The items displayed on this screen is automatically changed according to the input signal. Click ◀▶ buttons to adjust the value. Everytime you change the value, click Set button. if you click Reset button, all the adjusted values will be reset.

* Some items may not be adjusted depending on the functions of your projector or input signal. In this case, " — " will be shown in the field of the item.



Parameter	Description
Image Adjustment Mode	Select from Standard, Real*, Cinema**, Image 1 – 4, from the pull-down list. Image 1 - 4 can be set by users.
Original Mode	Displays the original mode.
Contrast	Click ◀▶ to adjust the image contrast.
Brightness	Click ◀▶ to adjust the image brightness.
Tint	Click ◀▶ to obtain proper image.***
Color	Click ◀▶ to adjust the color intensity.
White Balance	
Color Temp.	Click ◀▶ to adjust the color temp level. (XLow, Low, Mid or High)
Red, Green, Blue	Click ◀▶ to adjust white balance of the image.
Sharpness	Click ◀▶ to adjust the image sharpness.
Gamma	Click ◀▶ to obtain better balance of contrast.
Progressive * *	Switches progressive mode : Off, L1(motion picture), L2(still picture)
Comment	You can save a note regarding Image Adjustment. Click "Save" button to save the note.
Store	You can save the settings of the Image Adjustment. Select the mode number you wish to save and click Set button. If you click Reset button, all the adjusted values will be reset.

* Items only for computer input.

** Items only for video input.

*** If the color system is PAL, SECAM, PAL-M or PAL-N, tint cannot be adjusted.



Screen

You can select a screen mode on this screen. The items displayed on this screen is automatically changed according to the input signal.



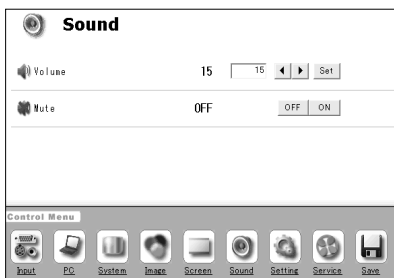
Parameter	Description
Aspect	Select Normal or Wide.
True *	Provides image in its original size. To activate this function, click ON button.
Digital Zoom * ..	Click +, or - button to enlarge or minimize the screen size. Click OFF to cancel this function.
* Items only for Wireless, Wired or Computer2 (RGB) input mode.	

Note: If "1080i", "1035i", or "720p" scan mode is selected from [System Adjustment] (Y, Pb/Cb, Pr/Cr input only) setting in [SYSTEM] screen, you cannot configure [Screen] settings.



Sound

On this screen, you can adjust sound volume of the projector.



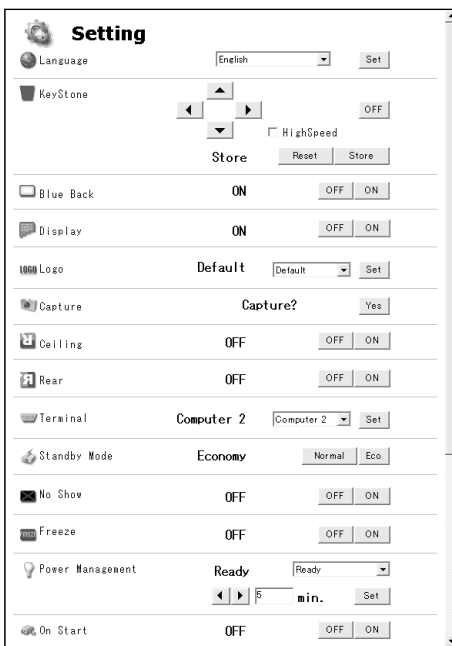
Parameter	Description
Volume	Click ◀▶ to adjust volume.
Mute	Click ON to mute the sound and OFF to cancel this function.



Setting

On this screen, you can configure he projector. Refer to the below table for each item and description.

* The items displayed on this screen is varied according to the functions provided to the projector.



* The figure is a part of the whole screen.

