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The following projector manual has not been modified or altered in any way.



Multimedia Projector

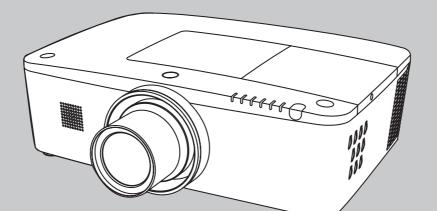
MODEL PLC-XM100 PLC-XM150 PLC-XM100L* PLC-XM150L*

Network Supported

Refer to the Owner's Manual below for details about network function.

Network Set-up and Operation

* Projection lens is optional.





This Multimedia Projector is designed with most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 1.07 billion colors, and matrix liquid crystal display (LCD) technology.

Functionally Rich

This projector has many useful functions such as lens shifting, ceiling and rear projection, perpendicular omnidirectional projection, variety of lens options, etc.

Multi-use Remote Control

Use the remote control as wired and wireless, or as a PC wireless mouse. Eight remote control codes and selectable pointer shapes are also available.

Simple Computer System Setting

The projector has the Multi-scan system to conform to almost all computer output signals quickly (p.36). Supported resolution up to WUXGA.

Useful Functions for Presentation

Digital zoom function allows you to focus on the crucial information during a presentation (pp.29, 43).

Security Function

The Security function helps you to ensure security of the projector. With the Key lock function, you can lock the operation on the side control or remote control (p.59). PIN code lock function prevents unauthorized use of the projector (pp.59-60).

Power Management

The Power management function reduces power consumption and maintains lamp life (p.57).

Automatic Filter Replacement Function

The projector monitors the condition of the filter and replaces a filter automatically when it detects the clogging.

Motor-driven Lens Shift

Projection lens can be moved up, down, right and left with the motor-driven lens shift function. This function makes it easy to provide projected image where you want. Zoom and focus can also be adjusted with a motor-driven operation. (p.27)

Multilanguage Menu Display

Operation menu is available in 12 languages; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean, and Japanese (p.51).

Logo Function

The Logo function allows you to customize the screen logo (pp.52-54). You can capture an image for the screen logo and use it for the starting-up display or between presentations.

Pointer Function

Remote control pointer function. This function helps you to make a smart presentation on a projected screen.

Multiple Interface Terminals

The projector has several interface terminals that can support various types of equipment and signals (p.11).

Shutter Function

The projector is equipped with the shutter that provides complete blackness when the projected image is not needed with keeping the projector on. The shutter management function allows you to set the timer. It prevents from keeping the projector on when the shutter is closed for a long time. (p.61)

Corner Correction

With the "Horizontal and vertical keystone correction function" and "Corner keystone correction function" of this projector, you can correct the keystone distortion even when projecting from the diagonal to the screen. (pp.31, 44, 50)

Network-capable

- Through an optional PJ-Net Organizer, you can project an image on a computer as well as operate and manage the projector via network.
- This projector is loaded with the Wired LAN network function. You can operate and manage the projector via network. For details, refer to the owner's manual "Network Set-up and Operation."

✓ Note:

• The On-Screen Menu and figures in this manual may differ slightly from the product.

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

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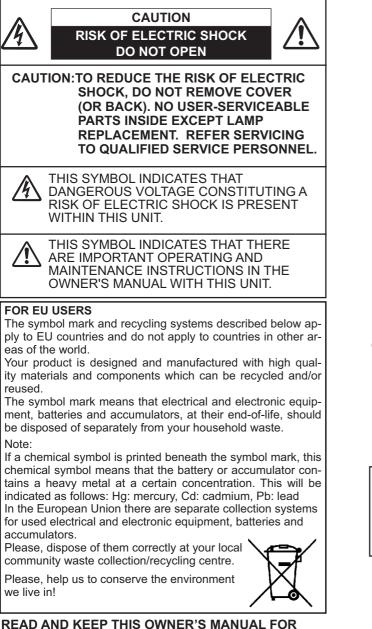
Â

Before installing and operating the projector, read this manual thoroughly.

The projector provides many convenient features and functions. Operating the projector properly enables you to manage those features and maintains it in good condition for many years to come.

Improper operation may result in not only shortening the product life, but also malfunctions, fire hazard, or other accidents.

If your projector seems to operate improperly, read this manual again, check operations and cable connections and try the solutions in the "Troubleshooting" section in the back of this manual. If the problem still persists, contact the dealer where you purchased the projector or the service center.



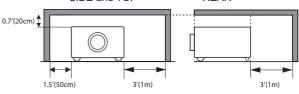
Safety Precaution

WARNING: • THIS APPARATUS MUST BE EARTHED.

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

- This projector produces intense light from the projection lens. Do not stare directly into the lens, otherwise eye damage could result. Be especially careful that children do not stare directly into the beam.
- Install the projector in a proper position. Otherwise it may result in a fire hazard.
- Allowing the proper amount of space on the top, sides, and rear of the projector cabinet is critical for proper air circulation and cooling of the unit. The diagrams shown here indicates the minimum space required. If the projector is to be built into a compartment or similarly enclosed, these minimum distances must be maintained. Do not cover the ventilation slots on the projector. Heat
- build-up can reduce the service life of your projector, and can also be dangerous. REAR





- If the projector is unused for an extended time, unplug the projector from the power outlet.
- Do not project the same image for a long time. The afterimage may remain on the LCD panels by the characteristic of panel.



DO NOT SET THE PROJECTOR IN GREASY, WET, **OR SMOKY CONDITIONS SUCH AS IN A KITCHEN** TO PREVENT A BREAKDOWN OR A DISASTER. IF THE PROJECTOR COMES IN CONTACT WITH OIL OR CHEMICALS, IT MAY BECOME DETERIORATED.

CAUTION

Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/ Data Processing Equipment, ANSI/NFPA 75.

4

LATER USE.

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

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Follow all warnings and instructions marked on the projector.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturers.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Slots and openings in the back and side of the cabinet are provided for ventilation, to ensure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a book case unless proper ventilation is provided.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

Do not install the projector near the ventilation duct of airconditioning equipment. This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the projector.
- c. If the projector has been exposed to rain or water.
- d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
- e. If the projector has been dropped or the cabinet has been damaged.
- f. When the projector exhibits a distinct change in performance-this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

NOTE FOR CUSTOMERS IN THE US

HQ LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.

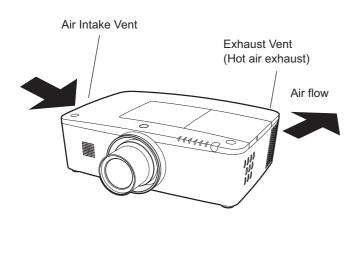
Air Circulation

Openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

Hot air is exhausted from the exhaust vent. When using or installing the projector, the following precautions should be taken.

- Do not put any flammable object or spray can near the projector, hot air is exhausted from the air vents.
- Keep the exhaust vent at least 3' (1 m) away from any objects.
- Do not touch peripheral parts of the exhaust vent, especially screws and metallic parts. These areas will become hot while the projector is being used.
- Do not put anything on the cabinet. Objects put on the cabinet will not only get damaged but also may cause fire hazard by heat.

Cooling fans are provided to cool down the projector. The fans' running speed is changed according to the temperature inside the projector.



IMPORTANT!

Filter Maintenance!!

The projector uses a lamp which generates significant heat. The cooling fans and air vents are provided to dissipate the heat by drawing air into the housing and the filter is located in the intake vents to prevent dust from getting inside of the projector.

In order to care for the projector appropriately, regular cleaning is required. Remove any dirt or dust that has accumulated on the projector.

If the projector reaches a time set in the timer setting, a Filter replacement icon (Fig. 1) appears on the screen and WARNING FILTER indicator on the top panel lights up (see below), indicating that the filter replacement is necessary.

If the projector detects that the filter is clogged and no scroll is left in the filter cartridge, a Filter cartridge replacement icon (Fig. 2) appears on the screen and WARNING FILTER indicator on the top panel lights up (see below). Stop using the projector immediately and replace the filter cartridge.

Blocking the air vents and leaving the projector uncleaned for a long time may not only damage the projector and may require costly repairs but may also cause accidents or fire.

For maintenance of the filter, refer to "Filter counter" on page 62 and "Maintenance and Care" on pages 63-65.

Damages to the projector caused by using an uncleaned filter or improper maintenance will void the warranty on the projector.

Top Panel

○ WARNING TEMP.

SHUTTER

WARNING FILTER

indicator

WARNING FILTER

C LAMP REPLACE



Fig. 1 Filter replacement icon



Fig. 2 Filter cartridge replacement icon

Installing the Projector in Proper Directions

Use the projector properly in specified positions. Improper positioning may reduce the lamp life and result in severe accident or fire hazard.

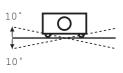
This projector can project the picture in upward, downward, or inclined position in perpendicular direction to the horizontal plane. When installing the projector in downwardly inclined position, install the projector bottom side up.

√ Note:

To inverse or reverse the image, set the ceiling function to On. (pp. 44, 50)

Positioning Precautions

Avoid positioning the projector as described below when installing.



Do not tilt the projector more than 10 degrees from side to side.



In upward projection, do not tilt the projector over 10 degrees right and left.



Do not put the projector on either side to project an image.



In downward projection, do not tilt the projector over 10 degrees right and left.



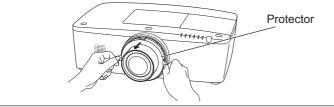
CAUTION ON CEILING MOUNTING

For ceiling mounting, you need the ceiling mount kit designed for this projector. When not mounted properly, the projector may fall, causing hazards or injury. For details, consult your dealer. The warranty on this projector does not cover any damage caused by use of any non-recommended ceiling mount kit or installation of the ceiling mount kit in an improper location.

Moving the Projector

Notes on protector

Remove the protector on the lens before use, and keep it for later use. For transportation, press and hold the LENS button or LENS SHIFT button for more than 5 seconds to return the lens to the central position, and then attach the protector to protect the lens.(Only for PLC-XM100, PLC-XM150).



Use the handle grip when moving the projector.

Retract the adjustable feet to prevent damage to the lens and cabinet when carrying.

When this projector is not in use for an extended period, put it into a suitable case to protect the projector.

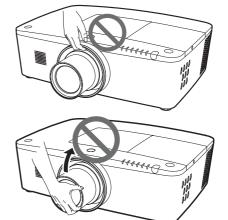
CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When carrying the projector, use a suitable carrying case.
- Do not transport the projector by courier or any other transport service in an unsuitable transport case. This
 may cause damage to the projector. For information about transporting the projector by courier or any other
 transport service, consult your dealer.
- Do not put the projector in a case before it is cooled enough.

Cautions in Handling the Projector

Do not hold the lens or the lens compartment tube when lifting or moving the projector. Doing so may cause damage to the lens and the projector.

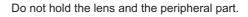
Care must be taken when handling the projector; do not drop, bump, subject it to strong forces, or put other things on the cabinet.

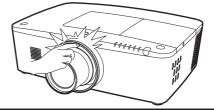




Projection lens is a motorized lens. Please note the followings when using the projector.

- Do not touch the lens while it is moving as this could cause injury to the fingers.
- Never allow children to touch the lens.







Federal Communications Commission Notice

Note: 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	: PLC-XM100, PLC-XM100L, PLC-XM150, PLC-XM150L
Trade Name	: Sanyo
Responsible party	: SANYO NORTH AMERICA CORPORATION
Address	: 21605 Plummer Street, Chatsworth, California 91311, U.S.A.
Telephone No.	: (818)998-7322

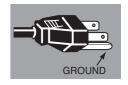
AC Power Cord Requirement

The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it.

AC Power Cord for the United States and Canada:

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).

AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.



AC Power Cord for the United Kingdom:

This cord is already fitted with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA approved BS 1362 fuse must be used of the same rating, marked thus ⁽⁽¹⁾). If the fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red or orange). Fuse covers are available from the Parts Department indicated in your User Instructions.

If the plug supplied is not suitable for your socket outlet, it should be cut off and destroyed.

The end of the flexible cord should be suitably prepared and the correct plug fitted. (See Over)

WARNING: A PLUG WITH BARED FLEXIBLE CORD IS HAZARDOUS IF ENGAGED IN A LIVE SOCKET OUTLET.

The Wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow ······ Earth

Blue ····· Neutral

Brown ······ Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

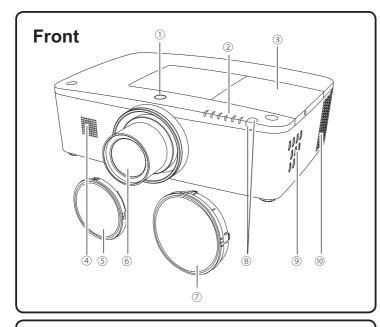
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol $\frac{1}{2}$ or coloured green or green-and-yellow.

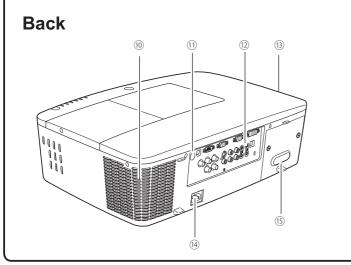
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

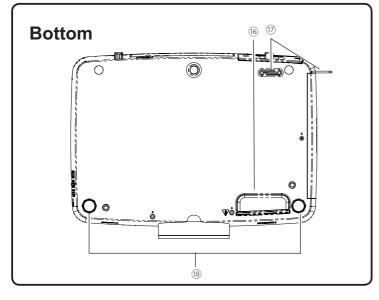
WARNING: THIS APPARATUS MUST BE EARTHED.

THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE.

Part Names and Functions







- ① Lens Release Button
- 2 Indicators
- **3 Lamp Cover**
- ④ Speaker
- 5 Lens Cap
 - (for PLC-XM100, PLC-XM150)
- 6 Projection Lens
- (for PLC-XM100, PLC-XM150)
- ⑦ Lens Mount Cover
 - (for PLC-XM100L, PLC-XM150L)
- 8 Infrared Remote Receiver (Front & Top)
- I Side Controls

10 Exhaust Vent



Hot air is exhausted from the exhaust vent. Do not put heat-sensitive objects near this side.

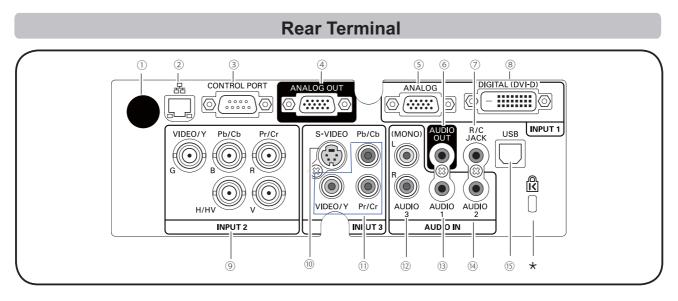
- 1 Infrared Remote Receiver (Back)
- 12 Terminals and Connectors
- **B Filter Cover & Air Intake Vent**
- Here Power Cord Connector
- **(5) Rear Cover (Optional Parts Attachment)**

16 Hand Grip

0 Security Chain Hook

√Note:

This is not a handle for carrying the projector. Do not carry the projector with this hook. **B Adjustable Feet**



① INFRARED REMOTE RECEIVER (Back)

The infrared remote receiver is also located in the front and top (pp.10, 15).

2 LAN CONNECTION TERMINAL

Connect the LAN cable (refer to the owner's manual of "Network Set-up and Operation").

③ CONTROL PORT CONNECTOR

When controlling the projector with RS-232C, connect the control equipment to this connector with the serial control cable. (p.19)

④ ANALOG OUT TERMINAL

This terminal can be used to output the incoming analog RGB signal from INPUT 1-3 terminal to the other monitor (pp.19-20).

S COMPUTER INPUT TERMINAL (ANALOG)

Connect the computer (or RGB scart) output signal to this terminal (pp.19-20).

6 AUDIO OUTPUT JACK

This jack outputs the audio signal from computer or video equipment to external audio equipment (p.21).

⑦ R/C JACK

When using the wired remote control, connect the wired remote control to this jack with a remote control cable (not supplied) (p.15).

8 COMPUTER INPUT TERMINAL (DIGITAL)

Connect the computer output digital signal to this terminal. The HDTV (HDCP compatible) signal can also be connected (pp.19-20).

9 5 BNC INPUT JACKS

Connect the component or composite video output signal from video equipment to VIDEO/Y, Pb/Cb, and Pr/Cr jacks or connect the computer output signal (5 BNC Type [Green, Blue, Red, Horiz. Sync, and Vert. Sync.]) to G, B, R, H/V, and V jacks (pp.19-21).

10 S-VIDEO INPUT JACK

Connect the S-VIDEO output signal from video equipment to this jack (p.20).

11 VIDEO INPUT JACK

Connect the component or the composite video output signal from video equipment to these jacks (p.20).

12 AUDIO 3 JACKS (L(MONO)/R)

Connect the audio output signal from video equipment connected to (10) or (11) to this jack. For a mono audio signal (a single audio jack), connect it to the L (MONO) jack (p.21).

13 AUDIO 1 JACK

Connect the audio output (stereo) signal from a computer or video equipment (p.21).

(4) AUDIO 2 JACK

Connect the audio output (stereo) signal from a computer or video equipment (p.21).

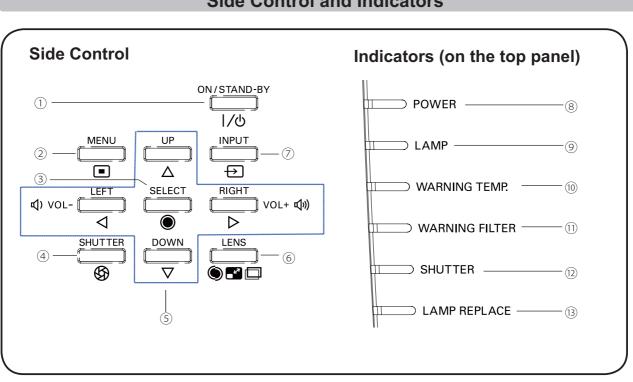
15 USB CONNECTOR (Series B)

Use this connector when controlling a computer with the remote control of the projector. Connect the USB terminal of your computer to this connector with the supplied USB cable (p.19).

*Kensington Security Slot

This slot is for a Kensington lock used to deter theft of the projector.

*Kensington is a registered trademark of ACCO Brands Corporation.



Side Control and Indicators

(1) ON/STAND-BY button

Turn the projector on or off (pp.23-24).

(2) MENU button

Open or close the On-Screen Menu (p.25).

③ SELECT button

- Execute the selected item (p.25).
- Expand or compress the image in the Digital zoom mode (p.43).

④ SHUTTER button

Close and open up the built-in shutter. (p.27)

(5) Point $\blacktriangle \lor \blacktriangleleft \lor$ (VOLUME – / +) buttons

- Select an item or adjust the value in the On-Screen Menu (p.25).
- Pan the image in Digital zoom + mode (p.43).
- Adjust the volume level (with Point ◀► buttons) (p.28).

6 LENS button

Enter the focus, zoom, and lens shift adjustment mode (p.27).

⑦ INPUT button

Select an input source (pp.33-35).

8 POWER indicator

- Light green while the projector is in stand-by mode.
- Light green during operations.
- Blink green in the Power management mode (p.57).

(9) LAMP indicator Light red during operations.

(10) WARNING TEMP. indicator

Blink red when the internal temperature of the projector exceeds the operating range (pp.69, 76-78).

(1) WARNING FILTER indicator

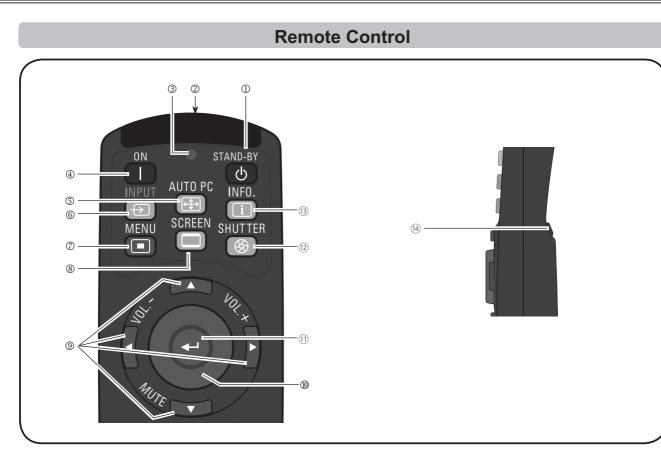
- Blink slow when the filter is being scrolled (pp.63, 76).
- Blink fast when the filter scroll is not working properly or the filter cartridge is not installed (pp.63, 78).
- Light orange when the clogging of the filter is detected or the filter counter reaches a time set in the timer setting, urging immediate filter/ filter cartridge replacement (pp.62, 63, 78).

12 SHUTTER indicator

Light blue when the shutter is closed (p.76).

13 LAMP REPLACE indicator

Light orange when the projection lamp reaches its end of life (pp.66, 77).



- ① **STAND-BY button** Turn the projector off (p.24).
- WIRED REMOTE jack Connect the remote control cable (not supplied) to this jack when using as a wired remote control.
- ③ SIGNAL EMISSION indicator Light red while a signal is being sent from the remote control to the projector.
- ON button
 Turn the projector on (p.23).
- S AUTO PC button Automatically adjust the computer image to its optimum setting (pp.29, 37).
- INPUT button Select a signal (pp.33-35).
- MENU button
 Open or close the On-Screen Menu (p.25).
- SCREEN button
 Select the screen size (p.29).
- POINT ▲ ▼ ◄►(VOLUME / +, MUTE) buttons
 Select an item or adjust the value in the On-Screen Menu (p.25).
 - Pan the image in Digital zoom + mode (p.43).
 - Adjust the volume level (with Point ◀► buttons) or mute the sound (with Point ▼ button.) (p.28).

MOUSE POINTER button

Move a pointer of the projector or a pointer for wireless mouse operation (p.32).

- ① SELECT button
 - Execute the selected item (p.25).
 - Expand or compress the image in the Digital zoom mode (p.43).
- **12** SHUTTER button

Close and open up the built-in shutter (p.27).

INFO. button

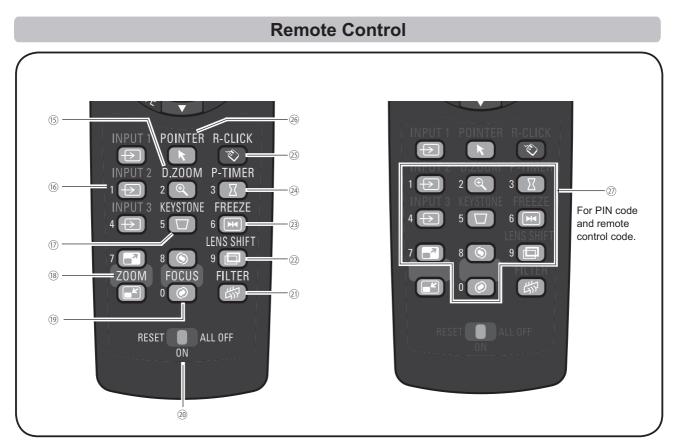
Display the input source information (p.29).

(A) L-CLICK button

Act as the left mouse button for wireless mouse operation (p.32).

To ensure safe operation, observe the following precautions:

- Do not bend, drop, or expose the remote control to moisture or heat.
- For cleaning, use a soft dry cloth. Do not apply benzene, thinner, spray, or any other chemical materials.



- In the Digital zoom +/- mode and resize the image (p.43).
- INPUT 1- 3 buttons
 Select an input source (INPUT 1 INPUT 3) (pp.33-35).
- KEYSTONE button
 Correct keystone distortion (pp.31, 44, 50).
- B ZOOM ▲ ▼ buttons Zoom in and out the images (p.29).
- FOCUS buttons Adjust the focus (p.29).
- RESET/ON/ALL-OFF switch

When using the remote control, set this switch to "ON". Set it to "ALL OFF" for power saving when it is not in use. Slide this switch to "RESET" to initialize the remote control code.

2) FILTER button

Scroll the filter (p.30).

LENS SHIFT button
 Select the Lens Shift function (p.29).

- FREEZE button
 Freeze the picture on the screen (p.30).
- P-TIMER button Operate the P-timer function (p.30).
- 29 R-CLICK button

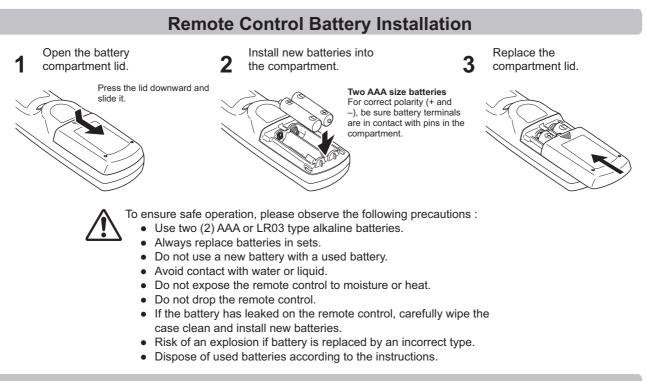
Act as the right mouse button for wireless mouse operation (p.32).

POINTER button

Act as the On-Off switch for the Pointer (pp.30, 32).

2 NUMBER buttons

Act as number buttons. Use these buttons when setting the remote control codes (p.16) or when entering the PIN code numbers (pp. 23, 54, 60).



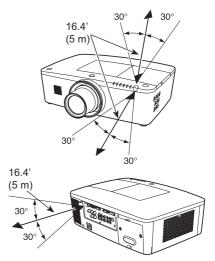
Remote Control Receivers and Operating Range

Point the remote control toward the projector (to Infrared Remote Receivers) when pressing the buttons. Maximum operating range for the remote control is about 16.4' (5 m) and 60 degrees in front, back and top of the projector.

Infrared Remote Receivers are provided in front, back and top of of the projector. You can conveniently use all of the receivers (pp. 10, 11, 57).

