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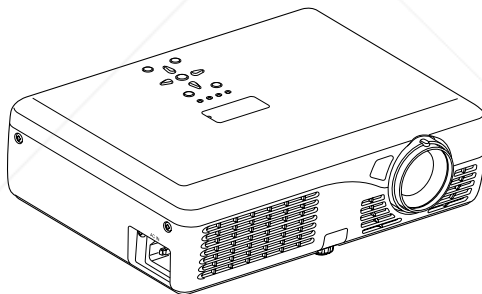
OWNER'S MANUAL

3LCD DATA PROJECTOR

TLP-T50M (XGA / with a mouse remote control)

TLP-T50 (XGA)

TLP-S30 (SVGA)



TLP-T50M / TLP-T50 / TLP-S30



Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Before Using

Preparations

Operations

Maintenance

Others

SAFETY PRECAUTIONS

| | |
|--|---|
| WARNING: BEFORE OPERATING PLEASE READ OWNER'S MANUAL. DO NOT REMOVE SCREWS EXCEPT LAMP COVER SCREWS. DO NOT BLOCK VENTING OPENINGS. | THE DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. IT MAY INTERFERE WITH THE FOLLOWING: THE OPERATING OF THE EQUIPMENT MAY NOT CAUSE HARMFUL INTERFERENCE. PROCEED TO THE NEXT PAGE TO ACCEPT ANY INTERFERENCE THE USER CAUSE UNEXPECTED OPERATION. |
| AVIS: VÉRIFIEZ LA MANÈRE D'EMPLOI AVANT L'USAGE. NE PAS RETIRER LES VIS À L'EXCEPTION DES VIS DU COUVERCLE DE LA LAMPÉ. NE BOCUEZ PAS LES ORIFICES DE VENTILATION. | WARNUNG: VOR DEM EINSATZ DIE BEWEISUNGSANLEITUNG LEBEN. KEINE SCHRAUBEN AUSSER DEN LAMPENDECKELSCHRAUBEN ENTFERNEN. LÜFTUNGSPÖFFNUNGEN NICHT BLOCHEHEN. |
| 警告: ・ご使用になる前に、取扱説明書をお読みください。 ・ランプカバー以外のネジを取り外さないでください。 ・通気孔をふさがしないでください。 | 警告: ・操作前、取扱説明書を使用してください。 ・ランプカバー以外のネジを取り外さないでください。 ・通気孔をふさがしないでください。 |



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 RAIN 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: 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.

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

Notice: 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. **CANADA only**

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

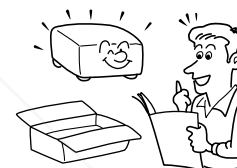
CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

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

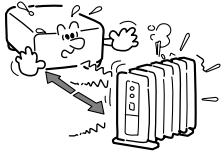
Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product 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)

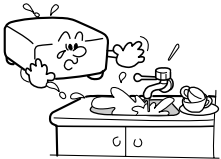
5. Heat

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



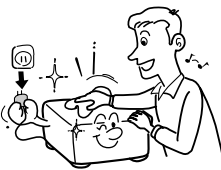
6. Water and Moisture

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.



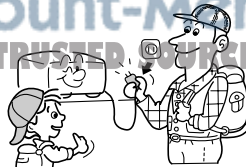
9. Overloading

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.



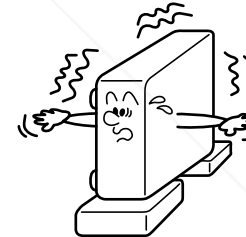
11. Object and Liquid Entry

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.



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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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

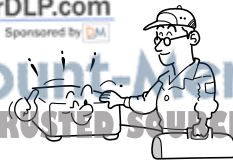
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. (Replacement of the lamp only should be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



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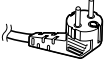
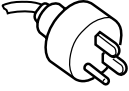
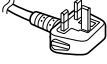
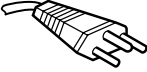
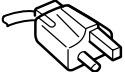
21. Do not leave thermal-paper documents or easily deformed items on top of the unit or near the air exhaust.

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 | Plug configuration | Plug type | Line voltage |
|---|-----------|--------------|---|-------------------------------|--------------|
|  | EURO | 220 – 240V |  | Australian 240V 10A | 200 – 240V |
|  | UK | 220 – 240V |  | Switzerland 240V 6A | 200 – 240V |
| Use a 5A fuse which is approved by ASTA or BSI to BS1362. Always replace the fuse cover after changing the fuse. | | |  | 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 damaging 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.)

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

Model No.

Serial No.

Retain this information for future reference.

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- 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.

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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.

Trademarks

- VGA, SVGA, XGA, SXGA, UXGA are trademarks or registered trademarks of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, Inc.
- Windows is a registered trademark of Microsoft Corporation in the U.S. and other countries.

Notational Conventions Used in This Manual

References to pages with related information are annotated as follows.

For example, if making a reference to page 36: **p.36**

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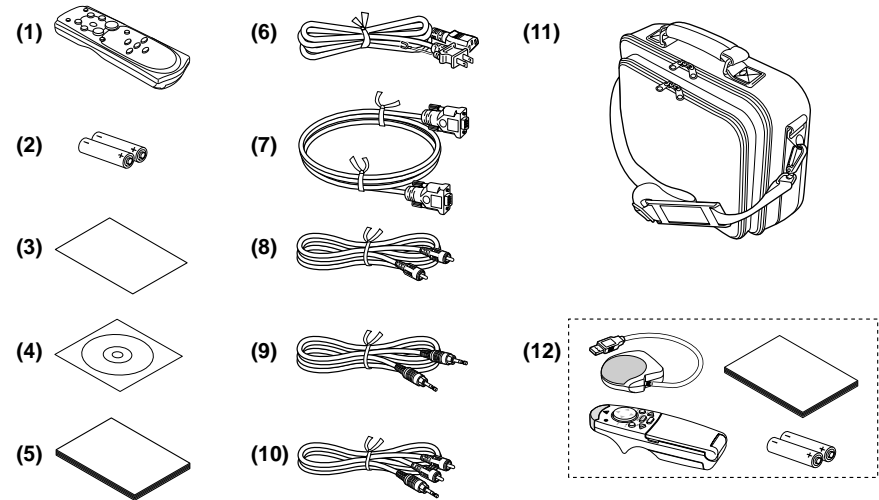
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Checking the package contents

Please make sure that the following items are included in the box, along with the main unit. If an item is missing, please contact the store from which you purchased the product immediately.



- ☐ (1) Remote control

☐ (2) R03 (SIZE AAA) batteries for remote control (2)

☐ (3) Quick Reference

☐ (4) CD-ROM

☐ (5) Owner's Manual

☐ (6) Power cord (See note)

☐ (7) RGB cable
- ☐ (8) Video cable

☐ (9) Audio cable (for computer)

☐ (10) Audio cable

☐ (11) Carrying bag

☐ (12) Mouse remote control set (*)
 - Mouse remote control, batteries
 - Mouse remote control receiver
 - Mouse remote control manual
- (*) Supplied with TLP-T50M

Note
The shape and number of power cords supplied vary depending on the product destination.

◆The Supplied CD-ROM

The supplied CD-ROM contains an owner's manual including information omitted in the Owner's manual (Getting started), Acrobat® Reader™, which is needed to view the manual.

- Installing Acrobat® Reader™**

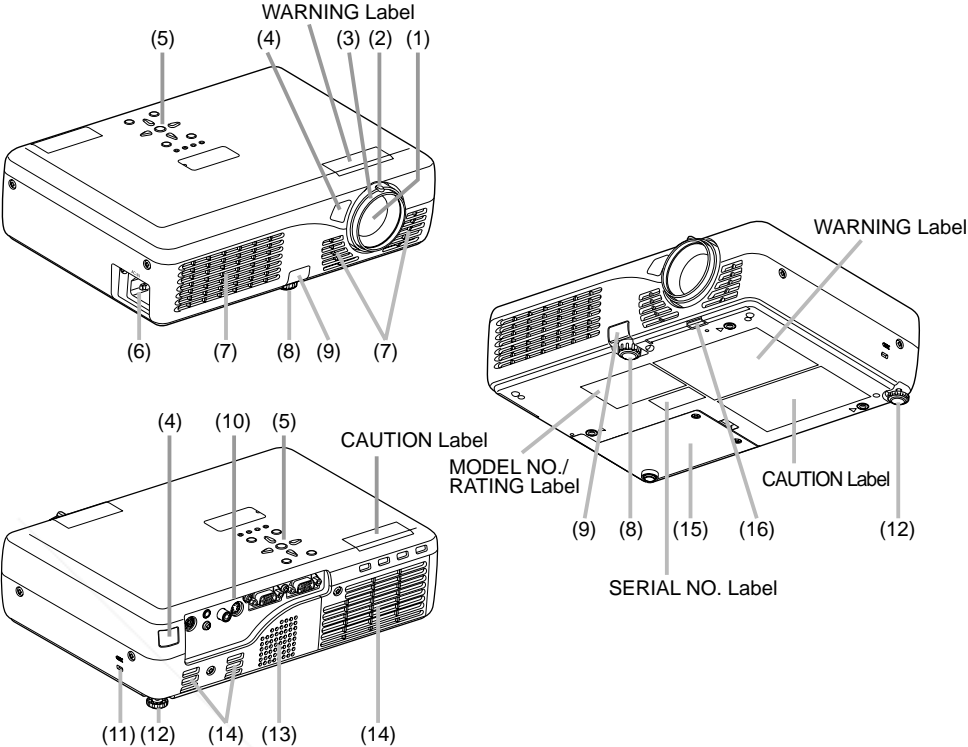
Windows: In the CD-ROM, select the **Reader/English** folder, and run **ar500enu.exe**. Follow the on-screen instructions.

