

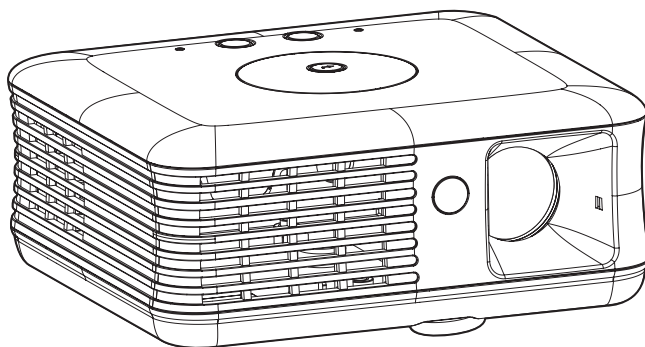
TOSHIBA

Leading Innovation >>>

TDP-F10

LED PROJECTOR

OWNER'S MANUAL



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

Model No. _____ Serial No. _____

Retain this information for future reference.

Before Using

Preparations

Operations

Maintenance

Others

SAFETY PRECAUTIONS



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



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

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

WARNING: Handling the cord on this product or cords associated with accessories sold with this product, will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. ***Wash hands after handling.***

MODEL NAME: TDP-F10 **USA ONLY**

TRADE NAME: LED PROJECTOR

MODEL NAME: TDP-F10



Tested To Comply
With FCC Standards

FOR HOME OR OFFICE USE

FCC NOTICE: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.
RESPONSIBLE PARTY: TOSHIBA AMERICA INFORMATION SYSTEMS, INC.
9740 Irvine Blvd., Irvine, CA 92618-1697 U.S.A
Phone: (949) 583-3000

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

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

IMPORTANT SAFETY INSTRUCTIONS

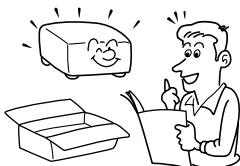
CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This unit is fully transistorized and does not contain any parts that can be repaired by the user.

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

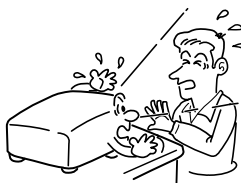
1. Read Owner's Manual

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



3. Source of Light

Do not look into the lens while the projector is on. The strong light from the lens may cause damage to your eyesight.



2. Power Sources

This product should be operated only from the type of power source which does not exceed the voltage range specified on the rating label and the power cord. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.



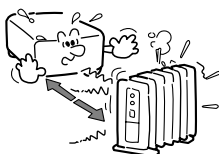
4. Ventilation

Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. Never block an opening by placing the product on a bed, sofa, rug or other similar surface. Do not place it in a built-in installation such as a bookcase or rack, unless proper ventilation is provided.



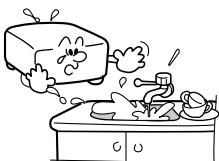
5. Heat

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 other similar environments.



7. Cleaning

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



8. Be sure that you firmly insert the plug into the wall outlet.

Incorrect or faulty connections may result in fire or electric shock. Avoid using an unsound or loose outlet.

9. Power Cord Protection

Power 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.



10. Overloading

Do not overload wall outlets. To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely with three wire grounding type to prevent blade exposure. Failure to follow these instructions may result in fire or electric shock.



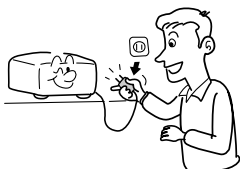
IMPORTANT SAFETY INSTRUCTIONS (Continued)

11. Lightning storms

For added protection for this product during a 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.

However, while it is thundering or lightning, do not touch the apparatus and any connected cable and/or equipment.

This will prevent you from receiving the electric shock by an electric surge.



12. Object and Liquid Entry

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

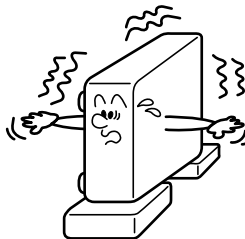


13. Do not place or keep the projector within the reach of the children.

It may fall or tip over, possibly causing serious injury.

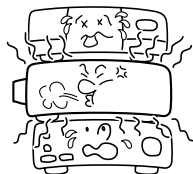
14. Do not place the product vertically

Do not use the product in the upright position or any other vertical positions to project the pictures. It may fall which could result in serious injury and/or damage to the product.



15. Stack Inhibited

Do not stack other equipment on this product and do not place this product on other equipment. The top and bottom surface of this product increase in temperature during normal use and may damage the other unit.



16. Attachments

Do not use attachments not recommended by the product manufacturer.

Use of an incompatible attachments could cause hazards or damage to the product.

17. 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. 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.



S3125A

18. Damage Requiring Service

Unplug this product from the wall outlet and take the product to qualified service personnel if you encounter any of the following conditions:

- a) The power supply cord or plug is damaged.
- b) Liquid has been spilled, or objects have fallen into the product.
- c) The product has been exposed to rain or water.
- d) The product does not operate normally when following the operating instructions. Adjust only those controls that are covered by the operating instructions since 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) The product has been dropped or damaged in any way (If the cabinet should break, please handle with care to avoid injury) .
- f) The product exhibits a distinct change in performance, which indicates a need for service.

19. If glass components including lens should break, contact your dealer for repair service.

This product incorporates glass components including a lens. If these should break, please handle with care to avoid injury and contact your dealer for repair service. Avoid any broken pieces of glass since they may cause injury.

20. 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.



IMPORTANT SAFETY INSTRUCTIONS (Continued)

21.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.

22.Safety Check

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



23.Do not leave thermal-paper documents or easily deformed items on top of the unit or near the air exhaust for long periods of time.

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

24.Do not use the product in a closed installation location.

Do not place the product in a box or in any other closed installation location. Otherwise it may overheat, which could result in a risk of fire.

IMPORTANT PRECAUTIONS

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 lens and the crucial internal parts. Do not use the unit for at least 2 hours when there is an extreme or sudden change in temperature to prevent the unit from possible damage.

Place and Manner of Installation

- Do not place in hot locations, such as near heating equipment. Doing so could cause a malfunction, and shorten the life of the projector.
- Avoid locations with oil or cigarette smoke. These environments will dirty the optical parts, shortening their lives, and darkening the screen.
- Using this instrument near a TV or radio may cause interference to the images or audio sound. If this happens, move it away from the TV or radio.
- Moving the projector from a low-temperature room to a high-temperature room may cause condensation on the lens or internal parts in the instrument. If you continue to use it in that situation, the malfunction may result. Ensure to wait until the condensation naturally disappears.
- In a high altitude location such as over 1500m (5000ft) from sea level, the air is thin and cooling efficiency is reduced so use the projector with **[Fan mode]** set to **[High]**. Otherwise, surface of the projector becomes hot and the lifetime may be reduced. [p.36](#)
- Only plug the power cord into outlets rated for use within the power cord's specified voltage range. Do not overload extension cords or power strips as this can result in fire or electric shock.
- Route the power cable or the connecting cable away from where people could trip over it. The projector may fall which could result in serious injury and/or damage to the product.
- Be sure the power cord is easily reached for unplugging in case of emergency. Do not place any obstacles near a wall outlet in which the cord is plugged.
- Do not use the projector while holding it in your hands or lap.
- Do not use the projector near a power source and the like, or in locations like a ship or vehicle that are subject to vibration or shock. Doing so may lead to a malfunction or shorten service life.

