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TOSHIBA

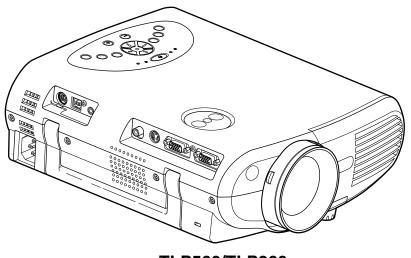
OWNER'S MANUAL

3LCD DATA PROJECTOR

TLP560 TLP561 TLP260 TLP261

(WITH DOCUMENT IMAGING CAMERA)

(WITH DOCUMENT IMAGING CAMERA)

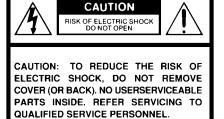




TLP560/TLP260

SAFETY PRECAUTIONS





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.

2



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.

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.

—— 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 mar the finish.

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.

— Exemption Clauses –

- Toshiba Corporation bears no responsibility in the case of damages arising from earthquakes, 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 Owner's 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.

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.

CONTENTS

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.



Before use

IMPORTANT SAFETY INSTRUCTIONS (continued)

CONTENTS

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 damp 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

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 shortout 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.



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.



IMPORTANT SAFETY INSTRUCTIONS (continued)

21. Do not get your hands between the camera arm and the main unit when setting the camera arm back in its original position.

To avoid injury, be careful not to get your hands caught when setting the camera arm back in its original position. Families with children should be particularly careful. 23. Do not leave documents on the unit or near of the air exhaust for long periods of time.

The heat could erase or discolor the letters on a thermal paper.

25. Do not look into the arm light while it is lit.

The strong light may cause damage to your eyes or sight.

22. Do not carry by the camera arm.

Do not carry the projector by the camera arm.

Doing so can result in damage or injury.



24. Do not move the projector while the arm is still erect.

Always store the arm back in position when moving the projector. Otherwise injury or damage may result.



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 240V 10 – 15A	220 – 240V		EURO	220 – 240V
- Con	UK 240V 6A	200 – 240V		UK	220 – 240V
	0/1			e which is appr	oved by ASTA
T B	Australian 240V 10A	200 – 240V	or BSI to BSI Always replac changing the	ce the fuse cove	er after
	North American 240V 15A	200 – 240V			
	Switzerland 240V 6A	200 – 240V			

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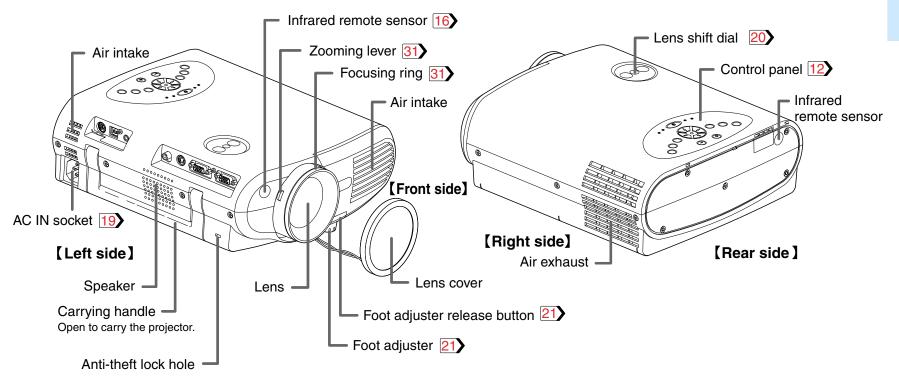
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Names of each part on the main unit

CAUTION

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 explanation here is only for the model without the document imaging camera. For the model with the document imaging camera, refer to 54.



Note

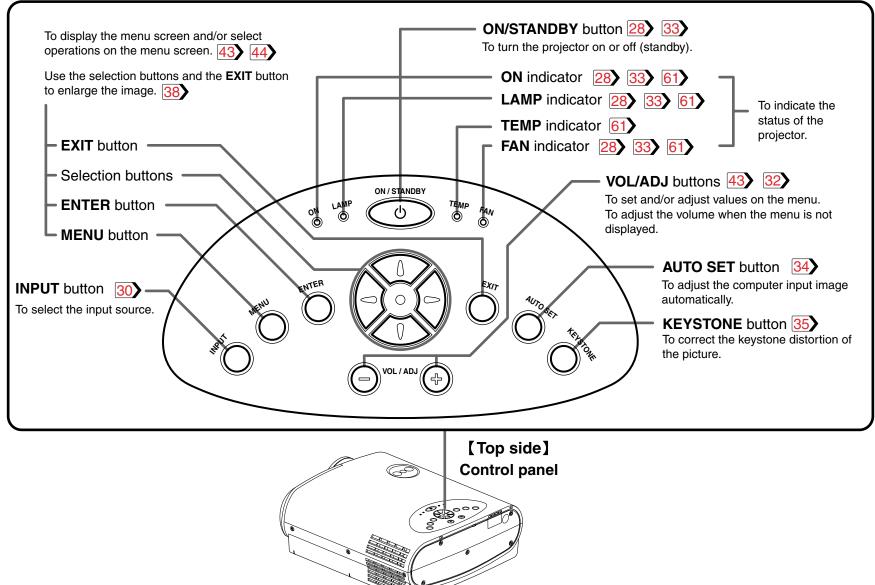
The air exhaust discharges high temperature air. Do not put anything around the air exhaust, otherwise it may deform due to the high temperature air.

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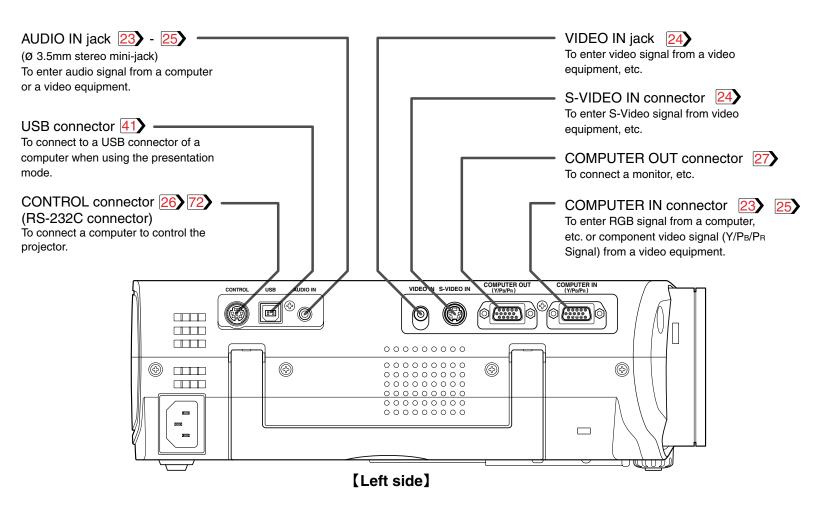
Continued

Names of each part on the main unit (continued)



12

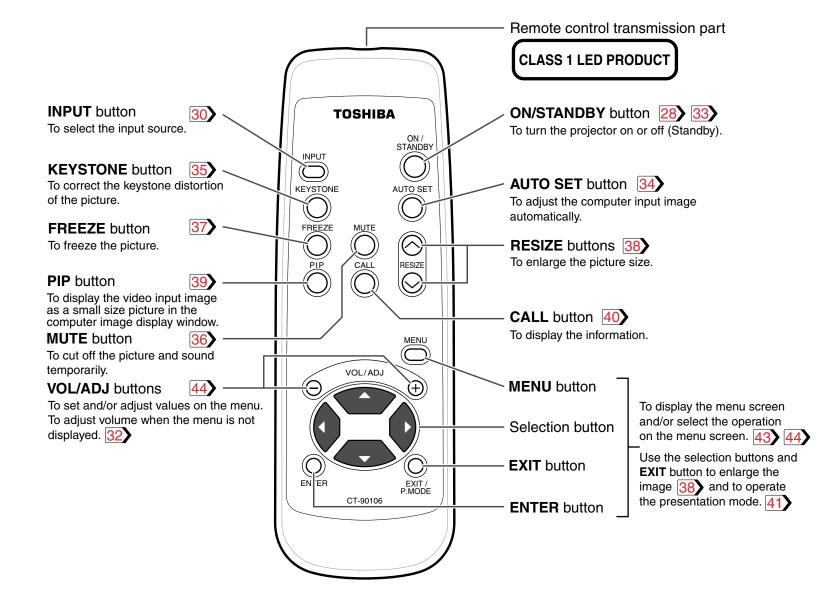
Names of each part on the main unit (continued)



Names of each part on the remote control





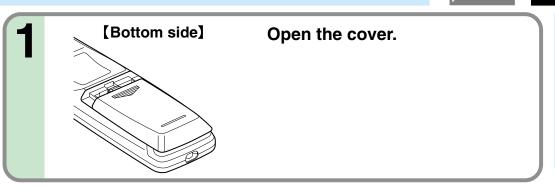


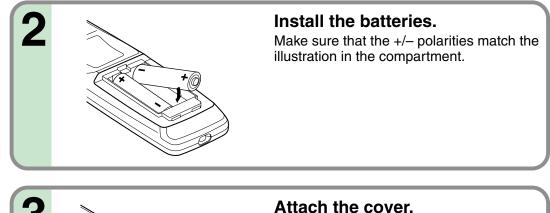
Loading batteries

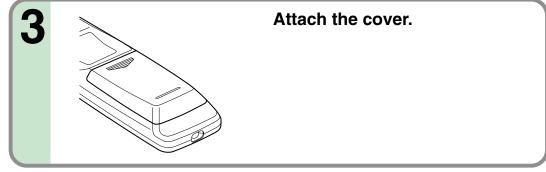
Notes

Using batteries incorrectly can cause them to leak or burst. Strictly observe the following.

- Install the batteries with their + and ends facing correctly.
- Do not charge, heat, disassemble, or short the batteries or throw them into a fire.
- Do not leave any exhausted batteries in the remote control.
- Do not mix different types of batteries or new and old batteries.
- When you will not be using the remote control for a prolonged period, take the batteries out of the remote control.
- When the remote control stops working or only works at very close range, replace all the batteries with new ones.
- When replacing the batteries, use longer life alkaline batteries.
- If a battery has leaked, carefully wipe off any residue inside the battery case before loading new batteries.



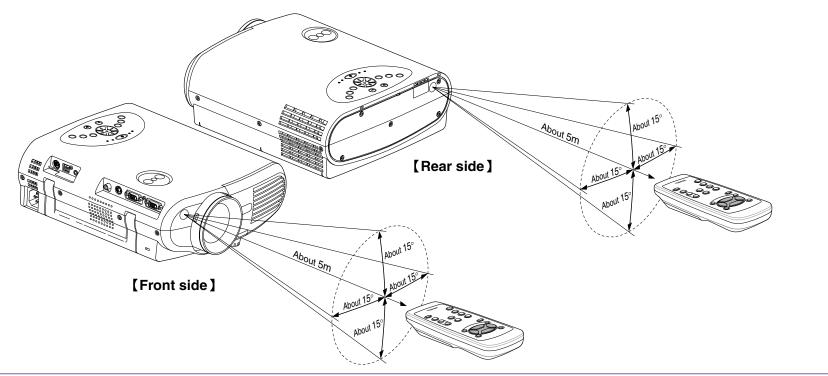




Before use

Remote control operation

Point the remote control at the infrared remote sensor and press a button.



Notes

- The remote control may not operate when there is sunlight or other strong light such as a fluorescent lamp shining on the projector's remote sensor.
- Operate the remote control from a position where the remote sensor is visible.
- Do not drop the remote control or otherwise jolt it.
- · Keep the remote control out of locations with excessively high temperature or humidity.
- Do not get water on the remote control or place wet objects on it.
- Do not disassemble the remote control.
- Under unusual circumstances the remote control may not operate well due to the location being used or the surroundings. At such times, change the direction of the remote control to the projector and retry the operation.

Floor-mounted projector placement

There are two ways to place the floor-mounted projector.

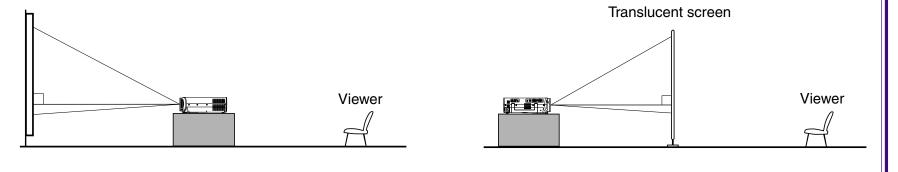
When the projector is mounted in the rear projection mode, the picture is reversed. Set the "Projection mode" (on the menu screen) according to the projection method. 51 At shipping from factory, it is set for the Floor-mounted front projection. For the ceiling-mounted projector placement, refer to the page 22.

Floor-mounted front projection

Viewing a picture projected on the front of the screen from a floor installation.

Floor-mounted rear projection

Viewing a picture projected through the back of the screen from a floor installation.



Continued

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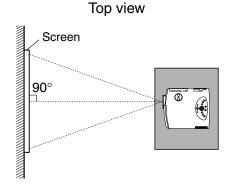
Floor-mounted projector placement (continued)

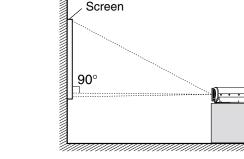


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Place the projector on a steady, level surface such as a table.

To obtain proper screen projection, place the projector so that the light beam hits the screen squarely.





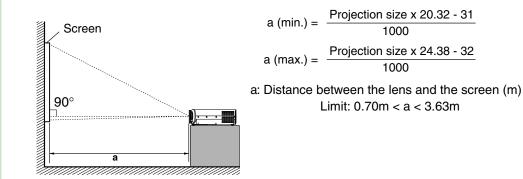
Side view

Point the lens straight at the center of the screen as above.