Macintosh: In the CD-ROM, select the **Reader/English** folder, and run **Reader Installer**. Follow the on-screen instructions to install the software.

- Viewing the manual**

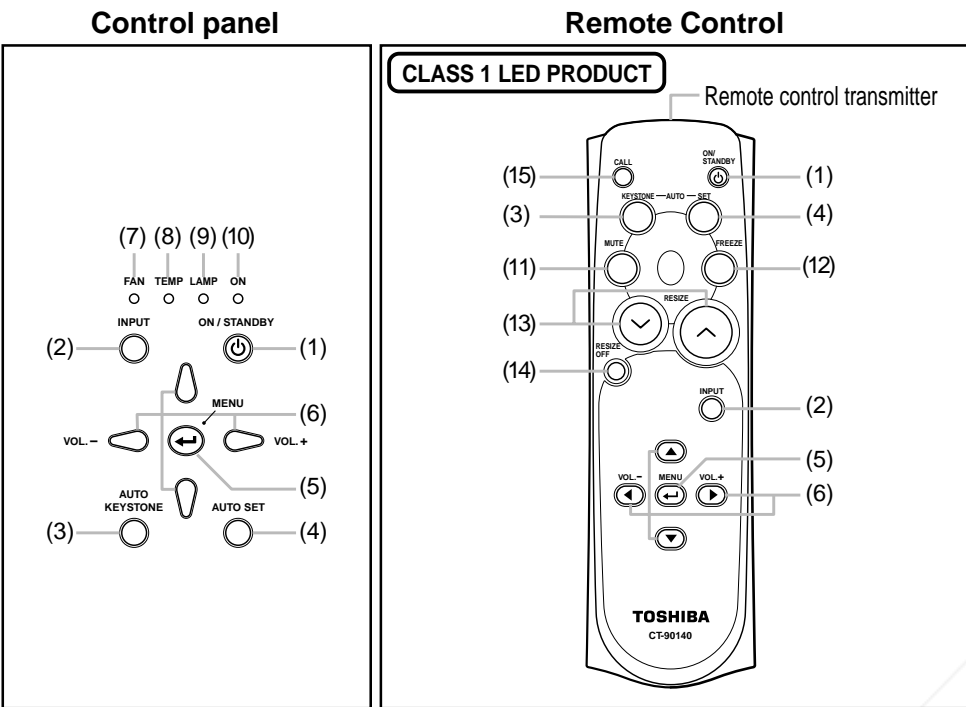
In the CD-ROM, double-click on **Start.pdf**. Acrobat® Reader™ launches, and the menu screen of the Owner's manual appears. Click on your language. The Owner's Manual cover and list of bookmarks appear. Click on a bookmark title to view that section of the manual. Click on **p.** to view a reference page with related information. See the Help menu for more information about Acrobat® Reader™.

Names of each part on the main unit



| Name | : Function |
|----------------------------------|--|
| (1) Lens | : Projects expanded image |
| (2) Zooming lever | : Adjusts screen size p.22 |
| (3) Focusing ring | : Adjusts screen focus p.22 |
| (4) Infrared remote sensor | : Senses commands from the remote control p.16 |
| (5) Control panel | : Operates the projector p.14 |
| (6) AC IN socket | : Connect the supplied power cord here p.19 |
| (7) Air intake | : Draws in air from outside unit |
| (8) Foot adjuster | : Adjusts the vertical projection angle p.22 |
| (9) Foot adjuster release button | : Press to stow the foot adjuster p.22 |
| (10) Connection terminal | : Connect to an external device p.18 |
| (11) Anti-theft lock hole | : Attach a security chain, etc. here |
| (12) Tilt adjuster | : Adjusts the projector's horizontal tilt p.22 |
| (13) Speaker | : Plays audio |
| (14) Air exhaust | : Expels air that has grown hot inside the projector |
| (15) Lamp cover | : Remove to replace lamp p.32 |
| (16) Air filter catch | : Take this to pull out the filter for cleaning p.30 |

Names of each part on the control panel and remote control

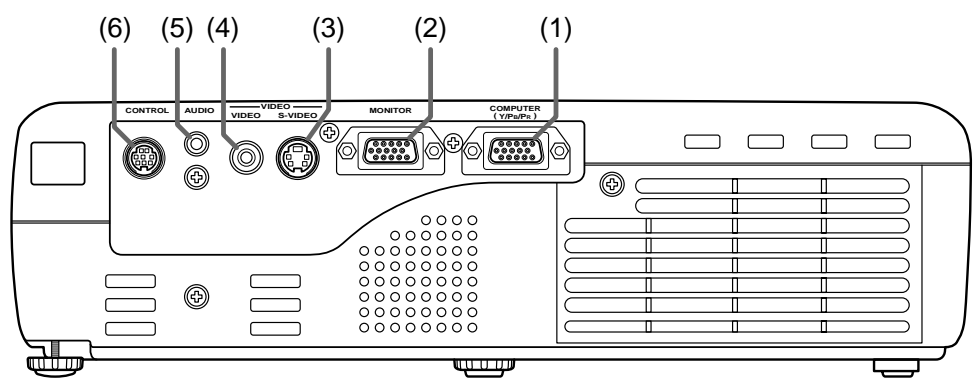


| Name | : Main Function |
|--------------------------|---|
| (1) ON/STANDBY button | : Turns the power on/off (standby) p.19 |
| (2) INPUT button | : Selects input p.21 |
| (3) AUTO KEYSTONE button | : Adjusts keystone (trapezoidal distortion) p.24 |
| (4) AUTO SET button | : Sets up image and mode p.23 |
| (5) MENU button | : Displays menus and makes selections p.27 |
| (6) Selection button | : Menu selections and adjustments, etc. p.27 |
| (7) FAN indicator | : Displays cooling fan mode p.20 p.33 |
| (8) TEMP indicator | : Lights when internal temperature too high p.33 |
| (9) LAMP indicator | : Displays lamp mode p.20 |
| (10) ON indicator | : Displays whether power is on or off p.19 |
| (11) MUTE button | : Cuts off the picture and sound temporarily p.24 |
| (12) FREEZE button | : Pauses image p.25 |
| (13) RESIZE button | : Enlarges picture size p.25 |
| (14) OFF button | : Turns off enlarged picture display p.25 |
| (15) CALL button | : Displays the information on the screen p.26 |

Notes

- For the remainder of this manual, buttons are referred to as follows:
Selection button ⇒ ; MENU button ⇒
- For further information of the mouse remote control supplied with the TLP-T50M, see the Owner's Manual of the Mouse Remote Control.

Names of the connection terminals



- (1) COMPUTER terminal**
Input RGB signal from a computer or other source, or a component video signal (Y/P_B/P_R) from video equipment.
- (2) MONITOR terminal**
Connect to a computer display, etc.
- (3) S-VIDEO terminal**
Input S video signals from video equipment.
- (4) VIDEO terminal**
Input video signals from video equipment.
- (5) AUDIO terminal**
Input audio signals from a computer or video equipment.
- (6) CONTROL terminal**
When operating the projector via a computer, connect this to the controlling computer's RS-232C port. [p.38](#)

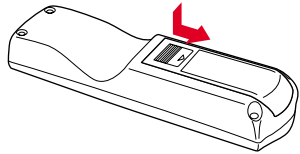
Note

- Although this owner's manual abbreviates component video signals as Y/P_B/P_R, the product also supports signals from video equipment marked "Y/C_B/C_R."

Preparing and using the remote control

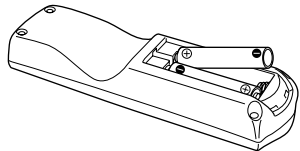
■ Loading dry-cell batteries into the remote control

① Remove the battery cover.



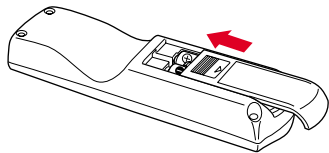
② Insert the dry-cell batteries.