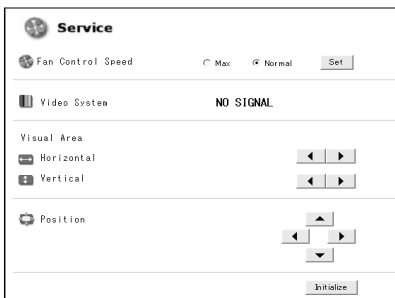
Parameter	Description
Language	Select the desired language from the pull-down menu.
Keystone	Click ◀▶▲▼ buttons to correct keystone distortion. Check the HighSpeed box if you wish to increase the variation.Click OFF if you do not need this function.
Blue Back	Select [ON] or [OFF] to display/not display blue background when no signal is detected.
Display	Select [ON] or [OFF] to display/not display the screen.
Logo.....	Select the image to show on the starting-up display from User, Default or OFF.
Capture	Click YES to capture the projected image. The captured image can be used for the starting-up display.(Select "User" for Logo)
Ceiling.....	By clicking [ON] button, the image gets reversed vertically and horizontally to adjust to ceiling-mount projection.
Rear.....	By clicking [ON] button, the image gets reversed horizontally to adjust to rear projection.
Terminal.....	Select Computer 2 or Monitor Out from the pull-down menu.
Standby Mode	Click Normal or Eco to set the Standby Mode.
No Show	By clicking [ON] button, the image will be temporarily hidden from view.
Freeze	By clicking [ON] button, the image will temporarily freeze.
Power Management	Select Ready, Shut Down or OFF from the pull-down menu. Enter the count-down time by clicking ◀▶ buttons.

Parameter	Description
On Start	By clicking ON button, the projector will be automatically turned on when the power plug is connected to AC outlet.
Lamp Mode	Select the Lamp Mode from Normal, Eco and Auto.
Pointer	Select the shape of the Pointer from Spotlight-S, Spotlight-M, Spotlight-L, Pointer, Finger and Laser.
Remote Control	Select Remote Control Code from Code1 to Code 8. If you change the code here, you have to change the code of the remote control unit at the same time.
Key Lock	To lock the projector, select Projector Keys (Locks the top panel operation) or Remote Control (Locks the remote control operation). If you do not need to lock, select None.
Lamp Counter Reset	You can reset the lamp counter. * Reset the lamp counter only when you change the lamp.
Factory Default	If you wish to reset all the values you set in the control menu, click Yes.
P-TIMER.....	When you click [P-TIMER] button, the timer will appear on the projected screen. Click again and the elapsed time will appear. Click again and the timer will disappear.



Service

Items on this screen are used for maintenance of the projector.



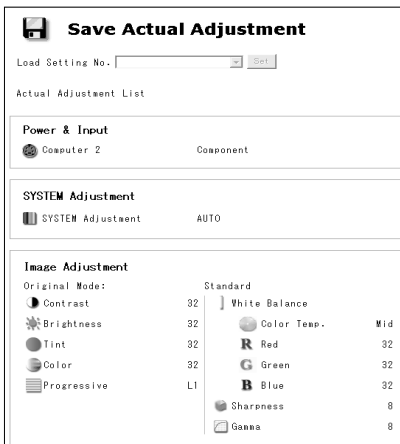
Parameter	Description
Fan Control SpeedSelect Max or Normal.
Video System*Displays the current video system.
Horizontal*Click ◀▶ buttons to adjust horizontal screen size.
Vertical*Click ◀▶ buttons to adjust vertical screen size.
Position*Click ◀▶▲▼ buttons to adjust the screen position.
Initialize*Reset all the service items to the factory default settings.

* If you select Wired, Wireless or Computer 2 (RGB) for the input source, these items are not shown.



Save Actual Adjustment

On this screen, you can save and load the setting. The items you can save is as follows: Input mode, PC Adjustment, System Adjustment, Image Adjustment, Screen and Setting.



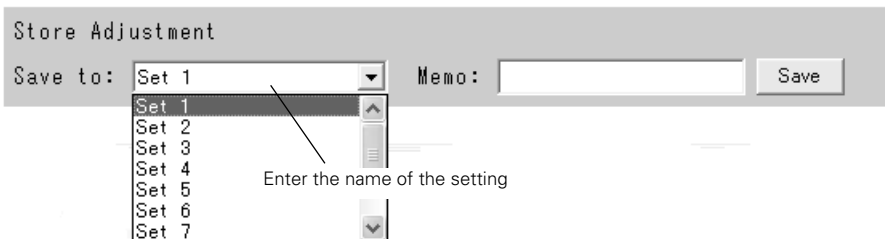
1. Confirm the actual adjustment

When you click Save icon in the Control Menu, the "Save Actual Adjustment" screen will appear. Check each setting. (Go to the next page.)

*The figure shows only part of the full screen.