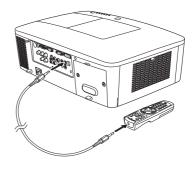
√Note:

When hanging the projector from the ceiling, select the Infrared Remote Receiver which is located farther away from the fluorescent light (p.57).



Wired Remote Control Transmitter

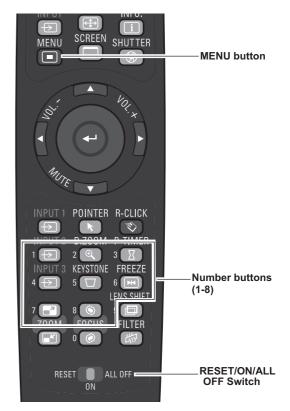
The remote control can be used as a wired remote control. Wired remote control helps you use the remote control outside of the operating range (16.4'/ 5 m). Connect the remote control and the projector with the remote control cable (sold separately). Connected with the remote control cable, the remote control does not emit wireless signal.



Remote Control Code

The eight different remote control codes (Code 1–Code 8) are assigned to this projector. Switching the remote control codes prevents interference from other remote controls when several projectors or video equipment next to each other are operated at the same time. Change the remote control code for the projector first before changing that for the remote control. See "Remote control" in the Setting Menu on page 56.

- Press and hold the MENU and a number button (1–8) for more than five seconds to switch between the codes.
- 2 To initialize the remote control code, slide the RESET/ ON/ ALL-OFF switch to "RESET", and then to "ON". The initial code is set to Code 1.



Press and hold the MENU and a number button (1-8) that corresponds to the remote control code for more than five seconds to switch between the codes.

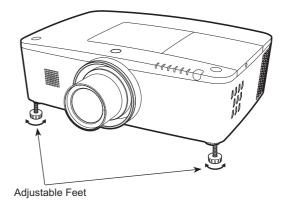
Adjustable Feet

Projection angle can be adjusted up to 4.0 degrees with the adjustable feet.

Rotate the adjustable feet and tilt the projector to the proper height; to raise the projector, rotate the both feet clockwise.

To lower the projector or to retract the adjustable feet, rotate the both feet counterclockwise.

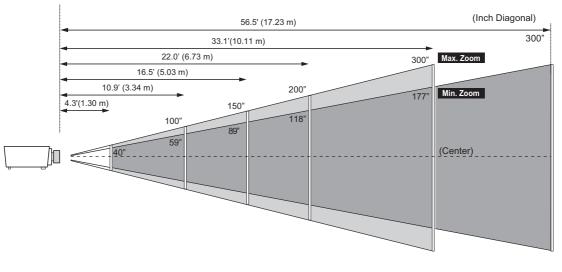
To correct keystone distortion, press the KEYSTONE button on the remote control or select Keystone from the menu (see pages 14, 31, 44, 50).



Positioning the Projector

For projector positioning, see the figures below. The projector should be set perpendicularly to the plane of the screen. (for PLC-XM100 and PLC-XM150)

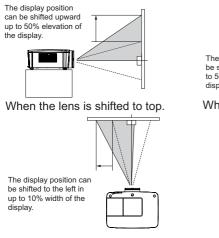
- ✓ Note:
- The brightness in the room has a great influence on picture quality. It is recommended to limit ambient
- lighting in order to obtain the best image.
- All measurements are approximate and may vary from the actual sizes.

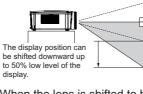


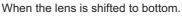
Screen Size (W x H) mm	40"	100"	150"	200"	300"
4:3 aspect ratio	610 x 457	2032 x 1524	3048 x 2286	4064 x 3048	6096 x 4572
Zoom (max.)	4.3'(1.30 m)	10.9' (3.34 m)	16.5' (5.03 m)	22.1' (6.73 m)	33.1'(10.11 m)
Zoom (min.)	7.4'(2.26 m)	18.7' (5.71 m)	28.2' (8.59 m)	37.6' (11.47 m)	56.5' (17.23 m)

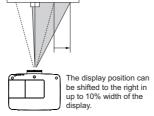
Lens Shift Adjustment

Projection lens can be moved from side to side and up and down with the motor-driven lens shift function. This function makes the positioning of images easy on the screen. (See page 27)

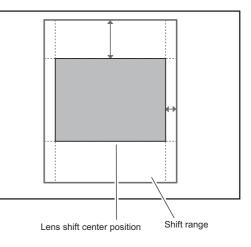








Lens shift adjustable range



When the lens is shifted to leftmost. When the lens is shifted to rightmost.

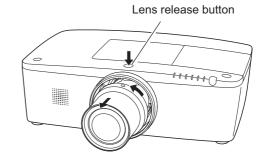
Installation

Lens Installation

When replacing the lens or using an optional lens, install the lens by following the instructions below. Ask the sales dealer for detailed information of the optional lens specifications.

Removing the lens

- **1** Shift the lens to the center position by using the Lens shift function (p.27).
- **2** Turn off the projector and unplug the AC power cord.
- **3** While pressing the Lens release button on the top of the cabinet, turn the lens counterclockwise until it stops and pull it out slowly from the projector.





CAUTION

Be careful when handling the lens. Do not drop.

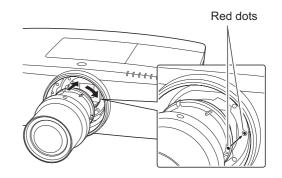
Attaching the lens to the projector

- Remove the lens mount cover.
- 2 Fit the lens to the projector by aligning the red dot on the lens with the red dot of the projector.
- **3** Slowly turn the lens clockwise until it clicks. Make sure that the lens is fully inserted to the projector.



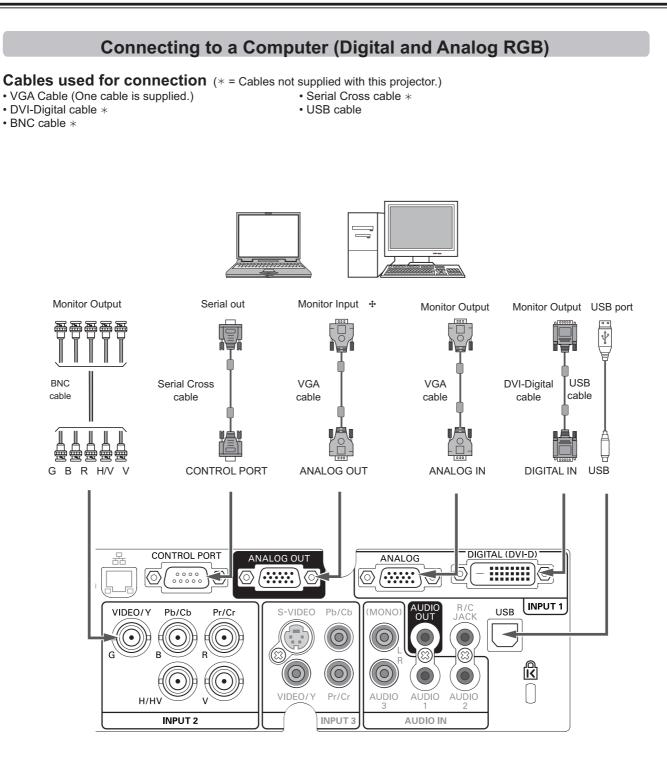
CAUTION

Do not press the lens release button when attaching the lens.



NOTES ON LENS INSTALLATION

- Do not touch or remove any parts except the lens and related parts. It may result in malfunctions, electrical shock, fire hazard or other accidents.
- Before installing or replacing the lens, check that the Model No. of the Projection Lens matches to the projector.
- For details of the lens and installation, contact the sales dealer where you purchased the projector.





Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

✤ See the next page for the signals that can output to the ANALOG OUT terminal.

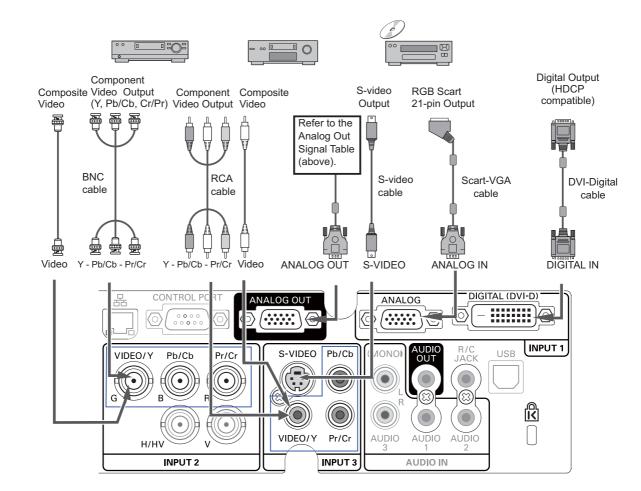
Connecting to Video Equipment (Video, S-video)

Cables used for connection (* = Cables not supplied with this projector.)

• Video cable (RCA x 1 or RCA x 3) *

• BNC cable (BNC x 1 or BNC x 3) *

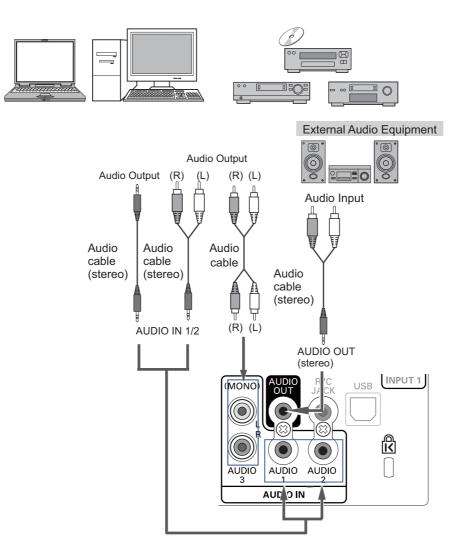
- S-video cable *
- Scart-VGA cable *
- DVI-Digital cable *
- Analog Out Signal Table Input Terminal Monitor Out Cable RGB (PC analog) YES D-sub15 RGB (SCART) NO Input 1 RGB (PC digital) NO DVI-D RGB (AV HDCP) NO RGB YES Input 2 5 BNC Video YES * Y, Pb/Cb, Pr/Cr YES * RCA Y, Pb/Cb, Pr/Cr YES * Input 3 S-video S-video NO Video YES * Video NO Network
- A cable with one end D-sub 15 and the other end (Black box) compatible with each equipment is necessary.



Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

Connecting for Audio Signal

Cables used for connection (* = Cables not supplied with this projector.) \bullet Audio cable *





Unplug the power cords of both the projector and external equipment from the AC outlet before connecting cables.

Installation

Connecting the AC Power Cord

This projector uses nominal input voltages of 100–120 V or 200– 240 V AC and it automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system.

If you are not sure of the type of power being supplied, consult your authorized dealer or service station.

Connect the projector with all peripheral equipment before turning on the projector.

The AC outlet must be near this equipment and must be easily accessible.

✓ Note:

Unplug the AC power cord when the projector is not in use. When the projector is connected to an outlet with AC power cord, it is in stand-by mode and consumes a little electric power.



Connect the AC power cord (supplied) to the projector.

NOTE ON THE POWER CORD AC power cord must meet the requirements of the country where you use the projector. Confirm the AC plug type with the chart below and proper AC power cord must be used. If the supplied AC power cord does not match your AC outlet, contact your sales dealer. **Projector side** AC Outlet side For the U.S.A. and Canada For the U.K. **For Continental Europe** Ground To POWER CORD CONNECTOR on your To the AC Outlet. To the AC Outlet. To the AC Outlet. (200-240 V AC) projector. (120 V AC) (200-240 V AC)

Turning On the Projector

- **1** Complete peripheral connections (with a computer, VCR, etc.) before turning on the projector.
- 2 Connect the projector's AC power cord into an AC outlet. The LAMP indicator lights red and the POWER indicator lights green.
- Press the ON/STAND-BY button on the side control or the ON button on the remote control. The LAMP indicator dims and the cooling fans start to operate. The preparation display appears on the screen and the countdown starts.
- 4 After the countdown, the input source that was selected the last time and the Lamp control status icon (see page 55) appear on the screen.

If the projector is locked with a PIN code, PIN code input dialog box will appear.

√Note:

- When the Logo select function is set to **Off**, the logo will not be shown on the screen (p.52).
- When **Countdown off** or **Off** is selected in the Display function, the countdown will not be shown on the screen (p.52).
- When the Input button function is set to **Mode 3**, the input signal will be searched automatically (p.51).
- If you press the ON/STAND-BY button on the side control or the remote control during the countdown period, you can skip the countdown and go to the normal operations.

Enter a PIN code

Use the Point $\blacktriangle \lor$ buttons on the side control or Number buttons on the remote control to enter a number.

When using side control

Use the Point $\blacktriangle \lor$ buttons on the side control to select a number. Press the Point \blacktriangleright button to fix the number and move the red frame pointer to the next box. The number changes to *. Repeat this step to complete entering a four-digit number. After entering the four-digit number, move the pointer to "Set". Press the SELECT button so that you can start to operate the projector.

When using remote control

Press the Number buttons on the remote control to enter a number (p.14). When you complete entering a four-digit number, the pointer moves to "Set". Press the SELECT button so that you can start to operate the projector.

If you fixed an incorrect number, use the Point \blacktriangleleft button to move the pointer to the number you want to correct, and then enter the correct number.

If you entered an incorrect PIN code, "PIN code" and the number (****) will turn red for a moment. Enter the correct PIN code all over again.



The preparation display will disappear after 30 seconds.

Selected Input Source and Lamp control

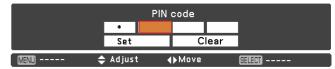


(See page 55 for Lamp control status.)

√Note:

- The Lamp replacement icon and the Filter replacement or the Filter cartridge replacement icon may appear on the screen depending on the usage state of the projector.
- When the filter cartridge replacement icon keeps appearing on the screen at turning on the projector for some time and no action is taken to replace the filter cartridge, the projector will be automatically shut down in 3 minutes after turning on to protect the projector. (pp. 63-65, 78)

PIN Code Input Dialog Box



ОК

After the OK icon disappears, you can operate the projector.

√Note:

- If the PIN code number is not entered within three minutes after the PIN code dialog box appeared, the projector will be turned off automatically.
- The "1234" is set as the initial PIN code at the factory.

Basic Operation

What is PIN code?

PIN (Personal Identification Number) code is a security code that allows the person who knows it to operate the projector. Setting a PIN code prevents unauthorized use of the projector.

A PIN code consists of a four-digit number. Refer to the PIN code lock function in the Setting Menu on page 59-60 for locking operation of the projector with your PIN code.



CAUTION ON HANDLING PIN CODE

If you forget your PIN code, the projector can no longer be started. Take a special care in setting a new PIN code; write down the number in a column on page 84 of this manual and keep it on hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

Turning Off the Projector

- Press the ON/STAND-BY button on the side control or the STAND-BY button on the remote control, and Power off? appears on the screen.
- Press the ON/STAND-BY button on the side control or the STAND-BY button on the remote control again to turn off the projector. The LAMP indicator lights bright and the POWER indicator turns off. After the projector is turned off, the cooling fans operate for 90 seconds. You cannot turn on the projector during this cooling down period.
- 3 When the projector has cooled down enough, the POWER indicator lights green and then you can turn on the projector. To unplug the AC power cord, wait until the projector is completely cooled down.



TO MAINTAIN THE LIFE OF THE LAMP, ONCE YOU TURN THE PROJECTOR ON, WAIT AT LEAST FIVE MINUTES BEFORE TURNING IT OFF. DO NOT UNPLUG THE AC POWER CORD WHILE COOLING FANS ARE RUNNING OR BEFORE THE POWER INDICATOR LIGHTS GREEN AGAIN. OTHERWISE IT WILL RESULT IN SHORTENING OF THE LAMP LIFE.



DO NOT OPERATE THE PROJECTOR CONTINUOUSLY WITHOUT REST. CONTINUOUS USE MAY RESULT IN SHORTENING THE LAMP LIFE. TURN OFF THE PROJECTOR AND LET STAND FOR ABOUT AN HOUR IN EVERY 24 HOURS.



Power off? disappears after 4 seconds.

√Note:

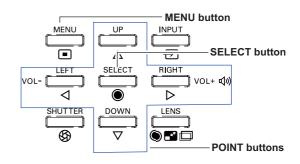
- When the On start function is set to **On**, the projector will be turned on automatically by connecting the AC power cord to an AC outlet (p.58).
- The running speed of cooling fans is changed according to the temperature inside the projector.
- Do not put the projector in a case before the projector is cooled enough.
- If the WARNING TEMP. indicator blinks red, see "Warning Indicators" on page 69.
- The projector cannot be turned on during the cooling period with the POWER indicator turned off. You can turn it on again after the POWER indicator becomes green again.

How to Operate the On-Screen Menu

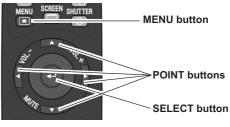
The projector can be adjusted or set via the On-Screen Menu. The menus have a hierarchical structure, with a main menu that is divided into submenus, which are further divided into other submenus. For each adjustment and setting procedure, refer to respective sections in this manual.

- **1** Press the MENU button on the side control or the remote control to display the On-Screen Menu.
- 2 Use the Point ▲ ▼ buttons to highlight or select a main menu item. Press the Point ► or the SELECT button to access the submenu items. (The selected item is highlighted in orange.)
- 3 Use the Point ▲▼ buttons to select the desired submenu item and press the SELECT button to set or access the selected item.
- 4 Use the Point ▲▼ ◀► buttons to adjust the setting or switch between each option and press the SELECT button to activate it and return to the submenu.
- **5** Press the Point ◄ button to return to the main menu. Press the MENU button to exit the On-Screen Menu.

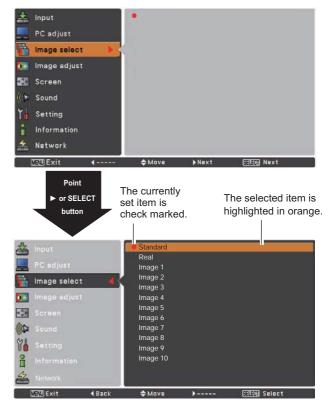
Side Control



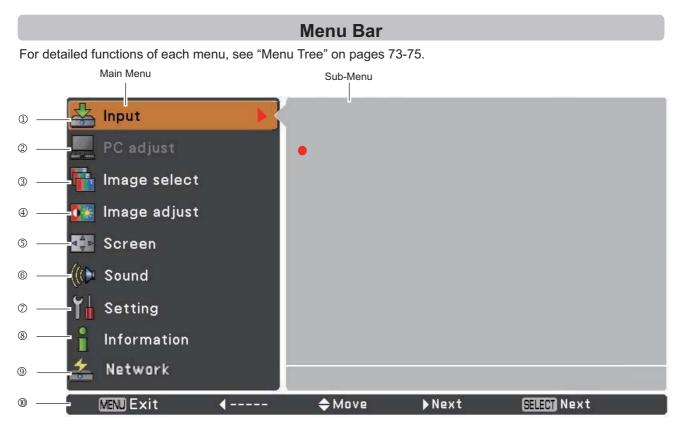
Remote Control



On-Screen Menu



Basic Operation



① Input

Used to select an input source (Input 1, Input 2, Input 3 or Network) (p.33).

Note: Network will be not displayed when optional PJ-Net Organizer is not attached.

② PC adjust

Used to adjust the parameters to match with the input signal format (pp.37-39).

③ Image select

For computer source, used to select an image level among **Standard**, **Real**, and **Image 1-10** (p.40). For Video source, used to select an image level among **Standard**, **Cinema**, and **Image 1-10** (p.46).

④ Image adjust

For computer source, used to adjust the computer image. [Contrast/Brightness/Color temp./White balance (R/G/B)/ Offset(R/G/B)/Sharpness/Gamma/Reset/Store] (pp.41-42).

For Video source, used to adjust the video image. [Contrast/Brightness/Color/Tint/Color temp./White balance (R/G/B)/Offset (R/G/B)/Sharpness/Gamma/Noise Reduction/Progressive/Reset/Store] (pp.47-48).

5 Screen

For computer source, used to adjust the size of the image. [Normal/True/Wide/Full/Custom/Digital zoom +/-/Keystone/ Ceiling/Rear/Reset] (pp.42-44).

For Video source, used to adjust the size of the image. [Normal/Wide/Custom/Keystone/Ceiling/Rear/Reset] (pp. 49-50).

6 Sound

Used to adjust the volume or mute the sound (p.28).

⑦ Setting

Used to set the projector's operating configurations (pp.51-62).

Information

Display the input source information: Input, H-sync freq., V-sync freq., Screen, Language, Lamp status, Lamp counter, Filter counter, Power management, Key lock, PIN code lock, Shutter management, Simple mode, Remote control, and SERIAL NO. (p.29).

9 Network

See the owner's manual of "Network Set-up and Operation".

10 Guide

The key operation is displayed.

Operating with Projector Control

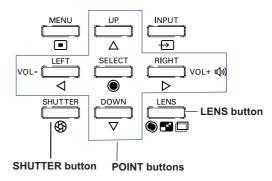
Lens Operation

The following lens operation can be made with the Lens button on the side control.

Press the LENS button to enter each lens operation mode. The selected adjustment display appears on the screen.

 $\mathsf{Zoom} \to \mathsf{Focus} \to \mathsf{Lens}\ \mathsf{Shift} \to \cdots \cdots$

Side Control



Zoom

Zoom Adjustment

Display **Zoom** on the screen. Use the Point $\blacktriangle \lor$ buttons to zoom in and out the image.

Focus Adjustment

Display **Focus** on the screen. Use the Point $\blacktriangle \nabla$ buttons to adjust focus of the image.

Lens Shift Adjustment

Display Lens shift on the screen. Use the Point $\blacktriangle \lor \blacktriangleleft \triangleright$ buttons to position the screen to the desired point without having picture distortion.

The screen can be moved up or down to 50 percent, or sideways up to 10 percent from the central axis of the lens shift.

Press and hold the LENS SHIFT button for more than 5 seconds to return to the central position.

✓ Note:

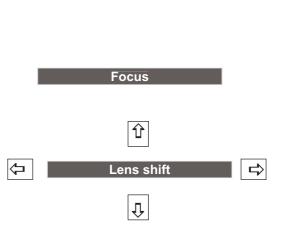
- The arrow disappears at the maximum lens shift in each direction.
- The arrow turns red when the lens shift comes to the center position of the screen.

Shutter Function

Shutter function allows you to completely block out light to the screen. Press the SHUTTER button to close the shutter inside the projector. To open up the shutter, press the SHUTTER button again. Refer to p.61 for detail of setting for the Shutter function.

✓ Note:

- The SHUTTER button on the side control and the remote control cannot be effective when Shutter Protection is **On** in the Setting menu. (p.61)
- The SHUTTER indicator on the projector's top lights blue when the shutter is closed. (p.12)
- The projector will shut down automatically when the set time on shutter management has passed. (p.61)
- The Power management function does not work when the shutter is closed. (p.57)



Sound Adjustment

Direct Operation

Volume

Press the VOLUME+/– buttons on the side control or on the remote control to adjust the volume. The volume dialog box appears on the screen for a few seconds.

Mute

Press the MUTE (Point $\mathbf{\nabla}$) button on the remote control to select **On** to temporarily turn off the sound. To turn the sound back on, press the MUTE (Point $\mathbf{\nabla}$) button again to select **Off** or press the VOLUME +/– buttons. The Mute function is also effective for the AUDIO OUT jack.

Menu Operation

- Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Sound. Press the Point ► or the SELECT button to access the submenu items.
- 2 Use the Point ▲▼ buttons to select the desired submenu item and press the SELECT button to access the selected item.

Volume

Press the Point \blacktriangle button to turn up the volume; press the Point \blacktriangledown button to turn down the volume.

Built-in SP

Press the Point $\blacktriangle \lor$ buttons to switch the Built-in SP function **On**/**Off**. When the Built-in SP sound is turned off, **Off** is displayed.

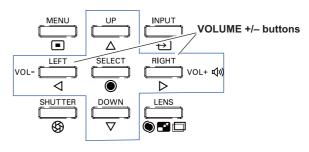
Mute

Press the SELECT button to switch the mute function **On/Off**. When the sound is turned off, **On** is displayed. Press the VOLUME +/– buttons again to turn the sound back on.

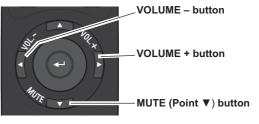
√Note:

Sound function can not be operated via the remote control or the Screen Menu, when **Nework** is selected in Input Menu.

Side Control



Remote Control



Volume Dialog Box

Approximate level of the volume.



Press the Point ▼ button to set the Mute function **On** or **Off**. The dialog box disappears after 4 seconds.

Sound Menu



Operating with Remote Control

Using the remote control for some frequently used operations is advisable. Just pressing one of the buttons enables you to make the desired operation quickly without calling up the On-Screen Menu.

AUTO PC button

Press the AUTO PC button on the remote control to operate the Auto PC adj. function. The computer screen adjustment can be done easily by pressing this button. See page 37 for details.

SCREEN button

Press the SCREEN button on the remote control to select the desired screen size. The selected screen size symbol appears on the screen for 4 seconds. See pages 42 to 44 and 49 to 50 for details. Press and hold the SCREEN button for more than 5 seconds to return all the screen size adjustment setting to the factory default setting.

SHUTTER button

See page 27 for details.

D.ZOOM button

Press the D.ZOOM button on the remote control to enter to the Digital zoom +/– mode. See page 43 for details.

LENS SHIFT button

See page 27 for details.

ZOOM buttons

Press the ZOOM buttons on the remote control to zoom in and out the image.

FOCUS buttons

Press the FOCUS buttons on the remote control to adjust focus of the image.

INFO. button

Information display can be used to confirm the current operating condition of the projector and the signal being projected through the projector.