Avoid Volatile Liquid

Do not use volatile liquids, such as an insect spray, near the unit. Do not leave rubber or plastic products touching the unit for a long time. They will leave marks on the finish. Do not use a chemically saturated cloth on the unit.

EXEMPTION CLAUSES

- Toshiba Corporation bears no responsibility in the case of damages arising from natural disaster such as earthquakes, lightning, etc., fire not liable to Toshiba Corporation, acts 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.

OTHER INFORMATION

Copyrights

Showing or transmitting commercial imaging software or broadcast or cable-broad casting programs with the purpose of other than the personal and private viewing, including modifying images using the freeze function, or displaying with the varying aspect ratio of the images, could violate the direct or indirect copyrights of the imaging software or broadcast program, etc., if done without first consulting with the copyright holder. For this reason, please take appropriate measures including obtaining a license from the copyright holder, before performing one of the actions listed above.

Disposal

This product contains substances which are harmful to humans and the environment. Please dispose of this product in accordance with local regulations.

Following information is only for EU-member states:

The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



Trademarks

- VGA, SVGA, XGA, SXGA and UXGA are trademarks or registered trademarks of International Business Machines Corporation.
- DLP (Digital Light Processing) is a registered trademark of Texas Instruments, Inc.
- Macintosh is a registered trademark of Apple Computer, Inc.
- Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the U.S. and other countries.
- Adobe and Acrobat Reader are registered trademarks of Adobe Systems Incorporated.
- All other brand and product names are trademarks or registered trademarks of their respective companies.

Notational Conventions Used in This Manual

- References to pages with related information are annotated as follows. For example, if making a reference to page 36: [p.36](#)
- The illustrations in this document are for reference purposes only and may not reflect your package exactly.

REMOTE CONTROL BATTERY

Warning

- Never throw the battery into a fire.
- Using the battery improperly may cause them to explode or leak and may result in serious injury. If battery-leaking fluid contacts skin, wash the fluid off immediately with clean water and consult a doctor. If the fluid spills on an instrument, avoid contact and wipe it off using tissue paper. Then dispose of the used tissue paper as flammable garbage after moistening the tissue with water.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of the used battery according to the instructions.
- Keep the battery away from the reach of children. Battery is choking hazard and can be very dangerous if swallowed. If the battery is swallowed, seek medical assistance immediately.

Notes

- Be sure to replace the battery with CR2025 type only.
- Dispose of the battery in a designated disposal area.
- Check and follow your local regulations before disposal.
- Attention should be drawn to the environmental aspects of battery disposal.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace the battery with a new one.
- If the battery is dead or if you will not be using the remote control for a long time, remove the battery to prevent battery acid from leaking into the battery compartment.
- **Following information is only for EU-member states:**

[Disposal of batteries and/or accumulators]

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.



AC ADAPTER

Caution

- Always use the AC adapter that was provided with your projector to avoid any risk of fire, electrical shock or damage to the unit.
- Never use the supplied AC adapter to other products.
- AC adapter is designed only for in-door use.
- AC adapter becomes hot during use, however, it is not a malfunction.
- Noise can be heard from the inside during use, however, it is not a malfunction.
- Never cover rug, clothes or other similar materials over the AC adapter. Place it well-ventilated location.
- Do not take it apart.
- Do not allow it to get wet or place it on top of wet objects.
- Unplug the power cord if you will not be using the projector for an extended period.

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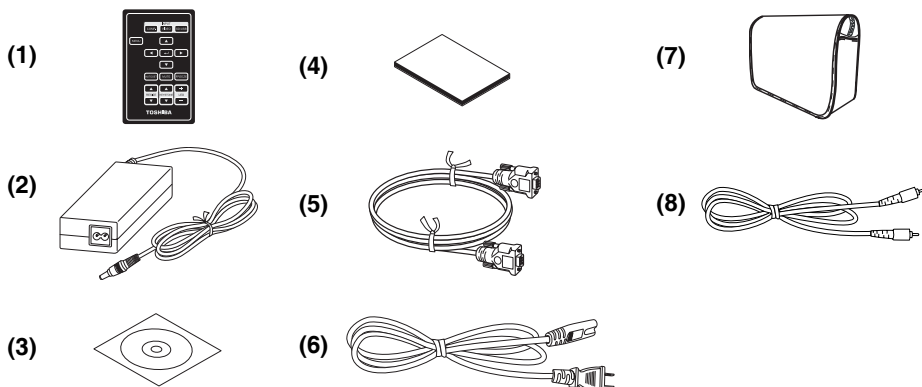
Others

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Checking the package contents

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



- | | |
|--|---|
| ☐ (1) Remote control with battery | ☐ (5) RGB cable [Note 2] |
| ☐ (2) AC adapter | ☐ (6) Power cord [Note 1, 2] |
| ☐ (3) CD-ROM | ☐ (7) Carrying bag |
| ☐ (4) Owner's Manual | ☐ (8) Composite video cable |

Note

1. The shape and number of supplied power cords vary depending on the product destination.
2. To maintain original performance, make sure to use supplied cables.

Save Original Packing Materials

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

◆ The Supplied CD-ROM

The supplied CD-ROM contains an owner's manual in PDF format. (PDF: Portable Document Format) Please use Acrobat Reader 5 or later version to view the manual.

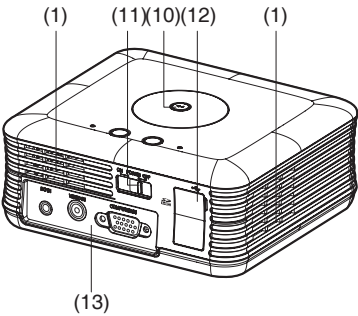
■ Adobe® Acrobat® Reader® or Adobe® Reader®

The supplied CD-ROM does not contain Acrobat® Reader®. If you cannot read PDF files, please install Adobe Reader software in your computer by downloading it from the Adobe Systems website.

