## **Projector**

# **User's Manual - Operating Guide**

Thank you for purchasing this projector.

**WARNING** Before using, first read the "Before using" section of this manual. Them read other sections of this manual to ensure correct usage through understanding. After reading, store them in a safe place for future reference.

**NOTE** • The information in this manual is subject to change without notice.

- The manufacturer assumes no responsibility for any errors that may appear in this manual.
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# **Before Using**

#### SAFETY PRECAUTIONS





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO BAIN OR MOISTURE DANGEROUS HIGH VOLTAGES. ARE PRESENT INSIDE THE ENCLOSURE DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

FCC Radio Frequency Interference Statement

Note:

**USA** only

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

**USA** only

**WARNING:** Changes or modifications made to this equipment, not expressly approved by Toshiba, or parties authorized by Toshiba, could void the user's authority to operate the equipment.

Notice: **CANADA** only This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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

#### **IMPORTANT SAFETY INSTRUCTIONS**

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

#### 1. Read Owner's Manual

After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.



#### 2. Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.



#### 3. Source of Light

Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyes or sight.



#### 4. Ventilation

Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.



#### **IMPORTANT SAFETY INSTRUCTIONS (continued)**

#### 5. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



#### 6. Water and Moisture

Do not use this product near water. - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool and the like.



## 7. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a soft cloth for cleaning.



#### 8. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



## 9. Overloading

Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.



## 10.Lightning storms

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



## **IMPORTANT SAFETY INSTRUCTIONS (continued)**

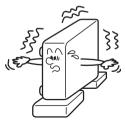
## 11. Object and Liquid Entry

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



# 12.Do not place the product vertically

Do not use the product in the upright position to project the pictures at the ceiling, or any other vertical positions. It may fall down and dangerous.



#### 13.Stack Inhibited

Do not stack other equipment on this product or do not place this product on the other equipment. Top and bottom plates of this product develops heat and may give some undesirable damage to other unit.



#### 14. Attachments

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

#### 15. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart. stand, tripod, bracket. or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



#### **IMPORTANT SAFETY INSTRUCTIONS (continued)**

## 16. Damage Requiring Service

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

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

# 17.If glass components, including lens and lamp, should break, contact your dealer for repair service.

This product incorporates glass components, including a lens and a lamp. If such parts should break, please handle with care to avoid injury and contact your dealer for repair service. The broken pieces of glass may cause to injury. In the unlikely event of the lamp rupturing, thoroughly clean the area around the projector and discard any edible items placed in that area.

## 18.Servicing

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



## 19.Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. (Replacement of the lamp only should be made by users.)

## 20.Safety Check

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



# 21.Do not leave thermal-paper documents or easily deformed items on top of the unit or near the air exhaust.

The heat from the unit could erase the information on the thermal paper, or cause deformation or warping.

Also, when you touch a metal object put near the air exhaust, a burn may be caused.

#### **POWER SUPPLY CORD SELECTION**

If your line voltage is 220 to 240V, use one of the following types of cable.

Plug configuration	Plug type	Line voltage
	EURO	220 - 240V
	UK	220 - 240V

Use a 5A fuse which is approved by ASTA or BSI to BSI362.
Always replace the fuse cover after

Always replace the fuse cover after changing the fuse.

Plug configuration	Plug type	Line voltage
	Australian 240V 10A	200 - 240V
	Switzerland 240V 6A	200 - 240V
	North American 240V 15A	200 - 240V

#### **IMPORTANT PRECAUTIONS**

## **Save Original Packing Materials**

The original shipping carton and packing materials will come in handy if you ever have to ship your LCD projector. For maximum protection, repack the set as it was originally packed at the factory.

#### **Moisture Condensation**

Never operate this unit immediately after moving it from a cold location to a warm location. When the unit is exposed to such a change in temperature, moisture may condense on the crucial internal parts. To prevent the unit from possible damage, do not use the unit for at least 2 hours when there is an extreme or sudden change in temperature.

#### Place and Manner of Installation

- Do not place in hot locations, such as near heating equipment. Doing so could cause malfunction, and shorten the life of the LCD panel.
- Avoid locations with oil or cigarette smoke. Doing so will dirty the LCD panel and other optical parts, shortening their lives, and darkening the screen.
- Do not use in angle of 20° or more degrees. Doing so could shorten the life of the lamp.
- If used at high altitudes, the unit could cease operation even if used within the rated temperature range. This is because the thinner air at high altitudes decreases the internal cooling efficiency. Therefore, please lower the ambient temperature if using at high altitudes.

#### **IMPORTANT PRECAUTIONS (continued)**

#### **Avoid Volatile Liquid**

Do not use volatile liquids, such as an insect spray, near the unit. Do not leave rubber or plastic products touching the unit for a long time. They will leave marks on the finish. If cleaning with a chemically saturated cloth, be sure to follow the product's precautions.

#### LCD Panel

The life of the LCD panel is limited. Take care over the points below so as to use the panel for years.

- To prolong the life of this panel, never fail to turn the power off when the panel is not in use and make sure that the lamp has gone out. The state of the lamp being extinguished helps enhance the effect of energy saving.
- If the air filter is stained and is clogged up, the main unit inner temperature rises. As a result, the life of the LCD is shortened and a malfunction may also occur. Clean the air filter from time to time and replace it regularly. It is recommended that this replacement be done at the time of replacing a lamp. (Ask a dealer where the unit was purchased or your nearby service station about an air filter for replacement.)

<u>In the spaces provided below, record the Model and Serial No.</u> located at the bottom of your LCD projector.

Model No. Serial No.

Retain this information for future reference.

#### **EXEMPTION CLAUSES**

- Toshiba Corporation bears no responsibility in the case of damages arising from natural disaster such as earthquakes, lightning, etc., fire not liable to Toshiba Corporation, operating by third parties, other accidents, or use under abnormal conditions including erroneous or improper operation and other problems.
- Toshiba Corporation bears no responsibility for incidental damages (lost profit, work interruption, corruption or loss of the memory contents, etc.) arising from the use of or the inability to use this unit.
- Toshiba Corporation accepts no liability whatsoever for any damages arising from not having followed the descriptions in this Instruction Manual.
- Toshiba Corporation accepts no liability whatsoever for any damages arising from malfunctions arising from combination with equipment or software that is not related to Toshiba Corporation.

#### OTHER CAUTIONS AND INFORMATIONS

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## Disposal

This product contains substances which are harmful to humans and the environment.

- The solder used in the PCB manufacturing process contains lead.
- The lamp contains inorganic mercury.

Please dispose of this product or used lamps in accordance with local regulations.

# **Projector Features**

This multimedia projector is used to project various computer signals as well as NTSC/PAL/SECAM video signals onto a screen. Little space is required for installation and large images can easily be realized.

#### Ultra High Brightness

Crisp, ultra-bright presentations is achieved by using a UHB (ultra high brightness) lamp and a highly efficient optical system.

#### Whisper Mode Equipped

Special mode is available for reducing projector noise to achieve quieter operation.

#### User Memory Function

This projector can memorize 4 settings by MY MEMORY function.

#### Partial Magnification Function

Interesting parts of images can be magnified for closer viewing.

#### Kevstone Distortion Correction

Quick correction of distorted images electrically.

#### Optical Lens Shift

The lens of this projector can be shifted vertically. When you want to finely adjust the picture position, use the LENS SHIFT buttons.

# **Preparation**

Please see the "Contents Of Package" of the "User's Manual – Quick Guide". Your projector should come with the items shown there. Contact your dealer anything is missing.

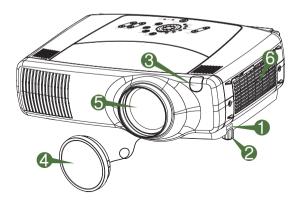
**NOTE** • Keep the original packing material for future reshipment. For moving the projector, be sure to use the original packing material. Use special caution for the lens part.

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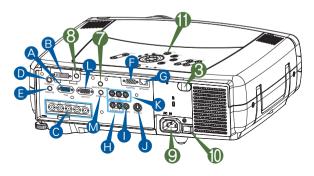
# Part Names

## **Projector**



**Projector (Front/Right)** 

- Flevator button
- Plevator foot
- Remote sensor
- 4 Lens cap
- **5** Lens
  The picture is projected from here
- **6** Filter cover An air filter is inside

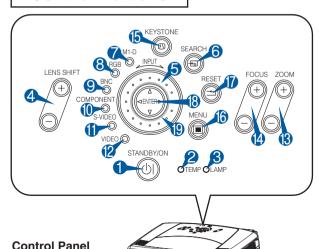


**Projector (Rear/Left)** 

- A RGB port
- B M1-D port
- BNC port
- AUDIO IN 1 port
- AUDIO IN 2 port
- CONTROL port
- **6** NETWORK port
- 1 AUDIO IN R/L port
- VIDEO IN port
- S-VIDEO port
- RGB OUT port
- M AUDIO OUT port
- REMOTE CONTROL port
- O DC OUT port
- AC Inlet
- Power switch
- Control buttons See the following page.