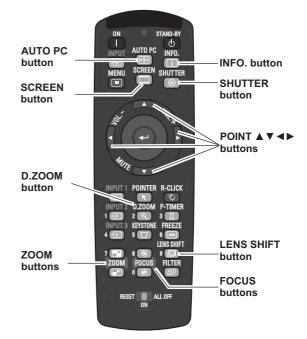
Press the INFO. button on the remote control to display the information window on the screen. To hide the information window, press the INFO. button again.

The information window can also be selected from the menu.

✓ Note:

- The H-sync freq. and V-sync freq. values described in the figure may be different from the actual values.
- SERIAL NO. is used to service the projector.

Remote Control



 Note: See the next page for the description of other buttons.

Information Menu

0	EVU Exit	(Move	b	[EELEO]
*					
	Information	>			50/
Y 🕴	Setting				
(61 :	Sound				
	Screen				Ŷ
010	lmage adjust				
1	lmage select				
	PC adjust				
📥 I	Input				

MOUSE POINTER button

Move the pointer on the screen with this button.

POINTER button

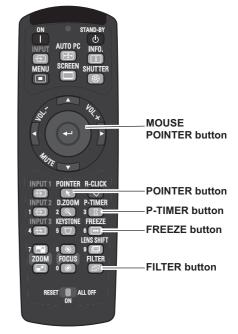
Press POINTER button on the remote control to display the Pointer on the screen.

P-TIMER button

Press the P-TIMER button on the remote control to operate the Count up/Count down function. Refer to p.58 for detail of Setting for the P-timer function.

To stop the count time, press the P-TIMER button. To cancel the P-timer function, press and hold the P-TIMER button.

Remote Control



√ Note:

See the previous page for the description of other buttons.

FREEZE button

Press the FREEZE button on the remote control to freeze the picture on the screen. To cancel the FREEZE function, press the FREEZE button again or press any other button. Fig.1 will appear when the Freeze function is working.





FILTER button

Press and hold the FILTER button for more than five seconds to operate electrically operated filter to replace the filter.

✓ Note:

- The filter cannot be rewound.
- When the filter is replaced, the total accumulated time of the filter use is automatically set to **0**.

Keystone Correction

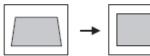
If a projected picture still has keystone distortion after pressing the AUTO PC button on the remote control, correct the image manually as follows:

Press the KEYSTONE button on the remote control to switch the Standard (for Vertical/Horizontal) /Corner correction adjustment. The Standard or Corner correction adjustment dialog box appears. Use the Point $\blacktriangle \lor \checkmark \lor$ buttons to correct the Standard or Corner distortion. The Standard or Corner correction adjustment can be stored (see pages 44, 50).

Standard



Reduce the lower width with the Point ▼ button.

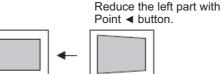




Reduce the upper width

Reduce the right part

with Point ► button.

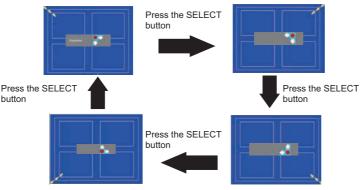


Corner correction

Press the KEYSTONE button on the remote control to switch Corner correction adjustment, press the SELECT button on the remote control to select the corner you want to adjust.

Reduce the top left corner part with the Point $\triangleright \nabla$ buttons.

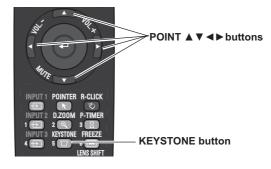
Reduce the top right corner part with the Point **◄** ♥ buttons.



Reduce the bottom left corner part with the Point $\blacktriangleright \blacktriangle$ buttons.

Reduce the bottom right corner part with the Point ◀▲ buttons.

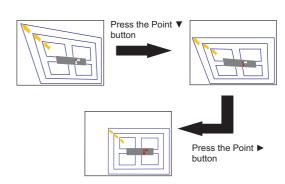
Remote Control



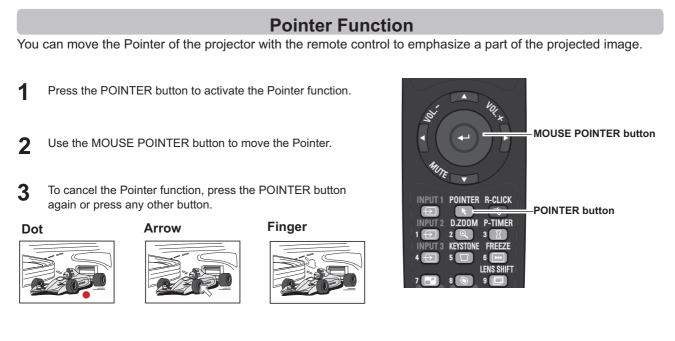
√Note:

- The white arrows indicate that there is no correction.
- A red arrow indicates the direction of correction.
- An arrow disappears at the maximum correction.
- If you press and hold the KEYSTONE button for more than 3 seconds while the Standard or Corner correction dialog box is being displayed, the Standard or Corner correction adjustment will be released.
- The Corner pattern can be set to **Off**, **Red**, **White** or **Blue** in the Corner pattern function. See "Keystone" on pages 44, 50.
- The adjustable range is limited depending on the input signal.
- Standard and Corner correction functions cannot be adjusted at the same time. If one of the fuctions is adjusted, and then the other one will be reset automatically.

The top left corner adjustment as an example:



Basic Operation



✓ Note:

You can choose the pattern of Pointer (Arrow/Finger/Dot) in the Setting Menu (p.58)

Wireless Mouse Operation

The remote control can be used as a wireless mouse for your computer.

- Before operating the wireless mouse, connect your computer and the projector with the supplied USB cable (p.19). When the Pointer function is used, the wireless mouse is not available.
- 2 When a USB cable is connected to the computer and the projector, turn on the projector first, then the computer. If you turn on the computer first, the wireless mouse function may not operate properly.



MOUSE POINTER button

Move the pointer on the screen with this button.

R-CLICK button

Acts as right (click) mouse button while the projector and a computer are connected with a USB cable.



L-CLICK button

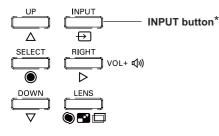
Acts as left (click) mouse button while the projector and a computer are connected with a USB cable.

Input Selection

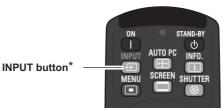
Direct Operation

Side Control/Remote Control Operation

Side Control



Remote Control



* Only the Input button function is set **Mode 1** in the Setting menu, the INPUT button is used for switching input source.

The input source changes each time you press the INPUT button on the side control or the remote control as follows: Input $1 \rightarrow$ Input $2 \rightarrow$ Input $3 \rightarrow ...$

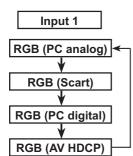
Before using the INPUT button on the side control or the remote control, you must select a correct input source by On-Screen Menu and the latest input source will be displayed.

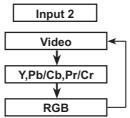
Remote Control Operation

Press the INPUT 1, INPUT 2, or INPUT 3 button on the remote control. The input source appears on the screen as you press each button. Select the connected input source.

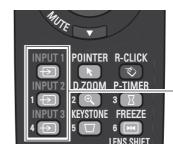
INPUT 1 button

INPUT 2 button



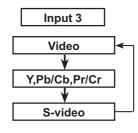


Remote Control



INPUT buttons

INPUT 3 button



Input Selection

Computer Input Source Selection

Menu Operation

- Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Input and then press the Point ► or the SELECT button.
- 2 Use the Point ▲ ▼ buttons to select the desired input and then press the Point ► button to access the submenu items.
- 3 Use the Point ▲ ▼ buttons to select the desired source and then press the SELECT button.

INPUT MENU



WHEN SELECTING INPUT 1 (COMPUTER INPUT TERMINALS)

RGB(PC analog)

When your computer is connected to the INPUT 1 (ANALOG) terminal, select **RGB (PC analog)**.

RGB(PC digital)

When your computer is connected to INPUT 1 (DIGITAL) terminal, select **RGB(PC digital)**.

✓ Note:

- Input source changes if the INPUT 1 button on the remote control is pressed.
- HDCP (High-bandwidth Digital Content Protection) is a system for protecting digital entertainment content which is delivered by DVI (Digital Visual Interface) from being copied. The specification of HDCP is decided and controlled by Digital Content Protection, LLC. Should the specification be changed, this projector may not display the digital content protected by HDCP.

(WHEN SELECTING INPUT 2 (5 BNC INPUT JACKS))

When connecting the computer output [5 BNC Type (Green, Blue, Red, Horiz. Sync, and Vert. Sync.)] from the computer to G, B, R, H/HV, and V jacks:

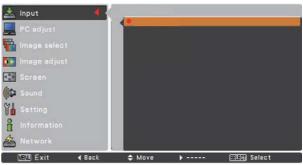


When your computer is connected to the INPUT 2 (5 BNC INPUT JACKS) terminal, select **RGB**.

INPUT 1 MENU

MENUExit

22



System

♠ Move

SVGA 1

SELENT Select

INPUT 2 MENU



Video Input Source Selection

Menu Operation

- Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Input and then press the Point ► or the SELECT button.
- 2 Use the Point ▲ ▼ buttons to select the desired input and then press the Point ► button to access the submenu items.
- 3 Use the Point ▲ ▼ buttons to select the desired source and then press the SELECT button.

WHEN SELECTING INPUT 1 (COMPUTER INPUT TERMINALS)

When connecting to video equipment, select the type of Video source in the Source Select Menu.

RGB(Scart)

When scart video equipment is connected to the INPUT 1 (ANALOG) terminal, select **RGB (Scart)**.

RGB(AV HDCP)

If the HDCP-compatible signal source is connected to the INPUT 1 (DIGITAL) terminal, select **RGB (AV HDCP)**.

WHEN SELECTING INPUT 2 (5 BNC INPUT JACKS)

When connecting to video equipment, select the type of Video source in the Source Select Menu.



When the video input signal is connected to the VIDEO jack, select **Video**.



When the video input signal is connected to the Y-Pb/Cb-Pr/Cr jacks, select **Y,Pb/Cb,Pr/Cr**.

- ✓ Note:
- When the video input signal is connected to the Y-Pb/Cb-Pr/Cr jacks, Y,Pb/Cb,Pr/Cr takes precedence of RGB.
- Y,Pb/Cb,Pr/Cr input can accept the component signal and the analog RGB signal. When analog RGB signal is not recognized in Y,Pb/Cb,Pr/ Cr input source, set to RGB input manually.

WHEN SELECTING INPUT 3 (AV TERMINALS)

When connecting to video equipment, select the type of Video source in the Source Select Menu.

When the video input signal is connected to the VIDEO jack, select **Video**.

When the video input signal is connected to the



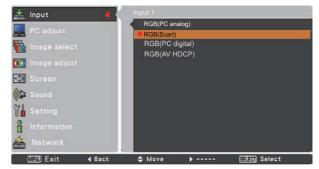
Video

S-video

Y-Pb/Cb-Pr/Cr jacks, select **Y,Pb/Cb,Pr/Cr**. When the video input signal is connected to the

S-VIDEO jack, select S-video.

INPUT 1 MENU



INPUT 2 MENU



INPUT 3 MENU

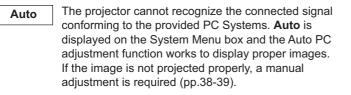


Computer System Selection

Automatic Multi-Scan System

This projector automatically tunes to various types of computers with its Multi-scan system and Auto PC adjustment. If a computer is selected as a signal source, this projector automatically detects the signal format and tunes to project a proper image without any additional settings. (Signal formats provided in this projector are shown on pages 79-80)

One of the following messages may appear when:

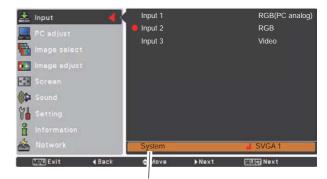


There is no signal input from the computer. Check the connection between your computer and the projector. (See "Troubleshooting" on pp.70-72.)

Mode 1 The preset system is manually adjusted in the PC adjust Menu. The adjusted data can be stored in Mode 1-10 (pp.38-39).

SVGA 1 PC Systems provided in this projector is chosen. The projector chooses a proper system provided in the projector and displays it.

PC System Menu



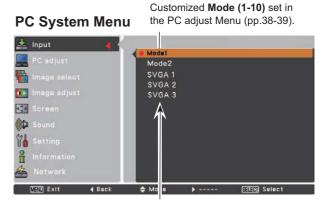
The PC System Menu Selected system is displayed.

*Mode 1 and SVGA 1 are examples.

Selecting Computer System Manually

PC system can also be selected manually.

- Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Input and then press the Point ► or the SELECT button.
- 2 Use the Point ▲ ▼ buttons to select **Systerm** and then press the Point ► or the SELECT button.
- 3 Use the Point ▲ ▼ buttons to select the desired system and then press the SELECT button.



Systems in this dialog box can be selected.

Auto PC Adjustment

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots, Position H and Position V positions to conform to your computer.

Direct Operation

The Auto PC adjustment function can be operated directly by pressing the AUTO PC button on the remote control.

Remote Control



AUTO PC button

Menu Operation

Auto PC adj.

- Press the MENU button to display the On-Screen Menu. Use 1 the Point ▲ ▼ buttons to select PC adjust and then press the Point ► or the SELECT button.
- Use the Point ▲ ▼ buttons to select Auto PC adj. and then 2 press the SELECT button.

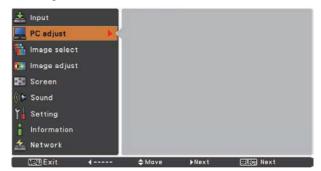
To store the adjusted parameters.

The adjusted parameters from the Auto PC Adjustment can be stored in the projector. Once the parameters are stored, the setting can be done just by selecting Mode in PC SYSTEM Menu (p.36). See "Manual PC Adjustment" on pages 38-39.

✓ Note:

- Fine sync, Total dots, Position H and Position V position of certain computers cannot be fully adjusted with the Auto PC Adjustment function. When the image is not provided properly with this operation, manual adjustments are required. (pp.38-39)
- Auto PC Adjustment cannot be operated in Digital Signal Input on the DVI terminal and 480p, 575p, 480i, 575i, 720p, 1035i, 1080i or 1080p is selected on the PC SYSTEM Menu.
- · Depending on the condition of signals and the type and length of cables, the signals may not be properly viewed.

PC adjust Menu



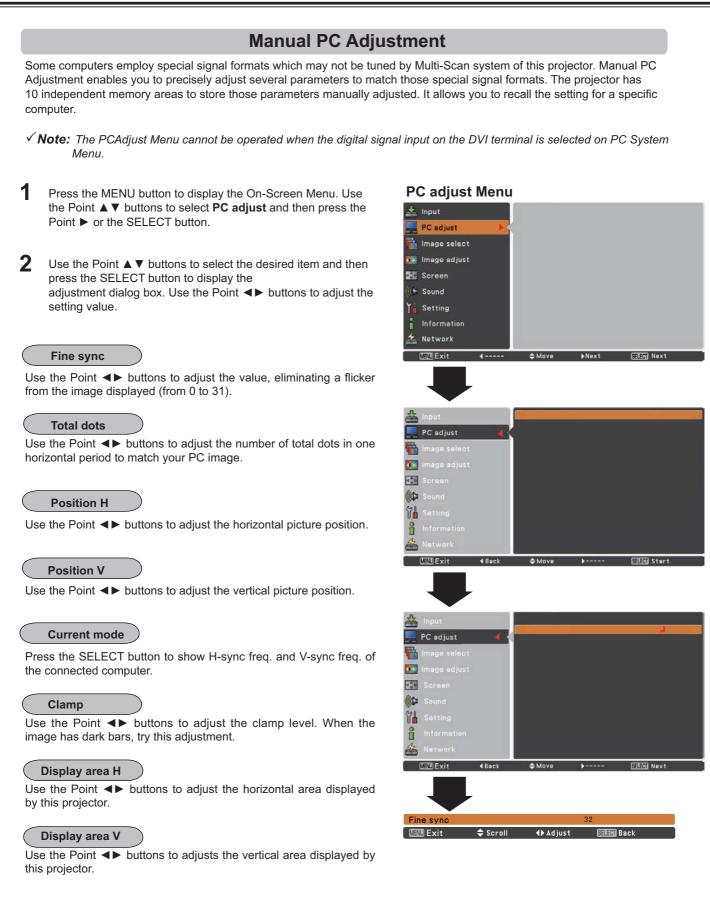


Use the Point ▲ ▼ buttons to select Auto PC adj. and press the SELECT button. Please wait ... appears while the Auto PC adjustment is in process.

	MEND Exit	4 Back	Move	•	Start Start	
2						
ŭ						
-			Store			
Gall			Mode free			
Rep			Reset			,
-0-			Display area H Display area V			1024 768
0 *			Clamp			
-			Current mode			
В.			Position H Position V			0 0
	PC adjust	4 {	Total dots			1366
			Fine sync			0
32			Auto PC adj.			

1

Computer Input



Reset

To reset the adjusted data, select **Reset** and press the SELECT button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

Mode free

To clear the stored data, select **Mode free** and then press the Point ▶ or the SELECT button. Move the highlight to the Mode that you want to clear and then press the SELECT button.

Store

To store the adjusted data, select **Store** and then press the Point ▶ or the SELECT button. Move the highlight to one of the Modes 1 to 10 in which you want to store, and then press the SELECT button.

Mode free Auto PC adj Fine sync Total dots Position H h 0* Clamp Display area H -0-Display area V 768 10 YH ĥ MENUEXIT 4 Back \$ Move SELEN Next This mode has stored parameters. Stored 0 -D YH ů MENU Exit 4 Back \$ Mov Sales Selec Values of Total dots, Position H, Press the SELECT Position V, Display area H and button to clear the stored data. Display area V. Store Vacant PC adjust 0* 400

\$ Move

)-----

store the data.

SELEN Select

Press the SELECT button to

Hack

Press the MENU button

to close this dialog box.

Setting Informat

√Note:

- Display area (H/V) cannot be selected when 480i, 575i, 480p, 575p, 720p, 1035i or 1080i is selected in the PC System Menu (p.36).
- When input computer signal to the projector, PC adjust function will become available.

Computer Input

Image Level Selection

Menu Operation

- Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Image select and then press the Point ► or the SELECT button.
- 2 Use the Point ▲▼ buttons to select the desired item and then press the SELECT button.

Standard

Normal picture level preset on the projector.

Real

Picture level with improved halftone for graphics.

Image 1–10

User preset picture adjustment in the Image adjust Menu. (p.42)

Image select Menu

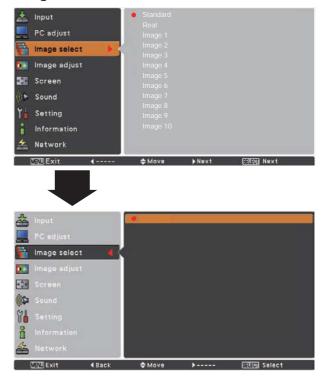


Image Adjustment

- Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Image adjust and then press the Point ► or the SELECT button.
- 2 Use the Point ▲▼ buttons to select the desired item and then press the SELECT button to display the adjustment dialog box. Use the Point ◄► buttons to adjust the setting value.

Contrast

Press the Point ◀ button to decrease the contrast; press the Point ▶ button to increase the contrast (from 0 to 63).

Brightness

Press the Point \blacktriangleleft button to decrease the brightness; press the Point \blacktriangleright button to increase the brightness (from 0 to 63).

Color temp.

Use the Point **◄**► buttons to select the desired Color temp. level (XLow, Low, Mid or High).

(White balance (Red))

Press the Point \blacktriangleleft button to lighten red tone; press the Point \blacktriangleright button to deepen red tone (from 0 to 63).

White balance (Green)

Press the Point \blacktriangleleft button to lighten green tone; press the Point \blacktriangleright button to deepen green tone (from 0 to 63).

(White balance (Blue))

Press the Point \blacktriangleleft button to lighten blue tone; press the Point \blacktriangleright button to deepen blue tone (from 0 to 63).

(Offset(Red/Green/Blue))

Press the Point ◀ button to lighten red/green/blue tone of the black level of an image; press the Point ► button to deepen red/green/ blue tone of the black level of an image.

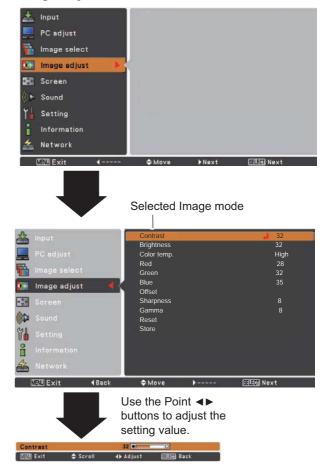
Sharpness

Press the Point \blacktriangleleft button to decrease the sharpness of the image; press the Point \blacktriangleright button to increase the sharpness of the image (from 0 to 31).

Gamma

Use the Point \triangleleft buttons to adjust the gamma value to obtain a better balance of contrast (from 0 to 15).

Image adjust Menu



✓ Note:

When White balance Red, Green or Blue is adjusted, **Color temp.** will change to **adj**..

Computer Input



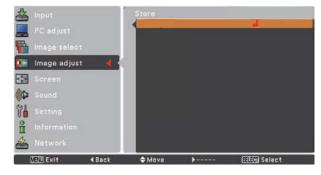
To reset the adjusted data, select **Reset** and press the SELECT button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

Store

To store the adjusted data, select **Store** and press the Point \blacktriangleright or the SELECT button. Use the Point $\blacktriangle \lor$ buttons to select one from Image 1 to 10 and press the SELECT button. A confirmation box appears and then select **Yes**. Stored data can

be called up by selecting an **Image (1–10)** in the Image Mode Selection on page 40.

Store





A confirmation box appears and then select **Yes**.

Screen Size Adjustment

Select the desired screen size that conforms to the input signal source.

- Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Screen and then press the Point ► or the SELECT button.
- **2** Use the Point $\blacktriangle \lor$ buttons select the desired item and then press the SELECT button.

Normal

Provide the image at the normal computer aspect ratio of 4:3.

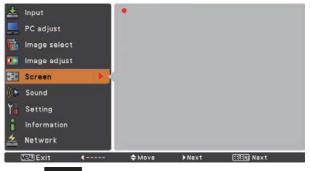


Provide the image in its original size. When the original image size is larger than the screen size (1024 x 768), the projector enters to the panning mode automatically. Use the Point $\blacktriangle \checkmark \checkmark \checkmark$ buttons to pan the image. When adjusted, the arrows will turn red. When reached to the correction limits, the arrows will disappear.

Wide

Provide the image to fit the wide video aspect ratio (16:9) by expanding the image width uniformly. This function can be used to provide the squeezed video signal at 16:9.

SCREEN MENU





√Note:

- The projector cannot display any resolution higher than 1920 x 1200. If your computer's screen resolution is higher than 1920 x 1200, lower the resolution before connecting the projector.
- The image data other than XGA (1024 x 768) is modified to fit the screen size in initial mode.
- True, Full and Digital zoom +/– cannot be selected when no signal is detected in the PC System Menu. (p.36)

Full Provides the full screen image.

Custom

Adjust the screen scale and position manually with this function. Press the Point \blacktriangleright button at **Custom** and the **Custom** is displayed on the screen, you can use the Point $\blacktriangle \lor$ buttons to choose the item you want to adjust.

Scale H/V	Adjust the Horizontal/Vertical screen scale.
H&V	When set to On , the aspect ratio is fixed.
	Scale V appears dimmed and becomes
	unavailable. Adjust Scale H, then the screen
	scale is automatically modified based on the
	aspect ratio.
Position H/V	Adjust the Horizontal/Vertical screen position.
Common	Save the adjusted scale to all the inputs.
	Press the SELECT button at Common to
	display a confirmation box. To save the scale,
	press the SELECT button at Yes. When
	Custom is selected, the saved scale is used.
Reset	Reset the all adjusted values. Press the
	SELECT button at Reset to display a
	confirmation box. To reset, press the SELECT
	button at Yes .

Digital zoom +

Select **Digital zoom +**. The On-Screen Menu disappears and **D**. **zoom +** appears. Press the SELECT button to expand the image size. Use the Point $\blacktriangle \lor \blacktriangleleft \triangleright$ buttons to pan the image. The Panning function can work only when the image is larger than the screen size.

A projected image can be also expanded by pressing the D.ZOOM button on the remote control.

Digital zoom -

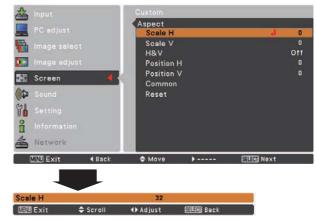
Select **Digital zoom** – . The On-Screen Menu disappears and **D. zoom** – appears. Press the SELECT button to compress image size.

The projected image can be also compressed by pressing the D.ZOOM button on the remote control.

To exit the Digital zoom +/– mode, press any button except the D.ZOOM button, SELECT and Point buttons.

To return to the previous screen size, select a screen size from the Screen Size Adjustment Menu or select an input source from the Input Source Selection Menu (see pages 33-35) again or adjust the screen size with the D.ZOOM button.

Custom



√Note:

- When no signal is detected, **Normal** is set automatically and the Aspect dialog box disappears.
- The adjustable range for **Scale H/V** and **Position H/V** is limited depending on the input signal.

√Note:

- The panning function may not operate properly if the stored Mode in the PC adjust Menu is used (p.39).
- The minimum compression ratio is limited depending on the input signal, when the Keystone function is working or when the custom is selected for the screen size.
- True, Full and Digital zoom +/– cannot be selected when 480i, 575i, 480p or 575p is selected in the PC System Menu (p.36).
- Digital zoom +/- cannot be selected when Full or True is selected.
- Digital zoom cannot be operated when Custom is selected.