2. Select Set Number and name the setting

Select the Set Number you wish to store the adjustment from the pull-down menu.
Enter the name of the setting in the Memo field.

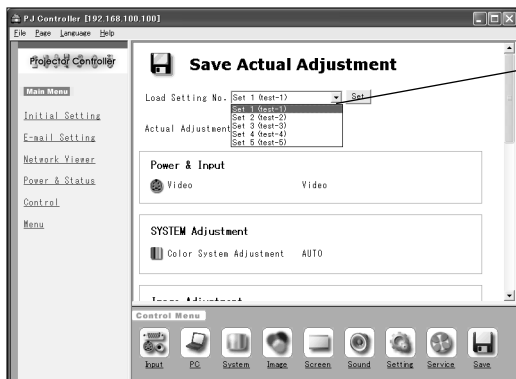


3. Save the setting (Set)

Click Save button to save the adjustment.

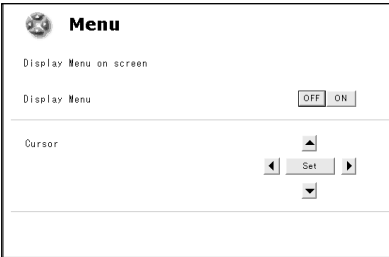
Loading the Set

Click the pull-down menu of Load Setting No. and select the set number you wish to load.
Click Set button to display the value of the set.



Menu

On this screen, you can control the projector menu via network. Click ON of Display Menu item to show the projector menu. Use cursor buttons to control the pointer.



Parameter	Description
Display MenuClick ON to display the projector menu. Click OFF to cancel it.
CursorClick ◀▶▲▼ to move the pointer. Click Set button to execute the selected item.

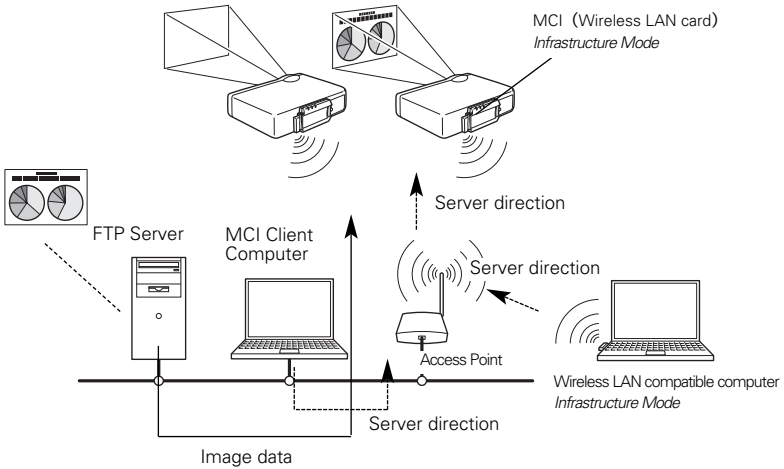
11. Network Viewer

If you use Network Viewer function, you can display the image data stored in the FTP server from the projector.

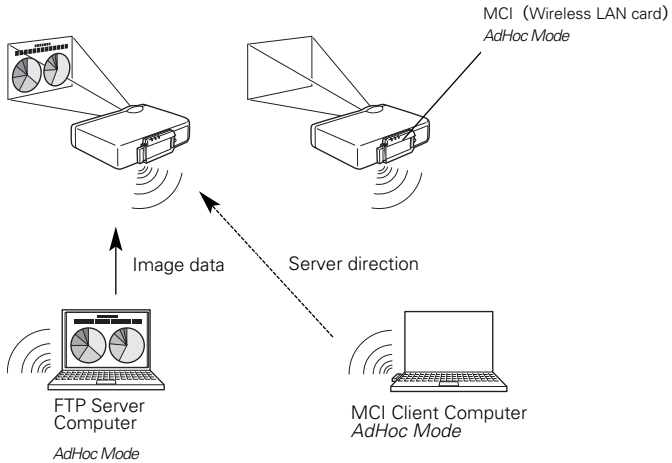
About Network Viewer

Network Viewer is used to display the image data stored in a FTP server via wireless or wired LAN. The signal flow between the FTP server, MCI and the MCI Client computer (Computer installed with MCI Client) is as below:

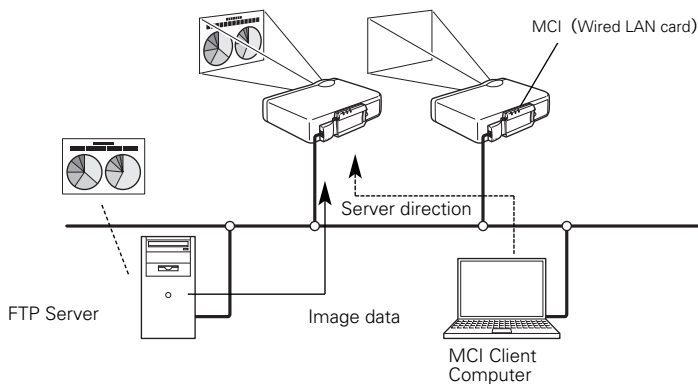
■ Wireless LAN Infrastructure Mode



■ Wireless LAN AdHoc Mode



■ Wired LAN Mode



Operation

Displaying the image in the FTP server is executed as following procedures:

1. First the MCI Client send information of the FTP server which provides image data to the MCI where the information is stored.
2. The MCI Client transmits an instruction to display image data to the MCI. Then the MCI access to the FTP server to load and display the image data following the instruction.

System Requirements for The FTP Server

Operation SystemWindowsNT4.0, Windows2000 Professional, or Windows XP Professional has access to the FTP service.

AccountShould have an account with full access authority or have permission to anonymous accounts.

Displaying Image in the FTP Server

Network Viewer can be operated by 1. PJ Controller, 2. Browser, and 3. Projector.

If you operate the Network Viewer from the projector, you have to complete the configuration of the FTP server by using PJ Controller or Web Browser in advance.

Operation from PJ Controller

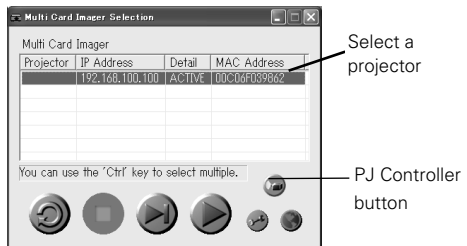
1. Select input source of the projector (Wired/Wireless)

Select "Wireless" for Wireless LAN and "Wired" for Wired LAN for the input source of the projector. Start up the MCI Client.

Detected projector names and IP addresses will be displayed.

2. Specify the projector to display the image

Only one projector can be selected.



3. Start up PJ Controller

Click the PJ Controller button too show the PJ Controller screen. Select a language and Model Code at Initial Settings from the main menu.

4. Select Network Viewer

Select Network Viewer from the Main Menu. Operation window (next page) will be displayed.

Initial Settings



Main Menu

Network Viewer



Caution: Model Code of your projector is shown in the field of Optional Parts list of the owner's manual. Select the correct code. Should the code be wrong, the projector may not work properly.

5. Specify the FTP server to provide image data

Host Name.... Input IP address of the server.

Folder Path.... Specify the directory where image data is stored. When the image data is in the root directory, just "/" is displayed. When the image data is in a specified directory, put slashes"/" between directories such as /test/data etc.

User IDInput login ID access to the server.*

PasswordInput login password access to the server.*

* If the account is anonymous, put "anonymous" in "User ID " field and appropriate ASCII code in "Password" field.

6. Click Set button

Click Set button to set up the server information on the specified projector (MCI).

The configured server information can be stored even if you unplug the projector .

7. Select Play Mode and display the image

Play ModeAuto (Infinite Loop) (Keeps playing images repeatedly)

Auto (Plays or pauses all the images according to the Auto Play Setting mode)

Manual (Plays images manually)

Auto Play Setting...Sec. (Sets time of playing back a image)

Times (Select number of times of play back images)

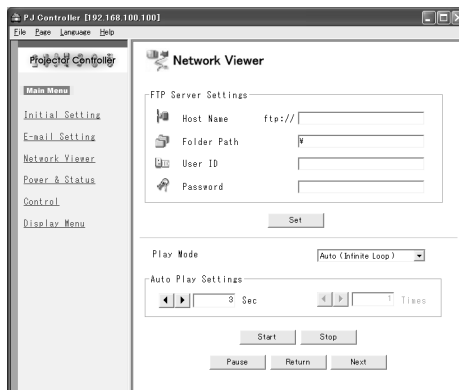
Start.....Starts play back images.

StopStops play back images.

PauseSuspends play back images in Auto Play mode.

ReturnReturns to the previous page manually in Manual mode

NextGo to next page manually in Manual mode.