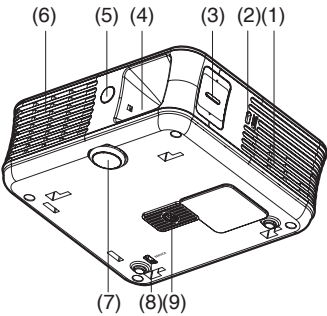
■ Viewing the manual

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

Names of each part on the main unit



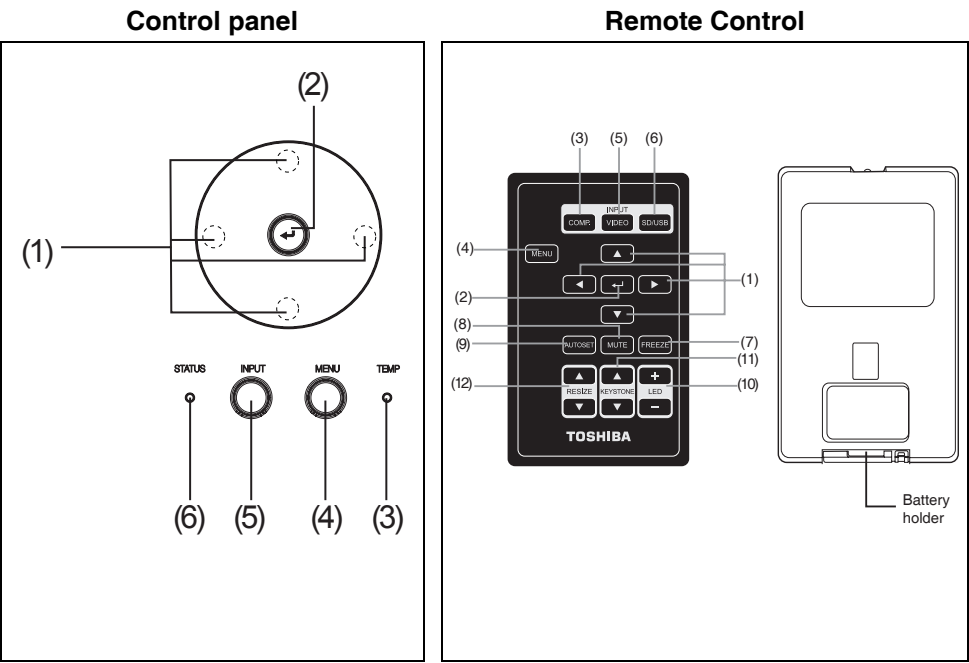
Back



Front

Name	:Function
(1) Air intake	:Draws in air from outside the projector for internal cool down.
(2) Antitheft lock slot	:Attach a safety cable or any other antitheft device.
(3) Focus slide knob	:Adjusts the screen focus. p.28
(4) Lens	:Projects expanded image.
(5) Infrared remote sensor	:Senses commands from the remote control. p.21
(6) Air exhaust	:Expels air that has grown hot inside the projector.
(7) Foot adjuster	:Adjusts the vertical projection angle. p.28
(8) SERVICE port	:Use for service purpose only.
(9) Tripod socket	:Allows tripod mounting.
(10)Control panel	:Operates the projector. p.18
(11)Power switch	:Turns the power on/off. p.26
(12)SD/USB cover	:Protects SD and USB slots. p.38
(13)Rear panel	:Connects external devices. p.20

Names of each part on the control panel and remote control



Name	:Main Function
------	----------------

Control panel

(1) Selection buttons	:Menu selections and adjustments, etc. p.33
(2) ENTER button	:Accepts the selected mode.
(3) TEMP indicator	:Lights when internal temperature is too high. p.44
(4) MENU button	:Displays menus. p.33 :Short cut for LED brightness control and keystone correction when it is pressed and held over 2 seconds.
(5) INPUT button	:Selects input. p.28
(6) STATUS indicator	:Lights when an internal error occurs. p.44

Remote control

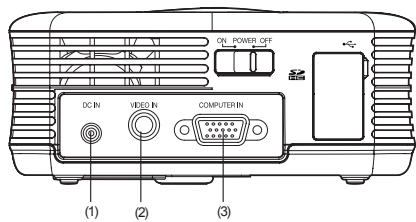
(1) Selection buttons	:Menu selections and adjustments, etc. p.33
(2) ENTER button	:Accepts the selected mode.
(3) COMP. button	:Selects analog RGB signal from a computer.
(4) MENU button	:Displays menus. p.33

Name	:Main Function
(5) VIDEO button	:Selects video signals from video equipment.
(6) SD/USB button	:Selects input signal from SD or USB memory device. p.38
(7) FREEZE button	:Pauses image. p.31
(8) MUTE button	:Cuts off the picture temporarily. p.30
(9) AUTOSET button	:Performs auto-adjustment of input signal from computer. p.30
(10)LED + / - button	:Adjusts LED power. p.32
(11)KEYSTONE ▲ / ▼ button	:Adjusts keystone distortion. p.30
(12)RESIZE ▲ / ▼ button	:Digitally magnifies an image up to 4 times on the projection screen or reduces the zoomed image. p.31

Note

- For the remainder of this manual, buttons are referred to as follows:
Selection buttons ⇒     ; ENTER button ⇒ 

Parts on the rear panel

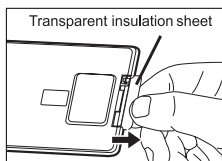


Name	:Main Function
(1) DC IN terminal	:Connects the AC adapter here. p.26
(2) VIDEO IN terminal	:Inputs video signals from video equipment.
(3) COMPUTER IN terminal	:Inputs analog RGB signal from a computer or other source, or a component video signal (Y/PB/PR) from video equipment.

Preparing and using the remote control

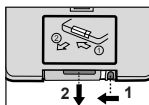
■ For the first time use

- ① Remove the transparent insulation sheet by pulling it before use.

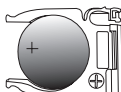


■ Replacing battery

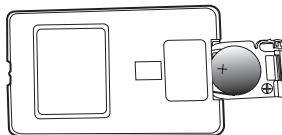
- ① Remove the battery holder.



- ② Remove the old lithium coin cell and install new one (CR2025). Ensure that the battery surface with the mark "+" is facing up.



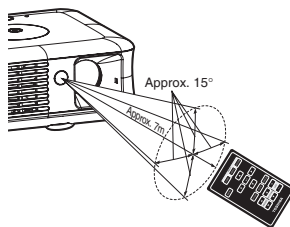
- ③ Push the battery holder back into the remote control until you feel a click.



■ Operating the remote control

Turning the power on by sliding the power switch to ON position. Point toward the projector's infrared remote sensor, and press a button on the remote control.

- Operating the projector from the front



Note:

When operating the remote control from behind the projector, the infrared signal is reflected on the projecting surface. The operating range therefore may decrease depending on the shape and material of the projecting surface.

Preparing and using the remote control (Continued)

Lithium coin battery

- Before using the battery, be sure to observe the Safety Precautions described in previous pages.
- Remove the battery from remote control when not using for extended periods.
- If the remote control stops working, or if its range decreases, replace the battery with a new one. (CR2025 type only).
- Keep the battery away from the reach of children. Battery is a choking hazard and can be very dangerous if swallowed. If the battery is swallowed, seek medical assistance immediately.

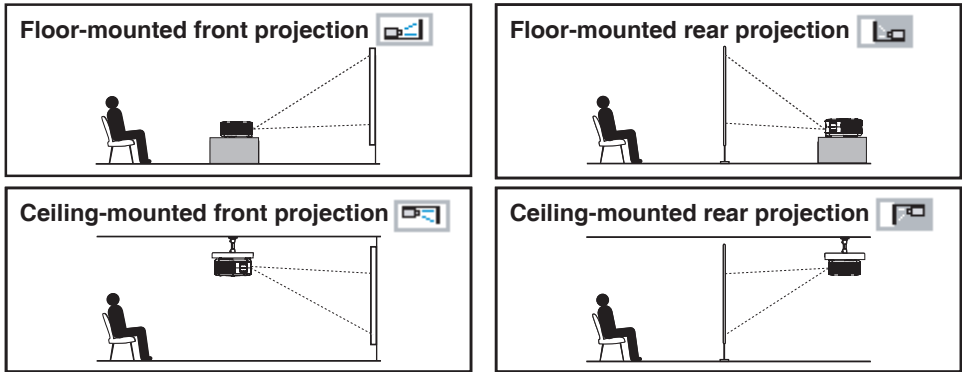
The remote control

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

Placement

Placement Styles

As shown in the figures below, this device can be placed in 4 different styles. The factory setting is "floor-mounted front projection." Set the **[Projection mode]** in the **Default setting menu** [p.36](#), in accordance with your needs.