Be sure to align the plus and minus ends of the batteries properly.



Two batteries (LR03 or R03, SIZE AAA) are used.

③ Replace the battery cover.



■ Dry-cell batteries

- Remove batteries from remote control when not using for extended periods.
- If the remote control stops working, or if its range decreases, replace all the batteries with new ones.

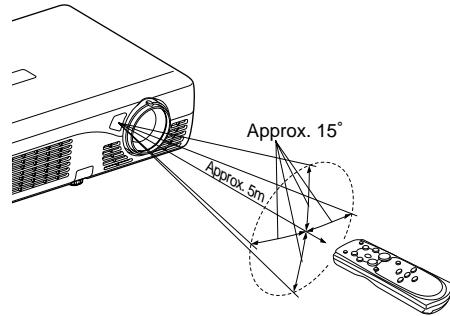
■ The remote control

- The remote control may fail to operate if the infrared remote sensor is exposed to bright sunlight or fluorescent lighting.
- Do not drop or bang.
- Do not leave in hot or humid locations.
- Do not get wet or place on top of wet objects.
- Do not take apart.
- In rare cases, ambient conditions could impede the operation of the remote control. If this happens, point the remote control at the main unit again, and repeat the operation.

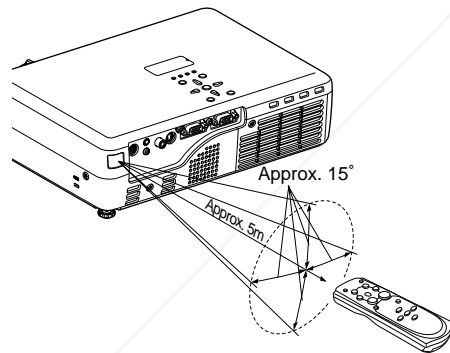
■ Operating the remote control

Point the remote control toward the projector's infrared remote sensor, and press a button on the remote control.

- Operating the projector from the front



- Operating the projector from the rear

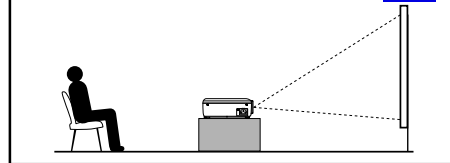


Placement

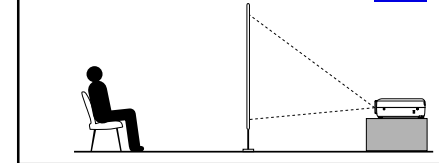
Placement Styles

As shown in the figures below, this device can be placed in 4 different styles. The factory setting is "floor-mounted front projection." Set the **placement style** in the **default setting menu** [p.28](#), in accordance with your needs.

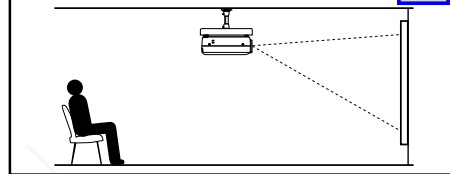
Floor-mounted front projection



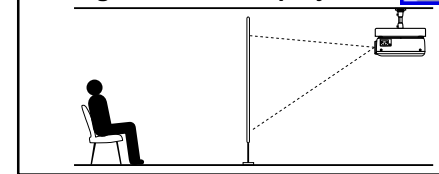
Floor-mounted rear projection



Ceiling-mounted front projection



Ceiling-mounted rear projection



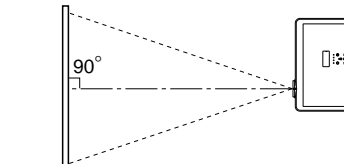
⚠ CAUTION

- Always obey the instructions listed in IMPORTANT SAFETY INSTRUCTIONS when placing the unit.
- If you wish to mount the projector on the ceiling, be sure to ask your dealer to do so. Mounting the projector on a ceiling requires special ceiling brackets (sold separately) and specialized knowledge. Improper mounting could cause the projector to fall, resulting in an accident.

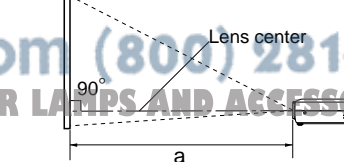
Projection Distance and Screen Size

Use the figures, table, and formula below to determine the screen size and projection distance. (Screen sizes are approximate values for full-size picture and no keystone adjustment)

Screen **As seen from above**



As seen from the side



a is the distance (m) between the lens and the screen, and corresponds to a range of 1.41 m to 11.45 m.

$$a \text{ (min length)} = \frac{\text{projection size (inches)} - 1.082}{26.107}$$

$$a \text{ (max length)} = \frac{\text{projection size (inches)} - 0.906}{21.854}$$

| screen size (cm) | projection distance a(m) | |
|------------------|--------------------------|--------------------------|
| | min length (zooming max) | max length (zooming min) |
| 32 (81) | — | 1.41 |
| 40 (102) | 1.49 | 1.79 |
| 60 (152) | 2.26 | 2.70 |
| 80 (203) | 3.02 | 3.62 |
| 100 (254) | 3.79 | 4.53 |
| 150 (381) | 5.70 | 6.82 |
| 200 (508) | 7.62 | 9.11 |
| 250 (635) | 9.53 | 11.40 |
| 300 (762) | 11.45 | — |

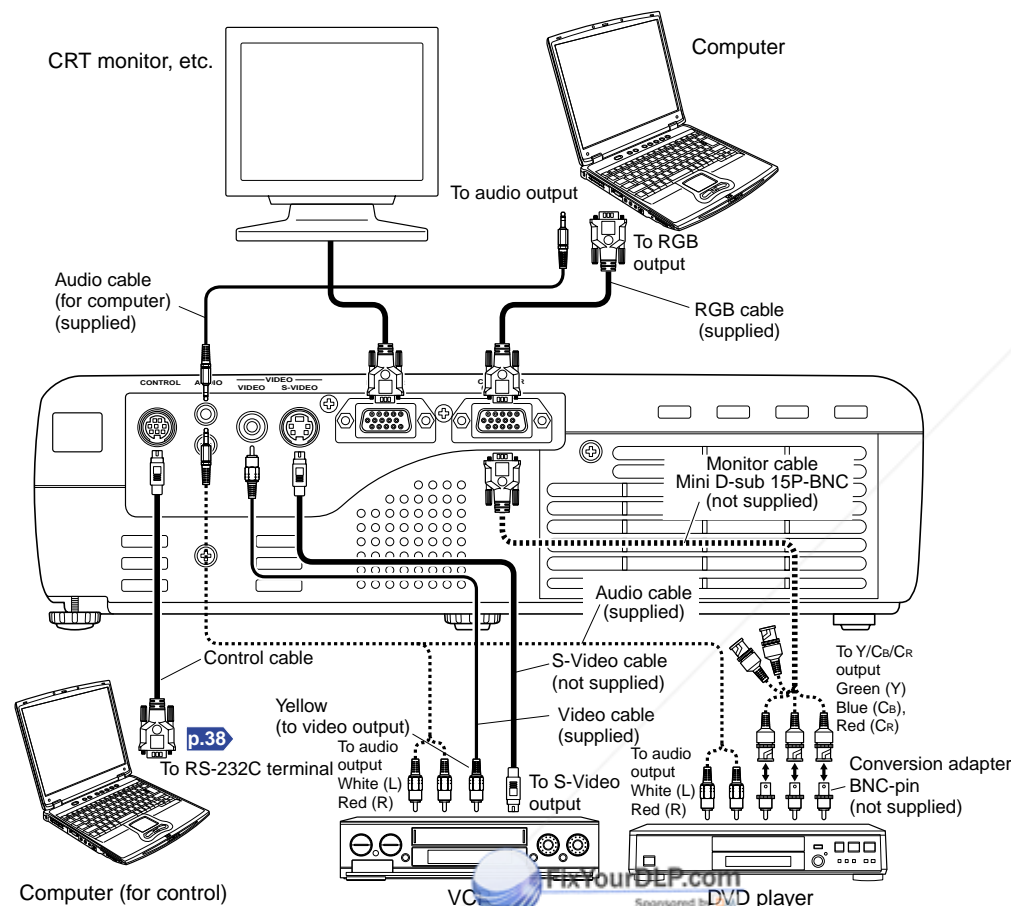
FixYourDLP.com
Sponsored by DLP

Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Connection

Before connection

- Read the owner's manual of the device to be connected to the projector.
- Some types of computer cannot be used connected to this projector. Check for an RGB output terminal, supported signal [p.36](#), etc.
- Turn off the power of both devices before connection.
- The figure below is a sample connection. This does not mean that all of these devices can or must be connected simultaneously. (Dotted lines mean items can be exchanged.)