Computer Input

Keystone

This function is used to adjust keystone distortion of the projected image. Use the Point $\blacktriangle \blacksquare$ buttons to choose the item you want to adjust.

Standard

Adjust the Horizontal/Vertical keystone distortion of the projected image.

Corner correction

Adjust the corner distortion of the projected image.

Corner pattern

Choose a Corner pattern mode among ${\bf Red}, {\bf White}, {\bf Blue},$ and ${\bf Off}.$

Store

- Store Keep the keystone correction even when the AC power cord is unplugged.
- Reset Release the keystone correction when the AC power cord is unplugged.

Press the KEYSTONE button on the remote control to switch the Standard (for Vertical/Horizontal) /Corner correction adjustment. The Standard or Corner correction adjustment dialog box appears. Use the Point ▲ ▼ ◀► buttons to correct the Standard or Corner distortion. (p.31)

Ceiling

When this function is set to **On**, the picture will be top/bottom and left/right reversed. This function is used to project the image from a ceiling-mounted projector.

Rear

When this function is set to **On**, the picture will be left/right reversed. This function is used to project the image from rear of the screen.

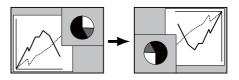
Reset

This function returns all adjusted values to the factory default settings. Press the SELECT button at **Reset** to display a confirmation box. To reset, press the SELECT button at "Yes."

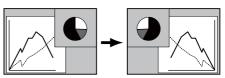
Keystone



Ceiling



Rear



Video System Selection

- Press the MENU button to display the On-Screen Menu. Use the Point ▲▼ buttons to select Input and then press the Point ► or the SELECT button.
- 2 Use the Point ▲ ▼ buttons to select Video, S-video or Computer 1(Component) and then press the SELECT button.
- 3 Use the Point ▲ ▼ buttons to select **System** and then press the Point ► or the SELECT button. Use the Point ▲ ▼ buttons to select the desired system and then press the SELECT button.

AV System Menu (Video or S-video)



Video Jack or S-video Jack

Auto

The projector automatically detects an incoming video system, and adjusts itself to optimize its performance.

When Video System is $\ensuremath{\text{PAL-M}}$ or $\ensuremath{\text{PAL-N}}$, select the system manually.

PAL/SECAM/NTSC/NTSC4.43/PAL-M/PAL-N

If the projector cannot reproduce proper video image, select a specific broadcast signal format from among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

Y, Pb/Cb, Pr/Cr Jacks

Auto

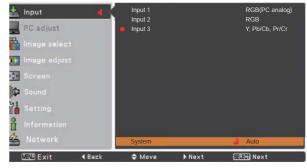
The projector automatically detects an incoming video signal, and adjusts itself to optimize its performance.

When the Video System is **1035i** or **1080i**, select the system manually.

Y, Pb/Cb, Pr/Cr SIGNAL FORMAT

If the projector cannot reproduce proper video image, select a specific component video signal format from among **480i**, **575i**, **480p**, **575p**, **720p**, **1035i**, **1080i**, **and 1080p**.

AV System Menu (Y, Pb/Cb, Pr/Cr)





√Note:

The AV System Menu cannot be selected when selecting **RGB (Scart)**.

Video Input

Image Level Selection

Menu Operation

- Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Image select and then press the Point ▶ or the SELECT button.
- 2 Use the Point ▲▼ buttons to select the desired item and then press the SELECT button.

Standard

Normal picture level preset on the projector.

Cinema

Picture level adjusted with fine tone.

Image 1–10

User preset picture adjustment in the Image adjust Menu. (p.48)

Image select Menu

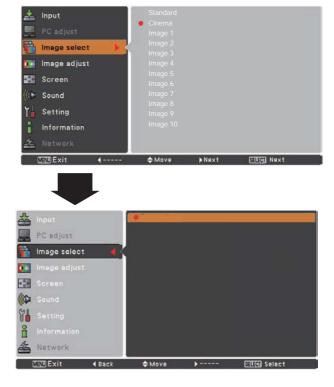


Image Adjustment Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Image adjust and then press the Point ► or the SELECT button. 📥 Input 🚡 Image select Use the Point ▲ ▼ buttons select the desired item and then 0-14 Image adjust press the SELECT button to display the adjustment dialog **1**08 Screen box. Use the Point **◄** buttons to adjust the setting value. Sound Setting Contrast Network MENU Exit Press the Point ◀ button to decrease the contrast; press the Point button to increase the contrast (from 0 to 63). **Brightness** Press the Point < button to decrease the brightness; press the PC adjust Point ► button to increase the brightness (from 0 to 63). 0** Image adjust Color 10+ 10 Press the Point ◀ button decrease the intensity of the color; press the Point ▶ button increase the intensity of the color (from 0 to 63). Y ů 22 MENU Exit Tint Press the Point ◀► buttons to adjust the tint value to get a proper color balance (from 0 to 63). ≜ Scra Color temp. Use the Point ◀► buttons to select the desired Color temp. level (XLow, Low, Mid or High). White balance (Red)

Press the Point ◀ button to lighten red tone; press the Point ► button to deepen red tone (from 0 to 63).

White balance (Green)

Press the Point ◀ button to lighten green tone; press the Point ► button to deepen green tone (from 0 to 63).

White balance (Blue)

Press the Point ◀ button to lighten blue tone; press the Point ► button to deepen blue tone (from 0 to 63).

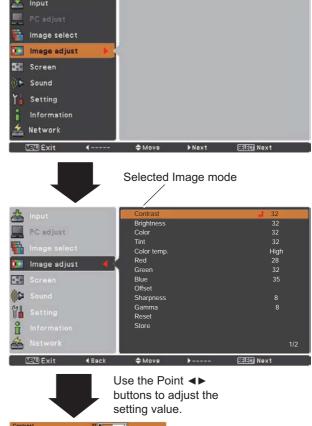
√Note:

1

2

- When White balance Red, Green or Blue is adjusted, the Color temp. level will change to Adj.
- Tint cannot be selected when the video system is PAL, SECAM, PAL-M or PAL-N (p.45).

Image adjust Menu



Video Input

Offset(Red/Green/Blue)

Press the Point ◀ button to lighten red/green/blue tone of the black level of an image; press the Point ► button to deepen red/ green/blue tone of the black level of an image (from 0 to 63).

Sharpness

Press the Point \blacktriangleleft button to decrease the sharpness of the image; press the Point \blacktriangleright button to increase the sharpness of the image (from 0 to 31).

Gamma

Use the Point $\triangleleft \triangleright$ buttons to adjust the gamma value to obtain a better balance of contrast (from 0 to 15).

Noise reduction

Noise interference on the screen can be reduced. Press the Point ◀► buttons to change the noise reduction mode.

- Off..... Noise reduction mode is Off.
- On Noise reduction mode is On.

Progressive

An interlaced video signal can be displayed in progressive mode.

Press the Point \blacktriangleleft buttons to change the progressive scan mode.

- Off Progressive scan mode is Off.
- \mathbf{On} Progressive scan mode is $\mathbf{On}.$
- Film...... For watching a film. With this function, the projector reproduces pictures faithful to the original film quality.

Reset

To reset the adjusted data, select **Reset** and press the SELECT button. A confirmation box appears and then select **Yes**. All adjustments will return to their previous figures.

Store

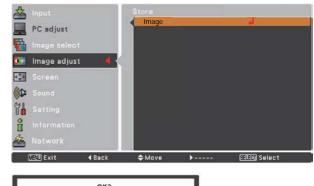
To store the adjusted data, select **Store** and press the Point \blacktriangleright or the SELECT button. Use the Point $\blacktriangle \lor$ buttons to select one from Images 1 to 10 and press the SELECT button.

A confirmation box appears and then select **Yes**. Stored data can be called up by selecting an **Image (1-10)** in the Image Mode Selection on page 46.

√Note:

- Noise reduction and Progressive cannot be selected when 480p, 575p or 720p is selected (p.45).
- Noise reduction cannot be selected when 1080p is selected (p.45).

Store



	OK?	
	Yes	
	No	
VENU Exit	\$ Move	States Select

A confirmation box appears and then select **Yes**.

Screen Size Adjustment

- Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Screen and then press the Point ► or the SELECT button
- 2 Use the Point ▲▼ buttons to select the desired item and then press the SELECT button.

Normal

Provide the image to fit the screen size while maintaining the aspect ratio of input signal.

Wide

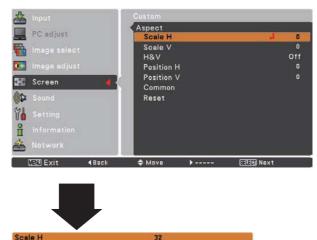
Provide the image at the 16:9 wide screen ratio.

Custom

Adjust the screen scale and position manually with this function. Press the Point \blacktriangleright button at **Custom** and the **Custom** is displayed on the screen, you can use the Point $\blacktriangle \forall$ buttons to choose the item you want to adjust.

Scale H/V H&V	Adjust the Horizontal/Vertical screen scale. When set to On , the aspect ratio is fixed. Scale V appears dimmed and becomes unavailable. Adjust the Scale H , then the screen scale is automatically modified based on the aspect ratio.
Position H/V	Adjust the Horizontal/Vertical screen position.
Common	Save the adjusted scale to all the inputs.
	Press the SELECT button at Common to
	display a confirmation box. To save the scale,
	press the SELECT button at Yes, When
	Custom is selected, the saved scale is used.
Reset	Reset the all adjusted values. Press the
	SELECT button at Reset to display a
	confirmation box. To reset, press the SELECT
	button at "Yes".

Custom



√Note:

MENU Exit

• When no signal is detected, **Normal** is set automatically and the Aspect dialog box disappears.

SILEN Back

• The adjustable range for Scale H/V and Position H/V are limited depending on the input signal.

⇔ Scroll

• Wide cannot be operated when **720***p*, **1035***i*, **1080***i* or **1080***p* is selected on AV System Menu (p.45).

Keystone

This function is used to adjust keystone distortion of the projected image. Use the Point $\blacktriangle \blacksquare$ buttons to choose the item you want to adjust.

Standard

Adjust the Horizontal/Vertical keystone distortion of the projected image.

Corner correction

Adjust the corner distortion of the projected image.

Corner pattern

Choose a Corner pattern mode among Red, White, Blue, and Off.

Store

Store Keep the keystone correction even when the AC power cord is unplugged.

Reset Release the keystone correction when the AC power cord is unplugged.

Press the KEYSTONE button on the remote control to switch the Standard (for Vertical/Horizontal) /Corner correction adjustment. The Standard or Corner correction adjustment dialog box appears. Use the Point $\blacktriangle \lor \blacktriangleleft \triangleright$ buttons to correct the Standard or Corner distortion. (p.31)

Ceiling

When this function is set to **On**, the picture will be top/bottom and left/right reversed. This function is used to project the image from a ceiling-mounted projector.

Rear

When this function is set to **On**, the picture will be left/right reversed. This function is used to project the image from rear of the screen.

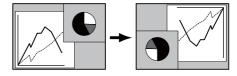
Reset

This function returns all adjusted values to the factory default settings. Press the SELECT button at **Reset** to display a confirmation box. To reset, press the SELECT button at "Yes."

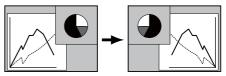
Keystone



Ceiling



Rear



Setting

This projector has a Setting menu that allows you to set up the other various functions described below.

- Press the MENU button to display the On-Screen Menu. Press the Point ▲ ▼ buttons to select Setting and press the Point ► or the SELECT button to access the submenu items.
- 2 Use the Point ▲▼ buttons to select the desired item and then press the Point ► or the SELECT button to access the selected item.
- 3 Use the Point ▲ ▼ buttons to select the desired item and then press the SELECT button.

() Language

The language used in the On-Screen Menu is available in English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Russian, Chinese, Korean and Japanese.

Menu position

This function is used to change the position of the On-Screen Menu. Select **Menu position** and press the SELECT button. The Menu position screen appears.

The Menu position changes each time you press the SELECT button as follows.

the top left \rightarrow the top right \rightarrow the center \rightarrow the bottom left \rightarrow the bottom right \rightarrow the top left \rightarrow

Input button

This function detects the input signal automatically. When a signal is found, the search will stop. Use the Point $\blacktriangle \lor$ buttons to select one of the following options.

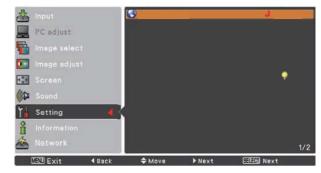
Mode 1.....Input search will not work.

- Mode 2.....Input search works under the following situation:
 When pressing the INPUT button on the side control.
 or the remote control.
- Mode 3.....Input search works under the following situation:
 - When turning on the projector by pressing the ON/ STAND-BY button on the side control or pressing the ON button on the remote control.
 - When pressing the INPUT button on the remote control or on the side control.
 - When no signal is detected.

Setting Menu



Language



√Note:

- •While **Input button** is set to **Mode 3**, and no signal is detected, if the Shutter or Freeze function is active, cancel it to activate the Input search.
- •While Input button is set to **Mode 1** or **Mode 2**, the status of Input and Lamp are displayed every time the signal is switched.
- •Only the last selected input source can be detected. •If the INPUT, INPUT 1, INPUT 2, INPUT 3, ON / STAND-BY or MENU button is pressed during Input search is in progress, Input search will stop and go back to the previous input signal.

Display

This function decides whether to display On-Screen Displays.

On	Show all the On-Screen displays. Use this function when you want to project images after the lamp becomes bright enough. The factory default setting is in this option.
Countdown Off	Show the input image instead of the
	countdown when turning on the projector.
	Use this function when you want to project
	the image as early as possible even when
	the lamp is not bright enough.
Off	Hide the On-Screen Displays except;
	On-Screen Menu
	• Power off? (p.24)
	No signal for Power management.
	(p.57)
	- Diana wait

- Please wait ...
- Arrows for the True function in the Screen Menu (p.42)
- P-timer

Logo select



Background

Select the background screen for when no input signal is detected. Press the Point ▲ ▼ buttons to switch between each option.

- Blue Project a blue background.
- Black . . . Project a black background.
 - It is invalid when there is no image.
- User . . . Project an image captured in the Logo setting.

Logo (Logo and Logo PIN code lock settings)

This function allows you to customize the screen logo with Logo select, capture, Logo PIN code lock and Logo PIN code change functions.

√Note:

When **On** is selected in the Logo PIN code lock function, **Logo select**, **Capture** and **Logo PIN code change** cannot be selected.

Logo select

This function decides on the starting-up display from among following options.

- User Show the image you captured.
- Default Show the factory-set logo.
- Off Show the countdown display only.

Capture

This function enables you to capture an image being projected to use it for a starting-up display or interval of presentations.

Select Capture and press the SELECT button.

A confirmation box appears and select **Yes** to capture the projected image.

After capturing the projected image, go to the Logo select function and set it to **User**. Then the captured image will be displayed the next time you turn on the projector.

To cancel the capture function, select $\ensuremath{\text{Yes}}$ in the "Quit?" confirmation box.

√Note:

- Before capturing an image, select **Standard** in the Image Select Menu to capture a proper image (pp.40, 46).
- A signal from a computer can be captured up to XGA (1024 x 768). A signal from video equipment can be captured except for **720p**, **1035i**, **1080i** and **1080p**.
- When capturing the image that has been adjusted by the Keystone function, the adjusted data is automatically reset and the projector captures an image without keystone correction.
- When Logo PIN code lock is set to On, Capture cannot be selected.
- When starting to capture a new image, the previously stored image is cleared even if you cancel the capturing.
- When there is no captured image or it is interrupted while capturing an image, **User** cannot be selected, you can only switch between **Default** and **Off**.

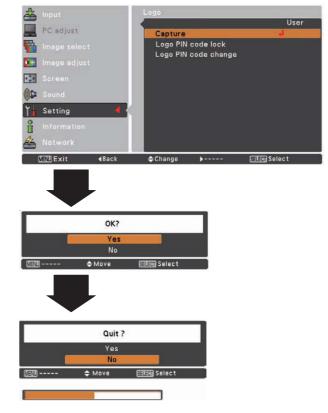
Logo PIN code lock

This function prevents an unauthorized person from changing the screen logo.

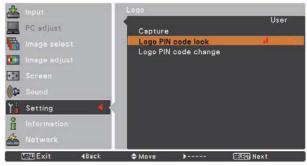
- Off The screen logo can be changed freely from the Logo Menu (p.52).
- On The screen logo cannot be changed without a Logo PIN code.

If you want to change the **Logo PIN code lock** setting, press the SELECT button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below. The initial **Logo PIN code** is set to "4321" at the factory.

Capture



Logo PIN code lock



Enter a Logo PIN code

Use the Point $\blacktriangle \lor$ buttons to enter a number. Press the Point \blacktriangleright button to fix the number and move the red frame pointer to the next box. The number changes to *. If you fixed an incorrect number, use the Point \blacktriangleleft button to move the pointer to the number you want to correct, and then enter the correct number.

Repeat this step to complete entering a four-digit number.

After entering the four-digit number, move the pointer to **Set**. Press the SELECT button so that you can start to operate the projector.

If you entered an incorrect Logo PIN code, Logo PIN code and the number (***) will turn red for a moment. Enter the correct Logo PIN code all over again.

Change the Logo PIN code lock setting

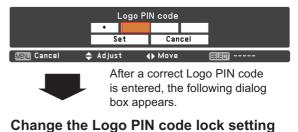
Use the Point $\blacktriangle \lor$ buttons to switch **On** or **Off**, and then press the SELECT button to close the dialog box.

Logo PIN code change

Logo PIN code can be changed to your desired four-digit number. Press the Point ▼ button to select **Logo PIN code change** and then press the SELECT button. The New Logo PIN code input dialog box appears. Set a new Logo PIN code.

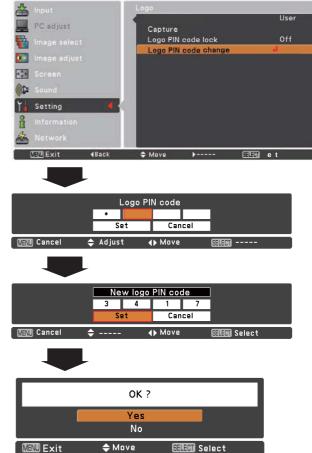
Be sure to note the new Logo PIN code and keep it on hand. If you lost the number, you could no longer change the Logo PIN code setting. For details on PIN code setting, refer to "PIN code lock" on pages 59-60.

Enter a Logo PIN code





Change the Logo PIN code



CAUTION:

WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 84, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

Lamp control

Lamp control

This function allows you to change brightness of the screen.

	Brightness according to the input signal.
	Normal brightness.
e teco 1	Lower brightness and decrease of fan speed.
	Lower brightness reduces the lamp power
	consumption and extends the lamp life.
ф 2Есо 2	Lower brightness and increase of fan speed.
	Lower brightness reduces the lamp power
	consumption and extends the lamp life. It is
	recommended to use Eco 2 when using the
	projector continuously over a long period of time.
	The fan noise becomes louder in Eco 2 than in
	Eco 1. Select the suitable mode for the used
	environment.

√Note:

The fan noise becomes louder in Eco 2 than in Eco 1. Select the suitable mode for the used environment.

Lamp life control

Select the lamp operation when the total lighting time of a lamp exceeds the recommended total hours of use.

- Mode 1 A lamp can be turned on even after exceeding the recommended total hours of use.
- Mode 2 A lamp can be turned on even after exceeding the recommended total hours of use. But the projector turns off automatically after 3 minutes.

√Note:

- Lamp mode cannot be changed for a while after turning on the projector. Lamp needs some time to stabilize after the power is turned on. Stored lamp mode will be active after the lamp is stabilized.
- If **Mode 2** has been selected and the projection lamp exceeds the recommended total hours of use, the replacement icon will be displayed at the time of power-on. Then the projector will turn off after 3 minutes.

Lamp replacement icon



The Lamp replacement icon will not appear when the Display function is set to Off (p.52), during "Freeze" (p.30), or "Shutter" (p.27).

Lamp life control



Filter control

You can replace the filter with this function. Press the SELECT button at **Filter control** to display a confirmation box. To replace, press the SELECT button at "YES" and the electrically operated filter starts to scroll.

√Note:

- Filter replacement icon and **Please wait...** message appear on the screen when the filter is being scrolled.
- The filter cannot be rewound.
- When the filter is replaced, the total accumulated time of the filter use is automatically set to **0**.

Fan control

Choose the running speed of cooling fans from the following options. **Normal**..... Operate in this mode under normal conditions.

Max Use this mode when you want to increase the cooling effect when operating the projector in high ambient temperature environment. Fan noise is louder than Normal.

Simple mode

This function decides whether to activate the simple mode.

- Off Simple mode function is off.
- **On** Only the simple mode buttons are active.
- √ Note:

Warning icon and **Simple mode : On** message appear on the screen when press the button which is not the simple mode button.

Remote control

The eight different remote control codes (**Code 1-Code 8**) are assigned to the projector; the factory-set, initial code (**Code 1**) and the other seven codes (**Code 2** to **Code 8**).

The same code should be set on both the projector and the remote control. For example, operating the projector in **Code 7**, the remote control code also must be switched to **Code 7**.

To change the code for the projector

Select a remote control code in this Setting Menu.

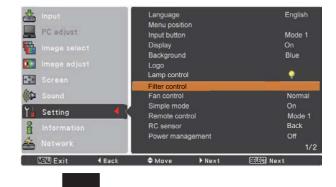
To change the code for the remote control:

Press and hold the MENU button and a number button (1-8) on the remote control for more than five seconds to switch between the codes. See "Remote Control Code" on page 16.

✓ Note:

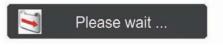
- When different codes are set on the projector and on the remote control, any operation cannot be made. In that case, switch the code on the remote control to fit the code on the projector.
- If the batteries are removed from the remote control for a long period of time, the remote control code will be reset.

Filter control

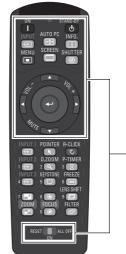




A confirmation box appears and then select **Yes**.



Simple mode buttons



Only these buttons are active when the simple mode is set to **On**. [ON, STAND-BY, INPUT, AUTO PC, INFO., MENU, SCREEN, SHUTTER, **▲ ▼ ▲ ►**, SELECT, VOL.+, VOL.-, MUTE, RESET/ON/ ALL-OFF switch] Number buttons (p.14) also become active only when setting the remote control codes numbers or entering the PIN code numbers (pp. 54, 60).



RC sensor

Select a location of the infrared remote receiver of the remote control. See "Remote Control Receivers and Operating Range" on page 15 for details.

All..... Activate all of the receivers.

Front & Top Activate both the front and top receivers.

Top & Back Activate both the top and back receivers.

Front & Back Activate both the front and back receivers.

Front Activate only the front receiver.

Top..... Activate only the top receiver

Back...... Activate only the back receiver.

Power management

For reducing power consumption as well as maintaining the lamp life, the Power management function turns off the projection lamp when the projector is not operated for a certain period. Select one of the following options:

Ready	When the lamp has been fully cooled down, the POWER indicator changes to green blinking. In this condition, the projection lamp will be turned on if the input signal is reconnected or any button on the side control or remote control is pressed.
Shut down	When the lamp has been fully cooled down, the power will be turned off.
Off	Power management function is off.
Timer	If the input signal is interrupted and no button is pressed for more than 30 seconds, the timer display with No signal appears. It starts the countdown until the lamp is turned off. Use the Point $\blacktriangle \nabla$ buttons to set the Timer(1~30Min).

√Note:

• Factory default is Ready: 5 Min.

• When the shutter is closed while the Power management function is working, the Power management function is released.

Standby mode

even after turning off the projector. You can turn on/off the projector via network, modify network environment, and receive an e-mail about projector status while the projector is powered off.

Eco..... Select Eco when you do not use the projector via network. The projector's network function will stop when turning off the projector.

Refer to the owner's manual of "Network Set-up and Operation".

√Note:

• Factory default is Network.

• When selecting **Network**, the cooling fans may be running depending on the temperature inside the projector even if the projector is turned off.

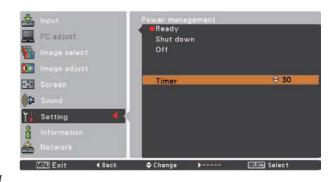
Power management



Timer left before Lamp is off.







On start

When this function is set to **On**, the projector will be automatically turned on just by connecting the AC power cord to the wall outlet.

√Note:

Be sure to turn off the projector properly (see "Turning Off the Projector" on page 24). If the projector is turned off in the incorrect sequence, the On start function does not work properly.

Pointer

You can emphasize a part of the projected image with this function. Use the Point $\blacktriangle \triangledown$ buttons to select a pattern of the Pointer (Arrow, Finger, or Dot) (p.32)

P-TIMER



P-timer display

22

MENUExit

dBack



This function allows you to change the presentation of the P-timer and execute it.

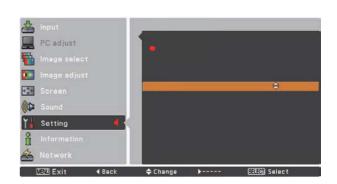
Select one of the following options:

Count up	The P-timer display 000:00 appears on the
	screen and the count starts (000:00-180:00)
Count down	The time set in the Timer setting appears on the
	screen and the countdown starts.
Timer	Use the Point $\blacktriangle \blacksquare$ buttons to set the Timer
	(1–180 Min). Only set to Count down, Timer is
	active. Factory default velue is 10 Min .
Start	It executes the count up or count down
	function. Press the SELECT button at Start,
	Start changes to Stop in the Screen Menu. At
	that time, press the SELECT button at Stop
	to stop Count up or Count down, and Stop
	changes to Restart in the Screen Menu. Press
	the SELECT button at Restart to resume
	Count up or Count down.
Reset	Reset the P-timer values.
	Press the SELECT button at Reset to return to
	the following value;
	Count up "000:00"
	Count down Timer that you set
Exit	To exit the P-timer operation.