Place the projector horizontally so that the projecting light hits the screen squarely.

Determine the screen size projected on the screen.

The projection size depends on the distance between the lens and the screen. Adjust the projection size by changing the distances as shown below.



The values are approximations.

	a (m)	
Projection size	Minimum	Maximum
(inches)	(At maximum zoom)	(At minimum zoom)
30	_	0.70
36	0.70	0.85
50	0.98	1.19
80	1.59	1.92
100	2.00	2.41
120	2.41	2.89
150	3.02	3.63
180	3.63	_

Note



Floor-mounted projector placement (continued)

Connect the power cord.

Insert the other end into a wall outlet.

Insert one end into the AC IN socket on the projector.

The three indicators, TEMP, LAMP, and ON, light in green

for several seconds and then the ON indicator lights in



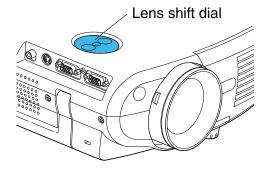
orange and the projector turns to the standby mode. ON / STANDBY Do not perform any operations while the three indicators are lit green. Light (Orange) Power cord (Supplied) Take off the lens cover.

Notes

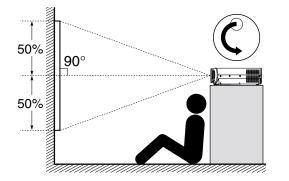
- When the projector is moved from a cold location to a warm location, or when the ambient temperature in the projection room has risen suddenly, moisture may condense on the lens or the internal optical section to blur the projected pictures. In such a case, leave the projector for an adequate time (1 to 2 hours, depending on the room's condition) before using it, so it adjusts to the ambient temperature.
- If the screen is exposed to direct sunlight or other strong light, the projected picture will become too faint to see. Shut out the light with curtains or by other means.
- If the screen and the projector are not installed properly, the projected picture may be distorted.

Lens shift function

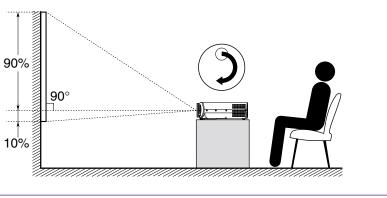
When turning the lens shift dial, the lens moves to upward or downward and the projection position on the screen is to be adjusted. At shipping from factory, it is set to the state turned clockwise fully (the highest projection position). Refer to "Projection on the screen" 28, and adjust it after projecting a picture.



When the lens shift dial is turned counterclockwise fully, the projection position becomes the lowest.



When the lens shift dial is turned clockwise fully, the projection position becomes the highest. At shipping from factory, the lens shift dial is set to this state.



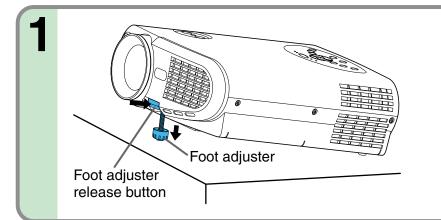
Notes

- Never give strong force to the lens shift dial as this may cause malfunction.
- At the ceiling-mounted projector placement 22, the relation between the moving direction of the projection position and the turning direction of the lens shift dial becomes contrary from the case of the floor-mounted projector placement.

Projector placement angle adjustment (Foot adjuster)

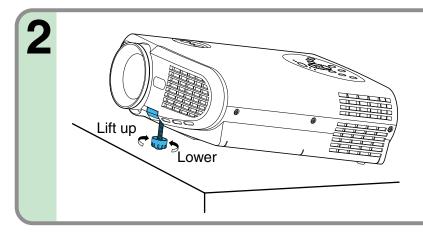
CONTENTS

The tilt of the projector can be adjusted using the foot adjuster. Adjust this when the highest position by the lens shift dial 20 is insufficient. Refer to "Projection on the screen" 28, and adjust the foot adjuster after projecting a picture.



Lift the front of the projector until the desired tilt angle is obtained and hold down the foot adjuster release button.

The foot adjuster will extend. Release the button to lock in position. 21



Turn the foot adjuster to make fine adjustment to the height.

Turn clockwise to lift up. Turn counterclockwise to lower.

Notes

- To put the foot adjuster back, hold down the foot adjuster release button and lower the front slowly.
- Be sure to hold the projector when putting the foot adjuster back so as not to let the front fall on your fingers.
- Do not tilt the projector at an angle exceeding the range adjustable by the foot adjusters, since the life duration of the lamp may be shortened.

Ceiling-mounted projector placement

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CAUTION

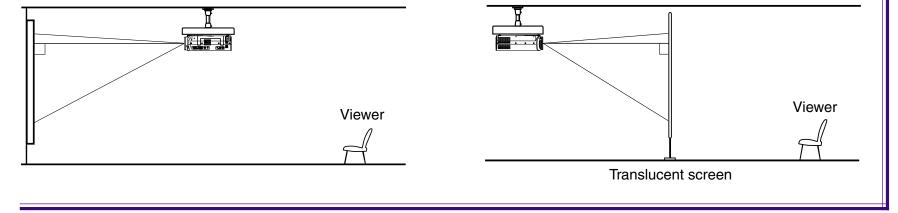
When a ceiling mount is required, please consult with the dealer.

Ceiling-mounted front projection

Viewing a picture projected on the front of the screen from a ceiling installation.

Ceiling-mounted rear projection

Viewing a picture projected through the back of the screen from a ceiling installation.



Perform the "Projection mode" setting on the menu screen for the projection method. 51

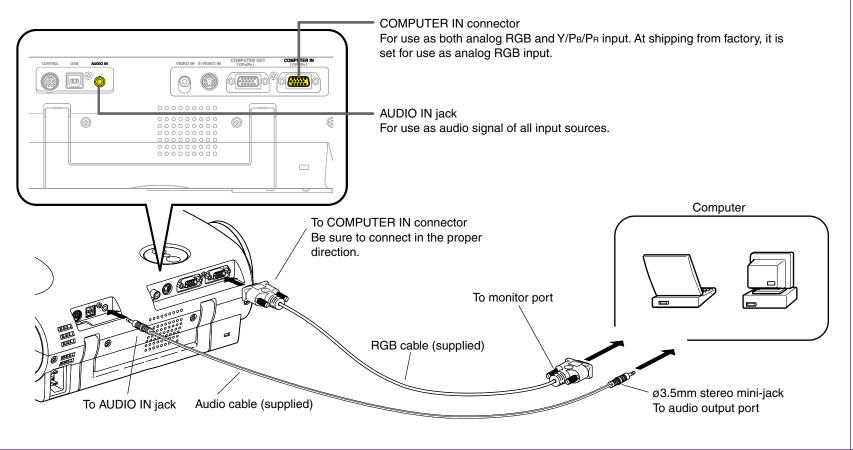
Note

The relation between the projection size and the distance to the screen is the same as that of the floor-mounted projection mode 18.

Connecting a computer

You can project the picture from the computer.

Check that the power supplies for the projector and for the computer are off before connecting the cables.



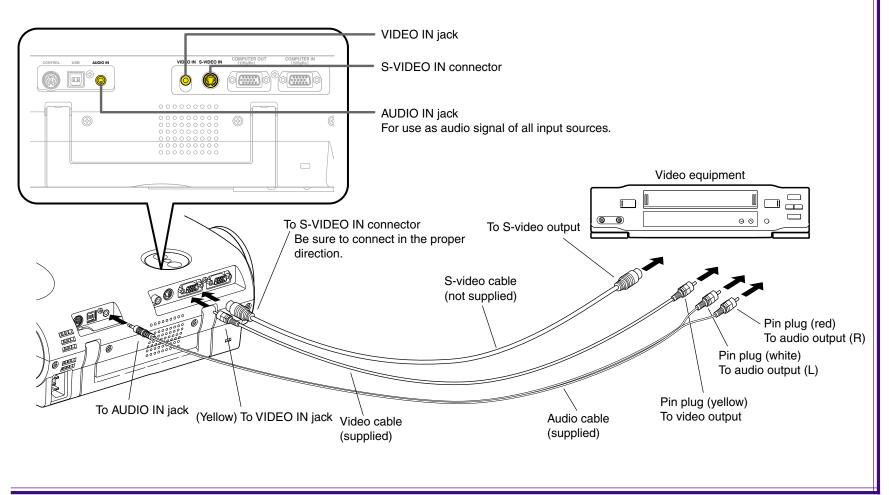
Notes

- The projector cannot be connected to a computer without an analog RGB connector. For details, refer to the computer manual.
- You may not be able to connect some computers to the projector. For details, consult the dealer.
- When connecting to a Macintosh computer, some models may need a Mac adapter for connection.
- Some computers may have output modes which are not compatible with this projector. Check the compatibility of the connectors, signal levels, timing, resolutions, etc.

Connecting video equipment

You can project the picture from video equipment.

Check that the power supplies for the projector and for the video equipment are off before connecting the cables.



Note

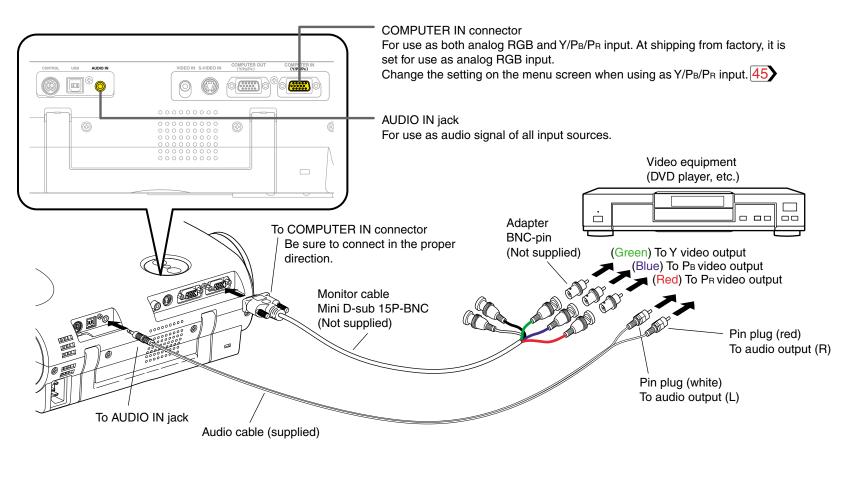
The S-VIDEO IN connector and VIDEO IN jack can be used independently, but the audio input jack is used for all input sources.

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Continued

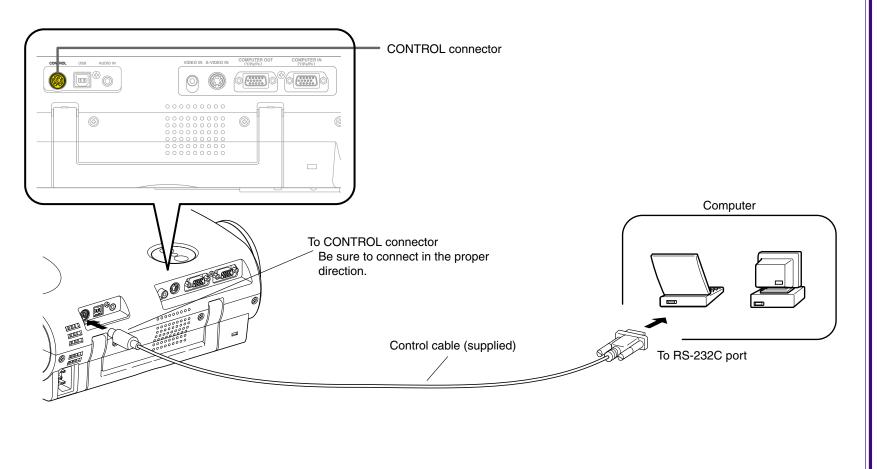
Connecting video equipment (continued)

You can project the picture from video equipment with component video output jack. Check that the power supplies for the projector and for the video equipment are off before connecting the cables.



Projector operation control by a computer

You can control the projector by a computer connected with the control cable supplied. 72 Check that the power supplies for the projector and for the computer are off before connecting the cables.



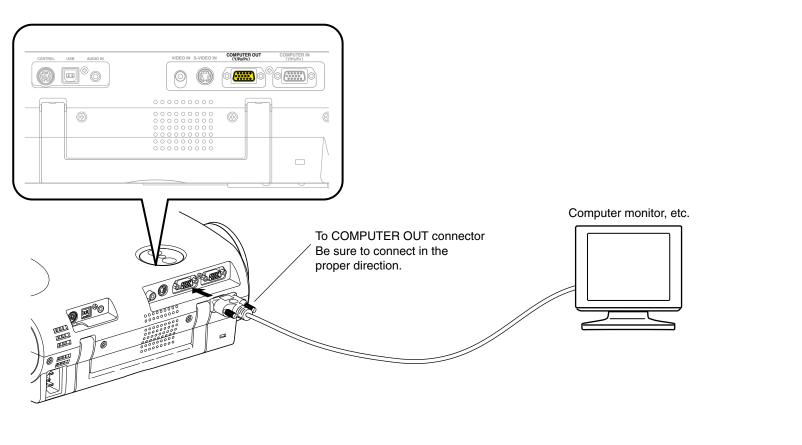
Note Do not connect any cable other than the exclusive one supplied.

nstallation and connections

How to use the output connector

You can output analog RGB signal to a computer monitor, etc.

Check that the power supplies for the projector and for the computer are off before connecting the cables.



Notes

• The analog RGB signals or Y/PB/PR signals of the COMPUTER IN connector are output from the COMPUTER OUT connector.

• Signals are output from the COMPUTER OUT connector even when in the standby mode.