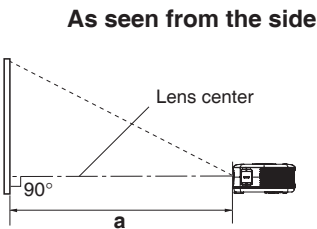
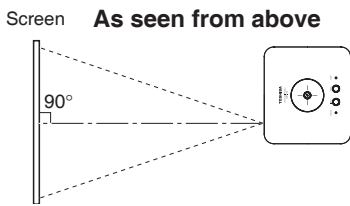


WARNING

- Always obey the instructions listed in **IMPORTANT SAFETY INSTRUCTIONS** when placing the unit.
- If you wish to mount the projector on the ceiling, be sure to ask your dealer to do so. Mounting the projector on a ceiling requires special ceiling brackets (sold separately) and specialized knowledge. Improper mounting could cause the projector to fall, resulting in possible injury and unit damage.
- If the projector is ceiling-mounted, install the breaker for turning off the power in case of anomaly. Let everyone involved with the use of the projector know that fact.

Projection Distance and Size

Use the figures, and tables below to determine the projection size and projection distance.
(Projection sizes are approximate values for full-size picture with no keystone adjustment.)



projection size (inches)	projection distance a (m)
15	0.6
20	0.8
25	1.0
30	1.2
35	1.4
40	1.6
45	1.8
50	2.0
55	2.2
60	2.4

projection size (inches)	projection distance a (inches)
15	23.6
20	31.5
25	39.4
30	47.2
35	55.1
40	63.0
45	70.9
50	78.7
55	86.6
60	94.5

1 inch=2.54 cm

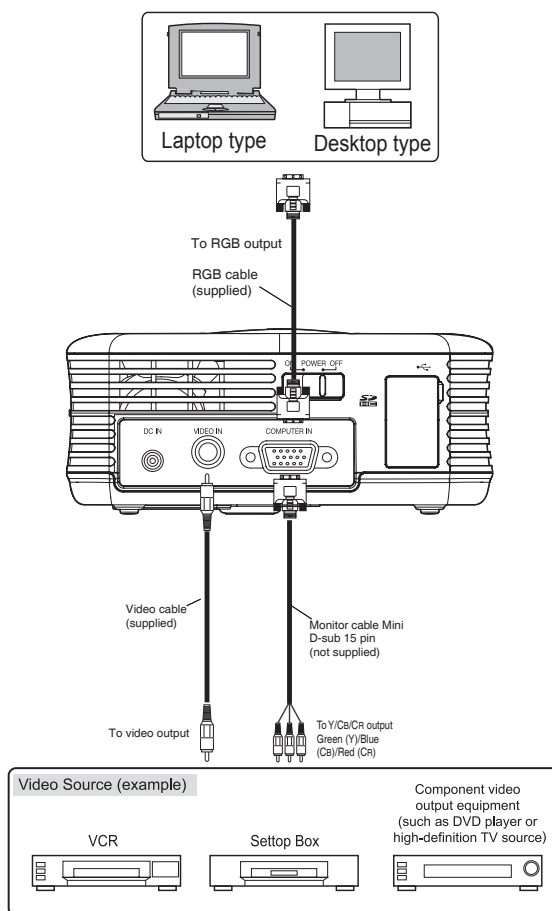
- **a** is the distance between the lens and the screen, and corresponds to a range of 0.6 m to 2.4 m (23.6 inches to 94.5 inches).
- The lens center is in the same level with an image bottom.

Connection

Before connection

- Read the owner's manual of the device you are connecting to the projector.
- Some computers cannot be used or connected to this projector.
Check for an RGB output terminal, supported signal [p.47](#), etc.
- Turn off the power of both devices before connecting.
- The figures below show sample connections. This does not mean that all of these devices can or must be connected simultaneously.

Connecting with computers or AV equipment



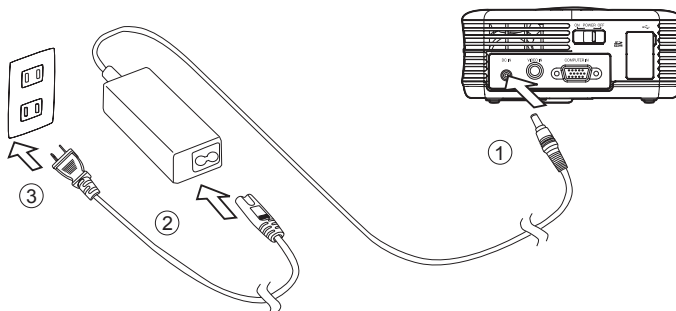
Note

- Moving pictures played back on computers using DVD software may appear unnatural when projected with this projector, but it is not a malfunction of the projector.

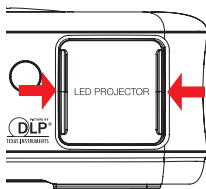
Turning the power on and off

■ Connecting the adapter and power cord

- ➊ Insert one end of the AC adapter into the DC IN socket of the projector.
- ➋ Insert the power cord connector into the other end of the AC adapter.
- ➌ Insert the power cord plug into a wall or other power outlet.



■ Removing the lens cap



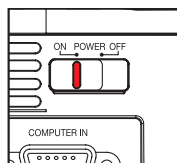
Be sure to remove the lens cap when the power is turned on. If the cap is left on the projector, it could become deformed due to heat.

■ Turning the power on

- ➊ Slide the power switch to ON position.

The power turns on and the selection button area on the control panel lights blue after a few seconds. After a moment, the start-up screen appears.

Back view



Start-up screen



⚠ CAUTION

- **Do not look into the lens while the projector is on.** The strong light from the lens may cause damage to your eyesight.
- **Do not block the air intake or exhaust.** Doing so could cause a fire due to internal overheating.
- **Do not place your hands, face, or other objects near the air exhaust or the bottom of the unit.** Doing so could result in injury and/or damage the object.

Note

- The start-up screen will disappear after a moment. You can also configure the system to prevent the start-up screen from appearing. To do this, use the **Display setting menu**.

- The first time you use the projector after purchase, the language selection menu will be displayed.
- Do not touch the lens directly with your hand. If fingerprints or stains are left on the projection lens surface, they may interfere with the projector's ability to project images on the screen.

■ Turning the power off

Slide the power switch to OFF position.

The projector turns off.

■ Precautions

- Right after turning off the power, the unit may become very hot, especially air exhaust or the bottom of the unit. Please handle with care to avoid burn injuries.

Basic operations

1 Turn on the power.

Turn on the power by following the instructions in "Turning the power on and off".