Stop or Cancel the P-timer via Remote Control

To stop the P-timer, press the P-TIMER button. To cancel the P-timer, press and hold the P-TIMER button for a few seconds.

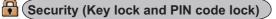




Move

....

Sales Select



This function allows you to use the Key lock and PIN code lock function to set the security for the projector operation.

Key lock

This function locks the side control and remote control buttons to prevent operation by unauthorized persons.



 Lock the operation of the side control. To unlock, use the remote control.
 Lock the operation of the remote control. To unlock, use the side control.

If the side control accidentally becomes locked and you do not have the remote control nearby or there is something wrong with your remote control, contact the dealer where you purchased the projector or the service center.

Key lock







PIN code lock



PIN code lock

This function prevents the projector from being operated by unauthorized persons and provides the following setting options for security.

- Off Unlocked.
- **On1** Enter the PIN code every time turning on the projector.
- **On2** Enter the PIN code to operate the projector once the power cord is disconnected; as long as the AC power cord is connected, the projector can be operated without a PIN code.

Whenever you change the PIN code lock setting or the PIN code (the four-digit number), you are required to enter the PIN code. The "1234" is set as the initial PIN code at the factory.

If you want to change the PIN code lock setting, Press the SELECT button and the PIN code dialog box appears.

Enter a PIN code

Use the Point $\blacktriangle \lor$ buttons to enter a number. Press the Point \blacktriangleright button to fix the number and move the red frame pointer to the next box. The number changes to *. If you fixed an incorrect number, use the Point \blacktriangleleft button to move the pointer to the number you want to correct, and then enter the correct number.

Repeat this step to complete entering a four-digit number.

After entering the four-digit number, move the pointer to **Set**. Press the SELECT button so that you can start to operate the projector.

If you entered an incorrect PIN code, **PIN code** and the number (****) will turn red for a moment. Enter the correct PIN code all over again.

Change the PIN code lock setting

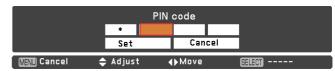
Use the Point $\blacktriangle \lor$ buttons to select **Off**, **On1** or **On2**. Press the SELECT button to close the dialog box.

PIN code change

The PIN code can be changed to your desired four-digit number. Press the Point ▼ button to select **PIN code change** and press the SELECT button. The New PIN code input dialog box appears. Set a new PIN code.

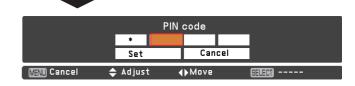
Enter a PIN code

Change the PIN code



Input Security PC adjust Key lock Image select Off Image adjust Screen Sound Information Information Network





		New P	IN code		
	3	4	1	7	
	S	et	Can	cel	
MENU Cancel	\$		I▶ Move		SIII) Select

CAUTION:

WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 84, AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED. Shutter

Shutter function is available to block out light to the screen, so that the screen can be used for the other presenters.

Protection

Prohibit the shutter operation from the remote control and the projector's side control.

Remote control	Selecting On prohibits the shutter
	operation from the remote control.
Projector	Selecting On prohibits the shutter
	operation from the side control.

It is possible to prohibit the shutter operation from both of the remote control and the side control.

Management

The Shutter Management function turns off the projection lamp when the projector is left with the shutter closed and the set time has passed away. The count-down time can be set between 5 and 180 minutes. When the count-down time has elapsed, the shutter will be opened up automatically and the lamp will be turned off to cool itself down. The SHUTTER indicator is blinking blue during this cooling-off period. When the lamp has been fully cooled down, the POWER indicator turns green lighting and the SHUTTER indicator keeps blinking. Should the ON / STAND-BY button be pressed in this condition, the projection lamp will be turned on and the SHUTTER indicator turns off.

√Note:

The Shutter Management function cannot be halted.

Video delay control

When you want to make a digital processing of a projected image faster, set this function.

Use the Point $\blacktriangle \forall$ buttons, select an item of Off/Low/Mid/High. Digital processing speed becomes fast by order of Low \rightarrow Mid \rightarrow High. High is the fastest.

√Note:

-The following functions are not available respectively when Video delay control is set to Low/Mid/High.

- Low ... Keystone can not be selected.
- Mid ... Progressive and Noise reduction can not be selected.
- High ... Keystone, Progressive and Noise reduction can not be selected.

-When Video delay control function is set to **Low** or **High** and press the KEYSTION button on the remote control, Fig.1 will be dispalyed on the bottom left screen.



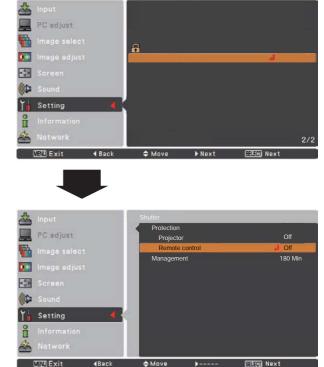


Fig.1



Video delay : On

Filter counter

This function is used to set a frequency for the filter replacement.

Use the Point $\blacktriangle \lor$ buttons to select **Filter counter** and then press the Point \blacktriangleright or the SELECT button to access the submenu items.

- Filter counter.....Show the total accumulated time of the filter
use timer setting.TimerTo set a timer, when the projector reaches
the time, the Filter replacement icon (Fig. 1)
appears on the screen and the total
accumulated time turns red, indicating that
the filter replacement is necessary. If the
filter is out of scroll and the projector reaches
a time set in the timer setting, Fig. 2 appears
on the screen, indicating that the filter
cartridge replacement is necessary.Filter counter reset...When replacing the Filter cartridge, reset the
Filter counter and the Scroll remaining (p.65).
- Scrolls remaining . When the filter scroll is counted down to 1, Scroll remaining on the screen is showing 0 scroll(s), the last scroll icon (Fig. 3) appears on the screen. When the filter scroll is counted down to 0, the Filter cartridge replacement icon (Fig. 4) appears on the screen and the WARNING FILTER indicator lights orange, indicating that the filter cartridge replacement is necessary.

Scroll counter Reset..When replacing the Filter cartridge, reset the Filter counter and the Scroll remaining (p.65).

√Note:

- Do not reset the counter when the filter or the filter cartridge is not replaced.
- Timer setting notifies that the filter needs replacement. To replace the filter, use the filter control function (p.56).

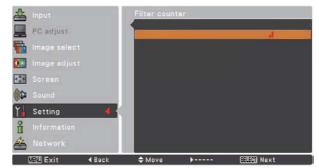
Test pattern

Various test pattern are available for use when setting up the projector.

Factory default

This function returns all setting values except for **User logo**, **PIN code lock**, **Logo PIN code lock**, **Lamp counter**, and **Filter counter** to the factory default settings.

Filter counter



Press the SELECT button to select **Timer** and then use the Point ▲ ▼ buttons to set the timer. Select from (**Off/ 400H/700H/1000H**) depending on the use environment.

Fig.1 Filter replacement icon



Filter replacement icon appears on the screen at a set time.

Fia.2



Fig.3 Last scroll icon



Last scroll icon appears on the screen when the filter is down to the last scroll.

Fig.4 Filter cartridge replacement icon



Filter cartridge replacement icon appears on the screen when the filter scroll is counted down to 0 scroll.

√Note:

- Fig.1, Fig. 2, Fig. 3 and Fig. 4 appear at turning on and selecting input source.
- Fig. 1, Fig. 2, Fig. 3 and Fig. 4 will not appear when the Display function is set to Off (p.52) or during "Freeze" (p.30).

Maintenance and Care

Filter Instructions

Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter becomes clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. This projector has an electrically operated filter which helps you to replace the filter easily. The projector monitors the condition of the filter at all time and replaces a filter with a new one automatically when it detects the clogging.

If the projector reaches a time set in the timer setting (p.62), a Filter replacement icon (Fig.1) appears on the screen and the WARNING FILTER indicator on the top panel lights up (p.78). When you see this icon, replace the filter as soon as possible (pp.30, 56). If the filter is out of scroll and the projector reaches a time set in the timer setting, Fig. 2 appears on the screen, indicating that the filter cartridge replacement is necessary.

When the filter scroll is counted down to $\mathbf{0}$, the Last scroll icon (Fig.3) appears on the screen, indicating that there is one scroll left in the filter cartridge (p.62).

If the projector detects that the filter is clogged and no scroll is left in the filter cartridge, a Filter cartridge replacement icon (Fig. 4) appears on the screen and the WARNING FILTER indicator on the top panel lights up (p.78). When you see this icon, replace the filter cartridge (p.64) and reset the Filter counter (p.65) and the Scroll counter (p.65).

When the filter is being scrolled using the remote control (p.30) or the Filter control function in the setting menu (p.56), a Filter replacement icon and **Please wait...** message (Fig.5) appear on the screen and the WARNING FILTER indicator blinks slow (approx. 2 seconds ON, 2 seconds OFF) (p.76).

The WARNING FILTER indicator blinks fast when the projector detects an abnormal condition, the filter cartridge is not installed properly, or the filter scroll is not working properly (p.78).

√Note:

- Fig.1, Fig.2, Fig.3, Fig. 4 and Fig.5 will not appear when the Display function is set to **Off** (p.52) or during "Freeze" (p.30).
- The filter cannot be rewound.
- The filter can be scrolled 9 times since the filter cartridge has 10 scrolls.
- The filter cartridge is disposable. Do not clean and reuse the filter cartridge.
- Do not expose the filter cartridge to water or liquid, or it may cause a breakdown.
- Replace the filter cartridge after all the scroll is used up. If you
 replace the filter cartridge when there are some scrolls left in
 the filter cartridge, the filter counter and the scroll counter do not
 recognize the correct number of remaining scrolls and the reset
 function cannot work properly. It may cause a breakdown.
- Do not use the filter cartridge with other projector. The filter counter and the scroll counter do not recognize the correct number of remaining scrolls of the used filter cartridge and the reset function cannot work properly. It may cause a breakdown.









Fig.3 Last scroll icon



Fig.4 Filter cartridge replacement icon

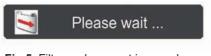


Fig.5 Filter replacement icon and Please wait... message.

- Make sure that the projection lamp is turn off when you are replacing the filter cartridge. If you replace the filter cartridge when the projection lamp is turn on, the projector will be shut down automatically for safety purpose.
- Do not forget to reset the filter counter and the scroll counter in the setting menu after replacing the filter cartridge. If you forget to reset the filter counter and the scroll counter, the projector cannot recognize the correct number of remaining scrolls and may cause a breakdown.
- When the projector is kept used for 3 minutes without getting the filter cartridge replaced after the Fig.4 appears on the screen, the projector is turned off automatically to prevent the damage of optical components.

Maintenance and Care

1

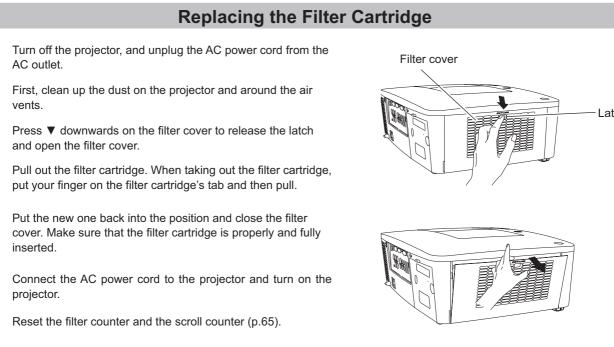
3

4

5

6

7





CAUTION

Make sure the filter cartridge is inserted in the projector. If the filter cartridge is not inserted, the projector cannot be turned on.

Do not put anything into the air vents. Doing so may result in malfunction of the projector.

RECOMMENDATION

We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause a poor image quality.

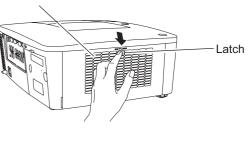
When using the projector under dusty or smoky conditions, dust may accumulate on a lens, liquid crystal panels, or optical elements inside the projector. Such condition may degrade the quality of the projected image.

When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

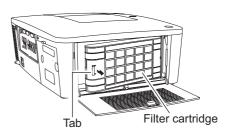
ORDER REPLACEMENT FILTER CARTRIDGE

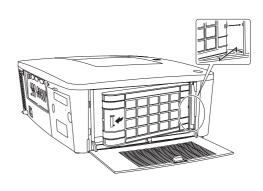
Replacement filter cartridge can be ordered through your dealer. When ordering, give the following information to the dealer.

- Model No. of your projector . PLC-XM100, PLC-XM150, PLC-XM100L, PLC-XM150L
- **Replacement Filter Cartridge Type No.** POA-FIL-080 (Service Parts No. 610 346 9034)







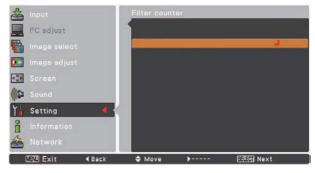


Resetting the Filter Counter

Be sure to reset the Filter counter after cleaning or replacing the filter.

- Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Setting and then press the Point ► or the SELECT button.
- 2 Use the Point ▲ ▼ buttons to select **Filter counter** and then press the SELECT button. Use the Point ▲ ▼ buttons to select **Filter counter Reset** and then press the SELECT button. **Filter counter Reset?** appears. Select **Yes** to continue.
- **3** Another confirmation dialog box appears, select **Yes** to reset the Filter counter.

Filter counter





Filter counter Reset? appears.

Select **Yes**, then another confirmation box appears.

Select **Yes** again to reset the Filter counter.

Resetting the Scroll Counter

Be sure to reset the Scroll counter after replacing the filter cartridge.

- Press the MENU button to display the On-Screen Menu. Use the Point ▲ ▼ buttons to select Setting and then press the Point ► or the SELECT button.
- 2 Use the Point ▲ ▼ buttons to select **Filter counter** and then press the SELECT button. Use the Point ▲ ▼ buttons to select **Scroll counter Reset** and then press the SELECT button. **Scroll counter Reset?** appears. Select **Yes** to continue.
- **3** Another confirmation dialog box appears, select **Yes** to reset the Scroll counter.

Scroll counter





Scroll counter Reset? appears.

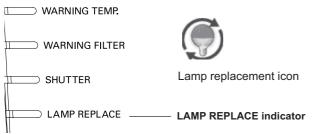
Select **Yes**, then another confirmation box appears.

Select **Yes** again to reset the Scroll counter.

Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights orange. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.

Top Panel



√Note:

The Lamp replacement icon will not appear when the Display function is set to **Off** (p.52) or during "Freeze" (p.30)

Follow these steps to replace the lamp.

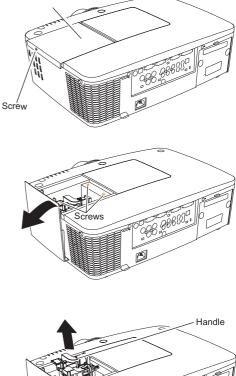
- **1** Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
- 2 Loosen the screw and open the lamp cover. Loosen 3 screws of the lamp and pull out the lamp by using the built in handle.
- **3** Replace the lamp with a new one. Make sure that the lamp is properly and fully inserted.
- 4 Close the lamp cover and secure the screw.
- **5** Connect the AC power cord to the projector and turn on the projector.
 - √Note:

Be sure to insert the lamp in the correct direction.

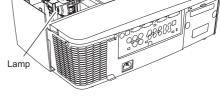
When replacing the lamp because it has stopped illuminating, there is a possibility that the lamp may be broken. If replacing the lamp of a projector which has been installed on the ceiling, you should always assume that the lamp is broken, and you should stand to the side of the lamp cover, not underneath it. Remove the lamp cover gently. Small pieces of glass may fall out when the lamp cover is opened. If pieces of glass get into your eyes or mouth, seek medical advice immediately.

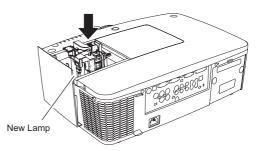


Allow a projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.



Lamp cover





For continued safety, replace with a lamp of the same type. Do not drop the lamp or touch the glass bulb! The glass can shatter and may cause injury.

LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- •Lamp lifetime may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their lifetime in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down. (Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.
- •Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering, give the following information to the dealer.

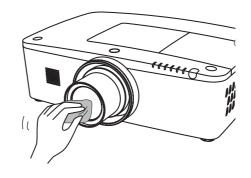
 Model No. of your projector : PLC-XM100, PLC-XM150 PLC-XM100L, PLC-XM150L
 Replacement Lamp Type No. : POA-LMP137 (For PLC-XM100 / XM100L) (Service Parts No. 610 347 5158)
 POA-LMP136 (For PLC-XM150 / XM150L) (Service Parts No. 610 346 9607)

Cleaning the Projection Lens

Unplug the AC power cord before cleaning.

Gently wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use a lens cleaning paper or commercially available air blower to clean the lens.

Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the lens.

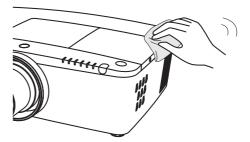


Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When the cabinet is heavily soiled, use a small amount of mild detergent and finish with a soft dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate carrying case to protect from dust and scratches.



Do not use any flammable solvents or air sprays on the projector and in its vicinity. The explosion or fire hazard may occur even after the AC power cord is unplugged because the temperature inside the projector is extremely high due to the lamps. In addition, there is a risk that the internal parts may be damaged not only by the flammable air spray but also by the cold air.

Warning Indicators

The WARNING indicators show the state of the function which protects the projector. Check the state of the WARNING indicators and the POWER indicator to take proper maintenance.

The projector is shut down and the WARNING TEMP. indicator is blinking red.

When the temperature inside the projector reaches a certain level, the projector will be automatically shut down to protect the inside of the projector. The POWER indicator is blinking while the projector is being cooled down. When the projector has cooled down enough (to its normal operating temperature), it can be turned on again by pressing the ON/STAND-BY button.

√Note:

The WARNING TEMP. indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING TEMP. indicator stops blinking.

Then check the matters below:

- Did you provide appropriate space for the projector to be ventilated? Check the installing condition to see if the air vents of the projector are not blocked.
- Has the projector been installed near an Air-Conditioning/ Heating Duct or Vent? Move the installation of the projector away from the duct or vent.
- Is the filter clean? Replace the filter with a new one.

The projector is shut down and the LAMP indicator is lighting and other indicators are blinking.

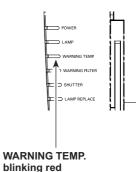
When the projector detects an abnormal condition, it will be automatically shut down to protect the inside of the projector and the LAMP indicator lights on and other indicators blink. In this case, unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the projector cannot be turned on and these indicators are still lighting and blinking, unplug the AC power cord and contact the service station.



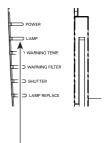
CAUTION

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Top Panel



Top Panel



LAMP indicator lights on and other indicators blink.

Troubleshooting

Before calling your dealer or service center for assistance, check the items below once again.

- 1. Make sure you have properly connected the projector to peripheral equipment as described on pages 19-21.
- 2. Check the cable connection. Make sure that all computers, video equipment, and power cords are properly connected.
- 3. Make sure that all power is switched on.
- 4. If the projector still does not produce an image, restart your computer.
- 5. If an image still does not appear, disconnect the projector from your computer and check your computer monitor's display. A problem may be noticed with your graphics controller rather than with the projector. (When you reconnect the projector, be sure to turn the computer and monitor off before you turn on the projector. Turn on equipment in the order of the projector and computer.)
- 6. If a problem still persists, check the following solutions.

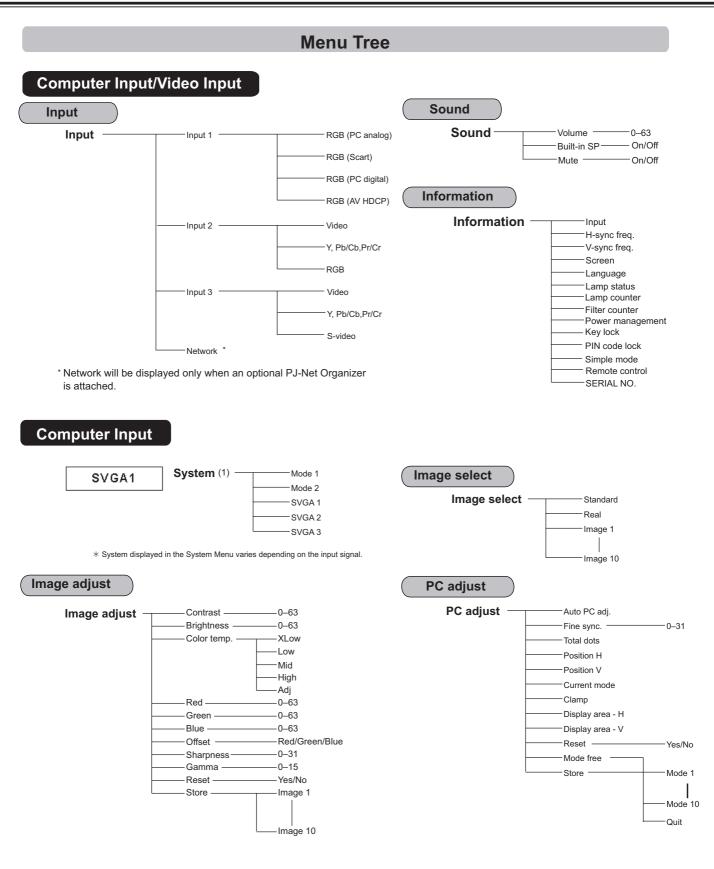
Problem:	Solutions
No power.	 Plug the power cord of the projector into the AC outlet. Wait until the POWER indicator stops blinking to turn on the projector again. (See page 23) Check the WARNING TEMP. indicator. If the WARNING TEMP. indicator is blinking, the projector cannot be turned on. (See page 69.) Unlock the Key lock function for the projector. (See page 59) See if the filter cartridge is inserted. (See page 64) Check the projection lamp. (See page 66)
PIN code dialog box appears at start-up.	 – PIN code lock is being set. Enter a PIN code; the "1234" or numbers you have set (See pages 23, 59-60)
The initial display is not shown.	 Make sure Off or Countdown Off is not chosen at Display function. (See "Setting" section on page 52)
The initial display is not same with the default one.	 Make sure User or Off is not chosen at Logo select function. (See "Setting" section on page 52)
When the projector is on and you press the input button, an icon other than the Lamp mode icon appears.	– That is the Filter warning icon. (See page 63)
An icon other than Input mode or Lamp mode icon appears.	– That is the Lamp replacement icon or the Filter warning icon. (See pages 62-63)
No image.	 Check the connection between your computer or video equipment and the projector. See if the input signal is correctly output from your computer. Some laptop computers may need to be changed the setting for monitor output when connected to the projector. See your computer's instruction manual for the setting. It takes about 30 seconds to display an image after turning on the projector. See if the selected system is corresponding with your computer or video equipment. Select correct input source once again through menu operation. (See pages 33-35) Make sure the temperature is not out of Operating Temperature (41°F–104°F [5°C–40°C]).
appears on the screen	End of lamp life is approaching. Replace the lamp with a new one promptly. (See page 66)

appears on the screen	 Filter is out of scroll. Replace the filter cartridge with a new one promptly. (See pages 64-65)
The image is out of focus.	 Adjust the focus of the projector. Check Projection Lens to see if it needs cleaning. Note: Moving the projector from a cool temperature location to a warm temperature location may result in moisture condensation on Projection Lens. In such cases, leave the projector OFF and wait until condensation evaporates. Projecting from excessive slant angle to the screen may cause keystone distortion and partial imperfect focus. Make sure the projection screen is at least 4.3' (1.3 m) away from the projector.
The image is not bright enough.	 Check if Contrast or Brightness is adjusted properly. (See pages 41, 47) Check if Image level is selected properly. (See pages 40, 46) Check the Lamp control function. (See "Setting" section on page 55) Check the LAMP REPLACE indicator. If it lights, the end of lamp life is approaching. Replace the lamp with a new one promptly. (See page 66)
The color is strange.	 Check the Input signal, color system, video system, or computer system mode. Adjust the Image Level properly. (See pages 40, 46)
The image is Left/Right reversed.	- Check the Ceiling / Rear function. (See pages 44, 50)
The image is Top/Bottom reversed.	 Check the Ceiling function. (See pages 44, 50)
The image is distorted or runs off.	 Check PC adjust Menu or Screen Menu and adjust them.
Auto PC adjustment function does not work.	 Check the Input signal. Auto PC Adjustment function cannot work when 480p, 575p, 720p, 480i, 575i, 1035i, or 1080i is selected or when the digital signal is input into DVI terminal. (See page 37)
Some displays are not seen during the operation.	- Check the Display function. (see page 52)
The setting does not remain after turning off power.	 Make sure you selected Store after adjusting settings. Some settings cannot be stored if not registered with Store function.
Power management function does not work.	 Power management function cannot work while Freeze function is running or the shutter is closed.
Image disappears automatically.	 Check the power management function in the Setting. The power management is set to On at the factory.
Capture function does not work.	- Check the connection to see if there is signal.
Some menus cannot be selected.	- Each of the Video Input and Computer Input has a limit on selectable menus.
No sound	 Check the audio cable connection from audio input source. Adjust the audio source. Press the Volume + button. (See page 28) Press the Mute button. (See page 28) Is the image projected? You will hear the sound only when the image is projected. Check the Build-in SP function. (See page 28)

The power is turned off automatically.	 Power management function runs by initial setting. Check "Setting" section on page 57. When the filter cartridge replacement icon keeps appearing on the screen at turning on the projector for some time and no action is taken to replace the filter cartridge, the projector will be automatically shut down in 3 minutes after turning on to protect the projector. (See pages 63-64, 78) Do not cover the ventilation slots on the projector. (See pages 4, 6) Projector may be used in high ambient temperature environment. Make sure the temperature is not out of Operating Temperature (41°F–104°F [5°C–40°C]). (See page 69) 					
You cannot operate with the side control.	 The side control is not available. If the side control is locked at "Key lock" under "Security" of SETTING section. Please check "Setting" section on page 59. 					
The Remote Control does not work.	 Check the batteries. Check if the RC sensor is set properly. (See page 57) Make sure no obstruction is between the projector and remote control. Make sure you are not too far from the projector when using the remote control. Maximum operating range is 16.4' (5m). (See page 15) Make sure that the remote control code conforms to the projector's code. (See "SETTING" section on page 56.) Unlock the Key lock function for the remote control. (See page 59) Wireless remote control does not work when the remote control cable is connected to the projector. (See page 15) Check if the ALL-OFF switch on the remote control is set to "ON." Make sure that the simple mode in the remote control function is set to Off (See page 56). 					
Wireless mouse function does not work.	 Check the cable connection between the projector and your computer. (See pages 19, 32) Check the mouse setting on your computer. Turn on the projector before you turn on the computer. 					
Indicators blink or light.	 Check the status of the projector with referring to "Indicators and projector condition" on pages 76-78. 					
appears on the screen	- Your operation is invalid. Operate correctly.					
Unable to unlock the Logo PIN code lock, Security key lock or Security PIN code lock.	- Contact the dealer where you purchased the projector or the service center.					
Forget the Logo PIN code or Security PIN code.	 Contact the dealer where you purchased the projector or the service center. 					