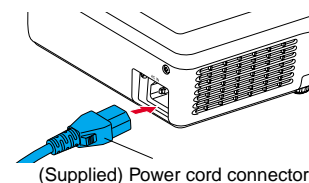
Note

- The AUDIO terminal is common among all the devices for input terminal.

Turning the power on and off

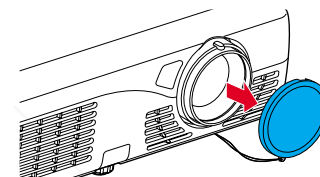
Connecting the power cord

- 1 Insert the power cord connector into the AC IN socket of the projector.
- 2 Insert the power cord plug into a wall or other power outlet.



When the power cord is plugged in, the following three green indicators will come on for several seconds: ON, TEMP, and LAMP. Next, the ON indicator will change to orange, indicating standby mode. (Do not perform any operations while the 3 green indicators are lit.)

Removing the lens cover



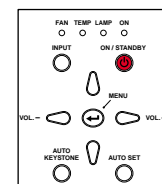
Be sure to remove the lens cover when the power is turned on. If it is left on, it could become deformed due to heat.

Turning the power on

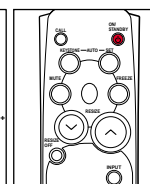
- Press the ON/STANDBY button.

The power turns on, and the following 3 green indicators light: ON, LAMP, and FAN. After a moment, the start-up screen appears.

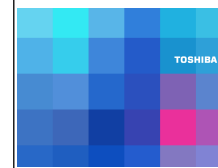
Control panel



Remote Control



Start-up screen



CAUTION

- Do not look into the lens during operation. Doing so could damage your vision.
- Do not block the air intake or exhaust. Doing so could cause a fire due to internal overheating.
- Do not place your hands, face, or other objects near the air exhaust. Doing so could cause burns, deform/break the object.

Notes

- The start-up screen will disappear after a moment. You can dismiss the start-up screen before this by performing any operation. You can also configure the start-up screen not to appear via the **Display setting menu** [p.29](#).
- The first time you use the projector after purchase, after the start-up screen disappears, the Language menu is displayed [p.21](#).

Turning the power on and off (Continued)

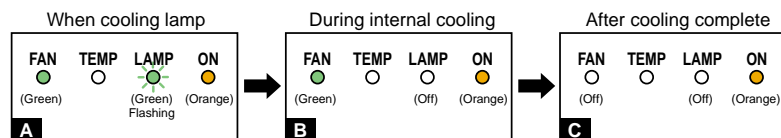
Turning the power off

1 Press the ON/STANDBY button.

A message appears on the screen, confirming that you wish to shut off the power. This message will disappear after a moment. (This operation is no longer valid after the message disappears.)

2 Press the ON/STANDBY button again.

The screen turns off, but the internal cooling fan continues to operate for a short while. Then, the projector goes into standby mode.



A During cooling, the LAMP indicator flashes. In this state, the power cannot be turned back on. In addition, unplugging the power cord in this state will shorten the life of the lamp.

B After the LAMP indicator goes off, the cooling fan continues to operate for a short while, in order to expel excess internal heat. If you are in a hurry, there is no problem with unplugging the power cord in this state.

C In standby

Note

- The projector consumes about 6W of power in standby. We recommend that you unplug the power cord if you will not be using the projector for an extended period.

PRECAUTIONS

- Before unplugging the power cord, make sure that the LAMP indicator is off. Unplugging the power cord and cutting off the power while the projector is running or being cooled will shorten the life of the lamp. **However, please unplug the power cord if the projector locks up or acts abnormally.**
- If the power cord was unplugged before cooling was complete, give the lamp sufficient time to cool before plugging it back in. If the lamp overheats it may fail to light, and its lifetime will be shortened.

LCD Panels

LCD panels wear out. In order to prolong the lifetime of your LCD panel, take the following precautions.

- In order to extend the lifetime of the LCD panel, always turn off the power when not in use, and make sure that the lamp is off. Keeping the lamp off is also very effective at saving electricity.
- If the air filter becomes dirty and clogged, the projector's internal temperature will rise, shortening the lifetime of the LCD panel and causing malfunctions. Clean the air filter from time to time [p.30](#), and replace it periodically. Contact the store where you purchased your projector, or your local Service Station for replacement air filters.

Basic operations

1 Turn on the power.

Turn on the power, following the instructions in "Turning on the power" [p.19](#).

2 Select language (When using for first time).

When the projector is used for the first time after purchase, a message is displayed on the screen, and the language menu appears. The default language is English. (If the screen focus is not on the menu, adjust according to step 6.)

1 Use the ▲ ▼ buttons to select the desired language, and press the ⏻ button.

A message displays the selected language.

2 Press the ⏻ button to apply.

| | | |
|-----------|-------|-----------------------|
| English | ..... | English |
| Français | ..... | French |
| Deutsch | ..... | German |
| Italiano | ..... | Italian |
| Español | ..... | Spanish |
| Português | ..... | Portuguese |
| 日本語 | ..... | Japanese |
| 中文(简体字) | ..... | Chinese (simplified) |
| 中文(繁體字) | ..... | Chinese (traditional) |
| 한국어 | ..... | Korean |

Notes

- After the first time the projector is turned on, the Language menu does not appear upon startup. However, from the **Reset** menu [p.29](#) select "**Reset all**" to display the Language menu the next time the projector is turned on.
- The language can also be set via the **Display setting menu** [p.29](#).
- This owner's manual assumes that English has been selected.

3 Place connected device(s) in operating status.

Turn on and boot up connected computers and other devices.

4 Select input.

1 Press the INPUT button.

A list of inputs appears on the screen.

2 Use the ▲ ▼ buttons to select the desired input, and press the ⏻ button.

The picture for the selected input is projected.

Computer
Y/Pb/Pr
Video
S-video

Basic operations (Continued)

5 Projector placement angle adjustments

The placement angle and the height of the projected image can be adjusted by the foot adjuster.

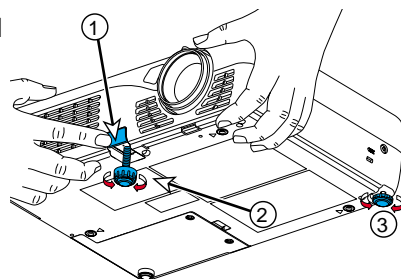
- 1 Lift up the front of the projector until it is at the desired angle, then press the foot adjuster release button.

The foot adjuster extends. Release the button to lock the position.

- 2 Turn the foot adjuster to fine-tune the angle.

- 3 To adjust the horizontal angle, use the tilt adjuster.

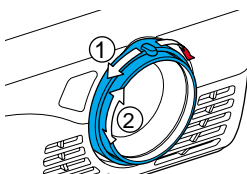
To stow the foot adjuster, hold up the projector while pressing the foot adjuster release button, then slowly lower the projector will the button depressed.



6 Adjusting the picture size and focus

- 1 Use the zooming lever to adjust the screen size.

- 2 Use the focusing ring to adjust the focus.



7 Adjusting the volume with the ◀ ▶ buttons

The speaker volume can be adjusted when an audio signal is being input.

Notes

- Note that the lamp characteristics may rarely cause the brightness to fluctuate slightly.
- A lamp is consumable supplies.
If used for extended periods, images will appear dark, and the lamp could burn out. This is characteristic of a lamp, and is not malfunction. (The lifetime of the lamp depends on conditions of use.)
- The LCD panel is made using extremely advanced technology, but there may be black spots (pixels that do not light) or bright spots (pixels that are constantly lit) on the panel. Please note that these are not malfunctions.
- Although this projector supports a wide range of RGB signals [p.36](#), any resolutions not supported by the model (XGA or SVGA, depending on the model) will be expanded or shrunk, which will affect image quality slightly. To view high-quality images, it is recommended that the computer's external monitor should be set to the projector's resolution.
- With some models of computer having LCD displays or the like, displaying images simultaneously on the projector and the monitor's display may prevent the images from displaying properly. If this happens, turn off the computer's LCD display. For information on how to turn off the LCD display, see the owner's manual of your computer.
- If a signal not supported by the projector is input, the icon will appear.
- If a no signal is being input from the connected device, the icon will appear.
- If an unavailable operation button is pressed, the icon will appear.

Using handy features

Using auto setting (Auto setting)

This function sets up the projector to the optimum state for each type of the input signal by using simple operations.

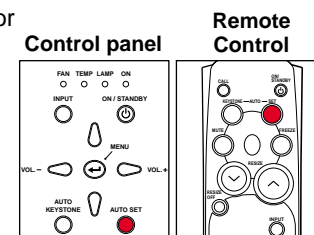
- 1 Press the AUTO SET button.

The Auto setting menu appears.

- 2 Press the AUTO SET button again.

The menu item is automatically adjusted/set.