Operation from WEB Browser

1. Select input source of the projector (Wired/Wireless)

Select "Wireless" for Wireless LAN and "Wired" for Wired LAN for the input source of the projector. Start up the MCI Client.

Detected projector names and IP addresses will be displayed.

2. Specify the projector to display the image

Only one projector can be selected.

3. Click "Configure Multi Card Imager device" button (See page 39)

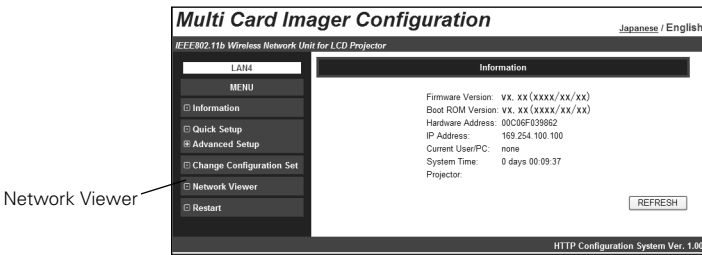
Web browser starts up and the MCI Configuration screen will appear.

Select Network Viewer from the MENU.

Configuration screen for Network Viewer (next page) will appear.

Note: MCI Configuration screen can be also displayed by entering the IP address directly on the browser's URL. (eg. http://00.00.00.00)

MCI Configuration Screen



4. Specify the FTP server to provide image data

Host Name.....Input IP address of the server.

Folder Path.....Specify the directory where image data is stored. When the image data is in the root directory, just "/" is displayed. When the image data is in a specified directory, put slashes"/" between directories such as /test/data etc.

User IDInput login ID access to the server.*

PasswordInput login password access to the server.*

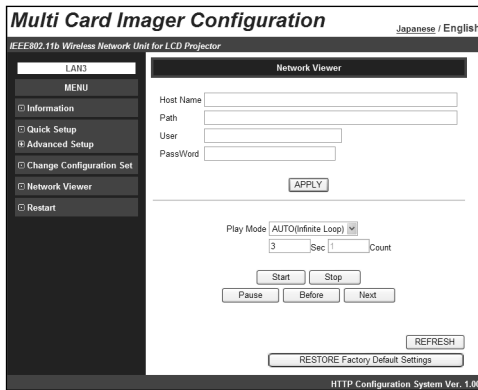
*If the account is anonymous, put "anonymous" in "User ID" field and appropriate ASCII code in "Password" field.

5. Click APPLY button

Click APPLY button to set up the server information on the specified projector(MCI).
The configured server information can be stored even if you unplug the projector .

6. Select Play Mode and display the image

- Play ModeAuto (Infinite Loop) (Keeps playing images repeatedly)
 - Auto (Plays or pauses all the images according to the Auto Play Setting mode)
 - Manual (Plays images manually)
- Auto Play Setting...Sec. (Sets time of playing back a image)
 - Times (Select number of times of play back images)
- Start.....Starts play back images.
- StopStops play back images.
- PauseSuspends play back images in Auto Play mode.
- ReturnReturns to the previous page manually in Manual mode.
- NextGo to next page manually in Manual mode.
- REFRESHCancel the configured values.
- RESTORE Factory Default Settings
 -Restores the factory default settings of Network Viewer.
(All the values will return to the factory default settings.)



Operation from the projector

To operate the Network Viewer from the projector, the FTP server needs to be configured by PJ Controller or web browser in advance.

Regarding the configuration of the FTP server, refer to "Operation from PJ Controller" or "Operation from Web browser".

1. Configure the FTP server.

Configure the FTP server which provides image data, referring to "Operation from PJ Controller" or "Operation from Web browser".

2. Select input source of the projector (Wired/Wireless)

Select "Wireless" for Wireless LAN and "Wired" for Wired LAN for the input source of the projector.

3. Select Wireless Viewer or Wired Viewer from the MCI menu

Select "Wireless Viewer" when using wireless LAN or "Wired Viewer" when using wired LAN from the MCI menu of the projector. Viewer Setting screen will appear.(See the next page)

4. Select Play Mode and execute the operation

Move the red arrow pointer to the item you wish to choose.

Using Point buttons and SELECT button of the projector, configure or execute each item.

AutoPlays images and stop playing according to following configurations.

SecondSets timing to switch images in Auto play mode. (3-240 sec.)

∞Setting "On" makes the projector keep playing images repeatedly.