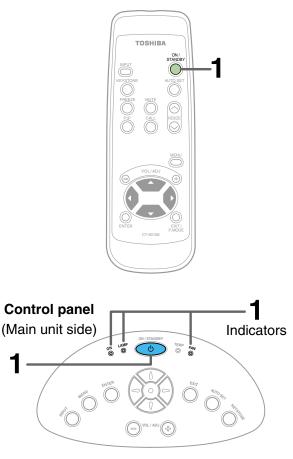
• A general computer monitor may not display a normal picture with Y/PB/PR signals.

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Projection on the screen

CAUTION - Do not look into the projection lens while operating the projector.

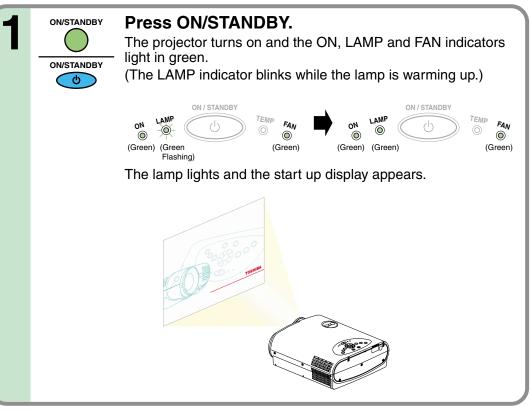




Preparation

1 Install and connect the projector properly.

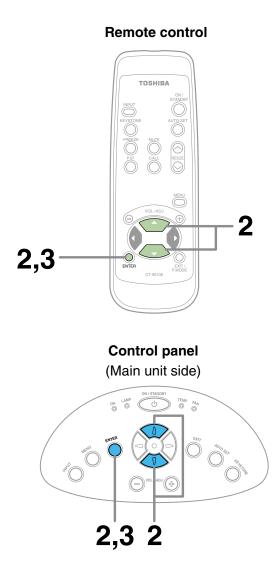
2 Take off the lens cover.



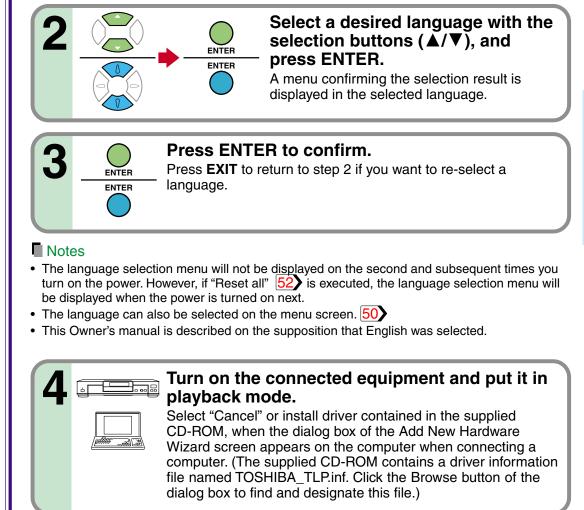
Notes

- The startup screen disappears when you push the EXIT button or wait for a while. You can also set the startup screen not to be displayed on the menu screen. 51
- When a projector is used for the first time, the language selection menu is displayed after the startup screen disappears. Set it up with procedures 2 and 3 on the next page.



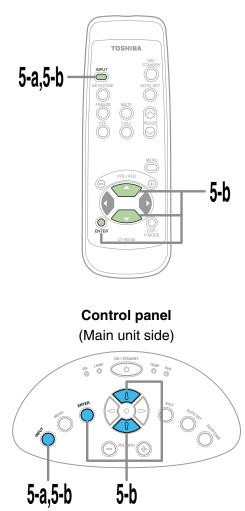


When a projector is used for the first time, the language selection menu, which is to select a language for displaying menus or messages, is displayed. Select a desired language. (At shipping from factory, it is set to English.)









Select the input source to project.

There are two kinds of methods as follows (5-a and 5-b.)

5-a INPUT INPUT

Select the input source by pressing INPUT repeatedly.

At shipping from factory, "Analog RGB" connected to COMPUTER IN connector or "Video" connected to VIDEO IN Jack can be selected. (You can select "Camera" when using the model with a document imaging camera.)

The icon and the name of the selected input source appear on the screen.

Note

The types of input sources selected when the **INPUT** button is pressed repeatedly can be set from the menu screen. 45

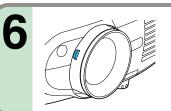
INPUT Press INPUT and hold for two seconds. 5-b The input source selection menu appears. INPUT Select the input source to project with the selection buttons (\blacktriangle/∇). Regardless of the contents of input source settings on the menu screen, all the input sources are displayed here for selection. Press ENTER. ENTER A picture of the selected input source is projected. ENTER When a sound signal source is also connected, sound is emitted from the speaker.



Notes

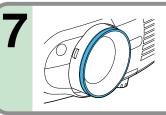
(Signal sent from the computer)

- If you project an image from a computer with an LCD screen while monitoring the image on the computer, the image may not be projected properly, depending on the computer model. In this case, turn off the computer display. For details on controlling the computer display, etc., refer to the computer's manual and description on the software for the computer used.
- The TLP560/TLP561 projects an image by XGA signal (1024 x 768) in full screen. The image quality from a computer signal other than XGA may be inferior. It is recommended to set the external monitor connected to the computer to XGA mode (1024 x 768).
- The TLP260/TLP261 projects an image by SVGA signal (800 x 600) in full screen. The image quality of a computer signal except SVGA may deteriorate. It is recommended to set the external monitor connected to the computer to SVGA mode (800 x 600).
- The projector can be also applied to DDC2B (Display Data Channel 2B). If your computer is applied to the DDC, start up your computer after turning on the projector. If the order is reversed, the computer may not output any signal.



Adjust the picture size by turning the zooming lever.

Turn to the right to enlarge the picture. Turn to the left to reduce the picture.



Focus on the picture by turning the focusing ring.

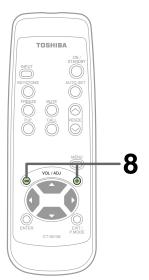
A still picture is recommended for focusing.



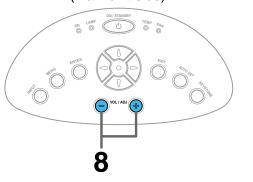


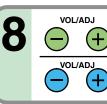
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Remote control



Control panel (Main unit side)





Press VOL/ADJ (+/-) to adjust volume. Press the (+) button to increase volume.

Press the (-) button to decrease volume.

Notes

- To change the projecting angle, adjust the foot adjuster. 21
- If the screen image suffers keystone distortion, press the **KEYSTONE** button to adjust the distortion. **35**
- Due to lamp characteristics, flickers may occasionally occur in a picture. This is not malfunction of the unit.
- The lamp may rarely burst with a loud sound.
- The projector's liquid crystal 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.
- When trying to press a button whose operation is not available, the 🧬 icon appears.
- When supplying the signal not compatible with the projector, the 🛜 icon appears.
- When signals are not input from the input source, the orr icon appears.
- The projector may stop operating if the surrounding temperature is too high or if the air filter is clogged with dust. 61

About the 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 62 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.)

Turning the power off

1,2

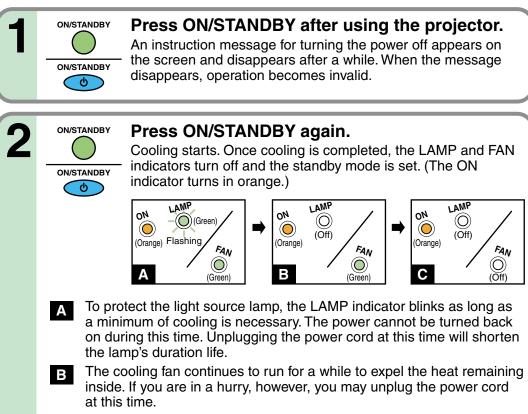
Remote control

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Control panel (Main unit side) 1,2 Indicators



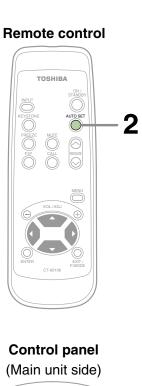
C The standby mode is set.

Notes

- The projector consumes about 15W of power in the standby mode. We recommend you unplug the power cord when not using the projector for long periods of time.
- Be sure that the LAMP indicator has turned off before unplugging the power cord. Cutting the power by unplugging the power cord while the projector is operating or the light source lamp is being cooled will shorten the lamp's duration life. Should a fault or some other irregularity arise with this unit, unplug the power cord.
- When reinserting the power plug before the lamp has cooled, please wait until the lamp has cooled sufficiently before use. When the lamp is at a high temperature, it may not light and it's life duration will be shortened.

Adjusting the picture automatically

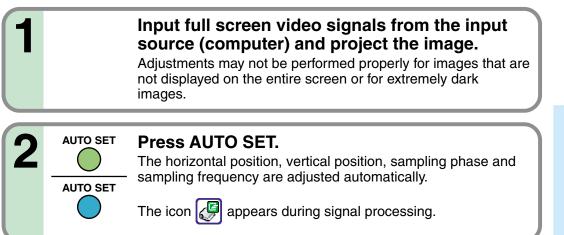




TEMP FAN

Q

You can adjust the optimum horizontal position, vertical position, sampling phase and sampling frequency for projecting analog RGB signals at the touch of a button.



Notes

- Automatic adjustment may not be performed properly for signals other than those computers' signals with which the projector is compatible.
- The horizontal position, vertical position, sampling phase and sampling frequency can also be adjusted from the menu screen 47.

Sampling frequency

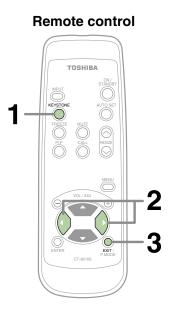
Analog RGB signals input from the computer are converted into digital signals inside the projector. The sampling frequency is the number of times per second the analog signals are converted into digital signals. In order to capture (sample) each individual dot of the computer's signals, the sampling frequency must be adjusted to match the computer's dot clock frequency. If this adjustment is off, details of the image details may be blurred, a striped pattern may appear if images with many vertical lines are displayed, or the image's width may change. For computer signals with which are projector-compatible, the sampling frequency is adjusted automatically even when the AUTO SET button is not pressed.

Sampling phase

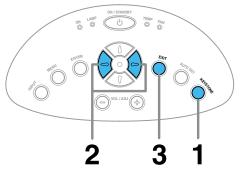
The sampling phase is the timing at which the computer's analog RGB signals are sampled. If the sampling phase is off, the individual dots cannot be sampled at the proper timing, resulting in blurred or flickering images.

Correcting the keystone distortion

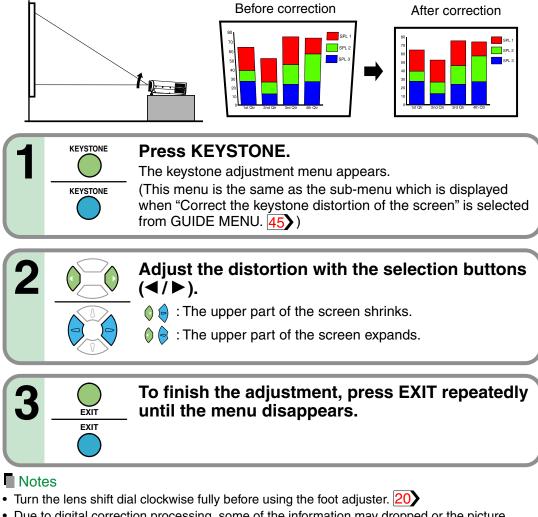




Control panel (Main unit side)



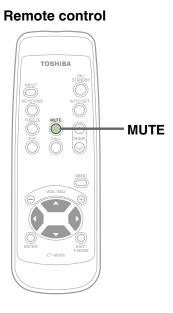
A picture may be expanded on the upper side if projected upward from the projector lifted up by the foot adjuster. The projector can correct this keystone distortion.



• Due to digital correction processing, some of the information may dropped or the picture quality may be degraded depending on the keystone correction setting or the contents of the signal source.

Cutting off the picture and sound temporarily





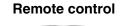
The image and sound of this projector can be turned off if you wish to temporarily project the image from another projector or an OHP, etc., onto the screen.

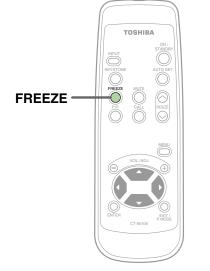
	Press MUTE. The sound and picture are cut off temporarily. To cancel the mute mode, press MUTE again. The image and sound will be output.
	The 🔟 icon appears in the mute mode.

Note

The mute mode is cancelled if another operation is performed during the mute mode.

Freezing the picture





You can freeze the image being projected.

Use this function to stop moving images from a video recorder during presentations.

FREEZE	Press FREEZE. The picture freezes. To release the picture, press FREEZE again.
	The 🖉 icon appears in the freeze mode.

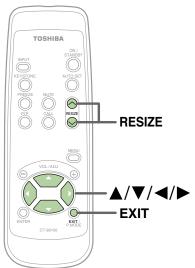
Notes

- The frozen image can be enlarged with the **RESIZE** buttons. The freeze mode is cancelled if any operation other than RESIZE is performed.
- The freeze mode cannot be set when there is no input (when no signals are being supplied from a signal source).
- The input source's moving image continues to run even when the projector is set in freeze mode.

Enlarging the picture size

RESIZE button is pressed. button pressed in. ABCDEFGHIJKL MNOPQRSTUVW XYZ0123456789!" #\$%&'()[]{}?<>@*\ RESIZE (\checkmark) pressed in. \bigcirc 7.011012 RESIZE $\land / \lor / \checkmark / \checkmark$ 123456 EXIT \bigcirc EXIT original size. EXIT

Remote control



The icon appears in the resize mode. You can enlarge (resize) the picture size projected.