For computer input, the icon will appear during processing.



Note

- Auto adjustment/setting may not be performed correctly for input signals other than those supported by the projector [p.36](#), [p.37](#).

Manual adjustment and setting

The menu items vary according to the input type, as shown in the table below.

Use the , , , , buttons to adjust the items in the table below, then press the button when you are finished. The menu disappears.

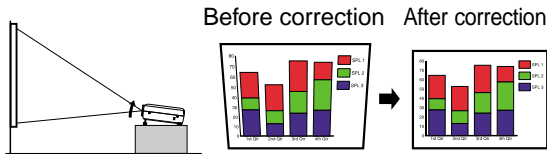
| Input | Item | Description |
|---------------|--------------------|--|
| Computer | Select Item Phase | Adjust with , to eliminate flicker. |
| | Frequency | Adjust with , to eliminate periodic patterns and flickering when many vertical lines appear in the screen. |
| | H-position | Move left , Move right |
| | V-position | Move up , Move down |
| Y/Pb/Pr | Select Item Phase | Adjust with , to eliminate flicker. |
| | Signal format | []: Enter to setting mode]→[,]: Select one of the following]→[Apply:] 480i(525i)@60Hz/480p(525p)@60Hz/ 576i(625i)@50Hz/576p(625p)@50Hz/ 720p(750p)@60Hz/720p(750p)@50Hz/ 1080i(1125i)@60Hz/1080i(1125i)@50Hz/ 1035i(1125i)@60Hz/1152i(1250i)@50Hz |
| Video S-video | Video mode | []: Enter to setting mode]→[,]: Select one of the following]→[Apply:] NTSC/PAL/SECAM/PAL-N/PAL-M/PAL60/NTSC4.43 |

Using handy features (Continued)

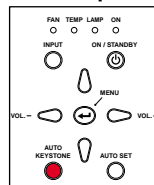
■ Correcting the keystone distortion (Keystone)

When the foot adjuster [p.22](#) is used to change the projection angle, the picture will undergo keystone (trap-ezoidal) distortion.

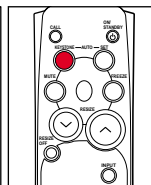
This projector is capable of correcting this keystone distortion.



Control panel




Remote Control






① Press the AUTO KEYSTONE button.




The Keystone menu appears.

② Press the AUTO KEYSTONE button again.

The keystone distortion is automatically corrected. The  icon will appear during processing.

● Manual adjustment

Use the   buttons for keystone adjustment. When the adjustment is finished, press the  button. The menu disappears.

| Item | Description |
|---|--|
|  Keystone | Shrink screen bottom   Shrink screen top |

■ Notes

- Depending on the amount of keystone adjustment and the contents of images, some information may be lost, or the picture quality may suffer.
- Keystone adjustment will not change the shape of the menus.

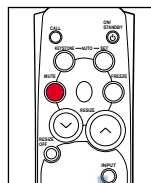
■ Cutting off the picture and sound temporarily (Mute)

When you want to temporarily project the images of another projector, overhead projector, etc., this projector's images and sound can be turned off.


● Press the remote control's MUTE button.

The picture and sound are cut off. The Mute function is released when pressing the MUTE button again.

Remote Control



■ Notes

- The  icon will appear while mute is in effect.
- Operating any other function exits the muting.

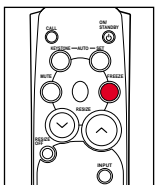
■ Freezing the image (Freeze)

The image being projected can be made to be frozen. This function is to be used to pause a video during a presentation, etc.


● Press the remote control's FREEZE button.

The picture is paused. The Freeze function is released when pressing the FREEZE button again.

Remote Control




■ Notes

- The  icon will appear while freeze is in effect.
- The freeze function can be used on the resize function. Other operations will release the freeze.
- Even if an image is frozen on the projector, it is still changing on the video or other equipment.

■ Enlarging the picture size (Resize)


The image being projected can be enlarged.

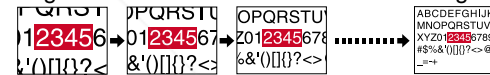
① Press the remote control's RESIZE button.

The enlargement ratio is increased each time the RESIZE  button is pressed.

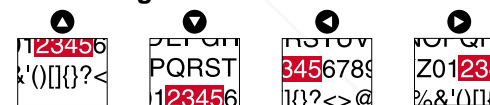


② To decrease the enlargement ratio, press the remote control's RESIZE button.

The enlargement ratio is decreased each time the RESIZE  button is pressed. (The image cannot be shrunk to less than its original size.)




③ Press and hold down the buttons to move the enlarged area.

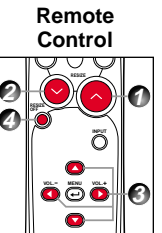


④ Press the RESIZE OFF button to undo the resize.

The resize is released, and the image returns to its original size.

■ Notes

- The  icon will appear while resize is in effect.
- An enlarged image can be frozen using the FREEZE button. The resize function on a frozen image can also be used.
- Operations other than freeze will release the resize.
- Since the enlargement is performed using digital processing, enlarging the image will cause it to appear jagged.
- Rarely, the picture could become garbled while the enlarged area is being moved.




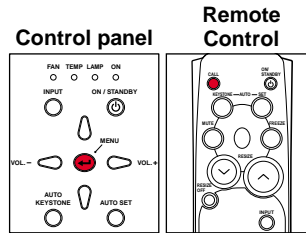
Using handy features (Continued)

■ Displaying Information [Status display]

This displays information about the input signal, lamp use time, etc.

- Press the  button twice (or press the CALL button on the remote control once).

When the  button is pressed once, the **Setting display menu** appears. Pressing it again displays information [p.27](#). The table below shows what kind of information is displayed. Press the button (or the CALL button on the remote control) again to dismiss the display.



“Yes”: displayed, “No”: not displayed

| Item | Description | Computer | Y/Pb/Pr | Video | S-video |
|-----------------|---|----------|---------|-------|---------|
| Input | Input source name | Yes | Yes | Yes | Yes |
| RGB signal mode | RGB input mode ^[Note 1] | Yes | No | No | No |
| H-resolution | Horizontal resolution (in bits) | Yes | No | No | No |
| V-resolution | Vertical resolution (in bits) | Yes | No | No | No |
| H-frequency | Horizontal sync frequency | Yes | No | No | No |
| V-frequency | Vertical sync frequency ^[Note 2] | Yes | No | No | No |
| Sync | Sync signal polarity ^[Note 3] | Yes | No | No | No |
| Signal format | Y/Pb/Pr signal format ^[Note 3] | No | Yes | No | No |
| Video mode | Color method of video signal | No | No | Yes | Yes |
| Lamp time | Time of lamp use ^[Note 4] | Yes | Yes | Yes | Yes |
| Version | Firmware version ^[Note 5] | Yes | Yes | Yes | Yes |

Notes

- 1: The mode of supported RGB signals [p.36](#) is shown.
- 2: Same as the refresh rate of the computer signal.
- 3: Sync signal polarity shown as P (positive) or N (negative) for [H/V].
- 4: Displays **[Lamp time]** as a measure of when the lamp should be replaced. (Cannot be used as a counter of guaranteed lamp time.) When the time displayed approaches 2,000 hours, consult with a store about getting a TLPLV1 replacement lamp (sold separately) prepared.
- 5: **[Version]** shows the version of the projector's internal control program. This version is referred to for customer service, etc.