# Part Names (continued)

#### Control Buttons



- STANDBY/ON button. and STANDBY/ON indicator
- 2 TFMP indicator
- A LAMP indicator
- A LENS SHIFT buttons
- A INPLIT dial
- 6 SEARCH button
- M1-D indicator
- 8 RGB indicator
- BNC indicator
- COMPONENT indicator
- S-VIDEO indicator
- VIDEO indicator
- 700M buttons
- FOCUS buttons
- (5) KEYSTONE button
- MENU button
- RESET button
- ENTER hutton

#### Remote Control

- STANDBY/ON button
- 4 LENS SHIFT buttons
- SEARCH button

on the Projector

- 700M buttons
- FOCUS buttons
- (5 KEYSTONE button
- (f) MENU button
- RESET button
- (B) FNTFR button (4D) Mouse left button)



Cursor buttons  $\triangle/\nabla/4/b$ 

( Keyboard 



**Remote Control** 

- LASER INDICATOR
- VIDEO button
- RGR button
- BLANK button
- ASPECT button
- LASER button
- Cursor buttons ▲/▼/◀/▶ ( Mouse move pointer)
- ESC button
  - ( Keyboard ESC key)
- (♣D Mouse right button)
- POSITION button
- AUTO button
- PinP button
- MAGNIFY buttons
- FREEZE button
- VOLUME button
- MUTE button
- ID CHANGE switch

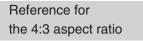
# Setting Up

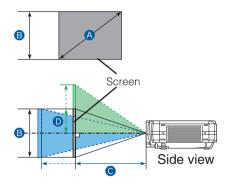
## **Arrangement**

**WARNING** • Before installation, make sure that the projector is turned off and the power code is disconnected.

- Do not set up and move the projector, while it is hot.
- Install the projector in a suitable environment according to instructions of this manual.
- The power outlet should be close to the projector and easily accessible.

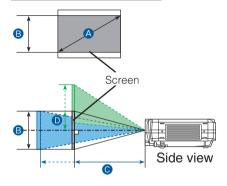
Refer to the illustrations and tables below to determine the screen size and projection distance. The values shown in the table are calculated for a full size screen. (±10%)





A	B	🕒 [typ	e (m)]	🕕 [typ	e (cm)]
[type (m)]	[type (cm)]	min.	max.	min.	max.
40(1.0)	24(61)	46(1.2)	71(1.8)	12(30)	24(61)
60(1.5)	36(91)	71(1.8)	107(2.7)	18(46)	36(91)
70(1.8)	42(107)	83(2.1)	126(3.2)	21(53)	42(107)
80(2.0)	48(122)	95(2.4)	144(3.7)	24(61)	48(122)
100(2.5)	60(152)	120(3.0)	181(4.6)	30(76)	60(152)
120(3.0)	72(183)	144(3.7)	217(5.5)	36(91)	72(183)
150(3.8)	90(229)	181(4.6)	272(6.9)	45(114)	90(229)
200(5.1)	120(305)	243(6.2)	364(9.2)	60(152)	120(305)
250(6.4)	150(381)	304(7.7)	455(11.6)	75(191)	150(381)
300(7.6)	180(457)	366(9.3)	547(13.9)	90(229)	180(457)
350(8.9)	210(533)	427(10.9)	638(16.2)	105(267)	210(533)
400(10.2)	240(610)	489(12.4)	730(18.5)	120(305)	240(610)
500(12.7)	300(762)	612(15.5)	913(23.2)	150(381)	300(762)

# Reference for the 16:9 aspect ratio



A	В	(m)] (type (m)		📵 [typ	e (cm)]
[type (m)]	[type (cm)]	min.	max.	min.	max.
40(1.0)	20(50)	50(1.3)	77(2.0)	10(25)	23(58)
60(1.5)	29(75)	77(2.0)	117(3.0)	15(37)	34(87)
70(1.8)	34(87)	91(2.3)	137(3.5)	17(44)	40(102)
80(2.0)	39(100)	104(2.6)	157(4.0)	20(50)	46(116)
100(2.5)	49(125)	131(3.3)	197(5.0)	25(62)	57(145)
120(3.0)	59(149)	158(4.0)	237(6.0)	29(75)	69(174)
150(3.8)	74(187)	198(5.0)	297(7.5)	37(93)	86(218)
200(5.1)	98(249)	265(6.7)	396(10.1)	49(125)	114(291)
250(6.4)	123(311)	332(8.4)	496(12.6)	61(156)	143(363)
300(7.6)	147(374)	399(10.1)	596(15.1)	74(187)	172(436)
350(8.9)	172(436)	466(11.8)	696(17.7)	86(218)	200(508)
400(10.2)	196(498)	533(13.5)	795(20.2)	98(249)	229(581)
450(11.4)	221(560)	600(15.2)	895(22.7)	110(280)	257(654)

## Adjusting The Projector's Elevator

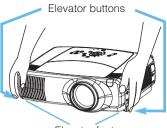
**WARNING** • Do not touch about the lens and ventilation openings during use or immediately after use to prevent a burn.



**CAUTION** • To prevent damaging the projector and injuring yourself, always hold the projector whenever using the elevator buttons to adjust the elevator feet.

You can use the elevator feet to make adjustments if the surface on which you need to set the projector is uneven or if you otherwise need to adjust the angle of projection. The adjustment range of the elevator feet is 0 to 9 degrees.

- Press and hold in the elevator buttons.
- Raise or lower the projector to the desired height and then release the elevator buttons. When you release the elevator buttons, the elevator feet will lock into position.
- As necessary, you can also finely adjust the height of the projector by twisting the elevator feet by hand.

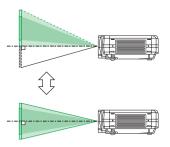


Flevator feet

## **Using The Lens Shift Buttons**

The lens of this projector can be shifted vertically. When you want to finely adjust the picture position, use the LENS SHIFT buttons of the projector.





# **Connecting Your Devices**

**WARNING** • Whenever attempting to connect other devices to the projector, read thoroughly, this manual and the manual of each device to be connected. Incorrect connecting could result in fire or electrical shock.

**CAUTION** • TURN OFF ALL DEVICES prior to connecting them to the projector. Attempting to connect a live device to the projector may generate extremely loud noises or other abnormalities that may result in malfunction and/or damage to the device and/or projector.

**ATTENTION** • Make sure that you connect devices to the correct port. Incorrect connection may result in malfunction and/or damage to the device and/or projector. Refer to the section "Technical" of this manual for the pin assignment of connectors and RS-232C communication data.

- Some cables have to be used with core set. Use the accessory cable or a designated-type cable for the connection. For cables that have a core only at one end, connect the core to the projector.
- Secure the screws on the connectors and tighten.
- Whenever attempting to connect a laptop computer to the projector, be sure to activate the laptop's RGB external image output (set the laptop to CRT display or to simultaneous LCD and CRT display). For details on how this is done, please refer to the instruction manual of the corresponding laptop computer.

**NOTE** • Some computers may have multiple display screen modes. Use of some of these modes may not be compatible with this projector.

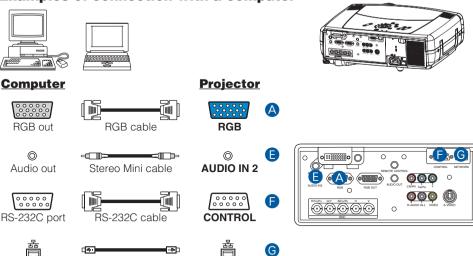
- For some RGB input modes, adapter or conversion cable is necessary.
- When the image resolution is changed on a computer, depending on an input, automatic adjust function may take some time and may not be completed. In this case, you may not be able to see a check box to select "Yes/No" for the new resolution on Windows. Then the resolution will go back to the original. It might be recommended to use other CRT or TFT monitors to change the resolution.

## **NOTE** Plug-and-Play Capability

- Plug-and-Play is a system incorporated in the computer, its operating system and peripheral equipment (i.e. display devices).
- This projector is compatible with VESA DDC 1/2B. Plug-and-Play can be achieved by connecting this projector to computers that are VESA DDC (display data channel) compatible.
- Please take advantage of this function by connecting the accessory RGB cable to the RGB port (DDC 1/2B compatible). Plug-and-Play may not work properly if any other type of connection is attempted.
- Please use the standard drivers in your computer as this projector is a Plug-and-Play monitor.

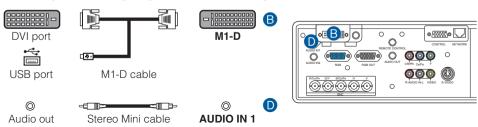
Please refer to the following (for example) for connecting your devices. See the rear of the projector. You can see the ports.

## **Examples of connection with a computer**



#### ■ If using a M1-D input (to mouse control)

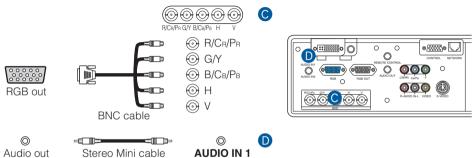
CAT-5 cable



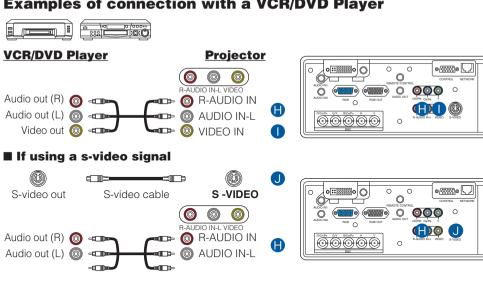
**NETWORK** 

#### ■ If using a BNC input

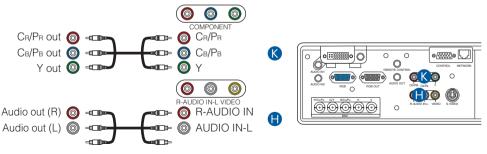
Network port



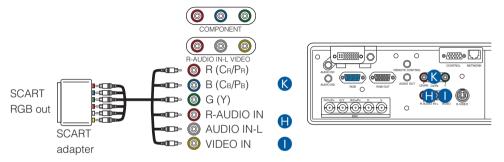
## **Examples of connection with a VCR/DVD Player**



#### ■ If using a component signal



#### ■ If using a SCART RGB input



## **Connecting to a monitor**



#### Monitor

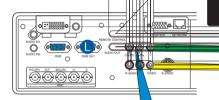




#### **Projector**







## Connecting to a speaker (with amplifier)



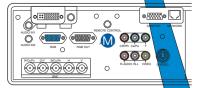
#### **Speaker**





## **Projector**

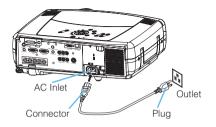




# **Connecting The Power Supply**

**WARNING** • Use extra caution when connecting the power cord as incorrect or faulty connections may result in fire and/or electrical shock. Please adhere to the "Before using" section of this manual and the following.