[p.26](#)

2 Select the language (When using the first time).

When the projector is used for the first time after purchase, the start menu for language (to display the menus and messages on the screen) selection is displayed in English.

(If the screen is out of focus, adjust it according to the step 5.)

Use the ▲ or ▼ button to select the desired language and press the ⏺ button.

Message for setup confirmation is displayed in a selected language.

English	English
Français	French
Deutsch	German
Italiano	Italian
Español	Spanish
Português	Portuguese
Русский	Russian
Svenska	Swedish
Türkçe	Turkish
Polski	Polish
Dansk	Danish
Čeština	Czech
Magyar	Hungarian
Nederlands	Dutch
Suomi	Finnish
Norsk	Norwegian
Ελληνικά	Greek
Română	Romanian
日本語	Japanese
中文(简体字)	Chinese (simplified)
中文(繁體字)	Chinese (traditional)
Indonesia	Indonesian

Note

- The language can also be set via the **Default setting menu** [p.36](#).
- This owner's manual assumes that English has been selected.

3 Activate the connected device.

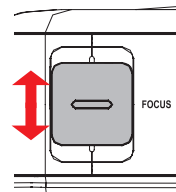
Turn on and start the connected device such as a computer.

4 Press the INPUT button.

An image of the connected equipment is projected. Each time you press the **INPUT** button, it switches to the input of the connected equipment that is outputting video signals.

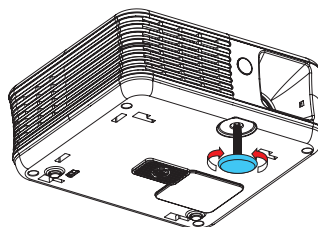
5 Adjust the focus.

Use the focus slide knob to adjust the focus.



6 Adjust the vertical projection angle.

Use the foot adjuster to adjust the vertical position of the projection image. [p.17](#)



 Note

- The DLP® chip is manufactured using high precision technology. There may be black spots (pixels that do not light) or bright spots (pixels that are constantly lit) on the panel. These are intrinsic characteristics of the manufacturing technology and are not malfunctions.
- Although this projector supports a wide range of RGB signals [p.47](#), any signal formats not matched to native resolution of this projector (858 x 600) will be expanded or shrunk, which will affect image quality slightly. To view high-quality images, set the computer's external output to SVGA.
- With some computer models having LCD or similar displays, displaying images simultaneously on the projector and the monitor's display may prevent the images from displaying properly. If this happens, turn off the computer's LCD display. For information on how to turn off the LCD display, see the computer's owner's manual.
- If a signal not supported by the projector is input, the "**Unsupport signal**" will appear.
- If an unavailable operation button is pressed, the  icon will appear.
- The factory setting for the OSD language is "**English**", other languages can be selected in the **Default setting menu**. [p.36](#)

Using handy features

■ Using auto setting (For computer input only)

This function automatically sets up the projector to the optimum state. It sets up the sampling phase, frequency and screen position, etc., for each type of input signal through a simple operation.

Remote Control



- **Press the AUTOSET button on the remote control.**

The  icon will appear during processing.

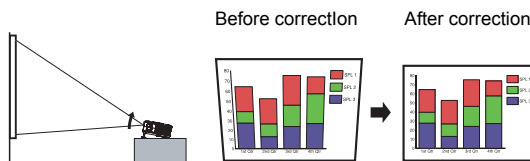
■ Note

- The image may not be projected or auto adjustment/setting may not be performed correctly for input signals other than those supported by the projector. [p.47](#) [p.48](#)
- If auto setting fails adjustment, adjust it manually with **Image adjustment menu**. [p.34](#)

■ Correcting the keystone distortion (KEYSTONE)

When the projector placement angle against the screen is changed while projecting the image, the picture will undergo keystone (trapezoidal) distortion. This projector can correct for this keystone distortion.

Remote Control



- **Press the remote control's KEYSTONE ▲ / ▼ button.**

You can also select [Keystone] in the **Display setting menu**. [p.35](#)

- **You may also press and hold the MENU button on the projector over 2 seconds, and then use the ▲ or ▼ button to correct the keystone.**

■ Note

- Depending on the amount of keystone adjustment needed and the image content, some information may be lost, or the picture quality may suffer.

■ Cutting off the picture temporarily (MUTE)

When you want to project the images of another projector or overhead projector temporarily, this projector's images can be turned off using the **MUTE** button.

Remote Control



- **Press the remote control's MUTE button.**

The picture is cut off. (The MUTE function is released by pressing the **MUTE** button again.)

■ Note

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

Using handy features (continued)

■ Freezing the image (FREEZE)

This function is used to pause video during a presentation.

- **Press the FREEZE button on the remote control.**
The picture will pause. To release the freeze function, press the **FREEZE** button again.

Remote Control



■ Note

- The  icon will appear while the freeze function is in effect.
- Other operations will also release the freeze function.
- Even if an image is frozen on the projector, the pictures are running on the video or other equipment.
- Using this function on commercial video software, broadcast or cable-broadcasting except for the purpose of your private viewing may infringe the copyright protected by the copyright laws.
- Freeze function is not available on SD/USB input.

■ Resizing image (RESIZE)

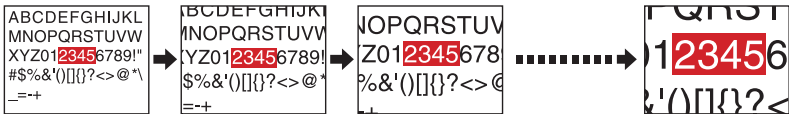
The projected image can be resized (zoomed in/out).

Remote Control



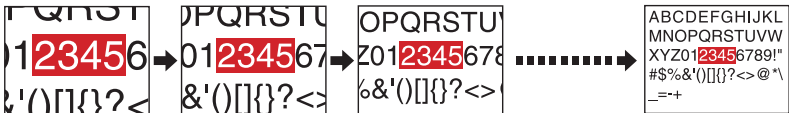
❶ Press the remote control's RESIZE ▲ button.

Each time you press the RESIZE ▲ button, zoom ratio is up. You can keep pressing it to enlarge the image further.



❷ To zoom out, press the remote control's RESIZE ▼ button.

Each time you press the RESIZE ▼ button, zoom ratio is down. You can keep pressing it to reduce the image further. (However, the image cannot be smaller than the original size.)



❸ To move the area to zoom in, use the ▲ ◀ ▶ ▼ buttons.

You can keep pressing the button until reaching the desired area.



- ④ When the image returns to the original size by pressing **RESIZE ▼** button several times, the zoom will be reset.

Pressing the  button during resizing also resets the zoom.

Note

- The  icon appears while resizing.
- Operating a function other than Mute will release resizing.
- As zooming is processed digitally, the image quality is degraded in larger zoom ratio.
- During resizing or moving the zooming area, the image may be distorted.

■ Adjusting LED power (LED)

This function is used to adjust LED power.