■ Notes

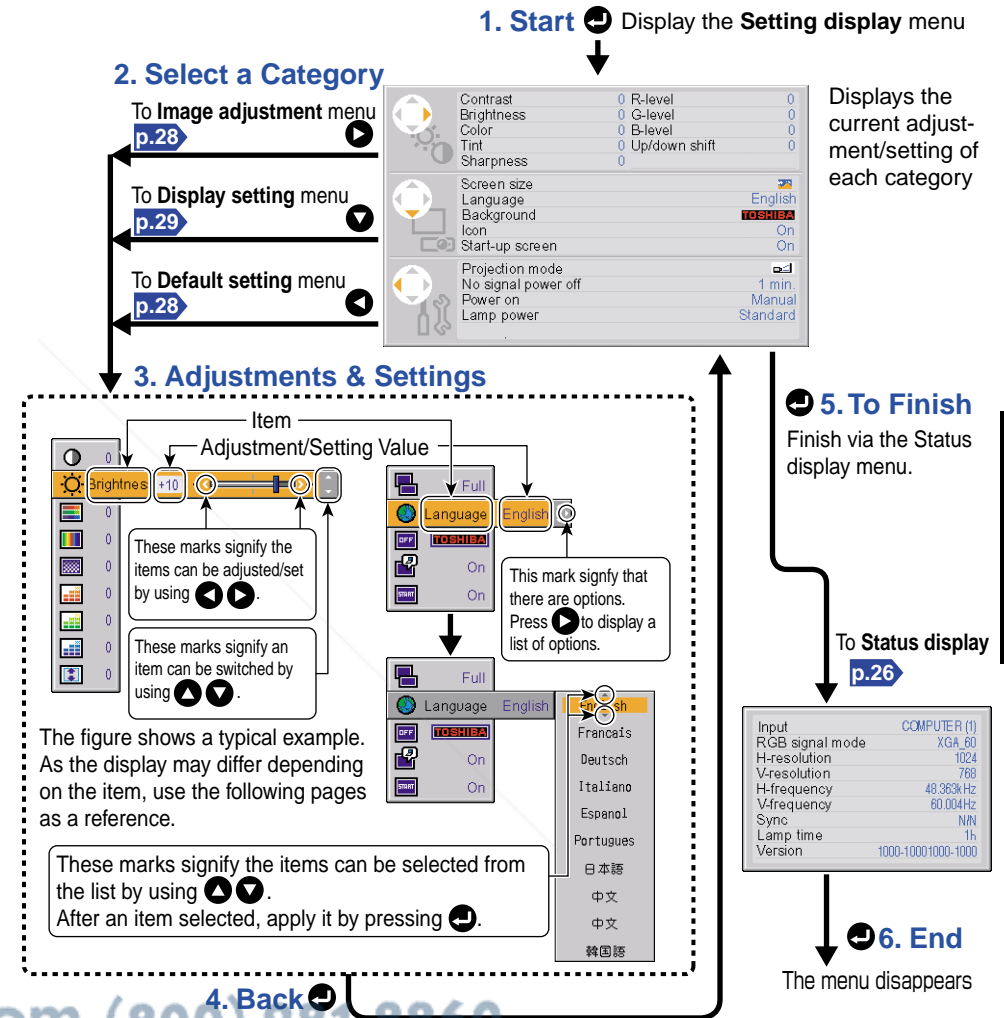
- The displayed information will not be refreshed if the status changes. To refresh the information, dismiss the display, then press the button again.
- Conducting another operation while information is being displayed dismisses the display.

Using the menus

You can call up on-screen menus, and conduct a number of adjustments and settings, using the operation buttons [p.14](#) on the control panel (main unit side) and remote control.

■ How to use the menus

The menu shown below is only for operation instructions and might be different from the actual display.



■ Note




















- Menu adjustments and settings (except Lamp power [p.28](#)) are saved when the power is turned off via the ON/STANDBY button. If the power cord is unplugged before this, or the power goes out, then the data will not be saved.

Using the menu (Continued)

■ The image adjustment menu

Use this menu to adjust image-related items.

Items that can be adjusted are marked with “Yes”, and those that cannot are marked with “No.”

| Item   | Description | Computer | Y/P _B /P _R | Video | S-video |
|--|---|----------|----------------------------------|-------|---------|
|  Contrast | Lower   Higher | Yes | Yes | Yes | Yes |
|  Brightness | Darker   Brighter | Yes | Yes | Yes | Yes |
|  Color | Lighter   Deeper | No | Yes | Yes | Yes |
|  Tint ^[Note 1] | Reddish   Greenish | No | No | Yes | Yes |
|  Sharpness | Softer   Sharper | No | Yes | Yes | Yes |
|  R-level | Less red   More red | Yes | Yes | Yes | Yes |
|  G-level | Less green   More green | Yes | Yes | Yes | Yes |
|  B-level | Less blue   More blue | Yes | Yes | Yes | Yes |
|  Up/down shift ^[Note 2] | Shift down   Shift up | No | Yes | Yes | Yes |









Notes

1: **Tint** can only be adjusted when **Video mode** [p.23](#) is **NTSC** or **NTSC4.43**.

2: **Up/down shift** can only be adjusted when **Screen size** [p.29](#) is **Wide**.

■ The default setting menu

This menu shows placement status and other settings.

| Item ▲▼ | Description |
|---|--|
|  Projection mode | Set projection mode in accordance with Placement Style p.17  (Placed on floor) ◀▶  (Rear) ◀▶  (Hung from ceiling) ◀▶  (Back hung from ceiling) |
|  No signal power off | Set the time to wait after signal input stops until turning off the power: Off (not turned off) ◀▶ 1 min ◀▶ 2 min ◀▶ ... ◀▶ 60 min |
|  Power on | Set whether to turn on the power when the ON/STANDBY button is pressed (Manual), or when the power cord is plugged in (Auto). Manual ◀▶ Auto |
|  Lamp power [Note 1] | Set the lamp power Standard ◀▶ Low |

Note































1: When **lamp power** is set to **low**, the screen becomes a little darker, but the cooling fan noise gets quieter. This setting will be cleared when you turn the power off. The setting will be back to "Standard" when the power is turned on next time.

Notes

- Note that if **Power on** is set to **Auto**, then if the power cord is plugged in when power is restored after a power outage, the projector power will come on.
- Even if **Power on** is set to **Auto**, press the **ON/STANDBY** button to turn off the power. Unplugging the power cord to cut off the power will shorten the life of the lamp.

■ The display setting menu

Use this menu to set screen display-related items.



| Item | Description |
|--|--|
|  Screen size |         (Full): Display with LCD panel's resolution  (Thru): Display with sampling resolution (for computer input)  (Wide): Wide-screen display (for Video, S-video, and Y/P _B /P _R) |
|  Language | Select one of the languages below to use for displaying menus and messages [ : Enter setting mode] → [  : Selection] → [Apply: ] English/Français/Deutsch/Italiano/Español/ Português/ 日本語 / 中文(簡体字) / 中文(繁体字) / 한국어 |
|  Background | Screen to display when there is no input signal  (Logo)    (Blue)    (None) |
|  Icon | Display icons as function guides On   Off |
|  Start-up screen | Display start-up screen when power turned on On   Off |



Note

- If “Thru” is selected for **screen size**, portions exceeding the pixel count of the LCD panel [p.35](#) will not appear on the screen. Note that for RGB signals with clock speeds SXGA3_60 [p.36](#) or lower, all input pixel signals are sampled. (This effect is noticeable when the screen is enlarged using the Resize function [p.36](#)). However, if the clock speed is higher than this, the RGB pixel signal is thinned before sampling.

■ Reset menu (Special menu)

This menu is displayed when other menus are not displayed, and the button is held down until the menu appears.

- When the screen is placed vertically, and **Auto keystone correction** is executed, but the keystone correction is not successful, stow the foot adjuster in its original position, place the projector on a flat surface, select **Horizontal reference value reset**, and press the  button.
- Select **Reset All** and press the  button to return all menu items to the factory settings.

| Item ▲▼ | Description |
|---|---|
|  Horizontal reference value reset | Reset the horizontal reference value for Auto keystone correction [▶: Enter execution mode] → [Yes ▲▼ No] → [Apply: ⏸] |
|  Reset all | Reset all menu items to their factory settings [▶: Enter execution mode] → [Yes ▲▼ No] → [Apply: ⏸] |

Air filter cleaning

The air filter prevents dust and debris from getting inside the projector. Never run the projector with the filter removed. It is recommended that the air filter is cleaned regularly. (A recommended measure is about once for every 50 hours of use.)

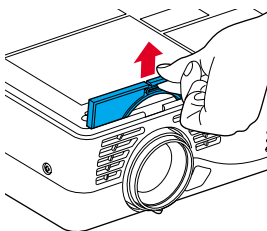
⚠ CAUTION

- Request cleaning and maintenance of a ceiling-mounted unit from your projector dealership.

❶ Unplug power cord.

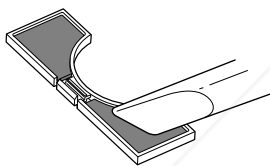
❷ Remove the air filter.

Pull out the air filter by taking the catch shown in the figure.

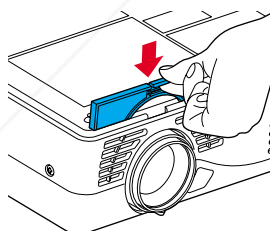


❸ Clean the filter.

Carefully remove the dust and dirt from the air filter with a vacuum cleaner or the like.



❹ Replace the air filter.



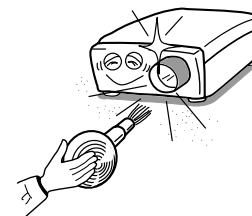
■ Notes

- Allowing dirt and dust to build up on the air filter will worsen the air circulation inside the projector, causing the internal temperature to rise, causing the projector to stop working or malfunction.
- Insert the air filter all the way in. Leaving gaps will allow dust and dirt to get inside the projector.
- If you wash the air filter with water, make sure to dry it completely before replacing it.
- If the air filter is torn, consult with your dealer about replacing it with a new one. Continuing to use a ripped filter will allow dust and dirt to get inside the projector.