- Only plug the power cord into outlets rated for use with the power cord's specified voltage range.
- Only use the power cord that came with the projector. If it is damaged, contact your dealer to newly get correct one.
- Never modify the power cord. Never attempt to defeat the ground connection of the three-pronged plug.
- Make sure that you firmly connect the power cord to the projector and wall outlet.
- Connect the connector of the power cord to the AC inlet of the projector.
- Firmly plug the power cord's plug into the outlet.

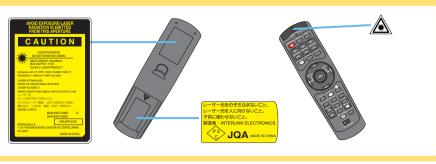


## **Remote Control**

#### About The Laser Pointer

**WARNING** • The laser pointer of the remote control is used in place of a finger or rod. Never look directly into the laser beam outlet or point the laser beam at other people. The laser beam can cause vision problems.

**CAUTION** • Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



This remote control has a laser pointer in place of a finger or rod. The laser beam works and the LASER INDICATOR lights while the LASER button is pressed.

## **Putting Batteries**

#### CAUTION • About the battery

- Keep a battery away from children and pets.
- Use only the battery specified: two AA batteries.
- Do not mix new battery with used one.
- Make sure the plus and minus terminals are correctly aligned when loading the battery (as indicated in the remote control).
- Dispose of batteries in accord with environmental laws.
- Remove the battery cover. Slide back and remove the battery cover in the direction of the arrow.
- Insert the batteries. Align and insert the two AA batteries minus terminals (as control).
- according to their plus indicated in the remote

Close the battery cover

Replace the battery cover in the direction of the arrow and snap it back into place.





# **Remote Control (continued)**

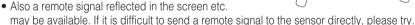
# **Operating The Remote Control**

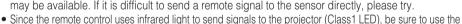
- A
- **CAUTION** Do not disassemble the remote control.
  - Do not place the remote control near the projector's lens, fan, or vents.
- Do not drop or otherwise expose the remote control to physical impact.
- Do not get the remote control wet or place it on wet objects on it. Doing so may result in malfunction.
- Remove the batteries from the remote control and store them in a safe place if you won't be using the remote control for an extended period.

**NOTE** • Replace the batteries whenever the remote control starts to malfunction.

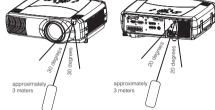
- When strong light, such as direct sunlight or light from an extremely close range (such as from an
  inverter fluorescent lamp), hits the projector's remote sensor, the remote control may cease to function.
   Adjust the direction of the projector to keep light from directly hitting the projector's remote sensor.
- The remote control works with the projector's remote sensor.
- Front remote sensor is 3 meters with a 60 degree range (30 degrees to the left and right of a remote sensor).

**Rear remote sensor** is 3 meters with a 40 degree range (20 degrees to the left and right of a remote sensor).





remote control in an area free from obstacles that could block the remote control's output signal to the projector. **memo** You can use the remote control as a wired remote control, by connecting the REMOTE CONTROL ports of the main unit and remote control via an audio cable (3.5 dia. stereo mini cable with plugs).



## **Using The Remote ID Feature**

This is the function to properly use when you use two or three same type projectors at the same time. This function should be used combining a setup of a projector.

Set the ID number to the projector beforehand, referring to the item "IR REMOTE ID" of the section "OPTION Menu".

**memo** When the ALL is selected to the item "IR REMOTE ID" of the OPTION menu, the projector is controlled by a remote control irrespective of the position of the ID CHANGE switch.

2 Slide the knob of the switch into the position of the ID number of the projector you want to control.



ID CHANGE switch

# **Remote Control (continued)**

## **Using The Mouse/Keyboard Control Function**

**CAUTION** • Before connecting, read the manuals of the device you will connect. Mistaken use of the mouse/keyboard control could damage your equipment.

- Only connect to a PC or an USB Hub connected PC.
- Do not unplug the connector cables while the computer is operating.

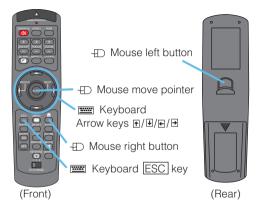
Using the USB control feature, you can use the remote control as a simplified mouse or keyboard of the computer.

Connect the M1-D port of the projector to the computer via the M1-D cable. Then functions illustrated below will be enabled.

**memo** The USB control can be used with Windows 95 OSR 2.1 or higher. It may not be possible to use the remote control, depending on the computer's configurations and mouse drivers.

*memo* The function can be used only for the functions illustrated on the right.

**memo** The projector would be enumerated as a mouse and a keyboard of HID (Human Interface Device) class devices, after connecting cable.



## Power ON/OFF

**WARNING** • When the power is ON, a strong light is emitted. Do not look into the lens or vents of the projector.

NOTE • Turn the power on/off in right order. Please power on the projector before the connected devices. Power off the projector after the connected devices.

## **Turning On The Power**

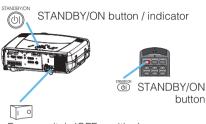
- Remove the lens cap.
- Set the power switch to [1] (ON). The STANDBY/ON indicator will light to solid orange.
- Press the STANDRY/ON button The projector lamp will light up and the STANDBY/ON indicator will begin blinking green. When the power is completely on, the indicator will stop blinking and light green.
- Use the LENS SHIFT buttons to shift the picture upward or downward.
- Select an input signal according to the section "Selecting An Input Signal" of the following page.

# STANDBY/ON button / indicator (b) STANDBY/ON hutton 10 Power switch (ON position) LENS SHIFT



# **Turning Off The Power**

- Press the STANDBY/ON button. The message "Power off?" will appear on the screen for approximately 5 seconds.
- Press the STANDBY/ON button again while 2 "Power off?" the message is visible. The projector lamp will go off, and the STANDBY/ON indicator will begin blanking orange. Then the STANDBY/ON indicator will stop blinking and light to solid orange when the lamp cooling is complete.
- Switch the power switch to [O] (OFF). The STANDBY/ON indicator will go off.
- Attached the lens cap.



Power switch (OFF position)

# **Operating**

## **Selecting An Input Signal**

1

Select an input signal.

#### ■ Using the INPUT dial

Turn the INPUT dial of the projector.

Turning the dial cycles through the input ports as shown below. Select the signal you wish to project.



#### ■ Using SEARCH button

Press the SEARCH button of the projector or the remote control.

Pressing the button automatically cycles through input ports and displays the picture of retrieved signal.

**memo** If no signal is found or the projector is unstable to find an input signal at any of its ports, it will turn to the state it was in prior to the search.



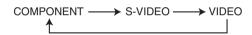
#### ■ Using RGB button

Press the RGB button of the remote control. Pressing the button toggles between the RGB ports as shown below Select the signal you wish to project.

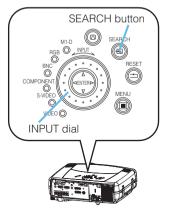


#### ■ Using VIDEO button

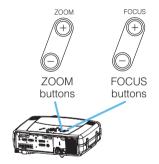
Press the VIDEO button of the remote control. Pressing the button toggles between the VIDEO ports as shown below Select the signal you wish to project.



- **2** Use the ZOOM buttons to adjust the screen size.
- Use the FOCUS buttons to adjust the focus.







# **Selecting The Aspect Ratio**

Press the Aspect button to toggle between the modes for aspect ratio.

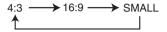
#### ■ At a M1-D signal



**memo** NORMAL keeps the original aspect ratio of the input signal.

#### ■ At a RGB signal (not M1-D)

#### ■ At a video signal / no signal



**memo** At a HDTV signal of 1125i(1080i) or 750p(720p), only 16:9 can be selected.



# **Using The Automatic Adjustment Feature**

**memo** The automatic adjustment operation requires approximately 10 seconds. Also, please note that it may not function correctly with some input.



Press the AUTO button.

#### ■ At a RGB signal

The Vertical position (V POSITION), the horizontal position (H POSITION), the clock phase (H PHASE) and horizontal size (H SIZE) will be automatically adjusted.

**memo** Make sure that the application window is set to its maximum size prior to attempting to use this feature. Dark pictures may still be incorrectly adjusted. Use a bright screen when adjusting.

#### ■ At a video signal

The signal type mode best suited for the respective input signal will be selected automatically.

**memo** This function is available only when the AUTO is selected to the item VIDEO of the INPUT menu. For a component video signal, the signal type is identified automatically independently of this function.



## **Adjusting The Picture Position**

memo This function is available only for RGB signals.

Press the POSITION button.
As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the position.



KEYSTONE

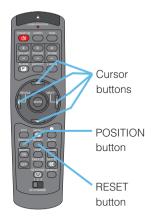
±0

2 Use the cursor buttons ▲/▼/ ◀/▶ to adjust the position.

**memo** When you want to initialize the position, press the RESET button during adjustment.

Press the POSITION button again to close the dialog and complete this operation.

**memo** Even if you don't do anything, the dialog will automatically disappear after a few seconds.



# **Correcting The Keystone Distortion**

- Press the KEYSTONE button.
  As illustrated on the right, a dialog will appear on the screen to aid you in correcting the keystone distortion.
- Use the cursor buttons 
  √ to
  select the direction of distortion to
  correct (♠ or ▷).
- 3 Use the cursor buttons ▲/▼ to correct the distortion.
- Press the KEYSTONE button again to close the dialog and complete this operation.