- **Press the LED + / - button on the remote control.**
LED power is increased or decreased.
- **You may also press and hold the MENU button on the projector over 2 seconds, and then use the  or  button to adjust LED power.**

Remote Control



Using the menus

You can call up on-screen menus, and make adjustments and settings using the operation buttons on the control panel of the main unit and remote control. [p.18](#) [p.19](#)

■ How to use the menus

The menu shown below is for operation instructions purposes and might differ from the actual display.

1. Press the MENU button.

2. Select a Category

The Setting display menu appears.

Select a category by using .

There are 4 categories.

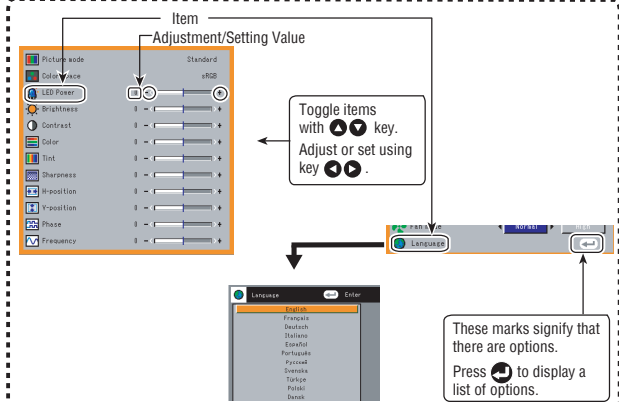
- Image adjustment menu** [p.34](#)
- Display setting menu** [p.35](#)
- Default setting menu** [p.36](#)
- Status display menu** [p.37](#)



Displays the current adjustments and settings of the selected category. Item shown in gray cannot be adjusted with the current input source.

3. Adjustments & Settings

Press the button to open the menu.



The figure shows displays given for operation instructions purposes. As the display may differ depending on the item, refer to the following applicable pages for the menu item you desire.

5. End

Press the MENU button again

The menu disappears. (The menu will disappear automatically after 30 seconds, if no operation is conducted.)

4. Back

Press the MENU button

Using the menus (continued)

■ Image adjustment menu

Use this menu to set or adjust image related items. Items that can be set or adjusted are marked “Yes”, and those that cannot are marked “No”. (When an item is masked, it indicates that you cannot select for the current input.)

Item  	Description	RGB	Y/Pb/Pr	Video	SD/USB
 Picture mode	Toggle the picture mode with   . SD/USB and RGB input: Bright/Normal/True color Y/Pb/Pr and Video input: Standard/Cinema	Yes	Yes	Yes	Yes
 Color space	Toggle the color space with   . SD/USB and RGB input: sRGB/Adobe RGB/WIDE Y/Pb/Pr and Video input: HDTV / NTSC/PAL / WIDE	Yes	Yes	Yes	Yes
 LED Power	Adjust LED brightness. Darker   Brighter	Yes	Yes	Yes	Yes
 Brightness	Adjust the brightness of the image. Darker   Brighter	Yes	Yes	Yes	Yes
 Contrast	Adjust the image contrast. Lower   Higher	Yes	Yes	Yes	Yes
 Color	Adjust the color of the image. Lighter   Deeper	No	Yes	Yes	No
 Tint [Note]	Adjust the image to an appropriate tint. Reddish   Greenish	No	Yes	Yes	No
 Sharpness	Adjust the sharpness of the image. Softer   Sharper	No	Yes	Yes	No
 H-position	Adjust the horizontal position of the image. Move left   Move right	Yes	No	No	No
 V-position	Adjust the vertical position of the image. Move down   Move up	Yes	No	No	No
 Phase	Adjust with   to eliminate flicker.	Yes	No	No	No
 Frequency	Adjust with   to eliminate periodic patterns and flickering when many vertical lines appear on the screen.	Yes	No	No	No

Note

- [Tint] can be displayed and adjusted only when the video signal is [NTSC] or [NTSC4.43].

■ Display setting menu

Item ▲ ▼	Description	RGB	Y/Pb/Pr	Video	SD/USB
 Keystone	Correct the keystone (trapezoid) distortion of the screen. Screen shrinking   Screen shrinking at bottom at top	Yes	Yes	Yes	Yes
 Screen size [Note]	Screen size setting.  (Normal)    (Wide)  (Normal): Display the image in a maximum size to fit in the screen  (Wide): Wide-screen display	Yes	Yes	Yes	No
 Up/down shift	Adjust the vertical position when Screen size is set to "Wide". Lower   Higher	Yes	Yes	Yes	No
 Background	Screen to display when there is no input signal.  (Logo) < >  (Blue) < >  (Black)	Yes	Yes	Yes	Yes
 Icon	Display icons as function guides. On   Off	Yes	Yes	Yes	Yes
 Start-up screen	Display start-up screen when power is turned on. On   Off	Yes	Yes	Yes	Yes
 White balance	Press  . Adjusts white balance automatically. Yes   No	Yes	Yes	Yes	Yes
 Reset all	Press  . (The language is not reset.) Resets all adjustments and settings to their factory settings. Yes   No	Yes	Yes	Yes	Yes

■ Note

- Using the **Screen size** setting function on commercial video software, broadcast or cable-broadcasting programs to display images with the varying aspect ratio except for the purpose of your private viewing may infringe the copyright protected by the copyright laws.

Using the menus (continued)

■ Default setting menu

Item  	Description	RGB	Y/PB/Pr	Video	SD/USB
 SD/USB	Set the priority to SD or USB input signals. SD   USB	No	No	No	Yes
 Quick start	Set to "On", then plug in the SD/USB memory device will enter the Slide show mode. Set to "Off", then plug in the SD/USB memory device will enter the File view mode.	No	No	No	Yes
 Slide show	Set slide show mode. Auto.   Manual	No	No	No	Yes
 Interval	Adjust the interval time in Slide show auto mode. Shorter   Longer	No	No	No	Yes
 Slide show loop	Set loop function of the slide show. On   Off	No	No	No	Yes
 Display effect ^[Note]	Set transition effect of the slide show. [ : Enter setting mode]→[  :Selection]→ [ : Apply] None/Wipe/Dissolve/Cover ^[Notes]	No	No	No	Yes
 Projection mode	Sets projection mode in accordance with Placement Styles. p.23  (Standard)    (Ceiling)    (Rear)    (Rear ceiling)	Yes	Yes	Yes	Yes
 Fan mode ^[Note]	Sets the cooling fan speed. Normal   High	Yes	Yes	Yes	Yes
 Language	Select one of the languages below for the menu and messages. [ : Enter setting mode] → [  :Selection]→ [ : Apply] English/ Français/ Deutsch/ Italiano/ Español/ Português/ Русский/ Svenska/ Türkçe/ Polski/ Dansk/ Čeština/ Magyar/ Nederlands/ Suomi/ Norsk/ Ελληνικά/ Română/ 日本語/ 中文(简体字)/ 中文(繁體字)/ Indonesia	Yes	Yes	Yes	Yes

Note

- [Display effect]**
None: displays screen without special effects.
Wipe: displays the next slide gradually to the right (→) over the current slide.
Dissolve: adds dissolve effect to screen.
Cover: screen overlaps previous image
- Set the **[Fan mode]** to **[High]** when using the projector at the high altitude (higher than 1,500m or 5,000 ft.). Do not set **Fan mode** to **[High]** when using the projector at a lower altitude.