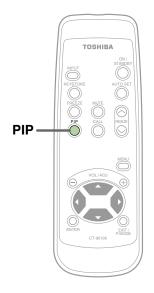
Press RESIZE (へ). The enlargement ratio increases each time the **RESIZE** (\land) The enlargement ratio can be increased continuously by keeping the BODEFGHIJKI **WHOT** OPQRSTU INOPQRSTUV 123456 → YZ01<mark>2345</mark>6789! → Z01<mark>2345</mark>678 \$%&'()[]{}?<>@* %&'()[]{}?<>@ ╏'\\[]{}?~ To reduce the enlargement ratio, press the **RESIZE** (\checkmark) button. The enlargement ratio can be reduced continuously by keeping the button PQRSTU OPQRSTU ABCDEFGHIJKL MNOPQRSTUVW $123456 \rightarrow 01234567 \rightarrow 2012345678$ XYZ0123456789!" #\$%&'()[]{}?<>@*\ &'()[]{}?<> &'()[]{}?<> The enlarged section is moved when the selection buttons $(\blacktriangle / \blacktriangledown / \bigstar / \bigstar / \blacklozenge)$ are pressed. The section can be moved continuously by keeping the button pressed in. DELOU noiuv PQRST 3456789 234 123456 11117<>@ ⅈ୵୵୲୵ୢୄୡୢ୵ୢ Press the EXIT button to cancel the resize mode and return to the

Notes

- Enlarged images can be frozen by pressing the FREEZE button. The frozen image can also be enlarged or reduced.
- The resize mode is cancelled if any operation other than setting the freeze mode is performed.
- This projector uses electrical digital resizing, so the picture quality degrades when images are enlarged.
- In rare cases, the picture may be disturbed while the magnification section is being moved.
- This function does not work in no input status (no signal is supplied from the signal source).

Displaying PIP Sub-pictures





Video or S-video images can be displayed as small images within the computer's image. (Referred to as "sub-pictures" in this manual.)

PIP	Press PIP. A sub-picture is displayed. Press the PIP button again to turn off the sub-picture.

Notes

- The PIP function cannot be used when a source other than an RGB input source is selected.
- The PIP function cannot be used without signals supplied from an RGB signal source.
- The sub-picture turns off if any other operation is performed.
- The signal source, size and display position to display sub-pictures can be changed from the menu screen. 53

Displaying Information



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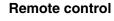
Operations

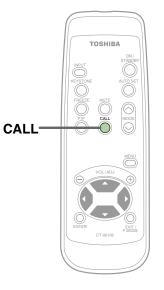
Information on the input signal source, etc., can be displayed.

CALL Press CALL. The information described below is displayed. The information display turns off when the CALL button is pressed again.
📇 Status display
Input- current input sourceH-resolution- the horizontal resolution of the input signal (at RGB input)V-resolution- the vertical resolution of the input signal (at RGB input)H-frequency- the horizontal frequency of the input signal (at RGB input)V-frequency- the vertical frequency of the input signal (at RGB input)Sync- the polarity of the sync signal (at RGB input)Video mode- the color mode of the video signal (at Video, S-Video input)Signal format-the formatting of the Y/PB/PR signal (at Y/PB/PR input)Lamp time- the elapsed usage time of the lampVersion- the shutter speed of the document imaging camera (at document imaging camera input)

Notes

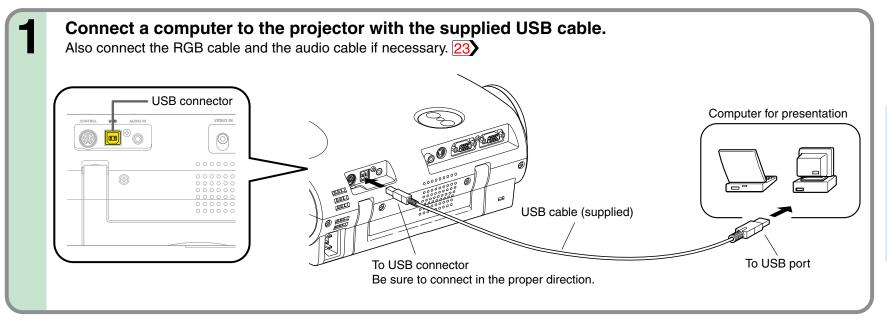
- The information displayed is not refreshed even if it changes. To refresh the information, turn off the information display, then turn it back on.
- The information display turns off if any other operation is performed.
- The "Lamp time" shows an approximate time for lamp replacement. (It should not be used as a lamp warranty time counter.) If the time indicated here nears 1500H, contact your store of purchase about obtaining a replacement lamp (TLPL55, sold separately).
- The "Lamp time" can be reset when the lamp is replaced.
- The "Version" is the version of the control program used in the projector and is used for servicing, etc.





Operating the presentation mode

You can change the slide, for the presentation on the computer, by using the remote control when connecting the projector to the computer with the supplied USB cable.



Notes

- This function is available with O.S (operating system) of Windows 98/98SE, Windows Me, Windows 2000, Windows XP or Mac OS9 with a USB port as standard.
- When connecting to the computer's USB port for the first time, a message asking you to insert the Windows98 or Windows 98SE CD-ROM may appear on the computer's monitor screen, depending on whether or not the device driver is installed. If so, do as the message says.
- When using a USB cable other than the supplied one, be sure to use a shielded type.

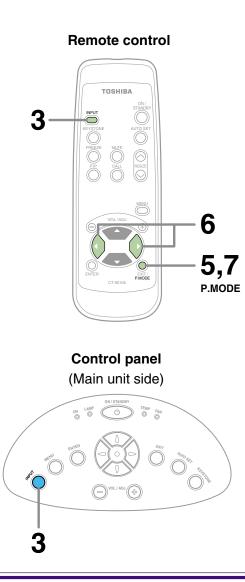


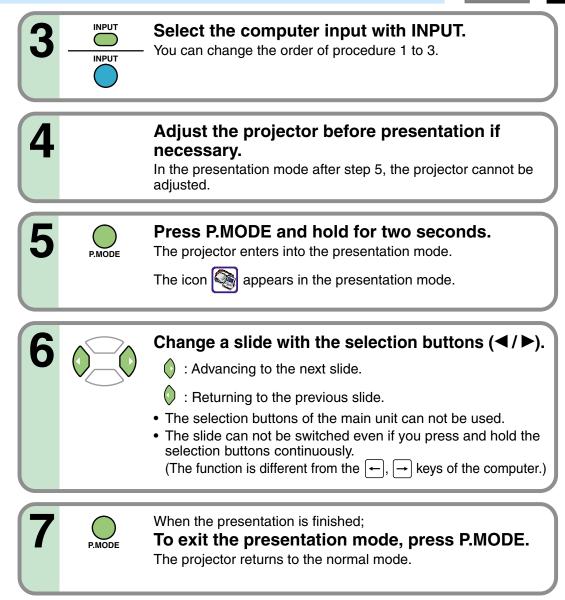
Start a presentation on the computer.

- In case of Microsoft [®] PowerPoint [®], start the slide show to make a state of displaying the first slide.
- In case of Adobe® Acrobat ® or AcrobatReader®, make state that [Full Screen] is selected from [View] menu.
- This function is also available in other application software that can change a slide by pressing ←, → of a computer.

Operating the presentation mode (continued)

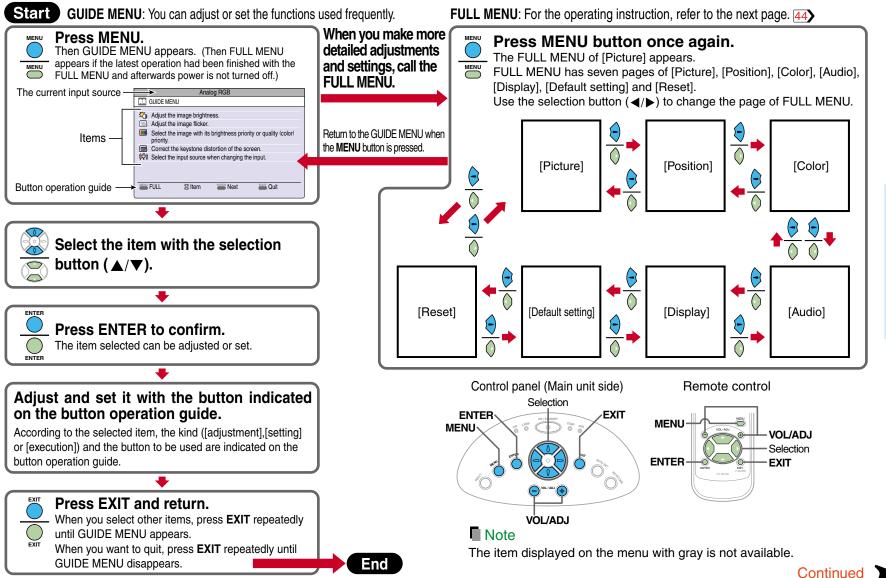
CONTENTS



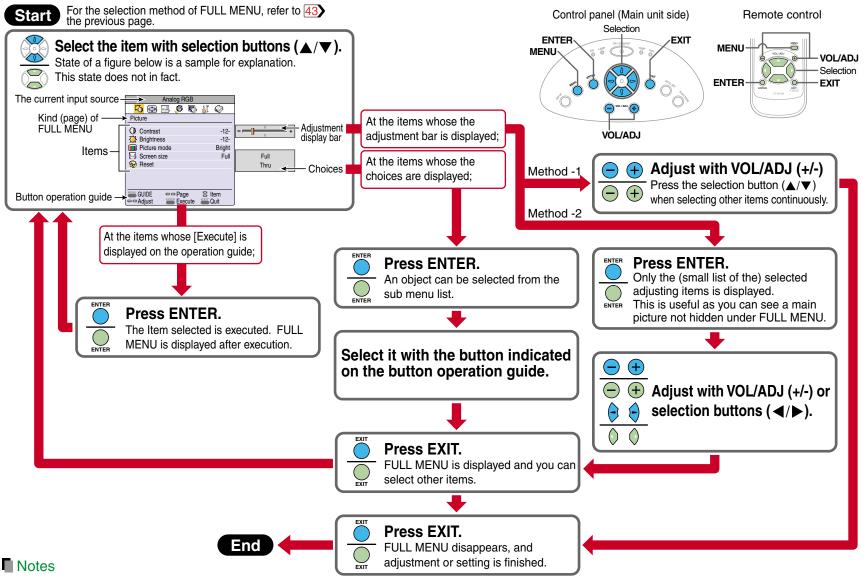


Operating the menu screen

Various adjustments and settings can be made on the menu screen. The basic operations on the menu screen are shown here.



Operating the menu screen (continued)



• The item displayed on the menu with gray is not available.

• An exclusive menu is displayed when making PIP function sub-picture settings. 53

Adjustments Settings Qo

GUIDE MENU adjustments and settings

On GUIDE MENU, you can set or adjust the functions frequently used. To operate GUIDE MENU, refer to page $\boxed{43}$.

					The relationship	The relationship between input source and item			-: Not displayed
					Analog RGB	Y/Pb/Pr	Video	S-Video	Camera
Adjust the image brightness.	1 1	Contrast	-	Adjust the contrast of the picture.	Yes	Yes	Yes	Yes	Yes
	Ч	Brightness	ADJ.	Adjust the brightness of the picture.					
Adjust the image flicker.	-[Phase	ADJ.	Adjust the flicker of the picture. (Sampling clock phase adjustment)	Yes	-	-	-	-
Adjust the image color.	-[Color	ADJ.	Adjust the color depth of the picture.	-	Yes	Yes	Yes	-
Adjust the gain of the document imaging camera.	[Camera gain	ADJ.	Adjust the document imaging camera's gain.	-	-	-	-	Yes
Reduce the flicker.	-[Shutter	Select	a shutter speed below to decrease the flickering of the document imaging camera's picture.					
		Auto	SET	The shutter speed is set automatically.					Yes
		50Hz	SET	The shutter speed is fixed to 50 Hz.	-	-	-	-	ies
		60Hz	SET	The shutter speed is fixed to 60 Hz.					
Select the image with its brightness	τŪ	Bright	SET	The picture is set with its brightness priority.	Yes	_	_	_	_
priority or quality (color) priority.	Ч	True color	SET	The picture is set with its color quality priority.	163		-	-	-
Correct the keystone distortion	-[Keystone	ADJ.	Adjust the keystone distortion.	Y	'es (commo	on for all of	f the inputs	5)
of the screen.									
Select the input source when		COMPUTER	SET	Selectable with the INPUT button.					
changing the input.		Analog RGB	SET	• : Use COMPUTER IN connector as Analog RGB input.					
ST: On/Off with ENTER		Y/Pb/Pr	SET	• : Use COMPUTER IN connector as Y/PB/PR input.	V		on for all a	f tha innuta	
\odot : On/Off with (\triangleleft) or (\blacktriangleright)	H	VIDEO	SET	Section 2 with the INPUT button.	Yes (common for all of the inputs))	
	H	S-VIDEO	SET	S-Video input is selectable with the INPUT button.					
	4	CAMERA	SET	Selectable with the INPUT button.					

Notes

- The items related to the camera (the document imaging camera) are displayed only with models having a camera.
- "Sampling phase" is adjusted and memorized for each RGB signal 70.
- "Keystone" and "Input source setting" can be adjusted (set) at all input sources, but the adjustments (settings) made at one input source are applied to all input sources.
- It is impossible to exit from the menu if no input source is selected.
- If the check in the check box for the currently selected source is removed, the setting becomes effective the next time the input is changed.
- The adjustments or settings made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is unplugged or if a power failure occurs while the projector is on, the adjustments or settings are not memorized.

FULL MENU adjustments and settings - Picture

You can make various adjustments or settings of the picture from FULL MENU [Picture].