TimesSpecifies the number of repeating times of auto play. (Maximum 255 times)

ManualSwitches images manually.

Press Point Up button on the projector (or the remote control) to show next image and Point Down button to show the previous image.

Connect

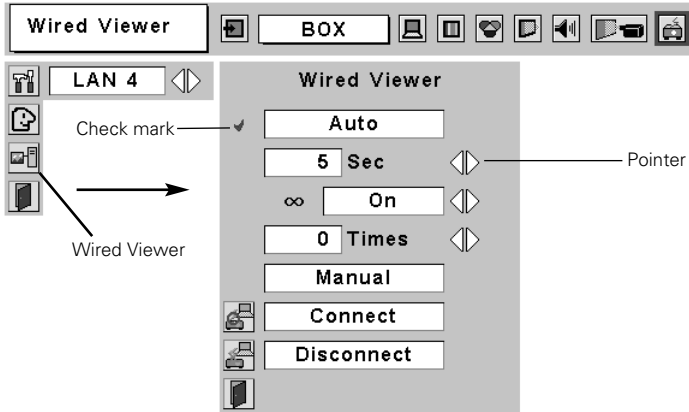
Connect to the FTP server

.....Move the red arrow pointer to "Connect" and press SELECT button on the projector (or the remote control) to connect the MCI to the FTP server. Then the projector starts playing the images in the FTP server.

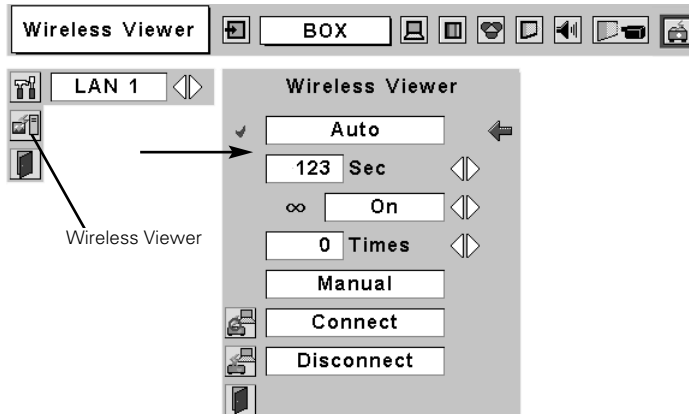
Disconnect from the FTP server

.....Move the red arrow pointer to "Disconnect" and press SELECT button on the projector (or the remote control) to disconnect the MCI from the FTP server.

Wired LAN



Wireless LAN



Caution:

Do not remove the MCI from the projector or turn off the projector while the projector is playing images. Disconnect the MCI from the FTP server before removing the MCI from the projector. Removing the MCI while it is operating may lock the projector. If this happens, turn off and unplug the projector.

12. Appendix

- Troubleshooting
- Terminology
- Setting up IP Address with arp + ping Command
- Specifications

Troubleshooting

.....

If you have any trouble in setup or operation of the MCI, refer to the troubleshooting below and check the relevant matters described.

■ MCI Client computer cannot detect projectors.

Make sure that Wireless or Wired is selected from the input source menu of the projector.

Does the message "Waiting For Connection" appear on screen?

NoThe MCI is not attached to the projector properly.

Check the following matters:

*Is the POWER indicator of the MCI lighting?

*Is the indicator of the wired/wireless LAN card lighting?

->Check if the LAN card is inserted correctly into the MCI.

*Is the LAN cable connected to the wired LAN card properly?

->Check the setting on 4. Installation, 6. Wired LAN Configuration or 7. Wireless LAN Configuration.

YesLAN setting is not correct. Check the following matters.

■ Connection between PC and the projector via wireless LAN cannot be established.

AdHoc Mode:

When selecting LAN3(factory default setting)

Check each item in the Wireless Setting menu of the projector as follows:

*IP AddressIs the address appropriate? Should not be same as the other IP address.

*Sub netShould be the factory default value, 255.255.255.0.

*GatewayShould be the factory default value, 255.255.255.255

*Connection Status....Should be Ad-Hoc mode

*ESSID/SSID/IBSSID

.....Should be same as the setting of the MCI Client

->Check the setting for the MCI Client

*Is the wireless channel set as 11?

->The factory default channel of the MCI is 11.

*ESSID/SSID/IBSSID should be same as the projector.

*WEP (Wired Equivalent Privacy)

.....Should be disabled.