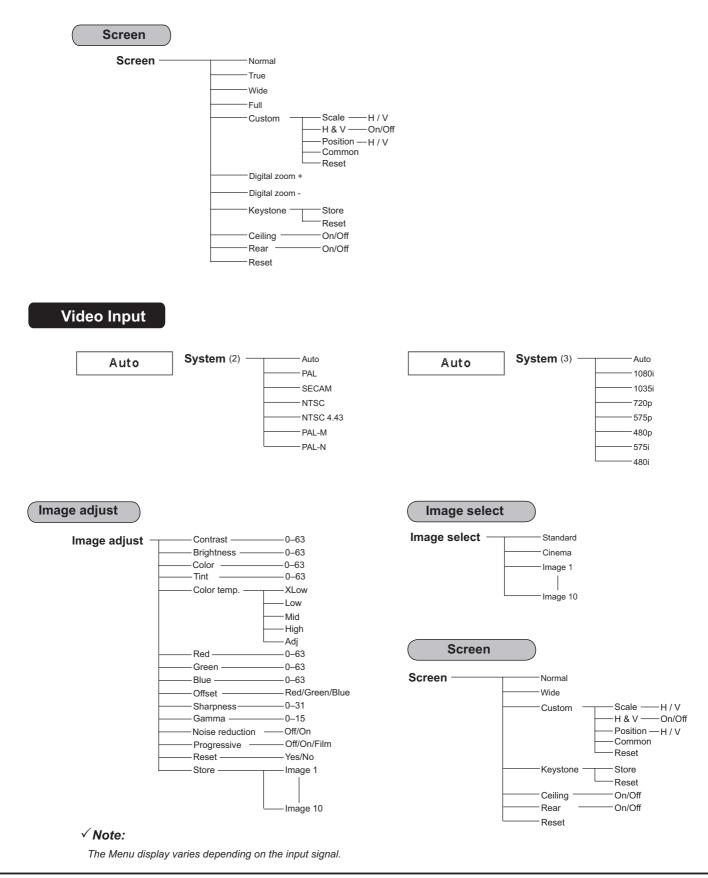
WARNING: High voltages are used to operate this projector. Do not attempt to open the cabinet.

If problems still persist after following all operating instructions, contact the dealer where you purchased the projector or the service center. Specify the model number and explain about the problem. We will advise you how to obtain service.



√Note:

The Menu display varies depending on the input signal.



Setting	
Setting —	Language ———— 12 languages provided.
U U	Menu position
	Input button — Mode 1/Mode 2/Mode 3
	Display —————On/Countdown Off/Off
	Blue/User/Black
	Logo Logo select
	Default Off
	Capture — Yes/No
	Logo PIN code lock — Off/On
	Logo PIN code change
	Lamp control Lamp control Auto/Normal/Eco 1/Eco 2
	Lamp life control — Mode 1/Mode 2 Filter control — Yes/No
	Fan control ————Normal/Max
	Simple mode ———— On/Off
	Remote Control Code 1~Code 8
	RC sensor — All/Front&Top/Top&Back/Front&Back/Front/To
	Power management — Off
	Ready
	- Shut down
	1–30 Min
	Standby mode Eco/Network
	On startOn/Off
	Pointer — Finger/Arrow/Dot
	P-timer Count up
	— Count down
	Timer
	Start
	Reset
	Exit Security Key lock
	Projector
	Remote control
	PIN code lock – Off/On1/On2
	PIN code change
	Shutter Protection Remote control On/Off
	Projector On/Off
	Management 5 - 180 Min.
	Video delay control ——Off/Low/Mid/High
	Filter counter — Filter counter — H
	— Timer ———— Off/400H/700H/1000H
	Filter counter reset Yes/No
	Scrolls remaining Scroll(s)
	Scroll counter ResetYes/No
	Test pattern ———— 8 test patterns provided
	Factory default — Yes/No

Indicators and Projector Condition

Check the indicators for the projector condition.

The projector is operating normally.

		Indic	ators				
POWER green	LAMP red	WARNING TEMP. red	WARNING FILTER orange	SHUTTER blue	LAMP REPLACE orange	Projector Condition	
•	•	•			•	The projector is off. (The AC power cord is unplugged.)	
0	۲	•	*	*	*	The projector is in stand-by mode. Press the ON/ STAND-BY button to turn on the projector.	
\bigcirc		•	*	•	*	The projector is operating normally. (The shutter is open)	
0	۲	•	*	*	*	The projector is operating normally. (The shutter is closed)	
•	۲	•	*	*	*	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator lights green.	
•	۲	•	*	*	*	The projection lamp is being cooled down in the Power management mode.	
\bigcirc	۲	•	*	*	*	The projector is in the Power management mode.	
•	۲	•	*	*	*	The projection lamp is being cooled down in the Shutter management mode.	
\bigcirc	۲	•	*	*	*	The projector is in the Shutter management mode. Press the ON/STAND-BY button to turn on the projector.	
\bigcirc	*		\bigcirc	*	*	The filter is scrolled using the FILTER button on the remote control or the Filter control function in the	
Fig.1 Filter replacement icon and Please wait						setting menu. When the filter is being scrolled, the Filter replacement icon and Please wait message (Fig. 1) appear on the screen for about 30 seconds.	
 ○ · · · on ○ · · · blinking at the (approx. 1 sec ● · · · on (red) ○ · · · blinking at the (approx. 1 second OFF 			(approx.	1 second C	DN, (approx. 0.5 seconds ON, 0.5 seconds OFF)		
(🛞 • • • on	. ,		and dim		al rate (blue x. 1 second * • •blinking fast (blue and dim red) (approx. 0.5 seconds ON, 0.5 seconds OFF) • • • blinking slow	
6	(··· dim (red)				cordina to c	(approx. 2 seconds ON, 2	

* ••• Differ according to conditions.

seconds OFF)

🐼 ••• dim (red)

		Indic	ators			
POWER green	LAMP red	WARNING TEMP. red	WARNING FILTER orange	SHUTTER blue	LAMP REPLACE orange	Projector Condition
0	۲	Ň	*	*	*	The temperature inside the projector is elevated close to the abnormally high level.
•	۲	Ŵ	*	*	*	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator lights green and the projector can be turned on. (The WARNING TEMP. indicator keeps blinking.) Check and replace the filter.
0	۲	М/ Ø	*	*	*	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING TEMP. indicator stops blinking. Check and replace the filter.
•	۲	•	*	*	\bigcirc	The lamp cannot light up. (The projector is preparing for stand- by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.)
0	>	•	*	*	$\overset{\forall }{\bigcirc }$	The lamp cannot light up. (The lamp has been cooled down enough and the projector is in stand-by mode and ready to be turned on with the ON/STAND-BY button.)
*	*	*	*	*	0	The lamp has been used overtime. Replace the lamp immediately.

The projector is detecting abnormal condition.

WARNING FILTER

When the filter detects clogging, reaches a time set in the timer setting or runs out of the filter scroll, the WARNING FILTER indicator lights orange. When this indicator lights orange, replace the filter or the filter cartridge with a new one promptly. Reset the Filter counter and Scroll counter after replacing the filter cartridge (p.65).

LAMP REPLACE

When the projection lamp reaches its end of life, the LAMP REPLACE indicator lights orange. When this indicator lights orange, replace the projection lamp with a new one promptly. (p.66)

Indicators						
POWER green	LAMP red	WARNING TEMP. red	WARNING FILTER orange	SHUTTER blue	LAMP REPLACE orange	Projector Condition
0	*	•	0	*	*	If the Filter counter reached a time set in the timer setting, a Filter replacement icon (Fig.2) appears on the screen and the WARNING FILTER indicator on the top panel lights up. Replace the filter as
Fig.2 F	-ilter replac	cement ico	n			soon as possible. If the filter is out of scroll and the projector reaches a time set in the timer setting, Fig. 3 appears on the screen and the WARNING FILTER indicator lights up. Replace the filter cartridge as soon as possible.
Fig.3)					If the filter is clogged and no scroll is left in the filter cartridge, a Filter cartridge replacement icon (Fig.4) appears on the screen and the WARNING FILTER indicator lights up. Replace the filter cartridge as soon as possible.
Fig 4 F)	lge replace	ment icon			 ✓ Note: Fig.2, Fig.3 and Fig.4 icon will not appear when the Display function is set to Off (p.52) or during "Freeze" (p.30).
	 (*) 					The filter cartridge is not installed in the projector. Check the filter compartment to see if the filter cartridge is installed in the projector. When the filter cartridge is installed and the indicators continue to light and blink, read the column below.
	•		Ŵ	*		The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center. Do not leave the projector on. It may cause an electric shock or a fire hazard.
*	*	*	*	₩ ®	*	The shutter is out of control.
	۲	•	*	÷	*	The shutter is out of control. (The projector is in the cooling mode.)
\bigcirc		•	*	\∕ ₩	*	The shutter is out of control. (The projector is in the stand-by mode.) In that case, contact the service station immediately.

The projector is detecting abnormal condition.

Compatible Computer Specifications

Basically this projector can accept the signal from all computers with the V- and H-Frequency mentioned below and less than 180 MHz of Dot Clock.

DN-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq.(Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq.(Hz)
VGA 1	640x480	31.470	59.880	SXGA 13	1280x1024 (Interlace)	50.000	86.000
VGA 2	720x400	31.470	70.090	SXGA 14	1280x1024 (Interlace)	50.000	94.000
VGA 3	640x400	31.470	70.090	SXGA 15	1280x1024	63.370	60.010
VGA 4	640x480	37.860	74.380	SXGA 16	1280x1024	76.970	72.000
VGA 5	640x480	37.860	72.810	SXGA 17	1152x900	61.850	66.000
VGA 6	640x480	37.500	75.000	SXGA 18	1280x1024 (Interlace)	46.430	86.700
VGA 7	640x480	43.269	85.000	SXGA 19	1280x1024	63.790	60.180
MAC LC13	640x480	34.970	66.600	SXGA 20	1280x1024	91.146	85.024
MAC 13	640x480	35.000	66.670	SXGA+1	1400x1050	63.970	60.190
480p	640x480	31.470	59.880	SXGA+2	1400x1050	65.350	60.120
575p	768x575	31.250	50.000	SXGA+3	1400x1050	65.120	59.900
575i	768x576 (Interlace)	15.625	50.000	SXGA+4	1400x1050	64.030	60.010
480i	640x480	15.734	60.000	SXGA+5	1400x1050	62.500	58.600
SVGA 1	(Interlace) 800x600	35.156	56.250	SXGA+ 6	1400x1050	64.744	59.948
SVGA 2	800x600	37.880	60.320	SXGA+7	1400x1050	65.317	59.978
SVGA 3	800x600	46.875	75.000	MAC 21	1152x870	68.680	75.060
SVGA4	800x600	53.674	85.060	MAC	1280x960	75.000	75.080
SVGA 5	800x600	48.080	72.190	MAC	1280x1024	80.000	75.080
SVGA 6	800x600	37.900	61.030	WXGA 1	1366x768	48.360	60.000
SVGA 7	800x600	34.500	55.380	WXGA 1	1360x768	47.700	60.000
SVGA 8	800x600	38.000	60.510	WXGA 3	1376x768	48.360	60.000
SVGA 9	800x600	38.600	60.310	WXGA4	1360x768	56.160	72.000
SVGA 10	800x600	32.700	51.090	WXGA 6	1280x768	47.776	59.870
SVGA 11	800x600	38.000	60.510	WXGA7	1280x768	60.289	74.893
MAC 16	832x624	49.720	74.550	WXGA 8	1280x768	68.633	84.837
XGA 1	1024x768	48.360	60.000	WXGA 9	1280x800	49.600	60.050
XGA 2	1024x768	68.677	84.997	WXGA 10	1280x800	41.200	50.000
XGA 3	1024x768	60.023	75.030	WXGA 10	1280x800	49.702	59.810
XGA 4	1024x768	56.476	70.070	WXGA 12	1280X800	63.980	60.020
XGA 5	1024x768	60.310	74.920	WXGA12 WUXGA1	1920x1200	74.556	59.885
XGA 5	1024x768	48.500	60.020	WUXGA 2	1920x1200	74.038	59.950
XGA 7	1024x768	44.000	54.580	WSXGA+1	1680x1050	65.290	59.954
XGA 8	1024x768	63.480	79.350	WXGA +1	1440x900	55.935	59.887
XGA 9	1024x768	36.000	87.170	WXGA+1 WXGA+2	1440x900	74.918	60.000
	(Interlace)			UXGA +2	1600x1200	75.000	60.000
XGA 10	1024x768	62.040	77.070	UXGA 2	1600x1200	81.250	65.000
XGA 11	1024x768 1024x768	61.000	75.700	UXGA 3	1600x1200	87.500	+
XGA 12	(Interlace)	35.522	86.960	UXGA 3	1600x1200		70.000
XGA 13	1024x768	46.900	58.200	UXGA 4 UXGA 5		93.750	
XGA 14	1024x768	47.000	58.300		1600x1200 1280x720	106.250 45.000	85.000 60.000
XGA 15	1024x768	58.030	72.000	720p	1280x720 1280x720	45.000 37.500	50.000
MAC 19	1024x768	60.240	75.080	720p	1280X720 1920x1035		+
SXGA 1	1152x864	64.200	70.400	1035i	(Interlace)	33.750	60.000
SXGA 2	1280x1024	62.500	58.600	1080i	1920x1080 (Interlace)	33.750	60.000
SXGA 3	1280x1024	63.900	60.000		1920x1080 (Interlace)	28.125	50.000
SXGA 4	1280x1024	63.340	59.980		1920x1080	33.750	30.000
SXGA 5	1280x1024	63.740	60.010	4000	1920x1080	28.125	25.000
SXGA 6	1280x1024	71.690	67.190	1080p	1920x1080	27.000	24.000
SXGA 7	1280x1024	81.130	76.107		1920x1080	67.5000	60.000
SXGA 8	1280x1024	63.980	60.020		1920x1080	56.250	50.000
SXGA 9	1280x1024	79.976	75.025	1080psf/30	1920x1080	33.750	60.000
SXGA 10	1280x960	60.000	60.000	1080psf/25	1920x1080	28.125	50.000
SXGA 11	1152x900	61.200	65.200	1080psf/24	1920x1080	27.000	27.000
SXGA 12	1152x900	71.400	75.600	· · ·			1

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq.(Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq.(Hz)
D-VGA	640x480	31.470	59.940	D-SXGA+ 6	1400x1050	64.744	59.948
D-480p	720x480	31.470	59.880	D-SXGA+ 7	1400x1050	65.317	59.978
D-575p	720x575	31.250	50.000	D-UXGA	1600x1200	75.000	60.000
D-SVGA	800x600	37.879	60.320	D-WUXGA 2	1920 x 1200	74.038	59.950
D-XGA	1024x768	43.363	60.000	D-WSXGA+ 1	1680 x 1050	65.290	59.954
D-WXGA 1	1366x768	48.360	60.000	D-WXGA+1	1440x900	55.935	59.887
D-WXGA 2	1360x768	47.700	60.000	D-720p	1280x720	45.000	60.000
D-WXGA 3	1376x768	48.360	60.000	D-720p	1280x720	37.500	50.000
D-WXGA 4	1360x768	56.160	72.000	D-1035i	1920x1035 (Interlace)	33.750	60.000
D-WXGA 5	1366x768	46.500	50.000	D 4000	1920x1080 (Interlace)	33.750	60.000
D-WXGA 6	1280x768	47.776	59.870	D-1080i	1920x1080	28.125	50.000
D-WXGA 7	1280x768	60.289	74.893	D-1080psf/30	(Interlace) 1920x1080	33.750	60.000
D-WXGA 9	1280x800	49.600	60.050	D-1080psf/25	1920x1080	28.125	50.000
D-WXGA 10	1280x800	41.200	50.000	D-1080psf/24	1920x1080	27.000	48.000
D-WXGA 11	1280x800	49.702	59.810	D-1000psi/24			
D-WXGA 12	1280x800	63.980	60.020		1920x1080	33.750	74.250
D-SXGA 1	1280x1024	63.980	60.020		1920x1080	28.125	74.250
D-SXGA 2	1280x1024	60.276	58.069	D-1080p	1920x1080	27.000	74.250
D-SXGA+1	1400x1050	63.970	60.190		1920x1080	67.500	148.500
D-SXGA+ 2	1400x1050	65.350	60.120		1920x1080	56.250	148.500
D-SXGA+ 3	1400x1050	65.120	59.900				
D-SXGA+ 4	1400x1050	64.030	60.010				
D-SXGA+ 5	1400x1050	62.500	58.600				

When an input signal is digital from the DVI terminal, refer to the chart below.

✓ Note:

• Depending on the condition of signals and the type and length of cables, these signals may not be properly viewed.

• Specifications are subject to change without notice.



The CE Mark is a Directive conformity mark of the European Community (EC).



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty, and electrical hazards.

	Technical Specifications			
Mechanical Information				
Projector Type	Multi-media Projector			
Dimensions (W x H x D)	PLC-XM100L/PLC-XM150L: 19.25" x 6.46" x 14.61" (489.5 mm x 164.0 mm x 371.1 mm) PLC-XM100/PLC-XM150 : 19.25" x 6.46" x 17.12" (489.5 mm x 164.0 mm x 434.8 mm)			
Net Weight	PLC-XM100L/PLC-XM150L: 20.5 lbs (9.3 kg) PLC-XM100/PLC-XM150 : 22.3 lbs (10.1 kg)			
Feet Adjustment Panel Resolution	0° to 4°			
LCD Panel System	0.8" TFT Active Matrix type, 3 panels			
Panel Resolution	1,024 x 768 dots			
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)			
Signal Compatibility				
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N			
SD/HD TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i			
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 48 Hz–100 Hz			
Optical Information				
Projection Image Size (Diagonal)	Adjustable from 40" to 300" (PLC-XM100/PLC-XM150)			
Throw Distance	4.3' (1.30m) - 56.5' (17.23m) (PLC-XM100/PLC-XM150)			
Projection Lens	F1.74–2.37 lens with f=26.85 mm–45.43 mm with motor zoom and focus			
	(PLC-XM100/PLC-XM150)			
Projection Lamp	PLC-XM150L/PLC-XM150:330 W NSHA lamp			
	PLC-XM100L/PLC-XM100:275 W NSHA lamp			
Interface				
Input 1	Digital (DVI-D) x 1, Analog (Mini D-sub 15 pin) x 1			
Input 2	BNC Type x 5 (G or Video/Y, B or Pb-Cb, R or Pr-Cr, HV and V)			
Input 3	RCA Type x 3 (Video/Y, Pb/Cb,Pr/Cr), Mini DIN 4 pin x 1 (S-video)			
Analog Out	Analog RGB (Mini D-sub 15 pin) Terminal x 1			
Audio Out	Audio (Mini Type stereo) x 1			
Audio In 1/2	Audio (Mini Type stereo) x 1			
Audio In 3	RCA Type x 2			
R/C Jack	Mini jack (Wired Remote) x 1			
Control Port	D-sub 9 pin x 1			
USB Connector	USB Series B x 1			
Option	PJ-Net Organizer Terminal x 1			
LAN Connection Terminal Audio	RJ45			
Internal Audio Amp	7.0 W RMS			
Built-in Speaker	1 speaker, ø1.46" (37mm)			
Power				
Voltage and Power Consumption	AC_100–120 V (5.2A Max. Ampere), 50/60 Hz (The U.S.A and Canada)			
	AC 200–240 V (2.5A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)			
Operating Environment				
Operating Temperature	41°F–104°F (5°C–40°C)			
Storage Temperature Remote Control	14°F–140°F (-10°C–60°C)			
Battery	AAA or LR03 Type x 2			
Operating Range	16.4' (5 m/±30°)			
Dimensions	1.8" (W) x 1.0" (H) x 5.7" (D) (45 mm x 25 mm x 145 mm)			
Net Weight	3.5 oz (99 g) (including batteries)			
Accessories				
Owner's Manual (CD-ROM)	Lens Cap (for PLC-XM100/PLC-XM150) * Contact the dealer where you purchased			
Quick Reference Guide	Lens Mount Cover (for PLC-XM100L/PLCXM150L) the projector or the service center about the			
AC Power Cord	Lens Antitheft screw * Lens Antitheft Screw.			
Remote Control and Batteries	VGA Cable			
USB Cable	PIN Code Label			

• The specifications are subject to change without notice.

• LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

Appendix

Optional Parts

The parts listed below are optionally available. When ordering those parts, specify the item name and Model No. to the sales dealer.

	Model No.
Standard Zoom Lens	: LNS-S20
Long Zoom Lens	: LNS-T20
Ultra Long Zoom Lens	: LNS-T21
Short Zoom Lens	: LNS-W20
Short Fixed Lens	: LNS-W21
SCART-VGA Cable	: POA-CA-SCART
Remote Control Cable	: POA-CA-RC30
PJ-Net Organizer Plus II	: POA-PN03A
PJ-Net Organizer Plus IIC	: POA-PN03C

Lens Replacement

The lens of this projector can be replaced with other optional lens. This feature enables you to use the projector for wide variety of uses.

For installation and replacement of the lens, always contact the sales dealer. The projector lens must be installed or replaced by well-trained sales or service engineers. Do not attempt to install and replace the lens by yourself as it may cause injury.

Do not hold the lens when carrying or lifting the projector. It may cause serious damage to the projector.

To the sales and service engineers:

For the lens replacement and lens installation, refer to the installation manual of the optional lens. Before replacing and installing the lens, make sure that you are using the lens with the correct Type No.

PJ Link Notice

This projector is compliant with PJLink Standard Class 1 of JBMIA (Japan Business Machine and Information System Industries Association). The projector supports all commands defined by PJLink Class 1 and is verified conformance with PJLink Standard Class 1.

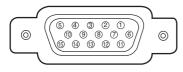
Projector Inp	put	PJLink Input	Parameter
Input 1	RGB (PC analog)	RGB 1	11
	RGB (Scart)	RGB 2	12
	RGB (PC digital)	DIGITAL 1	31
	RGB (AV HDCP)	DIGITAL 2	32
Input 2	Video	VIDEO 1	21
	Y, Pb/Cb,Pr/Cr	VIDEO 2	22
	RGB	RGB 3	13
Input 3	Video	VIDEO 3	23
	Y, Pb/Cb,Pr/Cr	VIDEO 4	24
	S-video	VIDEO 5	25
Input 4	Network	NETWORK 1	51

PJLink is a registered trademark of JBMIA and pending trademark in some countries.



Configurations of Terminals

ANALOG/ MONITOR OUT (Mini D-sub 15 pin)



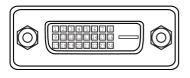
Input

)
osite H/V sync.)