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					between input so	Yes: Adjustable -: Not displayed		
				Analog RGB	Y/PB/PR	Video	S-Video	Camera
Contrast	ADJ. Adjust the contra	st of th	e picture.	Yes	Yes	Yes	Yes	Yes
Brightness	ADJ. Adjust the bright	ness of	the picture.	Yes	Yes	Yes	Yes	Yes
Sharpness	ADJ. Adjust the sharpn	ess of t	he picture. (In Y/PB/PR input mode, sharpness is a setting item.)	-	Yes	Yes	Yes	Yes
Camera gain	ADJ. Adjust the docun	nent im	aging camera's gain.	-	-	-	-	Yes
Picture mode	Bright True color		The picture is set with its brightness priority. The picture is set with its color quality priority.	Yes	-	-	-	-
Video mode	Auto. NTSC PAL SECAM PAL-N PAL-M PAL60 NTSC4.43	SET SET SET SET SET SET SET SET	The video mode is fixed to NTSC system. The video mode is fixed to PAL system. The video mode is fixed to SECAM system. The video mode is fixed to PAL-N system. The video mode is fixed to PAL-M system. The video mode is fixed to PAL60 system.	-	-	Yes	Yes	-
Signal format	Auto. 480i (525i) 480p (525p) 575i (625i) 720p (750p) 1080i (1125i)	SET SET SET SET SET SET	The Y/PB/PR signal format is fixed to 480i (525i) mode. The Y/PB/PR signal format is fixed to 480p (525p) mode. The Y/PB/PR signal format is fixed to 575i (625i) mode. The Y/PB/PR signal format is fixed to 720p (750p) mode.	-	Yes	-	-	-
Shutter	Auto. 50Hz 60Hz	SET SET SET	The shutter speed is set automatically. The shutter speed is fixed at 50 Hz. The shutter speed is fixed at 60 Hz.	-	-	-	-	Yes
Screen size	Full Thru	SET SET	TLP560/561: The picture is converted to XGA (1024 x 768 dot) resolution. TLP260/261: The picture is converted to SVGA (800 x 600 dot) resolution. The picture is displayed with the input source resolution.	Yes	Yes	Yes	Yes	TLP261: Yes TLP561: -
	Wide	SET	The picture is converted to wide screen format.	-	Yes	Yes	Yes	-
Reset	EXEC. Return the adjustr	nents a	nd settings of FULL MENU [Picture] to the factory default values.	Yes	Yes	Yes	Yes	Yes

Notes

• The items related to the camera (the document imaging camera) are displayed only with models having a camera.

• A part of function is restricted if you set the "Video mode" or "Signal format" to the modes other than [Auto.]. 51

• The adjustments or settings made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is unplugged or if a power failure occurs while the projector is on, the adjustments or settings are not memorized.

FULL MENU adjustments - Position

You can adjust the picture position etc. of the analog RGB input from FULL MENU [Position]. To operate FULL MENU, refer to page $\boxed{44}$.

		The relationship between input source and item			Yes: Adjustable	-: Not displayed
		Analog RGB	Y/Pb/Pr	Video	S-Video	Camera
H-position	ADJ. Adjust the horizontal display position of the picture.	Yes	-	-	-	-
V-position	ADJ. Adjust the vertical display position of the picture.	Yes	-	-	-	-
Phase	ADJ. Adjust the flicker of the picture. (Sampling clock phase adjustment)	Yes	-	-	-	-
Frequency	ADJ. Adjust the sampling frequency of the input signal if vertical stripes appear in the detailed image.	Yes	-	-	-	-
Reset	EXEC. Return the adjustments of FULL MENU [Position] to the factory default values.	Yes	-	-	-	-

Notes

• This menu is not displayed except with analog RGB input.

• The adjustment of each item in this menu is memorized for each RGB signal input 70.

• The adjustments made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is unplugged or if a power failure occurs while the projector is on, the adjustments are not memorized.

FULL MENU adjustments - Color

You can adjust the color condition of the picture from FULL MENU [Color].

To operate FULL MENU, refer to page 44.

		The relationship between input source and item			Yes: Adjustable	-: Not displayed
		Analog RGB	Y/Pb/Pr	Video	S-Video	Camera
Color	ADJ. Adjust the color depth of the picture.	-	Yes	Yes	Yes	-
Tint	ADJ. Adjust the tint of the picture. (Not adjustable at PAL, SECAM, PAL-N, PAL-M and PAL60)	-	-	Yes	Yes	-
R-level	ADJ. Adjust the red level of the picture.	Yes	Yes	Yes	Yes	Yes
G-level	ADJ. Adjust the green level of the picture.	Yes	Yes	Yes	Yes	Yes
B-level	ADJ. Adjust the blue level of the picture.	Yes	Yes	Yes	Yes	Yes
Reset	EXEC. Return the adjustments of FULL MENU [Color] to the factory default value.	Yes	Yes	Yes	Yes	Yes

Note

The adjustments made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is unplugged or if a power failure occurs while the projector is on, the adjustments are not memorized.

FULL MENU adjustments and settings - Audio

You can set the sound emitted from the speaker from FULL MENU [Audio].

To operate FULL MENU, refer to page 44.

					The relationship between input source and item Yes: Adjustable			Yes: Adjustable	-: Not displayed	
					Analog RGB	Y/Pb/Pr	Video	S-Video	Camera	
Volume	AD	I. Adjust the sound volume emitted from the speaker.				Yes	Yes	Yes	-	
Speaker output	\mathbb{H}	On	SET	The sound is emitted from the speaker.		Van (an	mmon)			
		Off	SET	No sound is emitted from the speaker.		Yes (common)				
Channel select	\mathbb{H}	L+R	SET	The sound of the left and right channels is mixed and emitted from the speaker.						
	- F	L	SET	Only the sound of the left input channel is emitted from the speaker.		Yes (co	mmon)		-	
		R	SET	Only the sound of the right channel is emitted from the speaker.						
Loudness	\mathbb{H}	On	SET	The loudness effect is added to the speaker sound.		Van (an	mmon)			
		Off	SET	The loudness effect is not added to the speaker sound.			-			
Reset	EXE	C. Return the adjustm	nents a	nd settings of FULL MENU [Audio] to the factory default values.		Yes (co	mmon)		-	

Notes

• When the camera input is selected, sound is not emitted.

- Each item can be set at every input source except the camera input, but the settings made at one input source are applied to all input sources as shown in the table. The sound volume can be adjusted for each input source except the camera input.
- The adjustments or settings made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is unplugged or if a power failure occurs while the projector is on, the adjustments or settings are not memorized.

CONTENTS

FULL MENU adjustments and settings - Display

You can set the language, menu display, etc. from FULL MENU [Display]. To operate FULL MENU, refer to page 44.

				The relationship	between input se	ource and item	Yes: Adjustable	-: Not displayed		
				Analog RGB	Y/Pb/Pr	Video	S-Video	Camera		
Keystone	ADJ. Adjust the k	eystone dis	ortion caused by changing the installation angle.		Yes (comm	on for all of	the inputs)			
Language	English	SET	Menus and messages are displayed in English.							
	Français	SET	Menus and messages are displayed in French.							
	Deutsch	SET	Menus and messages are displayed in German.							
	- Italiano	SET	Menus and messages are displayed in Italian.							
	 Español 	SET	Menus and messages are displayed in Spanish.		Ves (comm	on for all of	the inpute)			
	 Português 	SET	Menus and messages are displayed in Portuguese.		Yes (common for all of the inputs)					
	一日本語	SET	Menus and messages are displayed in Japanese.							
	────────────────────────────────────		Menus and messages are displayed in Chinese (Simplified).							
	──中文(繁體字	:) SET	Menus and messages are displayed in Chinese (Traditional).							
	└─ 한국어	SET	Menus and messages are displayed in Korean.							
Icon	On	SET	The icon is displayed.		Yes (common for all of the inputs)					
	Off	SET	The icon is not displayed.				the inputs)			
Menu position	Upper left	SET	The menu is displayed at the upper left of the screen.							
	Upper right	SET	The menu is displayed at the upper right of the screen.		Ver (common for all of the inpute)					
	 Lower left 	SET	The menu is displayed at the lower left of the screen.	Yes (common for all of the inputs)						
	Lower right	SET	The menu is displayed at the lower right of the screen.	1						
Menu translucent	On	SET	The menu background becomes translucent.		Vac (aamm	on for all of	the inpute)			
	Off	SET	The menu background is normal.	Yes (common for all of the inputs)						
Reset	EXEC. Return the a	djustments a	nd settings of FULL MENU [Display] to the factory default values.		Yes (comm	on for all of	the inputs)			

Notes

- Each item can be set at all input sources, but the settings made at one input source are applied to all input sources.
- The adjustments or settings made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is unplugged or if a power failure occurs while the projector is on, the adjustments or settings are not memorized.
- The setting of "Menu translucent" is not available if no signal is input. Also, the background of the menu will not be translucent, regardless of the settings.

FULL MENU settings - Default setting

You can set the Input source, projection mode, etc. from FULL MENU [Default setting]. To operate FULL MENU, refer to page 44.

To operate FULL MENU, refer to page 44.	The relationship between input source and item Yes: Adjustable -: Not displayed
	Analog RGB Y/PB/PR Video S-Video Camera
Input source setting COMPUTER SET SET COMPUTER IN connector is selectable with the INPUT button.	
SET : On/Off with ENTER Analog RGB SET : Use COMPUTER IN connector as Analog RGB input.	
On/Off with (◄) or (►) Y/PB/PR SET ③: Use COMPUTER IN connector as Y/PB/PR input.	Yes (common for all of the inputs)
VIDEO SET SET Video input is selectable with the INPUT button.	
S-VIDEO SET S-Video input is selectable with the INPUT button.	
CAMERA SET SET Camera input is selectable with the INPUT button.	
Projection mode Standard SET The projector is set to the floor-mounted front projection mode.	
Rear SET The projector is set to the floor-mounted rear projection mode.	Ves (common for all of the inpute)
Ceiling SET The projector is set to the ceiling-mounted front projection mode	Yes (common for all of the inputs)
Rear ceiling SET The projector is set to the ceiling-mounted rear projection mode	
Background Logo SET The TOSHIBA logo is displayed when no signal is input.	
Blue SET The entire screen is set to blue when no signal is input.	Yes (common for all of the inputs)
None SET Nothing is displayed when no signal is input.	
No signal power off Off SET The power does not turn off automatically even if no signal status continue	
5 min. SET The power turns off automatically when no signal status continues for approx. 5 m	Yes (common for all of the inputs)
Power on Manual SET The power turns on by pressing the ON/STANDBY button	
Auto. SET When the power plug is inserted, the power is on.	Yes (common for all of the inputs)
Start-up screen On SET The start-up display appears when the power is turned on.	Vec (common few all of the immute)
Off SET The start-up display does not appear when the power is turned or	Yes (common for all of the inputs)
Reset EXEC. Return the settings of FULL MENU [Default setting] to the factory default values.	Yes (common for all of the inputs)

Notes

- It is impossible to exit from the menu if no input source is selected.
- If the check in the check box for the currently selected source is removed, the setting becomes effective the next time the input is changed.
- In the following conditions, the function to detect no signal ("No signal background", "No signal power off") does not activate:
- 1) When "Video mode" 46 is set to the modes other than [Auto] and Video input or S-Video input is selected.
- 2) When "Signal format" 46 is set to the modes other than [Auto] and Y/PB/PR input is selected.
- Note that the projector automatically powers up at the restoration of power after a failure, if "Power on" is set to [Auto] with the power plug inserted.
- Even if "Power on" is set to [Auto], the setting of [5 min.] of "No signal power off" is effective.
- Each item can be set at all input sources, but the settings made at one input source are applied in common to all input sources.
- The settings made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is un-plugged or if a power failure occurs while the projector is on, the settings are not memorized.

FULL MENU settings - Reset

You can return the adjusting and setting values of all menus to the factory default setting.

Reset all EXEC. Return the adjustments and settings of all menus to the factory default setting.

Note

The resettings made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is unplugged or if a power failure occurs while the projector is on, the resettings are not memorized.

PIP menu setting

When a PIP sub-picture is displayed, the PIP menu screen will appear if you press the **MENU** button. You can make the PIP sub-picture settings when a PIP subpicture is displayed. To cancel the menu, press the **EXIT** button.

Source	Select the signal source for PIP sub-picture.	
Video	SET (: Video input is selected as signal source.	
S-Video	SET : S-Video input is selected as signal source.	
Size	Set the PIP sub-picture size.	
Small	SET SET SET SET SET SET SET IN SET	
Medium	SET O: The PIP sub-picture size is set to medium.	
Large	SET 💿 : The PIP sub-picture size is set to large.	_
Position	Set the PIP sub-picture display position.	
	SET 💿 :The sub-picture is displayed at the upper left of the screen.	
	SET	n.
	SET	
	SET ③: The sub-picture is displayed at the lower right of the screen	۱.
Reset	EXEC. Return the settings of PIP MENU to the factory default settin	ıg.

Adjustments & Settings

Notes

- The size of the PIP sub-picture differs according to the signal type (resolution) of the main picture.
- The settings made are memorized automatically when the power is turned off by pressing the **ON/STANDBY** button. If the power cord is unplugged or if a power failure occurs while the projector is on, the settings are not memorized.

Part names (of the document imaging camera model)



LOCK (W.BALANCE) indicator 59

Lights when the white balance is locked.