->To enable the function, set WEP at the web browser after the connection is established. (Refer to 8. Configuration with Browser)

Infrastructure Mode:

When selecting LAN2 (factory default setting)

Check each item of the Wireless Setting menu of the projector as follows:

- *IP AddressNo setting is required.
- *Sub netShould be same as the setting of the access point
- *Gateway.....Should be same as the setting of the access point
- *Connection StatusShould be Infrastructure mode
- *ESSID/SSID/IBSSID....Should be same as the setting of the access point

Check the settings for MCI Client computer

- *IP AddressNo setting is required.
- *Wireless Channel.....Should be 11
- *ESSID/SSID/IBSSID....Is same as the setting of the access point?
- *WEP.....Should be disabled.

->To enable the function, set WEP at the web browser after the connection is established.(Refer to 8. Configuration with Browser)

* When using LAN2, it is necessary DHCP/BOOT server is under environment enables those servers communicate via network. Some access points may have DHCP function. For detail of the settings, refer to the owner's manual for the devices or consult a system administrator of the network.

Is the segment where the projector is installed different from the MCI?

Specify IP Adress directly on the optional setting. Refer to "7. Wireless LAN Configuration", p39.

■ Connection between PC and the projector via wired LAN cannot be established.

When selecting LAN4 (factory default setting)

Check IP address, Sub net and Gateway of the projector and MCI.For further details of the configuration, contact your system administrator.

Is the segment where the projector is installed different from the MCI?

Specify IP Adress directly on the optional setting. Refer to 7. Wireless LAN Configuration, p39.

About Settings for LAN Environment:

If you set the MCI under existed LAN environment, connect MCI Client computer to the MCI in accordance with the factory default settings. Make detailed settings by the web browser and then restore the environment of the MCI Client computer.

■ **Cannot start up Web Browser**

Is connection between PC and the projector by using MCI Client established?

No.....Check settings for Wireless/Wired LAN.

YesCheck settings of the proxy server at browser. Refer to "8. Configuration with Browser" (P 41)

■ **Although connection between PC and the projector is established by using MCI Client, images are not projected on screen.**

Make sure Wireless/ Wired is selected from the Input source menu of the projector.

■ **Trying to use PJ Controller but correct operation window does not appear or actual operation windows displayed are different from those on the owner's manual.**

Input correct model code at the initial setting for PJ Controller.

Refer to p64 in "10. PJ Controller".

Caution: Explanations about the operation and images contained in the owner's manual may differ from actual ones as they are based on standard models. Read the owner's manual of the projector to be used with the MCI before operation.

■ **The projector cannot be turned on/off by operation with PJ Controller.**

Make sure the settings of the projector are correct to use the MCI with it.

Refer to " Power and Status" in "10. PJ Controller".

■ **Network Viewer does not work by the operation of the projector.**

Make sure the settings of the FTP server are correct. You should set up the FTP server before using Network Viewer. Refer to 11.Network Viewer.

■ **Speed of playing back images are very slow.**

When connecting on ad-hoc mode, check which wireless channel you are using.

If PC using the same channel as yours is existing closely, the networking speed may be diminished or the communication unstable. Change channel to resolve the problem. The channels of the MCI and MCI Client computer must be the same. Or adjust the compression format at the optional setting from the PJ Controller menu.

Refer to "9. Display Image via Network".

■ **MCI Client and the MCI are suspended and do not restart**

Close the MCI Client application, turn off and unplug the projector. And then turn of the projector again.

Caution: Do not remove the MCI from the projector while the Network Viewer is working. It may lock MCI Client and the MCI leading to malfunction of them.

Terminology

DHCP server (Dynamic Host Configuration Protocol)

It is necessary to set an IP address for each computer or equivalent equipment when establishing a network by TCP/IP. If there exist DHCP server on the network, it will assign IP addresses to client computers every time they request it. If there exist equipment with DHCP server functions (such as a Windows 2000 server and a dial-up router) on the network, the DHCP server function may be automatically operating. Ask your system administrator whether the DHCP server is operating.

ESSID (Extended Service Set Identifier)

ESSID is the ID that is set to computers on wireless LAN or access point in order to prevent each computer from being crossed. The computers or access point to which the same ESSID is set can communicate with each other. If an ESSID is different, it is impossible to communicate. ESSID distinguishes between lowercase and uppercase characters, and allows you to use English one byte characters and half-size symbols up to 32 characters.