Lens and main unit cleaning

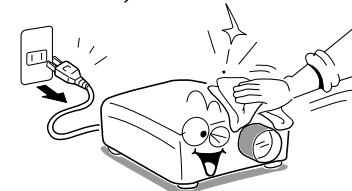
■ Lens cleaning

- Clean the lens with a commercially available blower and/or lens cleaner.
- The lens is easily scratched, so do not rub it with hard objects, or strike it.



■ Main unit cleaning

- Clean the main unit after unplugging the power cord.
- Wipe dirt off the main unit gently with a soft cloth.
- If the soiling is severe, dip the cloth in a neutral detergent diluted in water, wring well, and gently wipe off the dirt, then finish up by wiping with a dry cloth.



● Replacing air intake and exhaust fans, and air filter

To maintain the performance, it is recommended that these should be replaced about every 2 to 3 years. Consult with your dealer for details.

Lamp replacement

A lamp is consumable supplies. If used for extended periods, images will appear dark, and the lamp could burn out. This is characteristic of a lamp, and is not malfunction. (The lifetime of the lamp depends on conditions of use.) If this happens, replace it with a new one.

⚠ CAUTION

- Request cleaning and maintenance of a ceiling-mounted unit from your projector dealership.
- When replacing, always use lamp "TLPLV1" (sold separately).
- If you have been using the projector, the lamp will be very hot, and may cause burn injuries. Wait for the lamp to cool (for longer than 1 hour) before replacing it.
- If the lamp should break, please handle with care to avoid injury due to broken pieces and contact your dealer for repair service.

❶ Unplug power cord.

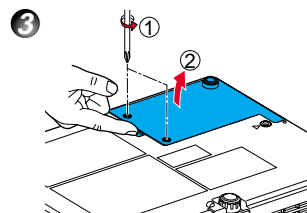
❷ Wait until lamp is sufficiently cooled.

Wait for at least 1 hour.

Lamp replacement (Continued)

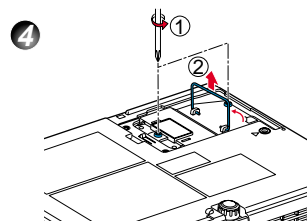
3 Remove the lamp cover.

Loosen the 2 screws, then pull up to direction of the arrow with your fingers on the area shown in the figure to remove the lamp cover.



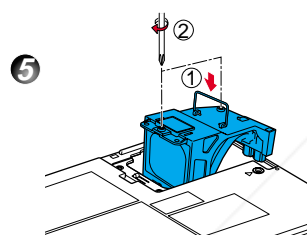
4 Pull out the lamp.

Loosen the 2 screws holding the lamp in place, and pull on the handle to remove the lamp.



5 Mount the new lamp.

Align the orientation, press down until the bottom is reached, and lock in place using the two lamp locking screws.



6 Replace the lamp cover.

Align the cover, and press it in, then screw in the screws loosened in step 3 until the lamp cover is no longer loose.

7 Reset the lamp timer.

See the lamp's manual for instructions on resetting the lamp timer.

Notes and Precautions

- Press the button twice to display (a rough guide) of the time of use from the **Lamp time** item on the **Status display menu**. [p.26](#)
- As a rule of thumb, it is recommended that the lamp should be replaced after 2,000 hours of use. When **Lamp time** reaches 2,000 hours, the icon and a message will appear. When any operation is performed, the message disappears.
- Attach the lamp cover correctly so that it is not loose. If it is not attached correctly, the lamp may fail to come on [p.33](#), and the lamp's lifetime may be shortened.
- Always replace the lamp with a new one.
- The lamp is made out of glass. Do not touch the glass surface with your bare hands, bang it, or scratch it. (Dirt, jolts, scratches and the like could break the lamp.)

Used Lamps

This projector's lamps contain trace amounts of environmentally harmful inorganic mercury. Be careful not to break used lamps, and dispose it in accordance with local regulations.

Trouble indications

The indicator lights inform you of internal abnormalities.

| | |
|--|--|
| | No power ⇒ Problem with projector • Unplug the power cord, and contact your dealer. |
| | Lamp went out during use, or won't come on ⇒ Returns to standby after about 2 minutes. If the projector fails to operate normally after turning the power back on, either the lamp needs replacing, or there is a problem with the projector. • If a lamp burns out, replace it with a new one. • Unplug the power cord, and contact your dealer. |
| | Power went out during use, or power won't come on ⇒ Internal overheating, or the outside temperature is too high. • Place the projector so that the air intake and exhaust are not blocked. • Unplug the power cord and wait for a short while, then turn the power back on. • Clean the air filter. p.30 ※ The icon will appear before the power goes out. ※ After displaying the abnormal state for about 2 minutes, returns to standby. |
| | Power went out during use, or power won't come on ⇒ Problem with internal cooling fan. • Unplug the power cord, and contact your dealer. ※ The icon will appear before the power goes out. ※ After displaying the abnormal state for about 2 minutes, returns to standby. |
| | Power went out during use, or power won't come on ⇒ The lamp cover is not properly attached. • Unplug the power cord, and reattach the lamp cover. p.32 ※ The icon will appear before the power goes out. ※ After displaying the abnormal state for about 2 minutes, returns to standby. |

PRECAUTIONS

- Make sure to unplug the power cord if something goes wrong.
- If the power cord is unplugged before cooling is complete, give the lamp time to cool before plugging it back in. If the lamp overheats it may fail to light. Unplugging the power cord repeatedly when the temperature is high will shorten the life of the lamp. (Even if you are not concerned about lamp lifetime, the light may not come on if you do not wait at least 3 minutes.)

Before calling service personnel

If you think something is wrong, check the following before contacting customer service. Please see "Trouble indications" [p.33](#) as well.

| If This Happens | Check |
|---|--|
| No power | <ul style="list-style-type: none"> Is the power cord plugged in? Is it connected to the projector? Is the lamp cover loose? p.33 |
| Power goes out during use | <ul style="list-style-type: none"> Is the ambient temperature high? p.33 Is the air filter clogged? p.33 Is the air intake or air exhaust blocked? p.33 |
| No picture | <ul style="list-style-type: none"> Is the projector turned on? p.21 Is the mute function on? p.24 Is the brightness setting minimized? p.28 Are the connections set up correctly? p.18 Are all the connected devices functioning properly? |
| No audio | <ul style="list-style-type: none"> Is the projector turned on? p.21 Is the mute function on? p.24 Is the volume setting minimized? p.22 Are the connections set up correctly? p.18 Are all the connected devices functioning properly? |
| Picture not displayed correctly | <ul style="list-style-type: none"> Is the input signal supported by the projector? p.36, p.37 Is the correct video mode selected? p.23 Is the correct signal format selected? p.23 Is the selecting of computer or Y/P_B/P_R input correct? p.21 Is there something generating an abnormal video signal, for instance the video tape? |
| Picture blurred Part of picture out of focus | <ul style="list-style-type: none"> Is the lens dirty? p.31 Is the lens focus adjusted optimally? p.22 Is the projection distance within the projector's supported range? p.17 Is the projector's screen placement angle tilted too far? p.17 Are the sharpness or sampling phase adjustments off? p.28, p.23 |
| Image is dark | <ul style="list-style-type: none"> Are the brightness or contrast adjustments off? p.28 Is the lamp nearing the end of its service life? p.26 |
| Colors too light Bad shading | <ul style="list-style-type: none"> Are the color, tint, R-level, G-level, or B-level adjustments off? p.28 Is the screen dirty? Is the lamp nearing the end of its service life? p.26 |
| Remote control doesn't work | <ul style="list-style-type: none"> Are the remote control batteries drained? Are the batteries inserted into the remote control correctly? p.16 Is the remote control being used within the effective range? p.16 Are there any obstructions between the remote control and projector? Are there any fluorescent or other bright lights shining at the projector's infrared remote sensor? |

Specifications

List of general specifications

| Item | | Specification |
|--|------------------------|--|
| Consumption Power | | 220 W |
| Weight | | 2.2 kg |
| External Dimensions (including protruding parts) | | 277 × 82 × 204 mm (W × H × D) |
| Cabinet material* | | PC+ABS resin and ABS resin |
| Conditions for usage environment | | Temp: 0°C to 35°C; relative humidity: 30% to 70% |
| LCD Panel | Display method | 3-panel transmission |
| | Panel size | 0.7 inches |
| | Drive system | TFT active matrix |
| | Picture elements | TLP-T50/T50M: 786,432 pixels (1,024H × 768V) TLP-S30 : 480,000 pixels (800H × 600V) |
| Lens | | Zoom lens F=1.9-2.2 f=27-32.5 mm |
| Lamp | | High-pressure mercury lamp |
| Projection screen size | | 32-300 inches |
| Projection distance | | 1.41-11.45 m |
| Speaker | | 1 W (Monaural) |
| Connection terminal | COMPUTER-1,2 terminals | Mini D sub 15 pin RGB / Y/P _B /P _R (dual use) |
| | MONITOR terminal | Mini D sub 15 pin RGB / Y/P _B /P _R (dual use) |
| | S-VIDEO terminal | Mini DIN 4 pin |
| | VIDEO terminal | RCA Pin Jack, 1 V (p-p), 75 Ω |
| | AUDIO terminal | 3.5mm dia. stereo mini-jack, 1.5V (rms); 22 kΩ or more |

* Each plastic part displays the materials it is made from, in order to facilitate recycling after this product's use had ended.