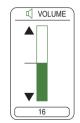
**memo** Even if you don't do anything, the dialog will automatically disappear after a few seconds.

**memo** When this adjustment is excessive, certain degradation may appear on the picture. Also, please note that it may not function correctly with some input.



## **Adjusting The Volume**

- Press the VOLUME button.
  As illustrated on the right, a dialog will appear on the screen to aid you in adjusting the volume.
- Use the cursor buttons ▲/▼ to adjust the volume.



Press the VOLUME button again to close the dialog and complete this operation.

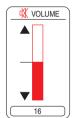
*memo* Even if you don't do anything, the dialog will automatically disappear after a few seconds.



## **Muting The Sound**

- Press the MUTE button.
  As illustrated on the right, a dialog will appear on the screen indicating that you have muted the sound.
- Press the MUTE or VOLUME button to restore the sound.

**memo** Even if you don't do anything, the dialog will automatically disappear after a few seconds.





## Temporarily Blanking The Screen

Press the BLANK button.
The input signal screen will shut off, and a BLANK screen will appear.

*memo* You can set the BLANK screen using the menu. Please refer to the item "BLANK" of the table of the section "SCREEN Menu".

Press the BLANK button again to remove the blank screen, and return to the input signal screen.



## Freezing The Screen

Press the FREEZE button.
As illustrated on the right, a dialog will appear on the screen, and the screen will freeze at the current image.



Press the FREEZE button again to restore the screen to normal.

The icon "||" will change to the icon "||". And after a couple of seconds, the dialog will be closed and the screen will be restored to normal.

**memo** The freezing feature will automatically finish if a remote control's button that changes some display state (ex. blanking the screen, displaying a dialog or a menu, adjusting the picture, changing the input signal) is pressed, or a button of projector is pressed.



**NOTE** • If the projector continues projecting the same image for a long time (i.e. you forget to exit FREEZE mode), the image might possibly remain as an afterimage. Do not leave the projector in FREEZE mode for too long.

## **Using The Magnify Feature**

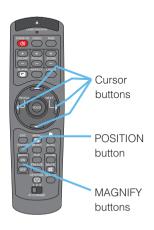
1 Press the MAGNIFY ON button.

As illustrated on the right, a dialog will appear on the screen to aid you in magnifying the picture.



- Press the POSITION button, then use the cursor buttons △/▼/◀/▶ to select the area to zoom.
- Press the POSITION button again to finalize the zoom area.
- Use the cursor buttons ▲/▼ to adjust the zoom level.
- Press the MAGNIFY button again to close the dialog and complete this operation.

**memo** The magnify feature will automatically finish if the automatic adjustment is execute, or the aspect, the signal type mode of video or the signal input state is changed.



## **Displaying The Child Window**

memo This feature called "PinP (Picture in Picture)" is available only when a RGB signal is selected to main screen

- Press the PinP button.
  The child window with a picture of a video signal will appear.
- Press the PinP button again to change the size of the child window or close the window.

Small child window → Large child window

↑

No child window

**memo** You can select the video signal to display in the child window, and the position of the child window. Please refer to the items "P.INP. INPUT" and "P.INP. POSIT." of the table of the section "INPUT Menu".



# **Selecting An Audio Input**

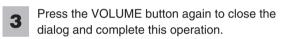
*memo* This feature is available only when the child window is on the screen.

- When the child window is on the screen, press the VOLUME button.
  As illustrated on the right, a dialog will appear on the screen.
- 2 Use the cursor buttons **◄/▶** to select an audio input.

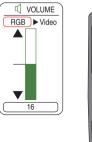
RGB (Audio input for the main screen)

Video (Audio input for the child window)

**memo** You also can adjust the volume using the cursor buttons ◀/▶. Please refer to the section "Adjusting The Volume".



*memo* Even if you don't do anything, the dialog will automatically disappear after a few seconds.





# **Multifunctional Settings**

# **Using The Menu Functions**

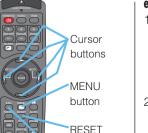
This projector has the following menus: MAIN, PICTURE-1, PICTURE-2, INPUT, AUTO, SCREEN, OPTION and NETWORK. Each of these menus is operated using the same methods. The basic operations of these menus are as follows.

- Press the MENU button.
  The menu will appear on the screen.
- Use the cursor buttons

  ▲/▼ to select a menu,
  then press the ▶ (or the
  ENTER) button to
  progress.
  The display of the
  selected menu will
  appear.
- Use the cursor buttons

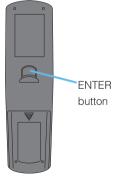
  ▲/▼ to select an item,
  then press the ▶ (or the
  ENTER) button to
  progress.
  The operation display of
  the selected item will
  appear.
- Use the cursor buttons ▲/▼ to operate the item. *memo* When you want to reset the adjustment, press the RESET button during the operation. Note that the items whose functions are performed simultaneously with operating (ex. LANGUAGE, WHISPER, H PHASE etc.) are not reset. *memo* When you want to return to the previous display, press the ◀ or ESC button.
- Press the MENU button again to close the menu display and complete this operation.

*memo* Even if you don't do anything, the menu will automatically disappear after a few seconds.



button

ESC button



- ex. Turning off the built-in speaker
- 1) Press the MENU button.



2) Select the "OPTION" using the ▼ button, then press the ▶ button.



3) Select the "SPEAKER" using the ▼ button, then press the ▶ button.



4) Use the cursor button ▼ to select the "TURN OFF".



5) Press the MENU button.

# MAIN Menu

With the MAIN menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

MENU		
MAIN	BRIGHT	+0
PICTURE-1	CONTRAST	+0
PICTURE-2	ASPECT	4:3
INPUT	WHISPER	NORMAL
AUTO	MIRROR	NORMAL
SCREEN	LANGUAGE	ENGLISH
OPTION	[Language]	
NETWORK	RESET	
C) SELECT		

Item	Description		
BRIGHT	Adjust the brightness using the ▲ / ▼ buttons. : Light ⇔ Dark		
CONTRAST	Adjust the contrast using the ▲ / ▼ buttons.: Strong ⇔ Weak		
ASPECT	Select an aspect ratio using the ▲ / ▼ buttons.:  At a M1-D signal NORMAL ⇔ 4:3 ⇔ 16:9  The NORMAL keeps the original aspect ratio of the input signal.  At a RGB signal (not M1-D) 4:3 ⇔ 16:9  At a video signal 4:3 ⇔ 16:9 ⇔ SMALL  memo At a HDTV signal of 1125i(1080i) or 750p(720p), only the 16:9 can be selected.		
WHISPER	Select the NORMAL or the WHISPER using the ▲ / ▼ buttons. : NORMAL ⇔ WHISPER When the WHISPER is selected, acoustic noise and screen brightness are reduced.		
MIRROR	Select a mirror status using the ▲ / ▼ buttons. :  NORMAL ⇔ H:INVERT ⇔ V:INVERT  ex.		
LANGUAGE	Select a menu language using the ▲ / ▼ buttons. :  ENGLISH ⇔ FRANÇAIS ⇔ DEUTSCH ⇔ ESPAÑOL ⇔ ITALIANO NORSK ⇔ NEDERLANDS ⇔ 日本語 ⇔ PORTUGUÊS ⇔ 中文 한글 ⇔ SVENSKA ⇔ PYCCKNĬ ⇔ SUOMI ⇔ POLSKI ←		
RESET	Select the EXECUTE using the ▲ button to reset the MAIN menu items. :  EXECUTE ← CANCEL  The items of the MAIN menu are collectively returned to the initial setting. Note that the items "WHISPER" and "LANGUAGE" are not reset.		

#### PICTURE-1 Menu

With the PICTURE-1 menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below

MENU		
MAIN	GAMMA	NORMAL
PICTURE-1	COLOR BAL R	+0
PICTURE-2	COLOR BAL G	+0
INPUT	COLOR BAL B	+0
AUTO	SHARPNESS	+0
SCREEN	COLOR	+0
OPTION	TINT	+0
NETWORK	MY MEMORY	LOAD1
SFLECT	_	

Item	Description			
	Select a gamma mode using the ▲ / ▼ buttons.:  NORMAL ⇔ CINEMA ⇔ DYNAMIC ⇔ CUSTOM  Selecting the CUSTOM and then pressing the ▶ (or the ENTER) button calls the CUSTOM menu.  CUSTOM Menu  Select an item using the ▲ / ▼ buttons, and press the ▶ (or the ENTER) button to perform each function.  GAMMA ⇔ COLOR TEMP ⇔ R ⇔ G ⇔ B  memo The R, G and B can be selected only when the  USER is selected under the COLOR TEMP.			
GAMMA	GAMMA	Adjust the gamma data using the ▲ / ▼ buttons. : Up ⇔ Down		
	COLOR TEMP	Select a color temperature using the ▲ / ▼ buttons. : HIGH ⇔ MIDDLE ⇔ LOW ⇔ USER		
	R	Adjust the red color level for the USER mode of the COLOR TEMP using the ▲ / ▼ buttons.: Strong ⇔ Weak		
	G	Adjust the green color level for the USER mode of the COLOR TEMP using the ▲ / ▼ buttons.: Strong ⇔ Weak		
	В	Adjust the blue color level for the USER mode of the COLOR TEMP using the ▲ / ▼ buttons. : Strong ⇔ Weak		
COLOR BAL R	Adjust the red color balance using the ▲ / ▼ buttons. : Strong ⇔ Weak			
COLOR BAL G	Adjust the green color balance using the ▲ / ▼ buttons. : Strong ⇔ Weak			
COLOR BAL B	Adjust the blue color balance using the ▲ / ▼ buttons. : Strong ⇔ Weak			
SHARPNESS	Adjust the sharpness using the ▲ / ▼ buttons. : Clear ⇔ Soft memo This item can be selected only at a video signal.			
COLOR	Adjust the whole color using the ▲ / ▼ buttons. : Strong ⇔ Weak memo This item can be selected only at a video signal.			
TINT	Adjust the tint using the ▲ / ▼ buttons. : Green ⇔ Red memo This item can be selected only at a video signal.			