■ Displaying Information (Status display)

Item  	Description	RGB	Y/Pb/Pr	Video	SD/ USB
 Input	Input source name.	Yes	Yes	Yes	Yes
 Resolution ^[Note]	Resolution (in dots).	Yes	No	No	No
 Video mode	Color method of video signal.	No	Yes	Yes	No
 Picture mode	Picture mode setting.	Yes	Yes	Yes	Yes
 Color space	Color space setting.	Yes	Yes	Yes	Yes
 LED Power	LED brightness.	Yes	Yes	Yes	Yes
 Version ^[Note]	Firmware version.	Yes	Yes	Yes	Yes

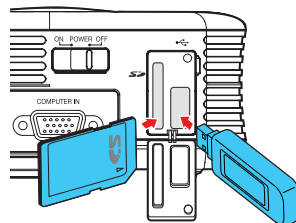
Note

- **[Resolution]** shows the mode of supported RGB signals [p.47](#).
- **[Version]** shows the version of the projector's internal control program. This version will be requested for customer service.

SD/USB Memory Device Operation

① Press SD/USB button of the remote control to select SD/USB source.

② Plug the SD/USB memory device to the SD/USB port.

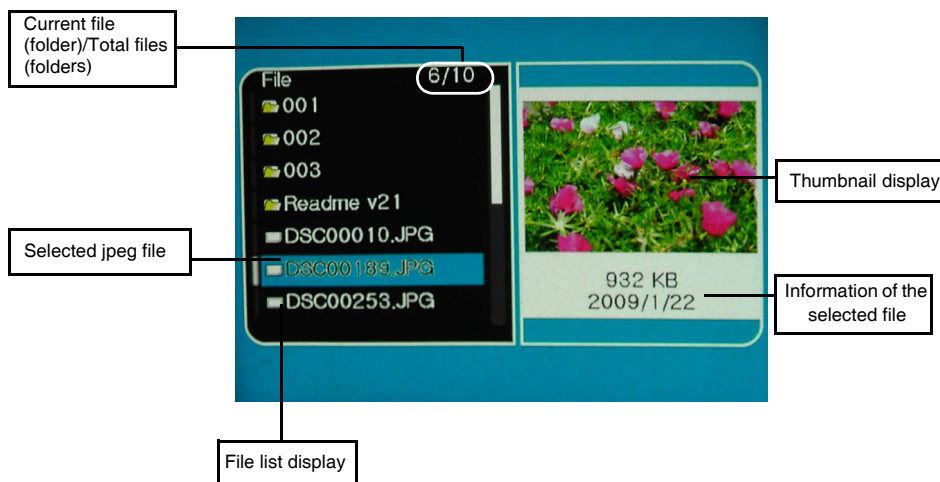


Note

- USB HDD or hub is not supported.
- If SD and USB memory device are inserted before power is on, the input signal is detected according to the SD/USB setting in the **Default setting menu** [p.36](#). The system supports Plug and Play function at power on regardless of SD/USB setting.
- If **Quick start** is set to "On" and the input other than SD/USB is selected, the slide show will automatically play back once a SD/USB memory device is plugged in. After that if the input is switched to SD/USB, the first slide may not be displayed or the slide show may have been ended.

File View Mode

- ① When **Quick start** is set to "On" and there is JPEG file(s) in the root folder of the SD/USB memory device, the slide show starts automatically. [p.36](#)
- ② When **Quick start** is set to "Off" or there is no JPEG file in the root folder of the SD/USB memory device, the file list appears as below (file view mode).
- ③ Press the ▲ / ▼ button to select the folder or file. Press the ► / ⌂ button to display the image in full screen. Press the ◀ button to return to the previous page or file view mode.



Note

- If there are many files in the folder, it takes long time to show the file names and thumbnails.
- 2-byte characters are not supported and will be displayed as "?".
- Only folders or JPEG files can be displayed in the file list, other file formats are not displayed.

- Thumbnail may not be displayed due to different file formats.
- Movie files are not supported.

Slide show Mode

1 Slide show Mode

- Quick start

When the projector is set to the SD/USB input and **"Quick start"** is set to **"On"** [p.36](#), the slide show starts with JPEG files in the root folder of the SD/USB memory device.

- Start from file view mode

When a JPEG file is selected and press the  button in the file view mode, slide show starts from the selected JPEG file.

2 Slide show operation

- In the slide show mode, a JPEG file is displayed on the screen fully. To change the files, select  or . The picture displayed in the same order as displayed in the file view mode.
- Pictures in slide show mode are displayed slightly less sharp than their originals due to internal processing.
- To pause during slide show, press the  button, and the  will be displayed. Press the  button again to cancel pause and resume slide show.
- It takes several seconds to display the next slide.  appears when reading the next file. The reading time varies depending on the file size.
- When **"Slide Show"** is set to **"Auto."** in the **Default setting menu** [p.36](#), the slide will change automatically when displaying. Display time also can be changed in **"Interval"** setting in the **Default setting menu** [p.36](#). Interval time doesn't include reading time of the next file, so it takes longer to display the next picture than the setting.
- When **"Slide Show loop"** is set to **"Off"**, the slide show cycles only once, and then enter file view mode. After slide show reaches the last file of the list,  will be displayed on the last picture. This indicates the end of the slide show.
When **"Slide Show loop"** is set to **"On"**, the slide show starts from the first file again after displaying the last file.
- When JPEG file has a failure or unsupported format,  appears on the current picture and the projector automatically starts to read the next JPEG file.
Picture transition effect is available in the slide show. The following four modes can be selected in **"Display effect"** in the **Default setting menu** [p.36](#).
 - None: displays screen without special effects.
 - Wipe: displays the next slide gradually to the right (→) over the current slide.
 - Dissolve: adds dissolve effect to screen.
 - Cover: screen overlaps previous image.

Note

- If you switch to another source during slide show operation, the slide show will not stop.

SD/USB Memory Device Operation (continued)

③ Exit Slide show

Press ▲ button to exit slide show when slide show is in operation.

Disconnecting SD/USB Memory device

If slide show is playing, press ▲ button to exit slide show mode. Wait for a while without conducting any operations.

SD/USB memory device can be unplugged safely after the thumbnails are displayed in the file view mode.

CAUTION

- Be sure to follow the above instructions. Disconnecting a SD or USB card during playing slide show may cause a system malfunction or data corruption.

About SD and USB memory function

① The USB terminal

The USB terminal of the projector is USB 1.1 compliant, which can connect with a USB memory device.

② The SD terminal

The SD terminal supports SD and SDHC memory cards.

③ SD/USB memory

- 8GB limited SD/USB memory size.
- Do not support USB HDD (Hard disk).
- Do not support USB hub.
- Some USB card readers such as multi-card readers are not supported.

④ SD and USB memory devices whose operation has been verified.

Toshiba does not guarantee the operation of all USB devices.

SanDisk: SD (512MB, 1GB, 2GB), SDHC (4GB).

Toshiba: SD (256MB, 512MB, 1GB, 2GB), SDHC (8GB)

Note

- This projector does not support all SD and USB memory devices.