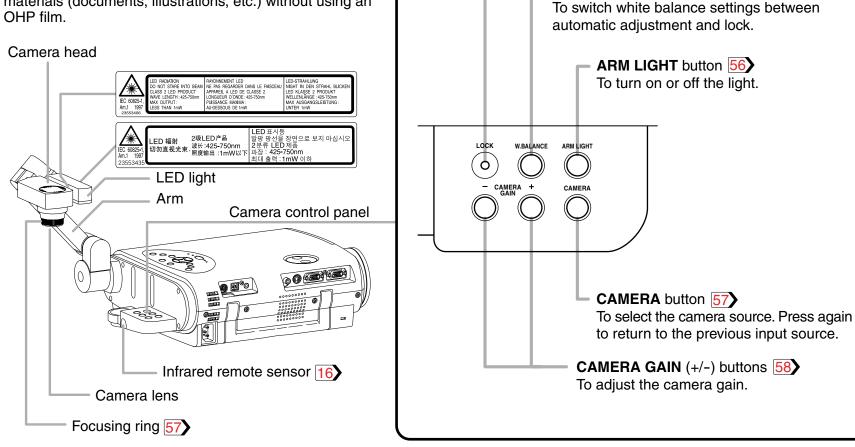
W.BALANCE button 59

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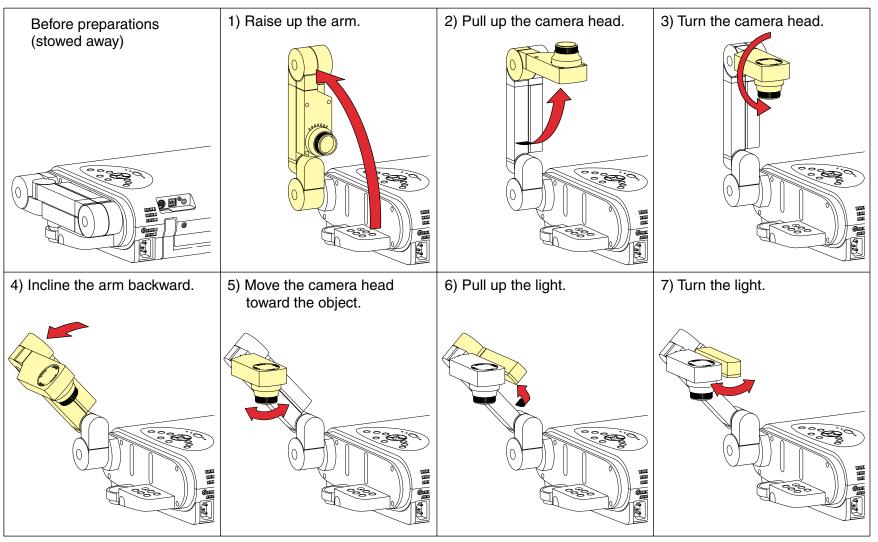
CAUTION

When using the camera, be careful not to pinch your hand or fingers into the arm.

On the document imaging camera model, you can project pictures using the document imaging camera. The document imaging camera can directly project any materials (documents, illustrations, etc.) without using an OHP film.



Preparation of the document imaging camera



Note

Never give shocks or impacts to the camera or arm as this may cause malfunction.

Document imaging camera

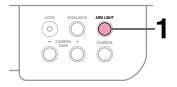
Picture projection with the document imaging camera



CAUTION

Do not look into the arm light while it is lit.

Camera control panel



Preparation

2

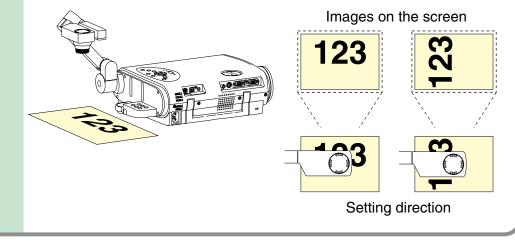
Project a picture on the screen as explained in the step "Projection on the screen". 28

ARM LIGHT Press ARM LIGHT.

The light turns on.

Set a document to be projected.

Place the document (illustrations, etc.) onto or around the projector, and turn the camera head to the direction of the document.

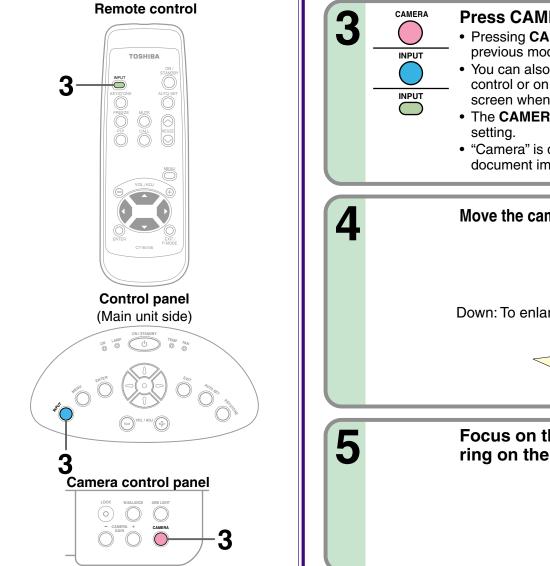


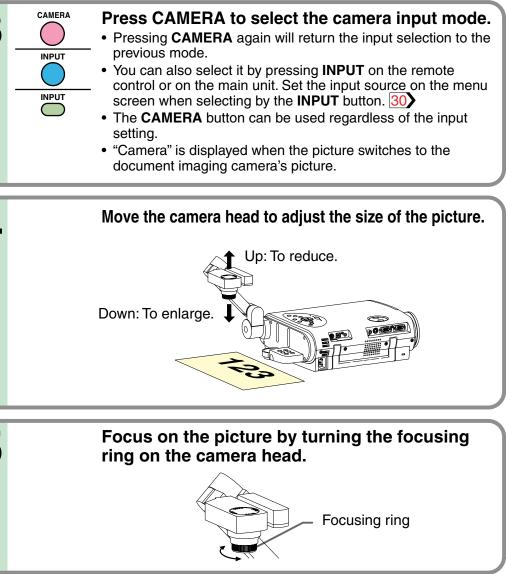
Notes

- Do not leave documents on the unit or near of the air exhaust for long periods of time. The heat could erase or discolor the letters on a thermal paper.
- Use the arm light when necessary according to the brightness of the room.

Picture projection with the document imaging camera (continued)

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Document imaging camera

Picture projection with the document imaging camera (continued)

CAMERA +



58

Notes

h

- You can adjust the "Sharpness" of the camera image on the menu screen. 46
- If the image flickers due to a fluorescent light in the room, either turn off the fluorescent light or set the "Shutter" on the menu screen. 46

Note that the image may still flicker due to the lighting, the document status, the image adjustment, etc., even if the "Shutter" setting is changed.

When finished, turn off the light and close it, and put back the arm.

Press CAMERA GAIN (+/-) to improve view of a

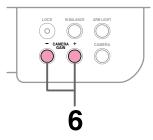
camera subject which is too dark or vivid.

Follow the steps of "Preparation of the document imaging camera" in reverse.

Notes

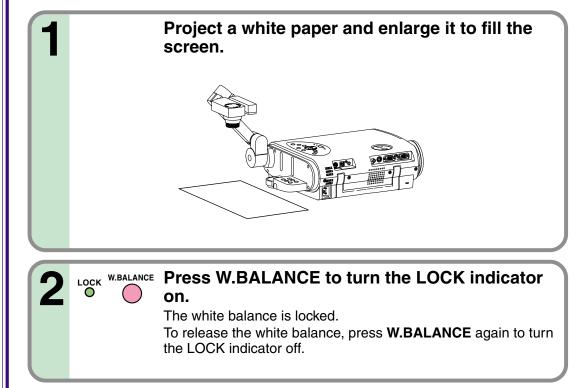
- The light turns off automatically when the arm is inclined.
- When the arm is not raised up, the camera source cannot be projected.
- · In the camera input selected, the sound is not emitted.

Camera control panel



Locking the white balance

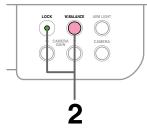
This projector 's camera is always being adjusted automatically for projected color balance; however, the balance can shift away from optimum due to the color scheme of the document. Should this occur, the white balance can be set to a fixed condition by using the following procedure.



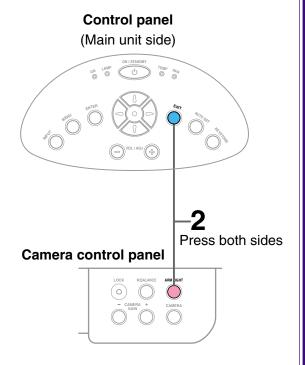
Notes

- If you raise up the arm while the camera input is being selected, the color of the picture may vary for an instant due to the automatic white balance adjustment. This is not a malfunction.
- If you put the arm back and raise it again while the white balance is locked (the LOCK indicator is lit), the projector will release the white balance.
- Should this be the case, or if you would like to adjust it to a desired tint, adjust "R-level", "G-level" or "B-level" on the FULL MENU [Color] screen.



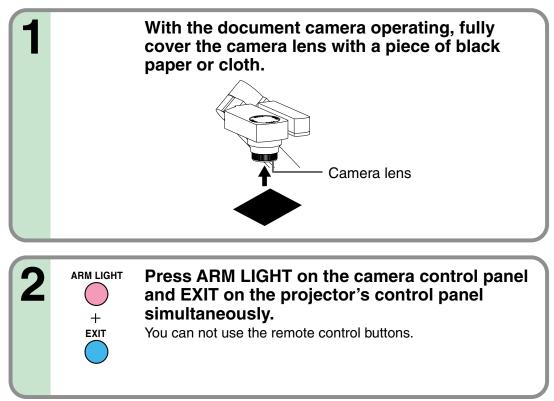


Correcting illuminated defects



For the CCD image sensor used in the camera unit, in rare cases some of the pixels may be disturbed due to the influence of cosmic rays, etc. This disturbance may cause white spots to appear on the picture.

If white spots appear on the document camera image, use the procedure described below to correct the problem.

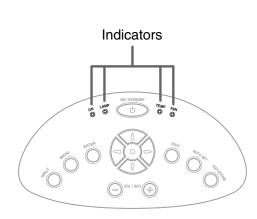


Note

Do not press **ARM LIGHT** and **EXIT** buttons simultaneously if the camera lens is not covered. Doing so will not only erase the white spot correction data already set but also result in parts of the image that are properly displayed being corrected. Also be careful if the camera input mode is not selected.

Trouble indications

If there is some problem inside the projector, the indicators light up or blink.



Control panel (Main unit side)

ON LAMP / TEMP FAN OT O 7 O O	 The power does not come on. → Malfunction of the unit. • Unplug the power cord and call the dealer.
ON LAMP / TEMP FAN ● ● (Lit in red) (Lit in red) ○ ●	 The lamp turns off or does not light up. → The projector will return to the standby mode in about 2 minutes. If the projector does not operate normally when the power is switched on again, the lamp is at the end of its life duration or the unit has a fault. Lamp's life duration is over, replace the lamp with a new one. ● Unplug the power cord and call the dealer.
ON (Lit in red) (Lit in red) ON (Lit in red) (Lit in red)	 The power turns off or does not come on. → The inside is too hot, or the projector has been working in an area of high temperature. Place the projector correctly so the intake and exhaust fan's holes are not covere Turn the projector off, and leave it for a while, and turn it on again. Clean the air filter. 62 * The Ø icon appears before the power turned off. * The projector returns to the standby mode after the fault display has been shown for about 2 minutes.
ON LAMP 7 ™ FAV (Lit or flashing (Lit or flashing in red) (Lit or flashing (Lit or flashing (Lit or flashing (Lit or flashing (Lit or flashing (Lit or flashing in red)	 The power turns off or does not come on. → Trouble with the cooling fan. • Unplug the power cord and call the dealer. * The icon appears before the power turned off. * The projector returns to the standby mode after the fault display has been shown for about 2 minutes.
ON LAMP / TEMP Solution red) (Flashing (Lit in red) (Flashing in orange) Solution	 The power turns off or does not come on. → The lamp cover is not properly attached. • Unplug the power cord and reattach the lamp cover. 66 * The icon appears before the power turned off. * The projector returns to the standby mode after the fault display has been shown for about 2 minutes.

Notes

- If abnormality occurs while operating, unplug the power cord.
- When reinserting the power cord before the lamp has cooled, please wait until the lamp has cooled sufficiently before use. When the lamp is at a high temperature, it may not light and the life duration will be shortened.

Air filter cleaning

CAUTION

If you use the projector mounted on the ceiling, ask the dealer to carry out the maintenance such as cleaning.

The filter inside the air filter cover is the part to shut out dusts or dregs.

Do not use the projector with the filter taken off.

We recommend you clean the air filter frequently. (The cleaning period is once per 50 hours approximately).

Unplug the power cord.

2



Slide the front cover rightward side for about 3 mm, then the front cover can be taken off toward you.

Detach the air filter.

Take off the filter frame by pulling the middle part of it toward you, then detach the air filter.

Air filter

Front cover

Filter frame

Clean the air filter.

Use a vacuum cleaner to carefully remove any dust and dirt from the front cover, air filter and filter frame.

Be careful that the air filter is not sucked into the vacuum cleaner.

Air filter cleaning (continued)

Notes

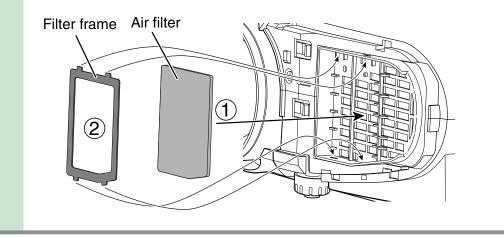
- When the air filter is dusty, the ventilation is impaired. This causes the temperature inside the projector to rise, and may damage the unit.
- Attach the air filter and the filter frame firmly after the cleaning. If it is not set correctly, the dusts will enter and they will be projected and overlapped on the picture.
- If you wash the air filter with water, be sure to let it dry fully before reinstalling it. Using it damp will result in malfunction.
- If the air filter is damaged, contact your store of purchase and replace it with a new one. Using a damaged air filter will cause dust or dirt to get inside the projector and onto the images.