(This table is continued to the following page.)

## PICTURE-1 Menu (continued)

Item	Description
	Select a command to load or save using the ▲ / ▼ buttons, and then press the ▶ (or the ENTER) button to perform the function.:  LOAD1 ⇔ LOAD2 ⇔ LOAD3 ⇔ LOAD4
	SAVE1 ⇔ SAVE2 ⇔ SAVE3 ⇔ SAVE4
MY MEMORY	This projector has 4 numbered memories for adjustment data.  Performing the SAVE1, SAVE2, SAVE3 or SAVE4 puts the current adjustment data on the memory whose number corresponds with the command's number. Performing the LOAD1, LOAD2, LOAD3 or LOAD4 loads the data on the memory whose number corresponds with the command's number, and adjusts the picture automatically depending on the data.
RESET	Select the EXECUTE using the  button to reset the PICTURE-1 menu items. :  EXECUTE  CANCEL  The items of the PICTURE-1 menu are collectively returned to the initial setting.  Note that the items "MY MEMORY" and "GAMMA" of the CUSTOM menu under the item "GAMMA" are not reset.

# PICTURE-2 Menu

With the PICTURE-2 menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

**memo** This menu cannot be selected at a M1-D signal.

MENU		
MAIN	V POSITION	20
PICTURE-1	H POSITION	142
PICTURE-2	H PHASE	31
INPUT	H SIZE	1344
AUTO	OVER SCAN	95
SCREEN	RESET	
OPTION		
NETWORK		

Item	Description
V POSITION	Adjust the vertical position using the ▲ / ▼ buttons. : Up ⇔ Down memo This item can be selected only at a RGB signal.
H POSITION	Adjust the horizontal position using the ▲ / ▼ buttons. :  Left ⇔ Right  memo This item can be selected only at a RGB signal.
H PHASE	Adjust the horizontal phase to eliminate flicker using the ▲ / ▼ buttons. : Right ⇔ Left memo This item can be selected only at a RGB signal or a component video signal other than a COMPONENT port input of 525i(480i)/625i(576i)/SCART RGB.
H SIZE	Adjust the horizontal size using the ▲ / ▼ buttons. :  Large ⇔ Small  memo This item can be selected only at a RGB signal.  memo When this adjustment is excessive, the picture may not be displayed correctly. In such a case, please reset the adjustment pressing the RESET button during this operation.
OVER SCAN	Adjust the over-scan ratio using the ▲ / ▼ buttons.:  Small ⇔ Large  memo This item can be selected only at a video signal.  memo When this adjustment is too large, certain degradation may appear at the frame area of the picture. In such a case, please adjust small.
RESET	Select the EXECUTE using the ▲ button to reset the PICTURE-2 menu items. :  EXECUTE ← CANCEL  The items of the PICTURE-2 menu are collectively returned to the initial setting.  Note that the item "H PHASE" is not reset.

# INPUT Menu

With the INPUT menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

MENU		
MAIN	COLOR SPACE	AUTO
PICTURE-1	COMPONENT	COMPONENT
PICTURE-2	VIDEO	AUTO
INPUT	3D-YCS	TURN OFF
AUTO	VIDEO NR	LOW
SCREEN	P. INP. INPUT	VIDEO
OPTION	P. INP. POSIT.	
NETWORK	POWERUP INPUT	RGB .
C) CELECT		

Item	Description
COLOR SPACE	Select a color space mode using the ▲ / ▼ buttons.:  AUTO ⇔ RGB ⇔ SMPTE240 ⇔ REC709 ⇔ REC601  Selecting the AUTO automatically selects the optimum mode.  memo This item can be selected only at a RGB signal or a component video signal other than a COMPONENT port input of 525i(480i)/625i(576i)/SCART RGB.  memo The AUTO operation may not work well at some signals. In such a case, select the SMPTE240 or the REC709 for a HDTV signal.
COMPONENT	Select a function of COMPONENT port using the ▲ / ▼ buttons. :  COMPONENT ⇔ SCART RGB  When the SCART RGB is selected, the COMPONENT port function as a port for a SCART RGB signal input. Please refer to the section "Connecting Your Devices".
VIDEO	Select a signal type mode using the ▲ / ▼ buttons.:  AUTO ⇔ NTSC ⇔ PAL ⇔ SECAM ⇔ NTSC4.43 ⇔ M-PAL ⇔ N-PAL  Selecting the AUTO automatically selects the optimum mode.  memo This item is performs only at a video signal from the VIDEO port or the S- VIDEO port. For a component video signal, the signal type is identified automatically independently of this function.  memo The AUTO operation may not work well at some signals. If the picture becomes unstable (ex. a irregular picture, a color lack), please select the mode depending on the input signal.
3D-YCS	Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons.:  TURN ON ⇔ TURN OFF  When the TURN ON is selected, the 3D-YCS mode works for a completely still image, or images with few motions.  memo This item performs only at a video signal of NTSC3.58.  memo When this function performs, the setting of the item "VIDEO NR" of this INPUT menu is not effective.
VIDEO NR	Select a noise reduction level using the ▲ / ▼ buttons.:  HIGH ⇔ MIDDLE ⇔ LOW  The noise on screen is reduced according to the selected level.  memo This item performs only at a video signal from the VIDEO port or the S- VIDEO port. At a video signal of NTSC3.58, this function performs only when the TURN OFF is selected to the item "3D-YSC" of this INPUT menu.  memo When this adjustment is excessive, certain degradation may appear on the picture.

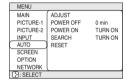
(This table is continued to the following page.)

# **INPUT** Menu (continued)

Item	Description	
P.IN P. INPUT	Select a signal input port for the child window using the ▲ / ▼ buttons. : VIDEO ⇔ S-VIDEO memo About the child window, please refer to the section "Displaying the Child Window".	
P.IN P. POSIT.	Select the display position of the child window using the ▲ / ▼ buttons. :  □ ⇔ □ ⇔ □ ⇔ □  memo About the child window, please refer to the section "Displaying the Child Window".	
POWERUP INPUT	Select a signal input port to display just when the projector is turned on, using the ▲ / ▼ buttons. :  LAST INPUT ⇔ M1-D ⇔ RGB ⇔ BNC ⇔ COMPONENT ⇔ S-VIDEO ⇔ VIDEO Selecting the LAST INPUT selects the port that was used at the last time.	
INFORMATION	Pressing the ▶ (or the ENTER) button displays the INPUT INFORMATION menu.  The INPUT INFORMATION menu shows the information about the current signal input as illustrated below.   Input:INFORMATION menu shows the information about the current signal input as illustrated below.  Input:INFORMATION menu shows the information about the current signal input as illustrated below.  Input:INFORMATION COMPONENT STS INSURED STATE TO	
S2-ASPECT	Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons.:  TURN ON ⇔ TURN OFF  When the TURN ON is selected, an S2-video signal can be identified and the optimum aspect ratio is automatically selected.  memo This item is performs only at a S-VIDEO signal.  memo When the ASPECT button is used or the item "ASPECT" of the MAIN menu is operated, the TURN OFF will be automatically selected to this item.	
RESET	Select the EXECUTE using the ▲ button to reset the INPUT menu items. :  EXECUTE ← CANCEL  The items of the INPUT menu are collectively returned to the initial setting. Note that the item "INFORMATION" is not reset.	

### **AUTO** Menu

With the AUTO menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.



Item	Description	
Pressing the ▶ (or the ENTER) button performs the automatic adjust ■ At a RGB signal  The vertical position (V POSITION), the horizontal position (H POSITION), the horizontal position (H POSITION), the horizontal size (H SIZE) will be a adjusted.  **memo** Make sure that the application window is set to its maximum attempting to use this feature. Dark pictures may still be incorrectly Use a bright screen when adjusting.  ■ At a video signal  The signal type mode best suited for the respective input signal is selected automatically.  **memo** This function is available only when the AUTO is selected to "VIDEO" of the INPUT menu. For a component video signal, the signidentified automatically independently of this function.  **memo** This operation requires approximately 10 seconds, and the infall the inf		
POWER OFF	Set the time using the ▲ / ▼ buttons.:  Long (max. 99 minutes) ⇔ Short (min. 0 minute = DISABLE)	
POWER ON	Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons.:  TURN ON ⇔ TURN OFF  When the TURN ON is selected, you can turn the projector on without pressing the STANDBY/ON button. Please refer to the section "Turning Off The Power".	

#### **AUTO** Menu (continued)

Item	Description	
	Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons. :  TURN ON ⇔ TURN OFF  When the TURN ON is selected, detecting no signal cycles through input ports and displays the picture of retrieved signal.	
SEARCH	M1-D → RGB → BNC ↑ ↓ VIDEO ← S-VIDEO ← COMPONENT	
	<b>memo</b> When the TURN ON is selected, pressing the RGB button selects the M1-D ports, and pressing the VIDEO button selects the COMPONENT port. <b>memo</b> If no signal is found or the projector is unstable to find an input signal at any of its ports, it will return to the state it was in prior to the search.	
RESET	Select the EXECUTE using the ▲ button to reset the AUTO menu items. :  EXECUTE ← CANCEL  The items of the AUTO menu are collectively returned to the initial setting. Note that the item "ADJUST" is not reset.	