Output

	•		
1	Red Output	9	No Connect
2	Green Output	10	Ground (Vert.sync.)
3	Blue Output	11	No Connect
4	No Connect	12	No Connect
5	Ground (Horiz.sync.)	13	Horiz. sync. Output
6	Ground (Red)	14	Vert. sync. Output
7	Ground (Green)	15	No Connect
8	Ground (Blue)		

DIGITAL DVI-D (DVI 24 PIN)



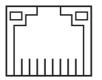
1	T.M.D.S. Data2–	9	T.M.D.S. Data1–	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	No Connect	12	No Connect	20	No Connect
5	No Connect	13	No Connect	21	No Connect
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5V)	23	T.M.D.S. Clock+
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock-

USB CONNECTOR (Series B)



1	Vcc
2	- Data
3	+ Data
4	Ground

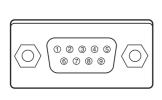
LAN TERMINAL



			-
1	TX +	5	
2	TX –	6	RX –
3	RX +	7	
4		8	

87654321

CONTROL PORT CONNECTOR (D-sub 9 pin)



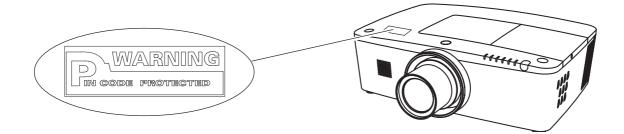
	Serial
1	
2	RXD
3	ТХD
4	
5	SG
6	
7	RTS
8	CTS
9	
9	

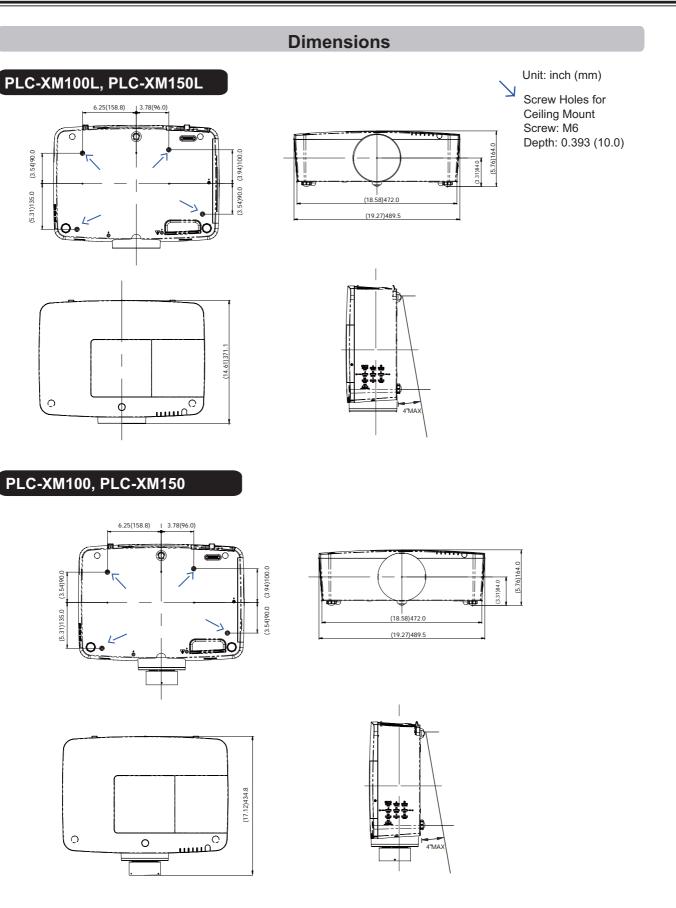
Appendix

PIN Code Number Memo Write down the PIN code number in the column below and keep it with this manual securely. If you forgot or lost the number and unable to operate the projector, contact the service station. PIN Code Lock No. Factory default set No: 1 2 3 4* Logo PIN Code Lock No. Factory default set No: 1 2 3 4* Factory default set No: 4 3 2 1* * Should the four-digit number be changed, the factory set number will be invalid.

While the projector is locked with the PIN code...

Put the label below (supplied) on in a prominent place of the projector's body while it is locked with a PIN code.





Serial Control Interface

This projector provides a function to control and monitor the projector's operations by using the RS-232C serial port.

Operation

- 1 Connect a RS-232C serial cross cable to CONTROL PORT on the projector and serial port on the PC. (See p.19)
- 2 Launch a communication software provided with PC and setup the communication condition as follows:

: 9600 / 19200 bps : none : 1
: none : 8

✓ Note:

The default of the baud rate is set to **19200 bps**. If an error occurs in the communication, change the serial port and the communication speed (baud rate).

3 Type the command for controlling the projector and then enter the "Enter" key.

Example

When you want to change the input to INPUT 2, Type 'C' '0' '6' 'Enter'.

✓ Note:

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

Functional Execution Command

Format

The command is sent from PC to the projector with the format below;

'C' [Command] 'CR'

Command: two characters (refer to the command table below.

-The projector decodes the command and returns the 'ACK' with the format below;

'ACK' 'CR'

-When the projector can not decode the command, it returns with format below.

'?' 'CR'

Command	Function
C00	Turn the projector ON
C01	Turn the projector OFF (immediately OFF)
C02	Turn the projector OFF
C05	Select Input 1
C06	Select Input 2
C07	Select Input 3
C08	Select Network
C09	Volume +
C0A	Volume -
C0B	Sound mute ON
COC	Sound mute OFF
C0D	Video mute ON
C0E	Video mute OFF
C0F	Aspect 4:3
C10	Aspect 16:9
C1C	Menu ON
C1D	Menu OFF
C20	Brightness UP
C21	Brightness DOWN
C23	Select Input 2 Video
C24	Select Input 2 Y, Pb/Cb,Pr/Cr
C25	Select Input 2 RGB
C28	ON Start ON
C29	ON Start OFF
C33	Select Input 3 Video
C34	Select Input 3 S-video
C35	Select Input 3 Y, Pb/Cb,Pr/Cr

Command	Function
C3A	Pointer RIGHT
C3B	Pointer LEFT
C3C	Pointer UP
C3D	Pointer DOWN
C3F	Enter
C46	Zoom DOWN
C47	Zoom UP
C4A	Focus DOWN
C4B	Focus UP
C50	Select Input 1 Analog RGB
C51	Select Input 1 SCART
C52	Select Input 1 DVI (PC Digital)
C53	Select Input 1 DVI (AV HDCP)
C5D	Lens shift UP
C5E	Lens shift DOWN
C5F	Lens shift LEFT
C60	Lens shift RIGHT
C89	Auto PC adj.
C8E	Keystone UP
C8F	Keystone DOWN
C90	Keystone RIGHT
C91	Keystone LEFT

Status Read Command

'Character string' with the format below;

Format

The command is sent from PC to the projector with the format below; 'CR' [Command] 'CR' Command: one character (refer to the command table below. The projector decodes the command and returns the

Command	Function	Projector Return	Projector status
		00	Power On
		80	Stand-by mode
		40	Countdown
		20	Cooling down
		10	Power Malfunction
		28	Cooling down at the temperature anomaly
		24	Cooling down at Power Management mode
		04	Power Management mode after Cooling down
CR0	Status Read	21	Cooling down after the projector is turned off when the lamps are out.
		81	Stand-by mode after Cooling down when the lamps are out.
		88	Stand-by mode after Cooling down at the temperature anomaly.
		2C	Cooling down when the projector is turned off by the shutter management function.
		8C	Stand-by mode after cooling down by the shutter management function.
	Temperature Read	S1 S2 S3	S1 = Temperature at Sensor 1 (°C)
			S2 = Temperature at Sensor 2 (°C)
			S3 = Temperature at Sensor 3 (°C)
CR6			(ex.) S1 = 12.3°C, S2 = 23.4°C, S3 = 34.5°C
			> The projector displays "12.3 23.4 34.5"
			(For each sensor, two digit and the tenth place numbers are displayed with a space between each temperature.)
		?	Communication failure

The tables on page 87 and 88 show the typical command lists for controlling the projector. Please consult your local dealer for further information of other commands.

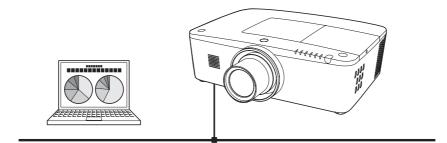




Owner's Manual

Network Set-up and Operation

Wired Setting Projector Set-up and Operation



This is the manual for the Network function. Read this manual thoroughly to operate the Network function. First, read the owner's manual of the projector to understand the basic operation of the projector and the safety instructions. The safety instructions in the owner's manuals should be followed strictly.

Compliance

Federal Communications 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 causes 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 Numbers	: PLC-XM100, PLC-XM100L, PLC-XM150, PLC-XM150L
Trade Name	: Sanyo
Responsible party	: SANYO NORTH AMERICA CORPORATION
Address	: 21605 Plummer Street, Chatsworth, California 91311
Telephone No.	: (818)998-7322

Safety instructions

CAUTION IN USING THE PROJECTOR VIA NETWORKS

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

CAUTION IN USING NETWORK FUNCTION

• SANYO Electric Co., Ltd. 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.

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Chapter 1 Preparation



Describes features and operating environment of this projector.

ENGLISH

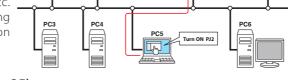
Chapter 1 Preparation

Features

Web Management function (P.31)

PC

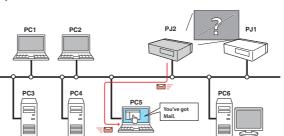
With this function, you can monitor projector functions such as power status, lamp status, input mode, signal condition, lamp-use time, etc. through the network by using the web browser installed on your computer.



PJ2

E-Mail Alert function (Processor)

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



Required operating environment for computers

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

Operating System		Windows 98, Windows Me, Windows NT4.0 Windows 2000, Windows XP, Windows Vista (32bit version) Mac OS X v 10.4 or later
Computer environment	Recommended CPU	Windows: Higher than Pentium III 900MHz Macintosh : 800 MHz PowerPC G4 or faster,or 1.8 GHz Intel Core Processor or faster
	Memory	Windows : 64MB (Minimum)/ 128MB or more (Recommended) 128MB or more for Windows XP 1GB or more for Windows Vista Macintosh : 256MB or more (512MB is recommended)
env	HDD free area	100MB or more
iron	Drive equipment	CD-ROM drive
Iment	Display setting of computer	Support one of following resolutions; VGA (640 x 480), SVGA(800 x 600), XGA(1,024 x 768) Number of col- ors: Either of 16 bit (65,536 color 24/32 bit (16.77 million colors))
	Network card	The computer must provide a 10Base-T or 100Base-TX network card.
Web Browser*		Internet Explorer version 5.0, 5.5, 6.0 or 7.0 Netscape Navigator version 7.1 or 9.0 Safari 3.0 or later * Used to control and set up the projector. The layout of pages in the browser may slightly differ from each type of application or operating system you use.
Internet Mailer*		 Microsoft Outlook - Microsoft Outlook Express Netscape Mail Required the internet e-mail application software to receive an e-mail alert sent from this projector. If you do not use the func- tion E-mail Alert, this application is not required.

Network specifications of the projector

LAN Terminal

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

Chapter 1 Preparation

The limitation¹¹ of connection between the projector and hub or computer

Suitable LAN cables are limited by length and type as follows;

Connection	Type of usable LAN cable	Maximum length	
Projector - Hub	UTP Straight Cable with category 3 or 5 $*^2$	100m	
Projector - Computer	UTP Cross Cable with category 3 or 5^{*_2}	100m	

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

*2 Category of LAN cable indicates the cable quality. Normally, a cable with category 3 or 5 is used for 10Base-T network, and a cable with category 5 is used for 100Base-TX network.

Notice

Expression/Abbreviation

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

Use of this manual

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

Trademarks

Ethernet is a registered trademark of Xerox Corporation. Microsoft, Windows, Windows NT, Windows XP and Windows Vista are registered trademarks of Microsoft Corporation. Internet Explorer is a registered trademark of Microsoft Corporation. Netscape Navigator and Netscape Communicator are trademarks or registered trademarks of Netscape Communications Corporation. JavaScript is a registered trademark of Sun Microsystems, Inc.

Macintosh is a registered trademark of Apple, Inc. in the USA and other countries. PowerPC is a registered trademark of IBM Corporation. Intel Core is a registered trademark of Intel Corporation in the USA and other countries.

Other product or brand names in this manual are registered trademarks or trademarks of their respective owners.

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

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

Flow of installation

Flow of installation

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

STEP 1	Connect the LAN and set the configuration.
•	Decide depending on the LAN environment.
•	→ "2. Setup Procedures" (pp.11–16).
•	Detailed LAN configurations need to be done with a browser later.
•	First, complete the Wired LAN connection between computers and projec-
Ý	tors, then start browser configurations. → "3. Basic setting and operation" (pp.17–30).

STEP 2 Network Configuration has completed.

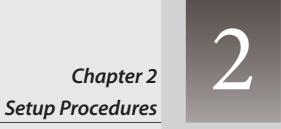
Follow each chapter to operate the projector.

■ Operate and manage the projector → "4. Controlling the projector" (pp.31-44)

- → "Power Control and status check" (p.32)
- → "Control" (p.34)
- → "PC adjustment" (p.38)
- → "Setting up the projector" (p.39)
- → "Projector information" (pp.42-43)

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Chapter 1 Preparation



Describes how to configure the network.

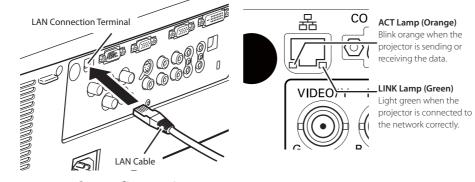
ENGLISH

Chapter 2 Setup Procedures

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

Connecting to the LAN line

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

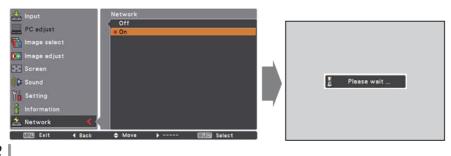


Network configuration

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

Setting Procedure

- 1. Select "Network" in the Network menu, and press Point ▶ or **SELECT** button.
- 2. Select "On" with the Point ▲▼ buttons, and the press **SELECT** button. Then the Menu will disappear, the "Please wait..." message will appear, and switching operation will start. Switching will take a while and the projector's LINK/ACT Lamp will be on or blink, and after completing the operation, the "Please wait..." message will disappear.



12

Network configuration

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

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

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

You can confirm the LAN settings you have made from "Network information" (p.14). In such cases that the LAN cannot be connected, see this screen.

🚣 Input	Network	On	
PC adjust Image select Image adjust	Network setting Network PIN cod Network viewer Network informa Network factory	tion	Network setting
Sound Satting			
Network 🤇	♠ Mave ►	Next (355) Next	

DHCP: On

DHCP: Off

DHCP	On	1	DHCP	Off			
IP address			IP address	169	254	. 100	100
Subnat			Subnet	255	255	. 255	. 0
Gateway	G		Gateway	255	255	255	255
DNS				255	255	255	265
	Set Cancel				6	ot	

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

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

J

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

^{*3} Set [255.255.255] if you do not use the function E-mail alert.

Chapter 2 Setup Procedures

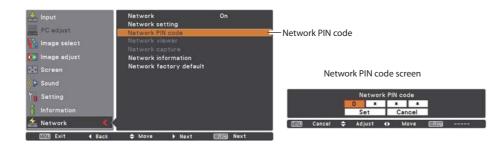
Network PIN code

The Network PIN code is to restrict the access to the projector through the network. After setting the Network PIN code, you need to enter it to operate the projector via the networks.

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

- The Network PIN code screen will appear.
- 2. Set the Network PIN code.

Set the figures with the Point \blacktriangle buttons and move to the next items with the Point \blacktriangleleft buttons. Select "Set" and press **SELECT** button to set. To cancel the preset Network PIN code, select "Cancel". When you do not want to set the Network PIN code, set "0000". It is recommended to set the Network PIN code if you use the projector via the networks. The Network PIN code can be set also through the networks. See "3. Basic setting and operation" \rightarrow "Initial setting" \rightarrow "Network PIN code setting" (p.23).



Network information

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



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Network factory default

No

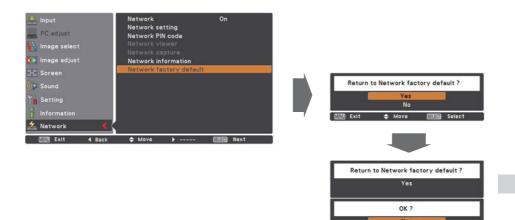
Select

Move

COM Exit

Network factory default

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



Wired LAN factory default settings

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

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Chapter 2 Setup Procedures

3

Basic Setting and Operation

Chapter 3

Describes basic operations and settings for controlling the projector by using the web browser. It is required that computer and projector is connected to the network and the network address is properly configured. Chapter 3 Basic Setting and Operation

Login the setting page of the projector

[1] Enter the IP address

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

Enter the address that you configured in item "Network configuration" (1878 p.12).

🚳 Network - Microsoft Internet Explorer			
File Edit View Favorites Tools Help			
🕞 Back 🝷 🐑 👻 🛃 🏠 🔎 Search 😒			
Address 🕘 http://192.168.1.201/			
 O O O O O O O D D			

[2] Login

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

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

[Note]

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

k	Connect to 192.	168.1.201
IX.		G
	id = user	
	User name:	🖸 user 🔽
	Password:	••••
		Remember my password
		OK Cancel
(id = user	is page, you need to log in to area ' on 192.168.1.201. vd will be sent in the clear.
	Name:	user
	Password:	
	Remem	ber this password in my keychain
		Cancel Log In

Login the setting page of the projector

[3] Display of main setting page

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

Control Initial setting Control Input/System/Sound/Image ad Sub menu tab Set - + 🔝 Power & Status Switches the sub Brightness 32 Set - + menu tab. PC Adj. Set - + 32 Tint Color temp Set - + 32 💿 Control ✓ Set Low 厥 Setting White balance Set - + Set - + Set - + Red 32 E-mail setting Green <mark>32</mark> Blue <mark>32</mark> 🔝 Network 15 Set - + Sharpness Information 8 Set - + ✓ Set SNMP setting OFF ✓ Set Reset Image V Store Load Cineria 🗸 Load Setting page Main menu Displays the control and For selection of control and setting items according to setting items of the projector. the selected menu.

Main setting page in the display

Chapter 3 Basic Setting and Operation

How to use the setting page

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

Example of the setting page

The setting menu appears when clicking the sub menu tab.

* Each item has a valid setting range respectively.

Contrast	32	Set - +
Brightness	32	Set - +
Color	32	Set - +
Tint	32	Set - +
Color temp.	Low	V Set
White balance		
	Red 32	Set - +
	Green 32	Set - +
	Blue 32	Set - +
Sharpness	15	Set - +
Gamma	8	Set - +
Noise reduction	ON	Set Set
Progressive	OFF	Set
Reset		Reset
Store	Image1	Store
Load	Cinema	V Load

Types of setting

Text box setting

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

or

	Contrast	32	Set - +
	Brightness	32	Set - +
	Color	32	Set - +
h	Tint	32	Set - +

Input/ System/ Sound/ Image adj.

Change a value with – or + button.

Pull-down menu setting

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

Tint	35	Set - +
Color temp.	Mid	Set
White balance	High Mid	
	Red Low	Set - +
	Green 32 😽 🕅	Set - +
	Blue 32	Set - +
Sharmana	o	

The value in the text box indicates current value.

Control

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

How to use the setting page

Radio button setting

Select an item by selecting a radio button.



Check box setting

Select items by ticking on check boxes.

E-mail setting Option

- When PJ lamp replacement time is reached.
 When PJ needs service.
 When internal PJ temperature is too high.
 When PJ is turned into Standby in proper user operation.
- When Power management function turns PJ lamp off.
 When Shutter management function turns PJ lamp off.

ENGLISH

Chapter 3 Basic Setting and Operation



Initial setting

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

🔊 Initial setting	Initial setting			
	Language	English	*	Set
🔝 Power & Status	Model name	XM150		
	SERIAL NO.	69Z01234		
PC Adj.	Network PIN cod	9		Set
Control	PJLink	OFF	~	
	Password			Set
_ 🐼 Setting	Ver. 0.007			
E-mail setting	xilbaaraangaaraangaaraan			
Network	daziobrejaziobrejaziobrejaz			
Information	1), 1), 1), I . I			
SNMP setting				

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

ltem	Description
Language	Switches display language on the setting page. English or Japanese.
Model name	Indicates the model name of the projector
SERIAL NO	Indicates the serial number of the projector
Network PIN code	Sets the Network PIN code to login the setting page (🖙 p.23)
PJLink	Switches PJLink password authentication on or off (P.23)
Password	Password for PJLink function (🖙 p.23)

Initial setting

Network PIN code setting

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

Enter a 4-digit number as the Network PIN code onto the text box and click **Set** button. The projector begins restarting and it takes

Language	English 🛛 😪	Set
Model name	XM150	
SERIAL NO.	69Z01234	
	1234	Set
PJLink	OFF 😪	~
Password		Set

about 10 seconds. Close (Quit) the web browser and access to the login page again in 10 seconds. This is to perform the login authentication firmly.

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

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

PJLink and password setting

This is to set the PJLink password authentication on or off. If set "On" with the PJLink pulldown menu, the password must be required. Enter a **password*** onto the text box and click **Set** button.

Language	English 💌 S	et
Model name	XM150	
SERIAL NO.	69Z01234	
Network PIN code	1234	et
PJLink	OFF 🗸	
Password	4321	et

I to 32 alphanumeric characters can be used for the password.

What's PJLink?

The projectors equipped with PJLink function can be used together on the same network, regardless of model or brand, for centralized control and monitoring. This standard was established by the Japan Business Machine and Information System Industries Association (JBMIA). Please visit the Website at http://pjlink.jbmia.or.jp/english/.

PJLink Notice

The projector is compliant with PJLink Standard Class 1 of JBMIA, and it supports all commands defined by PJLink Class 1 and is verified conformance with PJLink Standard Class 1.

Projector Input		PJLink Input	Parameter
Input 1	RGB (PC analog)	RGB 1	11
	RGB (Scart)	RGB 2	12
	RGB (PC digital)	DIGITAL 1	31
	RGB (AV HDCP)	DIGITAL 2	32
Input 2	Video	VIDEO 1	21
	Y, Pb/Cb, Pr/Cr	VIDEO 2	22
	RGB	RGB 3	13
Input 3	Video	VIDEO 3	23
	Y, Pb/Cb, Pr/Cr	VIDEO 4	24
	S-video	VIDEO 5	25
Input 4	Network	NETWORK 1	51

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Chapter 3 Basic Setting and Operation



Network configuration

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

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

Network setting			
DHCP	OFF 🗸 🗸		
IP address	172.21.99.251		
Contraction and a second se			and the owner where the party of the party o
DNS			
Projector name		Set	
	DHCP IP address Subnet mask Default gateway DNS Projector name	DHOP DFF V IP address 17221.99251 Subnet mask 2552556 Default gateway 17221.991 DNS 17221.1.53 Set Projector name	DHCP OFF IP address 1722199251 Subnet mask 2552550 Default gateway 17221991 DNS 17221.153 Set

ltem	Description
DHCP	Sets DHCP configuration (ON/OFF).
IP address	Sets IP address of the projector
Subnet mask	Sets Subnet mask. Normally sets 255.255.255.0
Default gateway*1	Sets IP address of the default gateway (Router)
DNS*2	Sets IP address of the DNS server. Must be set when using the e-mail function
Projector name*	³ .Sets name of the projector. (64 characters maximum)
You must us	e the number specified by your administrator. The address must be entered as a

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

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



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

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

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

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



E-mail setting

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

Initial setting	E-mail setting		
Mining Botting	SMTP server	your_smtpserver	Set
Power & Status	Administrator address	admin@abc.xxx.com	Set
PC Adj.	Add address Check/Delete		Set
Control	Option		
Setting			
E-mail setting			
SNMP setting			

Item Description

SMTP server*1..... .Sets server name or IP address of the SMTP server

Administrator address Sets e-mail address of administrator Add address

.Sets e-mail address of the user to send mail when the projector has an abnormality.

1 Setting SMTP server and administrator address

Set the server name or IP address of the SMTP server*' and administrator address. The administrator address is set to "Reply-To" address of the message sent from the projector.

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

If the projector sends an alert message due to the abnormality on the projector but the SMTP server is down in some other reason, the message will not be sent. In this case, the message "Unable to connect to server." will be displayed on the setting page. To clear this message, set up SMTP server address again.

- To use the E-Mail function, it must be set the DNS address on the Network setting page correctly.
- You cannot use this E-mail function if the DNS server and SMTP server cannot be used in your network environment.
- The projector does not send message to the address set in "Administrator address" text box. If you want to send e-mails to the administrator address, enter the administrator address into "Add address" text box.

J

Chapter 3 Basic Setting and Operation

2 Registering and deleting E-mail addresses

Click "Add address" and type the e-mail address onto the text box and click **Set** button. To check the registered addresses, click **Check/Delete** sub menu tab. The addresses are listed as the figure on the right.

E-mail setting
SMTP server Set
Administrator address admin@abc.xxx.com Set
Add address user2@abc.xxx.com Set
Check/Delete
Option

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



3 Option selection for sending alert mail

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

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



 "When PJ lamp is off" signifies the lamp goes out without user operation. "When PJ is turned into Standby in proper user operation" signifies that the projector is turned on by using the web browser and then it is turned into standby with ON/STANDBY button on the top control or the remote control.
 Up to 99,999 hours can be set for use time.



E-mail setting

Examples: Type and contents of alert mail

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

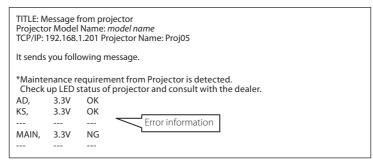
The following are examples of received messages.

When internal PJ temperature is too high:

TITLE: Message from projector Projector Model Name: *model name* TCP/IP: 192.168.1.201 Projector Name: Proj05 It sends you following message. *The Projector lamp is turned off, because internal projector temperature is too high. Wait for the completion of the cooling process and make sure the projector has been turned into Standby. Then turn the projector on again. If the Indicator continues flashing, check the air filter for dust accumulation.

-

When PJ needs service:



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



Chapter 3 Basic Setting and Operation

• When PJ lamp replacement time is reached:

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

It sends you following message.

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

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

• When lamp corres. value reaches preselect use time:

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

It sends you following message.

*The accumulated lamp use time has reached 2000 hours.



SNMP setting

This projector provides a SNMP (Simple Network Management Protocol) agent function. The SNMP consists of a manager and agents. The group which communicates information each other with SNMP is called

"Community". There are two access modes in a community, Refer (read only) and Set (readwrite). This projector allows to use Refer (read only) only. The SNMP message informs the projector status called "Trap" to an administrator. Click **SNMP Setting** on the main menu and set up each item.

Power & Status	Contact		Set
Tower & Otatus	Place		Set
PC Adj.	Community name(refer)	public	Set
Control	Trap Community name	public	Set
Setting	Add address Check/Delete		Set
E-mail setting	Option		
Network			
Information	ing most programs from programs programs into a		
SNMP setting			

PJ information

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

Trap

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

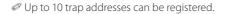
Chapter 3 Basic Setting and Operation

Trap check/delete

Check and delete the trap address

Checking the registered trap address and deleting the address. To delete the address, tick check box in front

of the IP address and click **Delete** button.