WEP (Wired Equivalent Privacy)

WEP is a security protocol for wireless LAN. It protects computers on wireless LAN and access point from unauthorized access by setting a description code onto them. It is necessary to set the same decryption code for equipment.

Wi-Fi (the Standard for Wireless Fidelity)

Wi-Fi is short for wireless fidelity and a marketing brand name for IEEE 802.11b High-Rate. Only the products that have passed an inter-operation test carried by WECA is approved as Wi-Fi. Any products approved as Wi-Fi are certified as interoperable with each other by WECA. It is recommended to use the products approved by Wi-Fi when introducing network equipment such as local area network.

Wireless Channel

It is necessary to divide frequency spectrums into some wireless channels for wireless communication, and to tune to the same channel between wireless equipment. If you use the same channel on the same floor, and there are some wireless LANs that have a different ESSID for each, the communication speed may become slow. In this case, using different channels for each wireless LAN is effective, and lowers a possibility of mutual interference between wireless LANs

WECA (Wireless Ethernet Compatibility Alliance)

WECA is an organization promoting IEEE802.11b High -Range standard and assuring the compatibility of products that meet the standard.

MAC address (Media Access Control Address)

MAC address is a physical address for every network interface. The MAC address consists of 6-byte hex number. The first 3 bytes are a Vendor ID controlled and assigned by IEEE. . The last 3 bytes are controlled and assigned by the manufacturers of network interface. (no duplication of MAC address) Therefore, MAC address is a unique physical address in the world. Ethernet sends and receives frames on the basis of MAC address.

Setting up the IP address with “arp” + “ping” command

In addition to using MCI Client in the supplied CD-ROM, you can use “arp” and “ping” command from Command Prompt to assign an IP address to your MCI.

1. Start up MCI and configure the wireless LAN card in your PC to communicate with the MCI unit.
2. From Windows [Start] menu, click [Run]. In the field next to [Open:], enter “command” and click [OK]. When “MS-DOS prompt” (or command prompt) appears, type in “arp” command as follows:

(Example)

```
C:\> arp -s 169.254.1.100 00-c0-6f-05-1c-c2
```

—— Indicates an IP address you wish to assign to your MCI.

----- Separates MAC address of your MCI unit every two characters by hyphen.
MAC address is indicated on a label attached to the bottom of each unit.

3. Next, enter “ping” command as follows:

(Example)

```
C:\> ping 169.254.1.100 (by executing ping command, the IP address will be set)
```

—— Indicates an IP address you wish to assign to your MCI.

Reply from 169.254.1.100: bytes=32 times=2ms TTL=255

(if this message appears, the IP address was successfully assigned to MCI)

Note: The assigned IP address is saved in the firmware of MCI, thus it will remain set even when the power is off. You can use the same method to re-assign an IP address.

If [arp+ping] option is disabled in TCP/IP setting of the MCI, you cannot assign an IP address using “arp” and “ping” commands. (In factory default state, [arp+ping] is set to “Enable”).

Specifications

Multi Card Director

Power	
Power Consumption	Operating : DC3.3V 1.5A(MAX) Standby :DC3.3V 1.2A(MAX)
Projector Interface	
External Interface	Digital RGB output :DVI 29pin (male)
Environment	
Operating Temperature	5~35℃
Storage temperature	-20~60℃
Certification	
Japan	VCCI ClassB TELEC
USA	FCC Class B
Canada	IC(ICES-003)
Europe	CE Mark
Other	
Dimensions	129(W)×70(D)×27(H) mm
weight	170g

Wireless LAN Card

Network Standard	IEEE802.11b
Network Type	802.11 AdHoc、Infrastructure
Frequency band	2,412MHz - 2,462MHz (Channels 1-11) In France: 2,457MHz-2,462MHz (Channels: 10-11)
Modulation	CCK、BPSK、QPSK
Communication Range	Outdoor 120m / Indoor 80m *Above data may vary depending on the operating environment
Data Transfer Rate	1/2/5.5/11Mbps (Auto-sensing, Auto-switching)
Security	WEP40/128bit、SSID/ESSID
Protocol	TCP/IP
Dimensions	43(W) × 57(D) × 10(H) mm
Weight	20g

Wired LAN Card

Data Transfer Rate	10Mbps (10BASE-T)
Protocol	TCP / IP
Dimensions	43(W) × 88(D) × 15(H) mm
Weight	30g