6

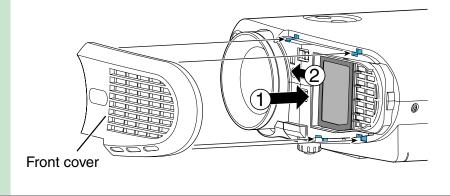
Mount the air filter and the filter frame.

Place the air filter in the projector, then insert the four tabs on the filter frame into the holes in the projector.



Mount the front cover.

Insert the hooks of the front cover into the projector first, then slide it to the lens side to fix it.



Lens and main unit cleaning

CONTENTS

64

CAUTION

If you use the projector mounted on the ceiling, ask the dealer to carry out the maintenance such as cleaning.



Cleaning the lens

Use a blower or a lens cleaner to clean the lens. Never rub or tap the lens with a hard object as the lens surface is fragile.

Cleaning the main unit

- Pull out the power cord before cleaning.
- Use a soft cloth to wipe off stains from the surface.
- To remove difficult stains, use a soft cloth slightly moistened with a weak solution of synthetic detergent and water, and finish with a soft, dry cloth.

Replacing the intake, exhaust fans and air filter

To maintain the efficiency of the projector, replace the intake and exhaust fans about every two to three years. Ask the dealer for the replacement.

Lamp replacement

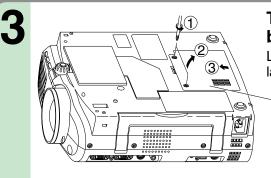
The lamp will eventually begin to project dark or dull pictures and finally will not light up. (Lamp's life depends on operating conditions.) In such a case, replace the lamp with new one.

CAUTION

- If you use the projector mounted on the ceiling, ask the dealer to carry out the maintenance such as cleaning or replacement of the lamp.
- When replacing, always use lamp "**TLPL55**" (sold separately). For details, refer to the lamp instruction.
- 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.







2

Take off the lamp cover on the bottom panel.

Loosen the two screws, and pull off the lamp cover.

Lamp cover

Pull out the lamp.

Loosen the two fixing screws, and lift up the handle to pull out the lamp.



Lamp replacement (continued)

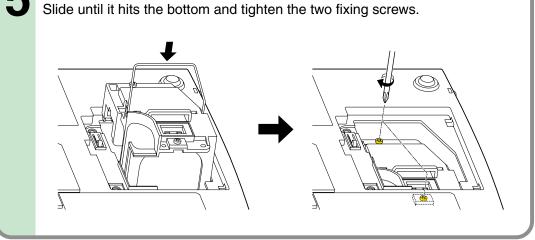
Notes

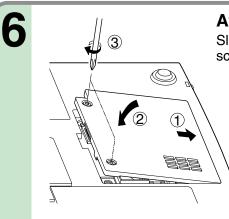
- When the **CALL** button is pressed, the "Lamp time" (the approximate amount of time the lamp has been used) will be displayed. 40
- The lamp should be replaced if the total working time exceeds about 1,500 hours.

When the "Lamp time" is displayed as 1500 hours, the icon appear. It will disappear when you do some operation.

- Attach the lamp cover firmly after replacing the lamp. If it is not set correctly, the power will not turn on.
- Use a new lamp when replacing it.
- The lamp is made of glass and is very fragile. Do not touch the lamp with your bare hands and do not jolt or damage it. Do not try to use an exhausted lamp.

A small amount of inorganic mercury harmful to environment is used for the lamp. Dispose of the exhausted lamp according to the rules of your area. Load a new lamp.





Attach the lamp cover.

Slide the cover into place and tighten the two screws.

Reset the lamp timer.

Refer to the lamp instructions for resetting.

Before calling service personal

Check the following points before asking for support service. Refer also to "Trouble indications". 61

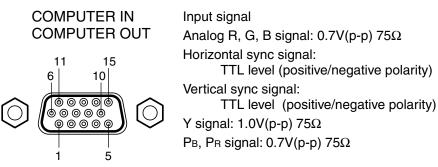
Symptom	Cause	Correction	Page
The power does not come on.	The power cord is disconnected.	Firmly plug in the power cord.	19
	The lamp cover is not attached correctly.	Attach the cover correctly.	66
The power turns off while	The ambient temperature of the projection room is too high.	Lower the ambient temperature of the projection room,	61
using the projector.		and turn the power on.	
No image appears.	The lens cover is on.	Take off the lens cover.	19
	The wrong input is selected.	Select the input source correctly.	30
	The muting mode is on.	Press MUTE to restore the picture.	36
	The "Brightness" adjustment is at its darkest.	Make the "Brightness" adjustment.	45
	The source is not correctly connected to the projector.	Connect the source correctly to the projector.	23 - 25
No sound is heard.	The wrong input is selected.	Select the input source correctly.	30
	The muting mode is on.	Press MUTE to restore the sound.	36
	The sound volume is at it's minimum.	Adjust the sound volume.	32
	The source is not correctly connected to the projector.	Connect the source correctly to the projector.	23 - 25
Desired input source cannot	• Input is not set so that it can be selected with the INPUT button. By	Set from the menu screen so that the source can be	45
be selected by the INPUT	default, only the Analog RGB and Video input modes can be selected.	selected with the INPUT button.	30
button.			
Analog RGB input or Y/PB/PR	The COMPUTER connector's input setting is wrong.	On the menu screen, set for the proper input signal type.	45
input colors are not right.			
The image is blurred.	The lens is dirty.	Clean the lens with a blower or lens cleaner, etc.	64
Focusing is uneven.	The picture is out of focus.	Focus the picture.	31
	The projection distance is not appropriate.	Adjust the distance properly.	18
	The projecting light is not hitting the screen squarely.	Adjust the projecting direction so that the light hits the	18
		screen squarely.	18
	• The "Brightness", "Contrast", "Sharpness" or "Phase" adjustments	Make the "Picture" adjustments.	46
	are not correct.		40
The picture is dim.	The "Brightness" or "Contrast" adjustments are not correct.	Make the "Picture" adjustments.	46
	The lamp life is ending.	Replace the lamp.	65
The color is faint.	• The "Color", "Tint", "R-Level", "G-Level" or "B-Level" adjustments	Make the "Color" adjustments.	48
The tint is not good.	are not correct.		40
	The lamp life is ending.	Replace the lamp.	65

Others

Before calling service personal (continued)

Symptom	Cause	Correction	Page
The remote control does not	The remote control is not facing the remote sensor.	Face the remote control transmitter toward the remote	16
work.		sensor on the projector.	
	The remote control is too far away.	Operate within about 5 meters.	16
	There is an obstruction between the remote control and the	Remove the obstacle.	-
	remote sensor.		
	The batteries are exhausted.	Replace the batteries.	15
The presentation made cannot	The USB cable is not properly connected.	Connect the USB cable properly.	41
be used from the remote	The computer or OS is not compatible.	The remote control mouse function is not available.	-
control unit.	The batteries are exhausted.	Replace the batteries.	15
Document camera image is	The lens is dirty.	Clean the lens with a blower or lens cleaner, etc.	64
blurry.	The picture is out of focus.	Focus the picture by turning the focus ring.	57
	The light is not on.	Turn on the light.	56
Document camera image	Image is being affected by fluorescent light in the room.	Set the shutter speed on the menu screen.	45
flickers.			

Pin assignment of COMPUTER IN, COMPUTER OUT connector



Mini D-sub 15pin connector

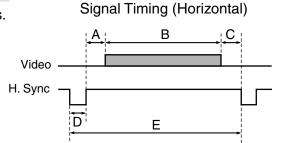
Pin No.	Descriptior	ı
	RGB input	Y/Pв/Pк input
1	Video signal (Red)	Color difference signal (PR)
2	Video signal (Green)	Luminance signal (Y)
3	Video signal (Blue)	Color difference signal (PB)
4	GND	*
5	GND	*
6	GND (Red)	GND (Pr)
7	GND (Green)	GND (Y)
8	GND (Blue)	GND (PB)
9	N.C	*
10	GND	*
11	GND	*
12	DDC data	*
13	Horizontal sync signal	*
14	Vertical sync signal	*
15	DDC clock	*

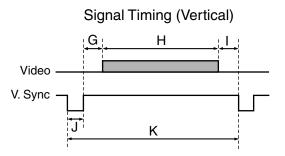
* : Do not connect anything.

Applicable signal

Applicable computer signal

The unit is applicable to the following signals. However, some computers may have different timings than those in the chart. Make the necessary adjustments if the picture has flickers or is blurred.





Timing chart

NA		A	В	С	D	E	fh	fv	Clock	G	Н	I	J	K
Mode	Resolution	(Pixels)	(Pixels)	(Pixels)	(Pixels)	(Pixels)	(kHz)	(Hz)	(MHz)	(Lines)	(Lines)	(Lines)	(Lines)	(Lines)
TEXT70	640 x 350	50	640	14	96	800	31.469	70.086	25.175	59	350	38	2	449
TEXT70	640 x 400	50	640	14	96	800	31.469	70.086	25.175	34	400	13	2	449
TEXT85	640 x 350	96	640	32	64	832	37.861	85.080	31.500	60	350	32	3	445
TEXT85	640 x 400	96	640	32	64	832	37.861	85.080	31.500	41	400	1	3	445
NEC PC98 24k	640 x 400	85	640	59	64	848	24.820	55.900	21.047	25	400	11	8	444
VGA60	640 x 480	48	640	16	96	800	31.469	59.940	25.175	33	480	10	2	525
VGA72	640 x 480	128	640	24	40	832	37.861	72.809	31.500	28	480	9	3	520
VGA75	640 x 480	120	640	16	64	840	37.500	75.000	31.500	16	480	1	3	500
VGA85	640 x 480	80	640	56	56	832	43.269	85.008	36.000	25	480	1	3	509
MAC13"	640 x 480	96	640	64	64	864	35.000	66.667	30.240	39	480	3	3	525
SVGA56	800 x 600	128	800	24	72	1024	35.156	56.250	36.000	22	600	1	2	625
SVGA60	800 x 600	88	800	40	128	1056	37.879	60.317	40.000	23	600	1	4	628
SVGA72	800 x 600	64	800	56	120	1040	48.077	72.188	50.000	23	600	37	6	666
SVGA75	800 x 600	160	800	16	80	1056	46.875	75.000	49.500	21	600	1	3	625
SVGA85	800 x 600	152	800	32	64	1048	53.674	85.061	56.250	27	600	1	3	631
*MAC16"	832 x 624	216	832	40	64	1152	49.725	74.550	57.283	39	632	1	3	667
*XGA43i	1024 x 768	56	1024	8	176	1264	35.522	43.479	44.900	20	768	0	4	817
*XGA60	1024 x 768	160	1024	24	136	1344	48.363	60.004	65.000	29	768	3	6	806
*XGA70	1024 x 768	144	1024	24	136	1328	56.476	70.069	75.000	29	768	3	6	806
*XGA75	1024 x 768	176	1024	16	96	1312	60.023	75.029	78.750	28	768	1	3	800
*XGA85	1024 x 768	208	1024	48	96	1376	68.677	84.997	94.500	36	768	1	3	808
*MAC19"	1024 x 768	180	1024	20	96	1320	60.197	74.872	73.200	30	768	3	3	804

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Applicable signal (continued)

Timing chart (Continued)

Mada		A	В	С	D	Е	fh	fv	Clock	G	н	I	J	K
Mode	Resolution	(Pixels)	(Pixels)	(Pixels)	(Pixels)	(Pixels)	(kHz)	(Hz)	(MHz)	(Lines)	(Lines)	(Lines)	(Lines)	(Lines)
**SXGA1152x864 75Hz	1152 x 864	256	1152	64	128	1600	67.500	75.000	108.000	32	864	1	3	900
**SXGA1280x960 60Hz	1280 x 960	312	1280	96	112	1800	60.000	60.000	108.000	36	960	1	3	1000
**SXGA1280x960 85Hz	1280 x 960	224	1280	64	160	1728	85.938	85.002	148.500	47	960	1	3	1011
**SXGA1280x1024 60Hz	1280 x 1024	248	1280	48	112	1688	63.981	60.020	108.000	38	1024	1	3	1066
**SXGA1280x1024 75Hz	1280 x 1024	248	1280	16	144	1688	79.976	75.025	135.000	38	1024	1	3	1066
**SXGA1280x1024 85Hz	1280 x 1024	224	1280	64	160	1728	91.146	85.024	157.500	44	1024	1	3	1072
**UXGA60	1600 x 1200	304	1600	64	192	2160	75.000	60.000	162.000	46	1200	1	3	1250
**UXGA65	1600 x 1200	304	1600	64	192	2160	81.250	65.000	175.500	46	1200	1	3	1250
**UXGA70	1600 x 1200	304	1600	64	192	2160	87.500	70.000	189.000	46	1200	1	3	1250
**UXGA75	1600 x 1200	304	1600	64	192	2160	93.750	75.000	202.500	46	1200	1	3	1250

Notes

• Signal sources marked "*" and "**" are displayed in compressed format ("*": TLP260/TLP261, "**": TLP260/TLP261/TLP560/TLP561), so some of their data may be missing or their picture quality may be degraded.

• With analog RGB inputs, if the signal source's dot clock frequency exceeds 165 MHz, some pixel signals cannot be sampled.

The compatible Video and S-Video signal

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

The compatible components video signal (Y/PB/PR)

Mode	fh (kHz)	fv (Hz)
480i (525i)	15.73	59.94
480p (525p)	31.47	59.94
575i (625i)	15.63	50.00
720p (750p)	45.00	60.00
1080i (1125i)	33.75	60.00

Controlling the projector by using RS-232C

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You can also control the projector by entering the command from a computer via RS-232C.