#### SCREEN Menu

With the SCREEN menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

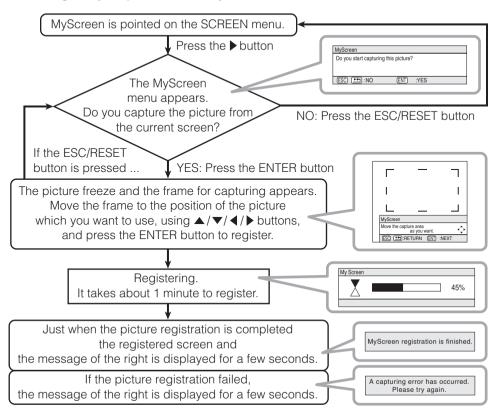
MENU		
MAIN	BLANK	BLACK
PICTURE-1	START UP	ORIGINAL
PICTURE-2	MyScreen	
INPUT	MyScreen SIZE	x1
AUTO	MyScreen LOCK	TURN OFF
SCREEN	MENU POSITION	
OPTION	MESSAGE	TURN ON
NETWORK	RESET	
C:SFLECT		

Item	Description	
BLANK	Select a type of the BLANK screen using the ▲ / ▼ buttons.:  MyScreen ⇔ ORIGINAL ⇔ BLUE ⇔ WHITE ⇔ BLACK  The BLANK screen is the screen, which is displayed by pressing the BLANK button.  The MyScreen is the screen you can register a desired screen, and the ORIGINAL is the existing standard screen. The BLUE, the WHITE and the BLACK are the non-pattered (plain) screens in each color.  memo To avoid remaining as an afterimage, the MyScreen and the ORIGINAL screens will change to the BLACK screen after several minutes.  memo For the MyScreen, please refer to the item "MyScreen" in this table.	
START UP	Select a type of the START UP screen using the ▲ / ▼ buttons.:  MyScreen ⇔ ORIGINAL ⇔ TURN OFF  The START UP screen is the screen, which is displayed by detecting no signal or an unsuitable signal.  The MyScreen is the screen you can register a desired screen, and the ORIGINAL is the existing standard screen. When the TURN OFF is selected, the BLUE is used.  memo To avoid remaining as an afterimage, the MyScreen and the ORIGINAL screens will change to the BLANK after several minutes. If also the BLANK screen is the MyScreen or the ORIGINAL, it will change to the BLACK screen.  memo About the MyScreen, please refer to the item "MyScreen" in this table.  About the BLUE, BLACK and BLANK screens, please refer to the item "BLANK" in this table.	
MyScreen	Pressing the ▶ (or the ENTER) button starts the MyScreen registration. Please see the flow chart on the following page.	
MyScreen SIZE Select the size of the MyScreen using the ▲ / ▼ buttons. : x1 ⇔ FULL		
MyScreen LOCK  Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons.:  TURN ON ⇔ TURN OFF  The TURN ON disables the operation of the item "MyScreen" of this SCF menu.		
MENU POSITION	Adjust the menu position using the ▲ / ▼ / ◀ / ▶ buttons. :  Up  ① Left ⇔ + ⇔ Right ① Down  memo To finish this operation, press the ESC button but not the ◀ button.	

#### **SCREEN Menu (continued)**

Item	Description	
MESSAGE	Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons. : TURN ON ⇔ TURN OFF When the TURN ON is selected, the following message function works. The message of the "AUTO IN PROGRESS" for the auto adjustment. The message of the "NO INPUT IS DETECTED" The message of the "SYNC IS OUT OF RANGE" The message of the "Searching" The message of the "Detecting" The indication of the input signal by input change. The indication of "FOCUS" by adjusting the focus.	
RESET	Select the EXECUTE using the ▲ button to reset the SCREEN menu items. :  EXECUTE ← CANCEL  The items of the SCREEN menu are collectively returned to the initial setting.	

#### How to register your picture as the MyScreen



### **OPTION Menu**

With the OPTION menu, the items shown in the table below can be performed. Perform each operation in accordance with the instructions in the table below.

MENU		
MAIN	VOLUME	16
PICTURE-1	SPEAKER	TURN ON
PICTURE-2	IR REMOTE	1:☑2:□3:☑
INPUT	IR REMOTE ID	ALL
AUTO	LAMP TIME	1234 h
SCREEN	FILTER TIME	4321 h
OPTION	SERVICE	
NETWORK	RESET	
SELECT:		

Item	Description	
VOLUME	Adjust the volume using the ▲ / ▼ buttons. : High ⇔ Low	
SPEAKER	Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons. :  TURN ON ⇔ TURN OFF  When the TURN ON is selected, the built-in speaker works.	
Select a remote sensor using the ▲ / ▼ button (1), then switch it using the ENTER button (2).:  (1) 1 : FRONT ⇔ 2 : TOP ⇔ 3 : REAR (2) □ (Off) ⇔ ☑ (On)  memo A sensor cannot be turned off when the other two are off.  Always at least one sensor is on.		
Select a number as an ID number for remote control using the ▲ / ▼ button ALL ⇔ 1 ⇔ 2 ⇔ 3  The projector is controlled by the remote control whose ID CHANGE switch set into the position of the same number as this number. When the ALL is selected, the projector is controlled by a remote control irrespective of the position of the ID CHANGE switch.  memo Please refer to the section "Using The Remote ID Feature".		
Pressing the RESET button for about 3 seconds displays the LAMP TIME  **RESET ⇔ CANCEL**  Selecting the RESET resets the count of the lamp timer to 0.  **memo** Perform this function only when you have replaced the lamp. The timer counts the used time of the current lamp, to display the message the lamp. Incorrect performing causes incorrect operation of the message the lamp. Incorrect performing causes incorrect operation of the message the lamp. About replacing the lamp, please refer to the section" Lamp".  Pressing the RESET button for about 3 seconds displays the FILTER TImenu.  Select the RESET using ▲ button to reset the timer.:  **RESET ⇔ CANCEL**  Selecting the RESET resets the count of the lamp timer to 0.  **memo** Perform this function only when you have cleaned or replaced the filter. The filter timer counts the used time of the air filter after cleaning or replacement, to display the messages about the air filter. Incorrect per causes incorrect operation of the messages.  **memo** Perform this function of the messages.  **memo** About caring for the air filter, please refer to the section "Air Filter"		

#### **OPTION Menu (continued)**

Item	Description		
	menu.  SERVICE Menu Select an item u the ENTER) buti	(or the ENTER) button calls the SERVICE    SERVICE   FANSPEED NORMAL   AUTO ADJUST ENABLE LENS TYPE	
	FANSPEED	Select the fan speed level using the ▲ / ▼ buttons.:  HIGH ⇔ NORMAL  The HIGH ups rotation speeds of fans, though. Please use this function in using a projector at highlands etc.  memo Note that the projector is noisier when the HIGH is selected.	
SERVICE	AUTO ADJUST	Select the ENABLE or the DISABLE using the ▲ / ▼ buttons.:  ENABLE ⇔ DISABLE  When you want to keep the current adjustment state, select the DISABLE. When the ENABLE is selected, detecting a signal change to a RGB signal performs the automatic adjustment of the vertical position (V POSITION), the horizontal position (H POSITION), the clock phase (H PHASE) and the horizontal size (H SIZE).	
	LENS TYPE	Select the lens type currently used using the ▲ / ▼ buttons.:  AUTO ⇔ 1 ⇔ 2 ⇔ 3 ⇔ 4 ⇔ 5  Please select depending on the following.  AUTO: automatically selects optimum mode.  1: for a standard lens 2: for a fixed short throw lens 3: for a short throw lens 4: for a long throw lens 5: for a super long throw lens memo This setting has an influence on the keystone distortion etc. memo About the optional lens, ask your dealer.	
	LENS LOCK	Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons.:  TURN ON ⇔ TURN OFF  Selecting the TURN ON locks the adjustment of the lens shift, the zoom and the focus.	
RESET	Select the EXECUTE using the button to reset the OPTION menu items. :  EXECUTE CANCEL  The items of the OPTION menu are collectively returned to the initial setting.  Note that the items "VOLUME", "LAMP TIME", "FILTER TIME" and "SERVICE" are not reset.		

#### NETWORK Menu

This projector provides the NETWORK function. If you use this function, please set up the projector according to the Network environment in which you use it.

*memo* If DHCP function on your Network is activated, the following operation is not normally required, because DHCP function on this projector is active as initial settings. Please see the section "Network Setting Up".

MENU		
MAIN	SETUP	
PICTURE-1	DHCP	TURN OFF
PICTURE-2	INFORMATION	
INPUT	RESET	
AUTO		
SCREEN		
OPTION		
NETWORK )	(	
○ SELECT		

Item	Description
	Press the (or the ENTER) button, then the IP  ADDRESS menu as right comes up.  memo This menu will be shown only when the DHCP is disabled at the NETWORK menu.  The IP Address is identification number of the projector on the Network.
SETUP	1. Set the IP Address using the ▲ / ▼ buttons.  **memo** The same IP Address with other units cannot be used.  Press the ▶ (or the ENTER) button at the IP  ADDRESS menu, then the SUBNET MASK menu comes up. The SUBNET MASK is an address of the Network.  **Network** Network** Network**
	2. Set the address of the Network to be used. Press the ▶ (or the ENTER) button at the SUBNET MASK menu, then the DEFAULT GATEWAY menu comes up. The DEFAULT GATEWAY is the main device to access outside of the Network.
3. Set the address of the device as gateway to an outer Network.	
DHCP	Select the TURN ON or the TURN OFF using the ▲ / ▼ buttons.  :  TURN ON ⇔ TURN OFF  If your Network doesn't support the DHCP function, select the TURN OFF.
INFORMATION	Pressing the ▶ (or the ENTER) button displays the INFORMATION menu.  The menu shows the information about the current Network setting as illustrated right.  4 NETWORK-INFORMATION 192 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 192 1981 1981
RESET	Select the EXECUTE using the ▲ button to reset the NETWORK menu items. :  EXECUTE ← CANCEL  All items on the NETWORK menu are returned to the initial setting.

### **Network Setting Up**

This projector provides the NETWORK function. When you start to use this function, please consult your dealer for further information.