Trap option

Trap option setting

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

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



When internal PJ temperature is too high. When PJ is turned into Standby in proper user operatio When Power management function turns PJ lamp off. When Shutter management function turns PJ lamp off When accumulated filter use time reaches hours. Filter Warning When lamp Corres.Value reaches	When PJ lamp is off.	
 When PJ needs service. When internal PJ temperature is too high. When PJ is turned into Standby in proper user operatio. When Power management function turns PJ lamp off. When Shutter management function turns PJ lamp off. When signal is interrupted. When accumulated filter use time reaches hours. Filter Warning. When lamp Corres Value reaches hours. 	When PJ lamp replacement time is reached.	
When PJ is turned into Standby in proper user operatio When Power management function turns PJ lamp off. When Shutter management function turns PJ lamp off When the signal is interrupted. When accumulated filter use time reaches hours. Filter Warning When lamp Corres Value reaches	When PJ needs service.	
When Power management function turns PJ lamp off When Shutter management function turns PJ lamp off When the signal is interrupted When accumulated filter use time reaches hours Filter Warning When lamp Corres Value reaches	When internal PJ temperature is too high.	
When Shutter management function turns PJ lamp off When the signal is interrupted. When accumulated filter use time reaches hours. Filter Warning When lamp Corres Value reaches	When PJ is turned into Standby in proper user opera	
When the signal is interrupted. When accumulated filter use time reaches hours. Filter Warning When lamp Corres Value reaches	When Power management function turns PJ lamp off.	
When accumulated filter use time reaches hours. = Filter Warning = When lamp Corres Value reaches	When Shutter management function turns PJ lamp of	
hours. ■ Filter Warning ■ When Iamp Corres Value reaches	When the signal is interrupted.	
■ Filter Warning ■ When lamp Corres.Value reaches	When accumulated filter use time reaches	
When lamp Corres.Value reaches	hours.	
hours	When lamp Corres Value reaches	
nours	hours.	
Get Contraction of the second s		

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



Chapter 4 Controlling the Projector



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

ENGLISH

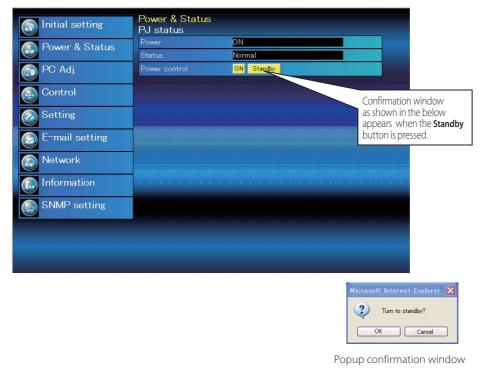
Chapter 4 Controlling the Projector

0



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

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



Item	Description
PJ status	
Power	Displays the status of the lamp. (ON, OFF, On starting up, On cooling down)
Status	Displays the status of the projector's power. (Refer to next page.)
Power co	ntrolControls the projector power by clicking the "ON" or "Standby" button.

The projector cannot be turned on while the projector is on cooling down.

The web browser checks and updates the projector's condition every 30 seconds automatically.

Power control and status check

About projector condition

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

When a security (PIN code lock) has been set on the projector, you also cannot control it through the network. To control the projector through the network, unlock the security on the projector using with the projector's menu control.

Caution about turning on/off the projector via the networks

When turning on/off the projector via the networks, preset the projector as follows:

1. Select "Setting" from the Projector menu.

2. Select "Standby mode" from the Setting menu and set it as "Network".

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

Chapter 4 Controlling the Projector



Control

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

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

Power & Status	RGB 5BNC	RGB(PC analog)	
PC Adj.	● VIDEO	Video 🗸 🗸	
Control			
Setting Setting			
E-mail setting			
Network			
Information			
SNMP setting			

Input

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

ltem	Description	
Input	Selects input	mode of the projector.
Source	Selects signal	source of the input.
	RGB :	RGB (PC analog)
		RGB (Scart)
		RGB (PC digital)
		RGB (AV HDCP)
	5BNC :	Video
		Y, Pb/Cb, Pr/Cr
		RGB
	VIDEO :	Video
		Y, Pb/Cb, Pr/Cr
		S-video

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

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

Control

System

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



Available selection at the RGB(PC analog) input	
ltem	Description

item	Description
XGA1	It automatically switches to the proper computer sys- tem of the input signal.
	* The computer system modes (VGA, SVGA, XGA, SXGA, UXGA, WXGA) which meet the input signal are listed.

Available selection at the RGB(PC digital) input

ltem	Description
D-XGA	It automatically switches to the proper computer sys- tem of the input signal.
	* The computer system modes (D-VGA, D-SVGA, D-XGA. D-SXGA1) which meet the input signal are listed.

Available selection at the RGB(AV HDCP) input Item Description

D-480p	It automatically switches to the proper scanning system of the input signal.
	* The selectable scanning systems are D-480p, D-575p, D-720p, D-1035i and D-1080i.

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

ltem	Description
AUTO	It automatically switches to the proper color system of the input signal. * The selectable color systems are PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N. * AUTO is fixed at the Scart input.

Available selection at the Component input

Item	Description
AUTO	lt automatically switches to the proper scanning system of the input signal.
	* The selectable scanning systems are 480i, 575i, 480p, 575p, 720p, 1035i, 1080i and 1080p.

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If the mode (Mode1 to Mode10, ExMode11 to ExMode60) which is stored in the item "PC Adjustment" (ISP p.38) is available, they are also listed together with the above mode.

Chapter 4 Controlling the Projector

Sound

This function is to adjust the sound of the projector. The values in the text box represent the current control value or status.

Sound/Image adj.	
15	Set - +
OFF	v Set
ON	✓ Set
	OFF

ltem	Description
Volume	Adjusts the sound volume from the speaker. $(0 \sim 63)$
Mute	Suppresses the sound. (ON, OFF)
Built-in SP	Suppresses the built-in speaker. (ON, OFF)

Image adjustment

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

Item	Description	Control			
Contrast	Adjusts picture con-	Input/ System/ So Contrast	bund/Image adj. 32		
	trast. (0~ 63)			-	et - +
Brightness	Adjusts picture bright-	Brightness	32	S	iet - +
	ness. (0~ 63)	Color	32	s	iet - +
Color	Adjusts picture color	Tint	32	S	iet - +
	saturation. (0~ 63)	Color temp.	Low	~ S	et
Tint	Adjusts picture hue.	White balance			the second state
C 1 .	(0~ 63)		Red 32		iet - +
Color temp	Sets a color temperature	18	Green <mark>32</mark>		iet - •
	mode. (High, Mid, Low, XLow, Adi.)		Blue <mark>32</mark>	S	iet - +
White Balance		Sharpness	15	S	iet - +
Thinke Balance	: , Blue Adjusts each white	Gamma	8	S	iet - +
neu, Green,	balance respectively.	Noise reduction	ON	✓ S	et
	(0~ 63)	Progressive	OFF	~ S	iet
* W	hen changing the value of the	Reset			Reset
wł	nite balance, the color temp.	Store	Image1	~ [8	Store
ind	dicates "Adj."	Load	Cinema	~ L	oad
Sharpness	Ádjusts picture sharpness. (0~ 31)				
Gamma	Adjusts brightness of da	irker part of the pi	cture. (0~ 15)		
Noise reduction	1 Switches noise reduct	ion mode (ON, (OFF)		
Progressive	Switches progressive	mode (ON, OFF,	Film)		
-	Resets the Image adju				
	Stores the Image adju			mage1	- Image10]
5.010	from the pull-down m			nuger	mageroj
Load	Loads the Image mod			he null.	-down menu
LUdU	and click Load buttor input mode as shown	n. There may not	be available mo	de depe	ending on the

Input source Image mode Video Computer					
Image mode	Video	Computer			
Standard	~	~			
Cinema	~	*			
Real	*	~			
lmage1 - 10	~	~			

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

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Chapter 4 Controlling the Projector



PC adjustment

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

🔊 Initial setting	PC Adj.							
	Current mode		XGA1					
🔝 Power & Status	Auto PC adj		Auto PC adj.					
	Fine sync		9		Set	- •		
PC Adj.	Total dots		1344		Set	- •		
Control	Clamp		1		Set	- •		
	Display area							
🕟 Setting					Set	- •		1000
		Vertical	768		Set	- •		
E-mail setting	Position							
🔊 Network		Horizontal Vertical			Set Set	- •		
	Reset	vertical	Reset					specia and k
Information	Mode		Mode1,Free	~	Store	1 (6)	contensate
SNMP setting	Mode		Model,Free	~	Store	Free	J	

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

Setting up the projector



Setting up the projector

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

Initial setting	Setting Screen setting/Se	etting1/2/3		
Power & Status	Input button	Mode2	V Set	
	Background	Blue	V Set	
PC Adj.	Display	OFF	👻 Set	
Control	Logo	Default	V Set	
Setting				
E-mail setting	× nysiier x nysiier x nysiier x nysiie			
Network	Na 1000 M Jarob M Jarob M Jarob			
- 🕞 Information				
SNMP setting				
1 1 1 1 1				

Screen setting

This function is to adjust the screen mode of the projector. The values in the text box represent the current screen status.



Description

Item Screen

..Switches the screen mode. (Normal, Wide, True, Full, Custom) There may not be available mode depending on the input mode as shown in the table below.

Input source Screen mode Video Computer				
Normal	~	~		
Wide	~	~		
True	*	~		
Full	*	~		
Custom	~	~		

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

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Chapter 4 Controlling the Projector

Setting 1

ltem	Description	Setting		
Input button	Sets the input search mode by pressing the INPUT button of the projector and	Screen setting/Se Input button	etting1/2/3 Mode2	v Set
	the remote control. (Mode1, Mode2,	Background	Blue	👻 Set
	Mode3)	Display	OFF	V Set
Background	Sets the screen background when no signal input. (Blue, User, Black)	Logo	Default	V Set
Display	Switches on or off the on-screen menu display on the screen. (OFF, Countdown of Countdown offDisplays input image in:		tdown during t	he startup.
Logo	Sets on or off the logo display on the scree	en during the st	artup. (OFF, Def	fault, User)

Setting 2

ltem	Description	Setting	1 <u>1 1</u>		*
Ceiling	Sets the image top/bottom and left/ right reversed. (ON, OFF)	Screen setting/Setting Ceiling	1/2/3 Off	V Set	
Rear	Sets the image left/right reversed. (ON, OFF)	Rear Power management	OFF Ready	✓ Set	
Power			e 5 min.	Set -	•
management	Sets into the selected power manage- ment mode (OFF, Ready, Shutdown) if	On start Lamp control	OFF Ecol	V Set	
	the input signal is interrupted and no	Lamp life control	Mode1	Set Set	
	control key is pressed for the specified period of time.	Remote control Fan speed control	Code1 Normal	V Set	
	*The specified time can be set 1 to 30 min.				
On start	Sets the power-on mode when the AC c	ord is connected to	o the outlet.		
•	Selects lamp control mode. (Auto, Norma	al, Eco1, Eco2)			
Lamp life					
control	Selects lamp life control mode (Mode1, N the recommended total hours of use.	Mode2) when the to	otal use time	exceeds	5
Remote control Fan speed	Selects the remote control code. (Code1	- Code8)			
	Sets the running speed for the cooling fa	ans. (Normal, Max)			

Setting up the projector

Setting 3 Item Description Setting etting/Setting1/2/3 Filter counter(h) .. Displays the filter counter. Reset the Reset time after filter cartridge replacement. B Click "Reset", a confirmation display ✓ Set appears, and then click "OK", the time OFF will be reset. Exe OFF * Do not reset the Filter counter when Y Set the filter cartridge is not replaced. Shutter managemen Set - + e 180 m Scrolls Y Set OFF remaining. Displays the scrolls remaining of the filter. Reset the scroll counter after filter Execute cartridge replacement. Click "Reset", a confirmation display appears, and then click "OK", the time will be reset. * Do not reset the Scrolls remaining when the filter cartridge is not replaced. Filter control. .Scroll the filter. Click "Roll-up", a confirmation display appears, and then click "OK", the filter will be scrolled. Filter warning... .Sets the time to indicate the filter warning message on the screen. (OFF, 400H, 700H, 1000H) PJ lock When the projector has a security of PIN code lock, disable this function temporarily suspend by pressing Execute button. Setting procedure 1. Turn off the projector , disconnect AC cord from the outlet and then connect AC cord again. 2. Access this page with the web browser. 3. Click Execute button on the PJ lock suspend. * This function is disabled after the projector turns on. Shutter. ..Sets the shutter operation. (ON: close, OFF: open) Shutter management.....Sets the specified period of time when the projector shuts down after the projector is left with the shutter closed. *The specified time can be set 5 to 180 min. Freeze. .Sets the image to freeze mode. (ON, OFF) Factory defaultSets all of the projector control items to the factory default setting except the following items. Lamp Corres. Value, PJ time, Network PIN code, Network setting * This function is not effective for the settings of Network address settings, e-mail settings, etc.

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Chapter 4 Controlling the Projector



Information

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

💿 Initial setting	Information		
Initial Setting	Input	VIDEO	
Power & Status		Video	
	System	AUTO	
👩 PC Adj.	Signal	Yes	
	Screen	Normal	
💮 Control	Lamp status		
🔊 Setting	Security	No	
W Oetting	PJ time(h)	20	
E-mail setting	Lamp Corres Value(h)	23	
	Filter time(h)	21	The state of the s
Network	Filter condition		
Information	Update		
SNMP setting	Click this but update the ir		

ltems	Description
Input	Displays selected input and source.
System	Displays selected signal system.
Signal	Input signal status (Yes, No)
Screen	Displays screen mode.
Lamp status	Displays lamp status with an icon. Refer to the table as shown in the next page.
Security	Displays the security (PIN code lock) status (Yes, No)
PJ time(h)	Displays the accumulated use time of the projector.
Lamp Corres. Value(h)	Displays the use time (Corresponding value) of the lamp.
Filter time(h)	Displays the accumulated use time of the filter.
Filter condition	Displays filter status with an icon. Refer to the table as shown in the next page.

Information

Indication of the lamp status

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

Indication of the filter status

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



Chapter 4 Controlling the Projector

Chapter 5 Appendix



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

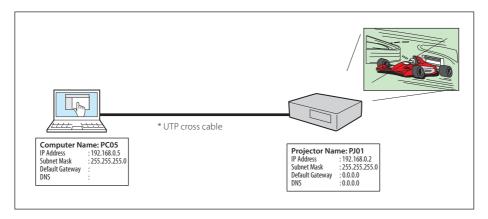
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Chapter 5 Appendix

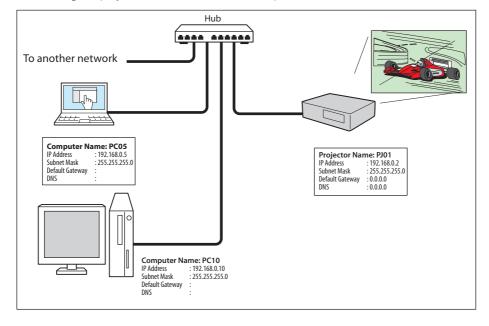
Examples of connection

Peer-To-Peer connection

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



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

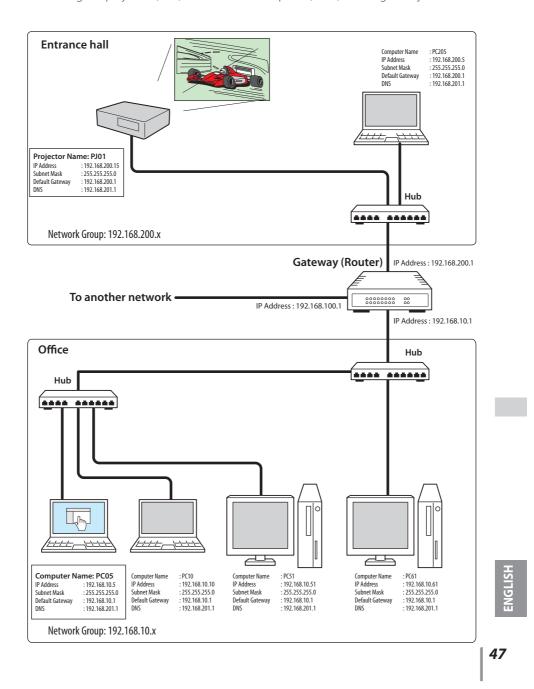


 $\ensuremath{\mathscr{P}}$ When the projector is connected to the computer directly without hub, the UTP cross cable should be used.

Examples of connection

The gateway (Router) installed in the network

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



Chapter 5 Appendix

Use of telnet

You can control the projector by using the telnet application^{*1} installed on your computer. Normally, the telnet application is available on your computer. * The telnet 10000 port is used to control the projector.

Control

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

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



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

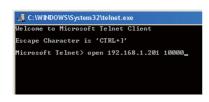
1. Select **Terminal** from **Applications** -->Utilities.



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



- 2. The telnet application will start and the following window will be displayed. Type as below to connect the projector.
 - > open 192.168.1.201 10000 [return]



* Use the IP address assigned to the projector.

Terminal — telnet — 80x24 Last login: Tue Feb 26 15:59:82 on ttyp1 Welcome to Darvin! MacIntosh:~ qj3 telnet telnets-open 172.21.99.251 Connected to 172.21.99.251. Escape character is 'A]. PASSWORD:

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3. When communication is established correctly, the word "PASSWORD:" appears on the window. Type the login password (Network PIN code^{*2}) for the projector and then press "Enter" key on the keyboard. If you do not set up the Network PIN code, just press "Enter" key.

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

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

📑 Telnet 192.168.1.201	00	Terminal — telnet — 80x24
PASSWORD: 1*2*3*4*	Welcome to Darwi	
Hello -	Macintosh:~ gj\$ telnet> open 172 Trying 172.21.99 Connected to 172 Escape character	.21.99.251 10000 .251 .21.99.251.
	PASSWORD: 1234	
	Hello	

4. Type the commands, refer to below table, to control the projector and then press "Enter" key for termination. For example, type "C00" which is a command to turn on the projector, and press "Enter" key. Confirm the projector is turning on. * Enter with ASCII 64-byte capital characters and one-byte characters.

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

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

_		
(Command	Function
	C00	Power on
	C02	Power off
	C09	Volume up
	COA	Volume down
	COB	Audio Mute on
	COC	Audio Mute off
	C1C	Menu display on
	C1D	menu display off
- 1		

Command list table

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

*2 The password is a Network PIN code decided item "Network PIN code setting" (spp.14, 23). If the authentication of the entered password is failed 4 times continuously, the communication will be disconnected automatically. Please try again for the connection.



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

Chapter 5 Appendix

Web browser setting

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

Active Script/JavaScript enable

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

Proxy setting

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

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

Web browser setting

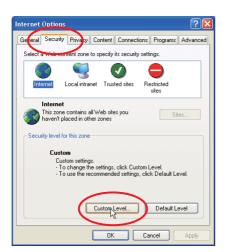
Examples: OS/Browsers

Windows XP Professional

Internet Explorer v.6.0

ActiveScript setting

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







Chapter 5 Appendix

Proxy setting

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

- Using proxy server

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

- Not using proxy server

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

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

ocal Area Network (LAN) Settings	Proxy Settings	2
Automatic configuration Automatic configuration may override manual settings. To ensure the	Type Provy address to	use Port
use of manual settings, disable automatic configuration.	HTTP: Proxy.xxx.com	: 8080
Automatically detect settings	HTTP: proxy.xxx.com	. 0000
Use automatic configuration script	FTP: proxy toxetcom	
Address	proxymouth	: 8080
Proxy server	Gopher: proxy.com	: 8080
	Socks:	:
Use a proxy server for your LAN (These settings will not apply to dial up or VEN connections)	Use the same proxy server f	or all protocols
Address: proxy.xxx.com Port: 8080 Advanced Bypass proxy server for local addresses	Exceptions Do not use proxy server for add	resses beginning with:
OK Cancel	192.168.1.201	~
	Use semicolons (;) to separate	entries.
designate proxy settings that will not use the oxy server when accessing the projector installed		OK Cancel
the local area network, enter the IP address or main name here.		

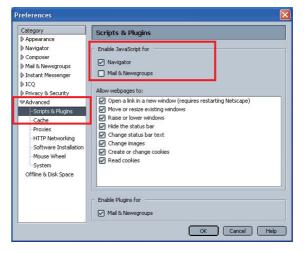
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Web browser setting

Netscape Navigator v.7.1

JavaScript Setting

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

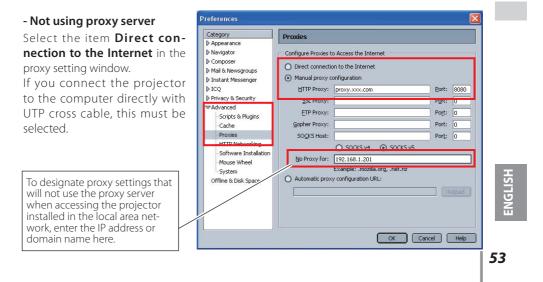


Proxy setting

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

- Using proxy server

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



Chapter 5 Appendix

MAC OS X v 10.4

Safari v.3.2.1

JavaScript enable setting

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



Proxy setting

- 1 Open Preferences... from Safari menu on the web browser Safari. The preference menu appears.
- 2 Select Advanced icon and then click Proxies: Change Settings
- **3** Select **Proxies** tab and properly set up your web browser **Safari**'s the proxy server settings according to the local area network environment to which the projector is connected.

- Using proxy server

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

- Not using proxy server

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

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

0.0	Advanced	0 00	0	Netw	2333) C	
	kookmarks Tabs RSS AutoFill Security		Location: (Automatic	م •	
	Press Tab to highlight each item Option-Tab highlights each item.		Show: (AirPort TC Configure Proxies:	P/IP PPPoE	AppleTak Proxies	
Style Shee	t: None Selected	se se	lect a proxy server to confi	igure:	Web Proxy Server	
	Concernant of the second secon		FTP Proxy	0	proxy.xxxx.com	: 8080
Proxie	s: Change Settings	0	Web Proxy (HTTP) Secure Web Proxy (HTTPS) Streaming Proxy (RTSP)		Proxy server requires	
		E	Exclude simple hostname:	5		
		By	pass proxy settings for the	se Hosts & D	omains:	
			92.168.1.201			
proxy server w	roxy settings that will not hen accessing the project a network, enter the IP ad	tor installed		Use Passiv	ve FTP Mode (PASV)	(7)
domain name	here.		Click the lock to prevent furt	ther changes.	(Assist me)	(Apply Now)

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Q&A

Α

Installation/Access

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

- Following causes are possible. Please check them.
 - 1. The projector does not connect to the network.
 - Check LED indicators status (ISP p.12).
 - Check the connection of LAN cable if the LINK Lamp does not light green.
 - Check the network configuration of the projector if the ACT Lamp does not blink orange.
 - 2. Wrong network configuration of the computer.
 - Check the network configuration of the computer.
 - 3. The proxy setting of the web browser is not set correctly (1 p.52).
 - 4. The computer does not provide TCP/IP protocol.

Q How can I restrict access from the computer.

1. Please use the password authentication function on the login page (187 p.23). 2. Please use the IP filtering function provided with the gateway (router) to restrict the accessing from the computer. For further information please consult your network administrator.

Α

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

- Α There are some ways to access to the projector in the LAN, but you must consult your network administrator for security reason.
 - Use of modem (Connect to the company's network from your home or some other places by using modem.)
 - Use of private line (Connect to the company's network from the branch office or maintenance
 - office by using private line.)
 - Use of internet

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



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Chapter 5 Appendix

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

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

Q How can I install several projectors?

Α

Install and configure network one by one to avoid the IP address collision each other. To configure the IP address please see item "Network configuration" (187 pp.12-13, 24).

Password/Login

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

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

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

Α

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



Α

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

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



Operation

Q Why can't be turned on/off with web browser?

- A Please make sure the settings of the projector are correct to use the projector. Please set the **Standby mode** of the projector's **Setting menu** to "**Network**". Refer to "4. Controlling the Projector" → "Power control and status check" (I ref p.32 - 33).
- **Q** Why can't I change the controls in the setting page with web browser?
- A Please make sure the projector is turned on. If it is in the standby mode, the setting is not effective to the projector. To control the projector with a web browser, the projector must be in the powered-on condition.
- **Q** Why does it sometimes take a lot of time to complete the page display?
- A The display speed of the page depends on the network environment in which both the projector and computer are placed. It may take much time to complete the page display if network traffic is heavy. Please consult your network administrator.
- Q How many numbers of the E-mail address can I register in the E-mail setting page.
 - You can register up to 10 addresses.

Q

Why am I not receiving E-mail alert messages?

- A Make sure that the registered E-mail address and SMTP server address are correct. If the SMTP server is located in your LAN (Local Area Network), the address should be set to the SMTP server in your LAN. The SMTP server located outside of your LAN may not be available for security reason. For further information please contact your network administrator (res p.25).
 - It may be required for the authentication depending on the SMTP server. This projector does not support this kind of SMTP server.

ENGLISH

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Chapter 5 Appendix

Others

Q What are the rules for IP address assignment?

Α If the network is constructed with TCP/IP protocol, a unique IP address is required for each piece of network equipment. The following are basic rules of the assignment. Rule1

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

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

Rule2

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

Rule3

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



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

Α Possible. Please refer to the item "Use of telnet" (1 p.48 - 49).



Α

What is the MAC address assigned to the projector?

The MAC address is displayed in "Network information" menu (🖙 p.14).

Q Can I update the firmware of the projector.

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

🝙 Initial setting	Initial setting			
	Language	English	~	Set
Power & Status	Model name	XM150		2
	SERIAL NO.	69Z01234		
PC Adj.	Network PIN coo	e		Set
Oontrol	PJLink	OFF	~	Set
Setting	Ver. 0.007			
E-mail setting		Version of the	ana	
Network	daraske sjanske skale sja	firmware	deedaalaa	
Information	1-0-1-0-1-0-1			





NETWORK OWNER'S MANUAL SO-KA8AL