⑤ Backing up the data

Toshiba recommends that you back up the data saved in the SD/USB memory device before use. (Toshiba assumes no liability for losses incurred by data lost through the use of this projector.)

⑥ JPEG files

- Supported file extensions are .jpg and .JPG.
- Some JPEG files such as interlaced JPEG are not supported. Maximum resolution is 16384 x 16384.

⑦ Folders and files

- Folders are limited to 4 levels.
- The number of files in each folder is limited to 9986.

Lens and main unit cleaning

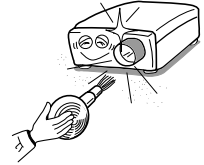


WARNING

- **Request cleaning and maintenance of a ceiling-mounted unit from your projector dealership.** Attempting to clean the unit in a high location by yourself may cause you to fall, possibly resulting in injury.

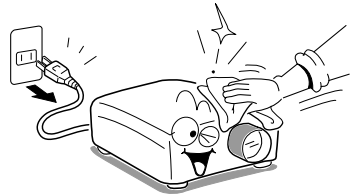
■ Lens cleaning

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



■ Main unit cleaning

- Always unplug the power cord before cleaning the main unit.
- Wipe dirt off the main unit gently with a soft cloth.
- Do not wipe the main unit with a damp cloth. Doing so may allow water to get inside, resulting in possible electric shock or unit failure.
- Do not use benzene, thinner or other similar chemical solutions as they may deform or discolor the unit or damage the paint surface.
- Do not use a chemically saturated cloth.



Indicators

State/ Problems	Icon/ Messages	Close Messages	LED Indicators	
			TEMP	STATUS
System overheat		See [Note] below	On	
Fan lock		See [Note] below		F2
System error		See [Note] below	F2	F2
SD/USB error		Turn off the power once and turn it back again. Some kinds of files may cause this problem, so please try to remove the files.		

F2: Flash 2Hz

Note

- In case an error occurs, the projector will be shut down automatically after an error message has been displayed with the power switch in the **ON** position [p.17](#).
- If this happens, turn the power switch to **OFF** position and then check the applicable items in the “**Before calling service personnel**” [p.45](#). Afterward, restart the projector again.

Before calling service personnel

If you think something is wrong, check the followings before contacting customer service.
Please see "Indicators" [p.44](#) as well.

If This Happens	Check
No power	- Is AC adapter connected to the power cord? Is AC adapter connected to the projector? - Is the power cord plugged in? - Is the power switch set to OFF?
Power goes out during use	- Is the system temperature high? p.44 - Is the air intake or air exhaust blocked? p.17
No picture	- Are the connections set up correctly? p.25 - Are all the connected devices functioning properly? - Is the mute function on? p.30 - Is the brightness setting minimized? p.34
Picture not displayed correctly	- Is the input signal supported by the projector? p.47 p.48 - Is something generating an abnormal video signal, for instance the video tape?
Picture blurred Part of picture out of focus	- Is the lens dirty? p.42 - Is the lens focus adjusted optimally? p.28 - Is the projection distance within the projector's supported range? p.24 - Is the projector's screen placement angle tilted too far? p.24 - Are the sharpness or sampling phase adjustments off? p.34
Colors too light Bad shading	- Are the color or tint adjustments off? p.34 - Is the screen dirty? p.42
Image is dark	Are the brightness or contrast adjustments off? p.34
Remote control doesn't work	- Is the power switch set to OFF? p.17 - Is the remote control's battery drained? - Is the battery inserted into the remote control correctly? p.21 - Is the remote control being used within the effective range? p.21 - Are there any obstructions between the remote control and projector? p.21 - Are there any fluorescent or other bright lights directed at the projector's infrared remote sensor?
SD/USB memory device images aren't projected	- Is the SD/USB memory device inserted correctly? - Is an SD/USB memory device not supported by the projector inserted? p.40 - Are there any JPEG files saved on the SD/USB memory device? - Are the files in an unsupported format or too large for the projector?

Specifications

■ List of general specifications

Item		Specification
Power consumption		55W
Weight		650g
External Dimensions (including protruding parts)		139.5 x 56 x 124.5 mm (W x H x D)
Cabinet material		PC
Temperature		Operating temp: 5°C to 35°C (41°F to 95°F) 0 - 1500m (0 - 5000ft) Fan mode: Normal 5°C to 30°C (41°F to 86°F) 1500 - 2400m (5000 - 8000ft) Fan mode: High 5°C to 28°C (41°F to 82°F) 2400 - 3000m (8000 - 10000ft) Fan mode: High Storage temp: -20°C to 60°C (-4°F to 140°F)
Relative humidity		85% max.
Altitude		Operating: 0 - 3,000m (0 - 10,000 ft) Storage: 0-12,000m (0 - 40,000 ft)
Display device		1 DLP® chip
Picture elements		True 858 x 600 resolution, 16.7M True colors
Lens		f=17.67mm (fixed lens)
Light source		LED module
Projection screen size		15-60 inches
Projection distance		0.6-2.4 m
Connection terminal	COMPUTER IN(Y/PB/PR) IN terminal	Mini D sub 15 pin Analog RGB / Y/PB/PR (dual use)
	VIDEO IN terminal	VIDEO: RCA Pin Jack
	USB terminal	USB type A (for USB memory device) USB type B (for service only)
	SD terminal	Supports SD and SDHC memory cards

■ Note

- This model complies with the above specifications.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

■ List of supported signals (RGB signals)

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

Compatibility	Resolution	H-Sync [KHz]	V-Sync [Hz]
VGA	640 x 480	31.5	59.9
		37.9	72.8
		37.5	75.0
		43.3	85.0
SVGA	800 x 600	35.2	56.3
		37.9	60.3
		48.1	72.2
		46.9	75.0
		53.7	85.1
XGA	1024 x 768	48.4	60.0
		56.5	70.1
		60.0	75.0
		68.7	85.0
SXGA	1152 x 864	64.0	70.0
		67.5	75.0
	1280 x 960	60.0	60.0
		75.0	75.0
	1280 x 1024	64.0	60.0

■ Note

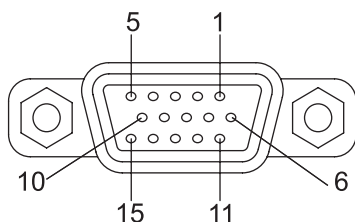
- Signals whose resolution exceeds the native resolution (858 x 600 pixels) will be compressed. For this reason, some information may be lost and/or image quality may be affected.

Specifications (Continued)

■ List of supported signals (Component signals)

Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
480i	15.8 kHz	60 Hz
480p	31.5 kHz	60 Hz
576i	15.6 kHz	50 Hz
576p	31.3 kHz	50 Hz
720p	45.0 kHz	60 Hz
720p	37.5 kHz	50 Hz
1080i	33.8 kHz	60 Hz
1080i	28.1 kHz	50 Hz

■ Pin assignment of COMPUTER IN terminals



Mini D-sub 15 pin connector

Pin No.	Signal Name
1	RED
2	GREEN
3	BLUE
4	NC
5	GND
6	GND
7	GND
8	GND
9	VCC 5V
10	GND
11	NC
12	SDA
13	HSYNC
14	VSYNC
15	SCL

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