To start, connect the NETWORK port to a gateway device via a CAT-5 cable, then set up the projector according to the Network environment in which you use it.

#### When your Network enables the DHCP function

You can set automatically, if you set the DHCP function to "TURN ON" using the NETWORK menu. Please refer to the section "NETWORK Menu"

# When your Network doesn't support the DHCP function or When you use a fixed address even if your Network can support the DHCP function

Please set the IP Address, the Subnet Mask, the Default Gateway and the DHCP using the NETWORK menu. 43. At first, set the DHCP function to "TURN OFF".

You can set them using a Web Browser (Internet Explorer 4.0 or higher) on the computer connected to the Network

Input the same IP address as set to the projector onto the Web Browser on the computer connected to LAN

#### ex Case of IP Address = 192 168 1 11

- 1) Input "http://192.168.1.11".
- 2) Click "ENTER".



- 3) Input the required data according to the screen.
- 4) Make sure of the input data, then click "Write". *memo* These setting will be active after reboot. These setting will be stored, and used when DHCP is OFF.
- 5) Click "Return to top page".
- 6) Click "REBOOT" to complete this operation.



### Lamp









HIGH VOLTAGE HIGH TEMPERATURE HIGH PRESSURE

The projector uses a high-pressure mercury glass lamp. The lamp can <u>break with a loud bang</u>, or <u>burn out</u>, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, when the bulb bursts, it is possible for <u>shards of glass</u> to fly into the lamp housing, and for <u>gas containing mercury</u> to escape from the projector's yent holes

**About disposal of a lamp** • This product contains a mercury lamp; do not put in trash. Dispose of in accord with environmental laws.

For lamp recycling, go to www.lamprecycle.org. (in the US)

For product disposal, contact your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada).

For more information, call your dealer.



Disconnect the plug from the power outlet

- If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet, and make sure to request a replacement lamp from your local dealer. Note that shards of glass could damage the projector's internals, or cause injury during handling, so please do not try to clean the projector or replace the lamp yourself.
- If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to breathe the gas that comes out of the projector vents, or get it in your eyes or mouth.
- Before replacing the lamp, make sure the power switch is off and the power cable is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the lamp while hot can cause burns, as well as damaging the lamp.



- Do not open the lamp cover while the projector is suspended from above. This is dangerous, since if the lamp's bulb has broken, the shards will fall out when the cover is opened. In addition, working in high places is dangerous, so ask your local dealer to have the lamp replaced even if the bulb is not broken.
- Do not use the projector with the lamp cover removed. At the lamp replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.
- Use the lamp of the specified type only.
- If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, contact your local dealer or a service representative.



- Handle with care: jolting or scratching could cause the lamp bulb to burst during use.
- If the indicators or a message prompts you to replace the lamp (see the section "Related Messages" and "Regarding the indicator Lamps"), replace the lamp as soon as possible. Using the lamp for long periods of time, or past the replacement date, could cause it to burst. Do not use old (used) lamps; this is a cause of breakage.

### Lamp (continued)

#### Replacing The Lamp

If the indicators or a message prompts you to replace the lamp, replace the lamp as soon as possible.

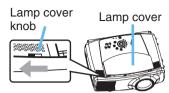
- Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes.
- Contact your dealer to prepare a new lamp. Tell the dealer your lamp type number. If the projector is mounted on the ceiling, or if the lamp has broken, also ask the dealer to replace the lamp.

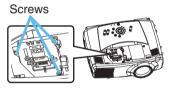
#### In the case of replacement by yourself,

- After making sure that the projector has cooled adequately, slide the knob of a lamp cover lock as shown in the Figure. Then, one side of the lamp cover is raised. Pull up the lamp cover and remove it, as shown in the Figure.
- Unscrew the 3 screws, and slowly pull out the lamp by the handle. Be careful not to touch the inside of the lamp case.
- Insert the new lamp, and tighten the 3 screws firmly to lock it in place.
- Interlocking the 2 tabs of the lamp cover to the projector, put the lamp cover on the projector. Then push the point of the lamp cover to fix it, as shown in the Figure. Make sure that the lamp cover does't come up.
- Turn on the projector, and reset the lamp timer.
  - (1) While the projector running, press the MENU button to open the menu.
  - (2) Choose the "OPTION" on the menu using the ▲ / ▼ button, then press the ▶ button or ENTER button.
  - (3) Choose the "LAMP TIME" using the ▲ / ▼ button, then press and hold the RESET button for 3 seconds.
  - (4) Choose the "RESET" using the ▲ button.

**memo** When the lamp has been replaced after the message of "THE POWER WILL TURN OFF AFTER 0hr." is displayed, complete this operation within 10 minutes of switching power on.

**memo** Incorrectly resetting of the lamp timer (resetting without replacement, or neglect of resetting after replacement) will result in incorrect message functions.







#### Air Filter

WARNING
 Please carefully read the "Before using" section of this manual.
 Before caring, make sure the power switch is off and the power cable is not plugged in, then wait at least 45 minutes for the lamp to cool sufficiently.

- Use the air filter of the specified type only.
- Do not use the projector with the air filter and filter cover removed. The use without the air filter could result in damage.

**CAUTION** • If the air filter becomes clogged by dust or the like, internal temperature rises and could cause malfunction. The power is automatically turned off in order to prevent the projector from overheating internally.

#### **Caring For The Air Filter**

The air filter should be cleaned about every 100 hours. If the indicators or a message prompts you to clean the air filter, clean the air filter as soon as possible.

If the soiling will not come off the air filter, or it becomes damaged, then it needs to be replaced. Please replace the air filter as soon as possible.

memo When you replace the lamp, please replace also the air filter.

- Turn off the projector, and unplug the power cord. Allow the lamp bulb to cool for at least 45 minutes.
- After making sure that the projector has cooled adequately, remove the filter cover and air filter.
- Apply a vacuum cleaner to the top of the filter cover and the air filter to clean.

If the soiling will not come off the air filter, or it becomes damaged, it needs to be replaced.

If the air filter needs to be replaced, contact your dealer to prepare a new air filter. Tell the dealer your air filter type.

Insert the cleaned air filter or a new air filter, and replace the filter cover.

Turn on the projector power, and reset the filter timer.

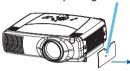
- (1) While the projector running, press the MENU button to open the menu.
- (2) Choose the "OPTION" on the menu using the ▲ / ▼ button, then press the ▶ button or ENTER button.
- (3) Choose the "FILTER TIME" using the ▲ / ▼ button, then press and hold the RESET button for 3 seconds.
- (4) Choose the "RESET" using the ▲ button.

**memo** Incorrectly resetting of the filter timer (resetting without replacement, or neglect of resetting after replacement) will result in incorrect message functions.

Hold the release buttons of the filter cover while pulling down it.



Hold the release button of the air filter while pulling out it.



#### Other Care

- WARNING Please carefully read the "Before using" section of this manual. Before caring, make sure the power switch is off and the power cable is not plugged in.
- Be cautious of high temperature. Do not touch about the lens and ventilation. opening during use or immediately after use prevent a burn.
- Never try to care for the inside of the unit yourself. Doing so is dangerous.
- Incorrect care could have adverse influence such as discoloration. peeling paint, etc.
- Do not use chemicals, including benzene and paint thinner.
- Do not use aerosols or sprays.
- Do not polish or wipe with hard objects.

#### **Caring For The Inside Of The Projector**

In order to ensure the safe use of your projector, please have it cleaned and inspected by vour local dealer about once every 2 years.

#### **Caring For The Lens**

- Turn off the projector, and unplug the power cord.
- Lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.

#### **Caring For The Cabinet And Remote Control**

- Turn off the projector, and unplug the power cord.
- Wipe lightly with gauze or a soft cloth.

### **Troubleshooting**

#### **Related Messages**

When the unit's power is on, messages such as those shown below may be displayed. When any such message is displayed on the screen, please respond as described below. If the same message is displayed after the treatment, or if a message other than the following appears, please contact your dealer or service company.

**memo** Although these messages will be automatically disappeared around several minutes, it will be reappeared every time the power is turned on.

Message	Description
* CHANGE THE LAMP  AFTER REPLACING LAMP, RESET THE LAMP TIMER.	The time the lamp timer has counted is approaching 2000 hours.  Preparation of a new lamp, and an early lamp change is recommended. After you have change the lamp, please be sure to reset the lamp timer.
* CHANGE THE LAMP  AFTER REPLACING LAMP, RESET THE LAMP TIMER.  THE POWER WILL TURN OFF AFTER ** hr.	The time the lamp timer has counted is approaching 2000 hours, so a lamp change within ** hours is recommended.  When lamp usage reaches 2000 hours, the power will automatically be turned off.  Please change the lamp by referring to the section "Lamp".  After you have changed the lamp, please be sure to reset the lamp timer.
* CHANGE THE LAMP  AFTER REPLACING LAMP, RESET THE LAMP TIMER.  THE POWER WILL TURN OFF AFTER 0 hr.	As the time the lamp timer has counted has reached 2000 hours, the power will soon be automatically turned off.  Please immediately turn the power off, and change the lamp by referring to the section "Lamp". After changing the lamp, please be sure to reset the lamp timer.

(This table is continued to the following page.)

NOTE ● A lamp has a finite product life. Lamps are characterized by the fact that, after long hours of usage, a lamp will no longer light up, or the lamp will break or burst, etc. This projector is equipped with an automatic shut-down function, such that the power will automatically be turned off when lamp usage time has reached 2000 hours. Please be aware, however, that among lamp types, there are major differences in product lifetimes; a lamp may thus fail to light even prior to the functioning of the automatic shut-down function of this projector.