Signal assignment of RS-232C



Pin No.	Signal	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 9600 bps, No parity, Data length: 8 bits, Stop bit: 1 bit
2	Communication format	STX (02h) Command (3Byte) ETX (03h) One command only can be used per communication.
3	Data format	Commands shall be composed of alphanumeric characters of ASCII description. Use only capital letters.
4	Return value	Acknowledge ACK (06h) Not Acknowledge NAK (15h)

Command list

Classification	Items/Status		Selection Command	Adjustment Command	Analog RGB	Video	S-Video	Y/Pb/Pr	Camera
Power	On		PON	-	Yes	Yes	Yes	Yes	Yes
	Off (with confirmati	on message)	POF	-	Yes	Yes	Yes	Yes	Yes
	Shut Down (without o	confirmation message)	PSD	-	Yes	Yes	Yes	Yes	Yes
Normal (RS	-232C Condition Dis	splay Off)	DOF	-	Yes	Yes	Yes	Yes	Yes
Picture	Contrast		VCN	Yes	Yes	Yes	Yes	Yes	Yes
	Brightness		VBR	Yes	Yes	Yes	Yes	Yes	Yes
	Sharpness		VSH	Yes	-	Yes	Yes	Yes	Yes
	Camera gain	Increase	CGU	-	-	-	-	-	Yes
		Decrease	CGD	-	-	-	-	-	Yes
	Picture mode	Bright	MVB	-	Yes	-	-	-	-
		True color	MVP	-	Yes	-	-	-	-

Notes

• When commands are transmitted serially, wait for the reply of the projector (acknowledge or not acknowledge) before sending the next command.

• Adjustment commands include "ARG" (increase adjustment value) and "ALF" (decrease adjustment value). For usable items (marked "Yes"), send after the selection command.

• The "Yes" marks in the input source columns indicate that that command can be used.



Classification	Items/Status		Selection Command	Adjustment Command	Analog RGB	Video	S-Video	Y/Pв/Pr	Camera
Picture	Video mode	Auto.	KV0	-	-	Yes	Yes	-	-
(Continued)		NTSC	KV1	-	-	Yes	Yes	-	-
		PAL	KV2	-	-	Yes	Yes	-	-
		SECAM	KV3	-	-	Yes	Yes	-	-
		PAL-N	KV4	-	-	Yes	Yes	-	-
		PAL-M	KV5	-	-	Yes	Yes	-	-
		PAL60	KV6	-	-	Yes	Yes	-	-
		NTSC4.43	KV7	-	-	Yes	Yes	-	-
	Signal format	Auto.	SG0	-	-	-	-	Yes	-
	_	480i (525i)	SG1	-	-	-	-	Yes	-
		480p (525p)	SG2	-	-	-	-	Yes	-
		575i (625i)	SG3	-	-	-	-	Yes	-
		720p (750p)	SG4	-	-	-	-	Yes	-
		1080i (1125i)	SG5	-	-	-	-	Yes	-
	Shutter	Auto.	CSA	-	-	-	-	-	Yes
		50Hz	CS0	-	-	-	-	-	Yes
		60Hz	CS1	-	-	-	-	-	Yes
	Screen size	Full	MSF	-	Yes	Yes	Yes	Yes	Yes*1
		Thru	MST	-	Yes	Yes	Yes	Yes	Yes*1
		Wide	MSW	-	-	Yes	Yes	Yes	-
	Picture reset		DRV	-	Yes	Yes	Yes	Yes	Yes
Position	H-position		PHP	Yes	Yes	-	-	-	-
	V-position		PVP	Yes	Yes	-	-	-	-
	Phase		PPH	Yes	Yes	-	-	-	-
	Frequency		PCK	Yes	Yes	-	-	-	-
	Position reset		DRP	-	Yes	-	-	-	-
Color	Color	Color		Yes	-	Yes	Yes	Yes	-
	Tint			Yes	-	Yes *2	Yes*2	-	-
	R-level		VLR	Yes	Yes	Yes	Yes	Yes	Yes
	G-level		VLG	Yes	Yes	Yes	Yes	Yes	Yes
	B-level		VLB	Yes	Yes	Yes	Yes	Yes	Yes
	Color reset		DRC	-	Yes	Yes	Yes	Yes	Yes

*1 Not possible for TLP561. *2 Not possible for PAL/SECAM.



Classification	Items/Status		Selection Command	Adjustment Command	Analog RGB	Video	S-Video	Y/Pb/Pr	Camera
Audio	Volume	Increase	VLU	-	Yes	Yes	Yes	Yes	-
		Decrease	VLD	-	Yes	Yes	Yes	Yes	-
	Speaker output	On	AS1	-	Yes	Yes	Yes	Yes	-
		Off	AS0	-	Yes	Yes	Yes	Yes	-
	Channel select	L+R	AMA	-	Yes	Yes	Yes	Yes	-
		L	AML	-	Yes	Yes	Yes	Yes	-
		R	AMR	-	Yes	Yes	Yes	Yes	-
	Loudness	Off	LMO	-	Yes	Yes	Yes	Yes	-
		On	LM1	-	Yes	Yes	Yes	Yes	-
	Audio reset		DRA	-	Yes	Yes	Yes	Yes	-
Display	Keystone		PKV	Yes	Yes	Yes	Yes	Yes	Yes
	Keystone reset		DRK	-	Yes	Yes	Yes	Yes	Yes
	Language	English	LEN	-	Yes	Yes	Yes	Yes	Yes
		French	LFR	-	Yes	Yes	Yes	Yes	Yes
		German	LGR	-	Yes	Yes	Yes	Yes	Yes
		Italian	LIT	-	Yes	Yes	Yes	Yes	Yes
		Spanish	LSP	-	Yes	Yes	Yes	Yes	Yes
		Portuguese	LPO	-	Yes	Yes	Yes	Yes	Yes
		Japanese	LJP	-	Yes	Yes	Yes	Yes	Yes
		Chinese(Simplified)	LPK	-	Yes	Yes	Yes	Yes	Yes
		Chinese(Traditional)	LKT	-	Yes	Yes	Yes	Yes	Yes
		Korean	LKK	-	Yes	Yes	Yes	Yes	Yes
	lcon	On	MO0	-	Yes	Yes	Yes	Yes	Yes
		Off	MO1	-	Yes	Yes	Yes	Yes	Yes
	Menu position	Upper left	MP1	-	Yes	Yes	Yes	Yes	Yes
		Bottom left	MP2	-	Yes	Yes	Yes	Yes	Yes
		Upper right	MP3	-	Yes	Yes	Yes	Yes	Yes
		Bottom right	MP4	-	Yes	Yes	Yes	Yes	Yes
	Menu translucent	On	MB1	-	Yes	Yes	Yes	Yes	Yes
		Off	MB0	-	Yes	Yes	Yes	Yes	Yes
	Display reset (except keystone)		DRD	-	Yes	Yes	Yes	Yes	Yes

Classification	Items/Status		Selection Command	Adjustment Command	Analog RGB	Video	S-Video	Y/PB/PR	Camera	
Default setting		COMPUTER	On	l10	-	Yes	Yes	Yes	Yes	Yes
	5		Off	11	-	Yes	Yes	Yes	Yes	Yes
	Input		Analog RGB	IS0	-	Yes	Yes	Yes	Yes	Yes
	t s		Y/Pb/Pr	IS1	-	Yes	Yes	Yes	Yes	Yes
	source	VIDEO	On	130	-	Yes	Yes	Yes	Yes	Yes
	Се С		Off	131	-	Yes	Yes	Yes	Yes	Yes
	setting	S-VIDEO	On	140	-	Yes	Yes	Yes	Yes	Yes
	Ĭ		Off	l41	-	Yes	Yes	Yes	Yes	Yes
	б	CAMERA	On	160	-	Yes	Yes	Yes	Yes	Yes
			Off	l61	-	Yes	Yes	Yes	Yes	Yes
	Pro	ojection mode	Standard	PJ0	-	Yes	Yes	Yes	Yes	Yes
			Rear	PJ1	-	Yes	Yes	Yes	Yes	Yes
			Ceiling	PJ2	-	Yes	Yes	Yes	Yes	Yes
			Rear ceiling	PJ3	-	Yes	Yes	Yes	Yes	Yes
			Logo	BG0	-	Yes	Yes	Yes	Yes	Yes
			Blue background	BG1	-	Yes	Yes	Yes	Yes	Yes
		Non		BG2	-	Yes	Yes	Yes	Yes	Yes
	No signal power off Power on		Off	PN0	-	Yes	Yes	Yes	Yes	Yes
			5 min.	PN1	-	Yes	Yes	Yes	Yes	Yes
			Manual	AP0	-	Yes	Yes	Yes	Yes	Yes
			Auto.	AP1	-	Yes	Yes	Yes	Yes	Yes
	Sta	artup screen	On	MS0	-	Yes	Yes	Yes	Yes	Yes
			Off	MS1	-	Yes	Yes	Yes	Yes	Yes
	De	fault setting initialize		DRI	-	Yes	Yes	Yes	Yes	Yes
Reset	Reset all		DRS	-	Yes	Yes	Yes	Yes	Yes	
Status displ	lisplay (CALL)		DON	-	Yes	Yes	Yes	Yes	Yes	
Input	Toggle		INO	-	Yes	Yes	Yes	Yes	Yes	
selection				IN1	-	Yes	Yes	Yes	Yes	Yes
		DEO	IN3	-	Yes	Yes	Yes	Yes	Yes	
	S-	S-VIDEO CAMERA		IN4	-	Yes	Yes	Yes	Yes	Yes
	CA			IN6	-	Yes	Yes	Yes	Yes	Yes

CONTENTS		76
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Classification	Items/Status		Selection Command	Adjustment Command	Analog RGB	Video	S-Video	Y/Pb/Pr	Camera
RESIZE	Increase the enlargement ratio		RUP	-	Yes	Yes	Yes	Yes	Yes
	Decrease the enlargement ratio (Minimum: reset status)		RDW	-	Yes	Yes	Yes	Yes	Yes
	Move the enlargement section	Up	PO1	-	Yes	Yes	Yes	Yes	Yes
		Down	PO2	-	Yes	Yes	Yes	Yes	Yes
		Left	PO3	-	Yes	Yes	Yes	Yes	Yes
		Right	PO4	-	Yes	Yes	Yes	Yes	Yes
	Enlargement reset		RS0	-	Yes	Yes	Yes	Yes	Yes
FREEZE	On		FON	-	Yes	Yes	Yes	Yes	Yes
	Off		FOF	-	Yes	Yes	Yes	Yes	Yes
MUTE	On		MON	-	Yes	Yes	Yes	Yes	Yes
	Off		MOF	-	Yes	Yes	Yes	Yes	Yes
PIP	On		PIN	-	Yes	-	-	-	-
	Off		PIF	-	Yes	-	-	-	-
	PIP input source	Video	PI0	-	Yes	-	-	-	-
		S-Video	PI1	-	Yes	-	-	-	-
	PIP size	Small	PS0	-	Yes	-	-	-	-
		Middle	PS1	-	Yes	-	-	-	-
		Large	PS2	-	Yes	-	-	-	-
	PIP position	Upper left	PP0	-	Yes	-	-	-	-
		Upper right	PP1	-	Yes	-	-	-	-
		Lower left	PP2	-	Yes	-	-	-	-
		Lower right	PP3	-	Yes	-	-	-	-
	PIP reset		DRW	-	Yes	-	-	-	-
AUTO SET			PAT	-	Yes	-	-	-	-
Camera	Shortcut		CDR	-	Yes	Yes	Yes	Yes	Yes
	Auto. W/B	On	CW1	-	-	-	-	-	Yes
		Off	CW0	-	-	-	-	-	Yes
	Lighting	On	CL1	-	-	-	-	-	Yes
		Off	CL0	-	-	-	-	-	Yes

Specifications

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Main unit

Power consumption	TLP560/TLP260: 240W (Standby: 15W)	I
	TLP561/TLP261: 250W (Standby: 15W)	l
Mass	TLP560/TLP260: 3.7kg	
	TLP561/TLP261: 4.3kg	
Dimensions	TLP560/TLP260: 260 x 95.5 x 295 (mm)	
(Except the protrusion parts)	(W/H/D)	
	TLP561/TLP261: 260 x 95.5 x 352 (mm) (W/H/D)	
Cabinet Material	PC+ABS resin and ABS resin	
Ambient environment	Temperature : 0 deg. to 35 deg.	
	Humidity : 30% to 70% RH	
Lamp	High pressure mercury lamp	
Projection screen size	30 to 180 inches	
Projection distance	0.70 to 3.63m	
Speaker	1W (monaural)	
Connectors		
COMPUTER IN	Mini D-sub 15-pin Analog RGB/Y/PB/PR (combination)	
COMPUTER OUT	Mini D-sub 15-pin Analog RGB/Y/PB/PR (combination)	
• S-VIDEO IN	Mini DIN 4-pin	
VIDEO IN	1V(p-p), 75Ω, RCA pin jack	
• AUDIO IN	1.3V(rms), more than $22k\Omega$, ø3.5mm stereo mini jack	
CONTROL	Mini DIN 8-pin (RS-232C)	
• USB	Туре В	

Liquid crystal display

Projection system	3-panel transmission
Panel size	0.7 inches
Driving system	TFT active matrix
Picture elements	
TLP560/TLP561:	786,432 pixels (1024 x 768 dots) (H./V.) x 3
TLP260/TLP261:	480,000 pixels (800 x 600 dots) (H./V.) x 3
Projection lens	
Lens	Zooming lens
	F=2.0 to 2.4 f=14.5 to 17.4mm
Focusing	Manual operation
Zooming	Manual operation
Document imaging	J camera (with camera model)
Lens	F = 2.8, f = 3.4mm
Focusing	Manual operation
Zoom	None (adjusted by distance to subject)
Iris	Auto./Manual
Image element	1/3 inch CCD
Effective pixels for pickup	section
	805,486 pixels (1034 x 779 dots) (H./V.)
Lighting	LED light (class 2)

Specifications (continued)

Sold separately

Replacement lamp TLPL55

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