Specifications (Continued)

■ List of supported signals (RGB signals)

This projector supports the following RGB signals. Note, however, that depending on the computer model, the screen may show flicker or streaking. Please adjust the projector if this happens.

(Press the AUTO SET button, and adjust automatically or manually. [p.23](#))

| Resolution | Mode | Refresh rate (Hz) | H-frequency (kHz) | Clock (MHz) |
|-------------|--------------|-------------------|-------------------|-------------|
| 720 x 400 | 720x400_85 | 85.039 | 37.927 | 35.500 |
| 640 x 480 | VGA_60 | 59.940 | 31.469 | 25.175 |
| | VGA_72 | 72.809 | 37.861 | 31.500 |
| | VGA_75 | 75.000 | 37.500 | 31.500 |
| | VGA_85 | 85.008 | 43.269 | 36.000 |
| 800 x 600 | SVGA_56 | 56.250 | 35.156 | 36.000 |
| | SVGA_60 | 60.317 | 37.879 | 40.000 |
| | SVGA_72 | 72.188 | 48.077 | 50.000 |
| | SVGA_75 | 75.000 | 46.875 | 49.500 |
| | SVGA_85 | 85.061 | 53.674 | 56.250 |
| 832 x 624 | MAC16" | 74.550 | 49.725 | 57.283 |
| 1024 x 768 | XGA_43i | 86.957 | 35.522 | 44.900 |
| | XGA_60 | 60.004 | 48.363 | 65.000 |
| | XGA_70 | 70.069 | 56.476 | 75.000 |
| | XGA_75 | 75.029 | 60.023 | 78.750 |
| | XGA_85 | 84.997 | 68.667 | 94.500 |
| | MAC19" | 74.700 | 60.134 | 79.857 |
| 1152 x 864 | SXGA1_75 | 75.000 | 67.500 | 108.000 |
| 1280 x 960 | QuadVGA_60 | 60.000 | 60.000 | 108.000 |
| | QuadVGA_85 | 85.002 | 85.938 | 148.500 |
| 1280 x 1024 | SXGA3_60 | 60.020 | 63.981 | 108.000 |
| | SXGA3_75 | 75.025 | 79.976 | 135.000 |
| | SXGA3_85 | 85.024 | 91.146 | 157.500 |
| 1400 x 1050 | SXGA+ | 60.012 | 63.973 | 118.094 |
| 1600 x 1200 | UXGA_60 | 60.000 | 75.000 | 162.000 |
| | UXGA_65 | 65.000 | 81.250 | 175.500 |
| | UXGA_70 | 70.000 | 87.500 | 189.000 |
| | UXGA_75 | 75.000 | 93.750 | 202.500 |
| | UXGA_85 | 85.000 | 106.250 | 229.500 |
| 1792 x 1344 | 1792x1344_60 | 60.000 | 83.640 | 204.750 |
| 1856 x 1392 | 1856x1392_60 | 60.000 | 86.333 | 218.250 |
| 1920 x 1440 | 1920x1440_60 | 60.000 | 90.000 | 234.000 |

■ Note

- Signals whose resolution exceeds the LCD panel's number of pixels [p.35](#) will be compressed. For this reason, some information may be lost, or image quality may be affected.

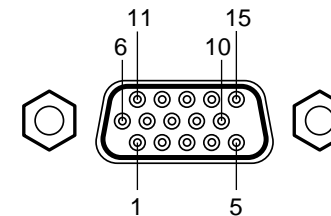
■ List of supported signals (Y/Pb/Pr signals)

| Signal format | fh(kHz) | fv(Hz) |
|-------------------|---------|--------|
| 480i(525i)@60Hz | 15.73 | 59.94 |
| 480p(525p)@60Hz | 31.47 | 59.94 |
| 576i(625i)@50Hz | 15.63 | 50.00 |
| 576p(625p)@50Hz | 31.25 | 50.00 |
| 720p(750p)@60Hz | 45.00 | 60.00 |
| 720p(750p)@50Hz | 37.50 | 50.00 |
| 1080i(1125i)@60Hz | 33.75 | 60.00 |
| 1080i(1125i)@50Hz | 28.13 | 50.00 |
| 1035i(1125i)@60Hz | 33.75 | 60.00 |
| 1152i(1250i)@50Hz | 31.25 | 50.00 |

■ List of supported signals (Video, S-Video signals)

| Video mode | fh(kHz) | fv(Hz) | fsc(MHz) |
|------------|---------|--------|--------------|
| NTSC | 15.73 | 60 | 3.58 |
| PAL | 15.63 | 50 | 4.43 |
| SECAM | 15.63 | 50 | 4.25 or 4.41 |
| PAL-M | 15.73 | 60 | 3.58 |
| PAL-N | 15.63 | 50 | 3.58 |
| PAL-60 | 15.73 | 60 | 4.43 |
| NTSC4.43 | 15.73 | 60 | 4.43 |

■ Pin assignment of COMPUTER & MONITOR terminals



Mini D sub 15 Pin connector
Input Signal

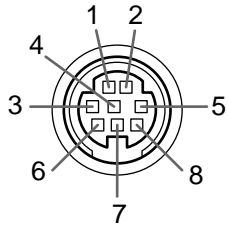
- RGB input
R/G/B signals: 0.7V (p-p) 75 Ω
Horizontal sync signal: TTL level (Pos/neg polarity)
Vertical sync signal: TTL level (Pos/neg polarity)
- Y/Pb/Pr input
Y signal: 1.0V (p-p) 75 Ω
Pb/Pr signals: 0.7V (p-p) 75 Ω

| Pin No. | Pin description | |
|---------|------------------------|------------------------------|
| | During RGB input | During Y/Pb/Pr input |
| 1 | Video signal (R) | Color difference signal (Pr) |
| 2 | Video signal (G) | Luminance signal (Y) |
| 3 | Video signal (B) | Color difference signal (Pb) |
| 4 | GND | * |
| 5 | GND | * |
| 6 | GND (R) | GND (Pr) |
| 7 | GND (G) | GND (Y) |
| 8 | GND (B) | GND (Pb) |
| 9 | N.C | * |
| 10 | GND | * |
| 11 | GND | * |
| 12 | N.C | * |
| 13 | Horizontal sync signal | * |
| 14 | Vertical sync signal | * |
| 15 | N.C | * |

* Do not connect anything.

■ CONTROL terminal

● Pin assignment



Mini DIN 8 pin connector

| Pin No. | Signal Name | Description |
|---------|-------------|-----------------|
| 1 | RXD | Receiving data |
| 2 | CTS | Consent to send |
| 3 | DSR | Data set ready |
| 4 | GND | Signal ground |
| 5 | RTS | Request to send |
| 6 | N.C | No connection |
| 7 | TXD | Sending data |
| 8 | N.C | No connection |

● Interface format

- 1 Communication method RS-232C, 9600bps, No Parity, Data Length: 8 bits;
Stop Bit Length: 1 bit
- 2 Communication format

| | | |
|-----------|-----------------|-----------|
| STX (02h) | Command (3Byte) | ETX (03h) |
|-----------|-----------------|-----------|

Only 1 command valid per communication.
- 3 Data format For input commands, only ASCII-compliant all-uppercase alphanumeric characters supported.
- 4 Replies Acknowledge

| |
|-----------|
| ACK (06h) |
|-----------|

 No acknowledge

| |
|-----------|
| NAK (15h) |
|-----------|

If commands are to be sent consecutively, wait for the response from the projector (ACK or NAK) before sending the next command.

● Main Commands

| Item | Command |
|--------------------------|------------|
| Power on | PON |
| Power off | POF |
| OSD display on | MO0 |
| OSD display off | MO1 |
| Auto setting (RGB input) | PAT |
| Status display on | DON |
| Status display off | DOF |

| Item | Command |
|-----------------------|------------|
| Computer input select | IN1 |
| Y/PB/Pr input select | IN2 |
| Video input select | IN5 |
| S-video input select | IN6 |

■ Note

- Contact your dealer for control cable and commands.

■ Separately Sold Product

Replacement Lamp Model TLPLV1

■ Note

- Design, specifications, etc. subject to change without notice for improvements, etc.



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