#### Related Messages (continued)

Message	Description
CLEAN THE AIR FILTER  POWER OFF FIRST, THEN CLEAN THE AIR FILTER. AFTER CLEANING THE AIR FILTER, RESET THE FILTER TIMER.	The time the filter timer has counted has reached 100 hours.  Please clear or change the air filter by referring to the section "Air Filter". After caring for the air filter, please be sure to reset the filter timer.
CHECK THE AIR FLOW	The internal portion temperature is rising.  Please turn the power OFF, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again.  Is there blockage of the air passage aperture?  Is the air filter dirty?  Does the peripheral temperature exceed 35°C?
NO INPUT IS DETECTED ON ***	There is no input signal. Please confirm the signal input connection, and the status of the signal source.
SYNC IS OUT OF RANGE ON *** fH *****kHz fV *****Hz	The horizontal or vertical wavelength of the inputted signal is outside of the response parameters of this unit.  Please confirm the specs for this unit or the signal source specs.

#### Regarding The Indicator Lamps

Lighting and flashing of the STANDBY/ON indicator, the LAMP indicator, and the TEMP indicator have the meanings as described in the table below. Please respond in accordance with the instructions within the table. If the same indication is displayed after the treatment, or if an indication other than the following is displayed, please contact your dealer or service company.

**NOTE** • When the interior portion has become overheated, for safety purposes, the power source is automatically turned off, and the indicator lamps may also be turned off. In such a case, press the "O" (OFF) side of the main power switch, and wait at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.

STANDBY/ON indicator	LAMP indicator	TEMP indicator	Description	
Lighting in <b>Orange</b>	Turned <b>off</b>	Turned <b>off</b>	The projector is in a standby state. Please refer to the section "Power On/Off".	
Blinking in <b>Green</b>	Turned <b>off</b>	Turned <b>off</b>	The projector is warming up. Please wait.	
Lighting in <b>Green</b>	Turned <b>off</b>	Turned <b>off</b>	The projector is in an on state. Ordinary operations may be performed.	
Blinking in <b>Orange</b>	Turned <b>off</b>	Turned <b>off</b>	The projector is cooling down. Please wait.	
Blinking in <b>Red</b>	(discre- tionary)	(discre- tionary)	The projector is cooling down. A certain error has been detected.  Please wait until the STANDBY/ON indicator finishes blink, and then perform the proper response measure using the item descriptions below as reference.	
Lighting in <b>Red</b>	Lighting in <b>Red</b>	Turned <b>off</b>	The lamp does not light, and there is a possibility that interior portion has become heated.  Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again.  Is there blockage of the air passage aperture?  Is the air filter dirty?  Does the peripheral temperature exceed 35°C?  If the same indication is displayed after the treatment, please change the lamp by referring to the section "Lamp".	

#### Regarding The Indicator Lamps (continued)

STANDBY/ON indicator	LAMP indicator	TEMP indicator	Description	
Lighting	Blinking	Turned	Either there is no lamp and/or lamp cover, or either of these has not been properly fixed.  Please turn the power off, and allow the unit to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again. If the same indication is displayed after the treatment, please contact your dealer or service company.	
in <b>Red</b>	in <b>Red</b>	<b>off</b>		
Lighting	Turned	Blinking	The cooling fan is not operating.  Please turn the power off, and allow the unit to cool down a least 20 minutes. After the projector has sufficiently cooled down, please make confirmation that no foreign matter has become caught in the fan, etc., and then turn the power or again.  If the same indication is displayed after the treatment please contact your dealer or service company.	
in <b>Red</b>	<b>off</b>	in <b>Red</b>		
Lighting	Turned	Lighting	There is a possibility that the interior portion has become heated.  Please turn the power off, and allow the unit to cool down a least 20 minutes. After the projector has sufficiently cooled down, please make confirmation of the following items, and then turn the power on again.  Is there blockage of the air passage aperture?  Is the air filter dirty?  Does the peripheral temperature exceed 35°C?  If the same indication is displayed after the treatment please change the lamp by referring to the section "Lamp".	
in <b>Red</b>	<b>off</b>	in <b>Red</b>		
Lighting in <b>Green</b>	Alternative Blinking in <b>Red</b>		There is a possibility that the interior portion has become overcooled.  Please use the unit within the usage temperature parameters (0°C to 35°C). After the treatment, resent the power to ON.	
Lighting in <b>Green</b>	Simultaneous Blinking in <b>Red</b>		It is time to clean the air filter, or there is no air filter.  Please immediately turn the power OFF, and clean or change the air filter by referring to the section "Air Filter". After cleaning or changed the lamp, please be sure to reset the filter timer. After the treatment, resent the power to ON.	

#### Phenomena That May Easily Be Mistaken For Machine Defects

warning • Never use the projector if abnormal operations such as smoke, strange odor, excessive sound, damaged casing or elements or cables, penetration of liquids or foreign matter, etc. should occur. In such cases, immediately turn off the power switch and then disconnect the power plug from the power outlet After making sure that the smoke or odor has stopped, contact your dealer or service company.

Before requesting repair, please check in accordance with the following chart. If the situation cannot be corrected, please contact your dealer or service company.

**NOTE** • Although bright spots or dark spots may appear on the screen, this is a unique characteristic of liquid crystal displays, and such do not constitute or imply a machine defect

Phenomenon	Cases not involving a machine defect	
	The electrical power cord is not plugged in. Correctly connect the power cord.	
	The power switch is not set to the on position. Set the power switch to [I] (On).	23
Power does not come on.	The main power source has been interrupted during operation such as by a power outage (blackout), etc.  Please turn the power off, and allow the unit to cool down at least 20 minutes. After the projector has sufficiently cooled down, please turn the power on again.	23
	Either there is no lamp and/or lamp cover, or either of these has not been properly fixed.  Please turn the power off, and allow the unit to cool down at least 45 minutes. After the projector has sufficiently cooled down, please make confirmation of the attachment state of the lamp and lamp cover, and then turn the power on again.	43, 44
	The signal cables are not correctly connected. Correctly connect the connection cables.	
Neither sounds nor pictures are outputted.	Signal source does not correctly work.  Correctly set up the signal source device by referring to the manual of the source device.	-
	The input changeover settings are mismatched. Select the input signal, and correct the settings.	24

#### Phenomena That May Easily Be Mistaken For Machine Defects (continued)

Phenomenon	Cases not involving a machine defect		
	The signal cables are not correctly connected. Correctly connect the connection cables.		
Pictures are displayed, but no sounds are heard.	The volume is adjusted to an extremely low level. Adjust the VOLUME to a higher level.		
	The sound is muted. Press the MUTE button to restore the sound.		
	The audio input is not correctly selected when the child window is displayed.  Correctly select the audio input.	30	
Sounds are heard, but no pictures are displayed.	The lens cap is attached. Remove the lens cap.		
	The signal cables are not correctly connected. Correctly connect the connection cables.		
	The brightness is adjusted to an extremely low level.  Adjust the BRIGHT to a higher level using the menu function.		
	The screen is blanked. Press the BLANK button to return to the input signal screen.	27	
Colors have a faded- out appearance, or Color tone is poor.	Color settings are not correctly adjusted.  Perform picture adjustments by changing the COLOR BAL R, COLOR BAL G, COLOR BAL B, COLOR and/or TINT settings, using the menu functions.		
Pictures appear	The brightness and/or contrast are adjusted to an extremely low level.  Adjust the BRIGHT and/or CONTRAST settings to a higher level using the menu function.		
dark.	The WHISPER function is working. Select the NORMAL to the item WHISPER in the MAIN menu.		
	The lamp is approaching the end of its product lifetime. Replace the lamp.		
Pictures appear blurry.	Either the focus and/or horizontal phase settings are not properly.  Adjust the focus using the focus buttons, and/or H PHASE using the menu function.		
	The lens is dirty or misty. Clean the lens by referring to the section "Caring For The Lens".		
Input signal changes with no operation.  The INPUT dial is set between the click points. Turn the INPUT dial and set it at a click point.		24	

# **Warranty And After-Service**

If a problem occurs with the equipment, first refer to the "Troubleshooting" and run through the suggested checks. If this does not resolve the problem, please contact your dealer or service company. They will tell you what warranty condition is applied.

# **Specifications**

**NOTE** • This specifications are subject to change without notice.

Item		Sp	Specification TLP-X4500			
Product name		Liquid crystal projector	Liquid crystal projector			
Liquid	Panel size	2.5 cm (0.99 type)				
crystal	Drive system	TFT active matrix				
panel	Pixels	786,432 pixels (1024 horizo	786,432 pixels (1024 horizontal x 768 vertical)			
Lens		Zoom lens F=1.7 ~ 2.4 f=3	Zoom lens F=1.7 ~ 2.4 f=30.5 ~ 45.8 mm			
Lamp		310W UHB	310W UHB			
Speaker		1.0W + 1.0W (Stereo)	1.0W + 1.0W (Stereo)			
Power supply		AC100 ~ 120V, 5.2A AC220 ~ 240V, 2.2A				
Power consumption		470W	470W			
Temperature range		0 ~ 35°C (Operating)	0 ~ 35°C (Operating)			
Size		420 (W) x 150 (H) x 310 (D • Please refer to the figure end of this manual.	420 (W) x 150 (H) x 310 (D) mm (Not including protruding parts) • Please refer to the figure of the section "TECHNICAL" of the end of this manual.			
Weight (mass)		7.7 kg	7.7 kg			
Ports		RGB input ports RGB M1-D BNC (R, G, B, H, V)	RGB output port RGB OUT  Audio output port AUDIO OUT			
		Video input ports VIDEO IN S-VIDEO COMPONENT (CR/PR, CB/PB, Y)	Control port CONTROL Other ports			
		Audio input ports AUDIO IN 1 AUDIO IN 2 AUDIO IN R/L	NETWORK REMOTE CONTROL DC OUT			
Optional	Lamp	TLPLX45				
Parts	Others	Please consult your dealer				