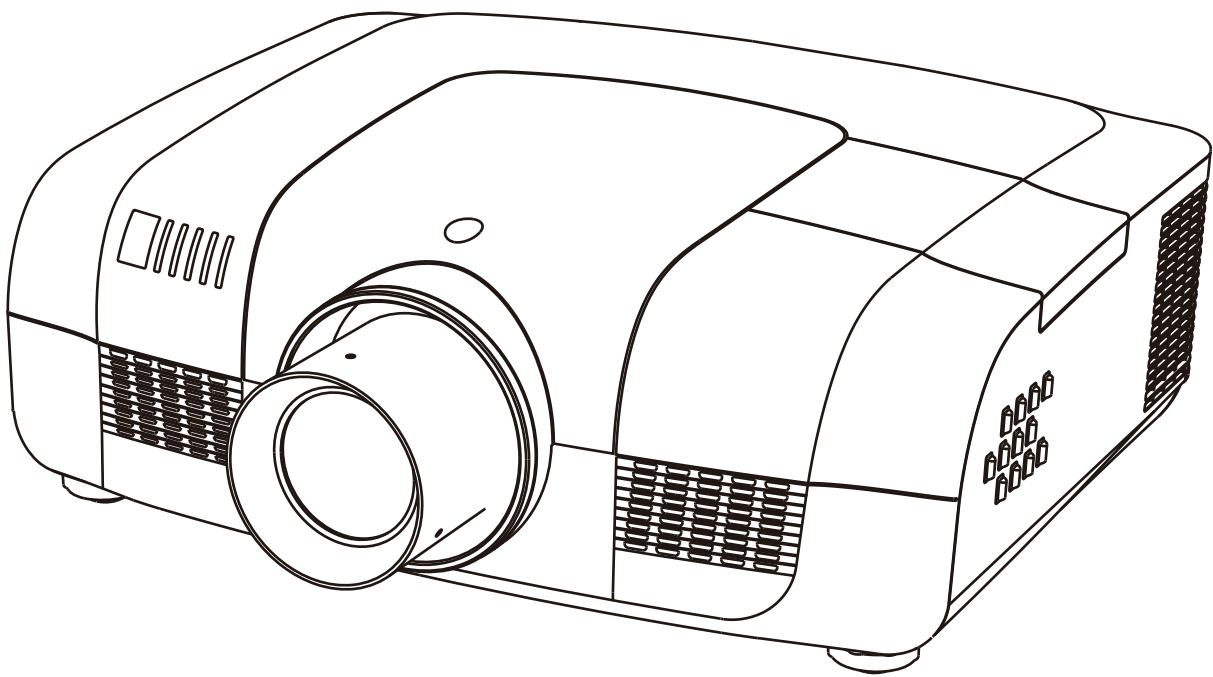




Multimedia Projector MODEL E1655U



Owner's Manual

P/N:4100534500

Property Statement

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ASK PROXIMA CO., LIMITED

Note:

The screen menu and pictures in the manual may slightly differ from the real product.
The manual is subject to change without prior notice.

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To the owner

Please read this manual completely before installing and operating the projector.

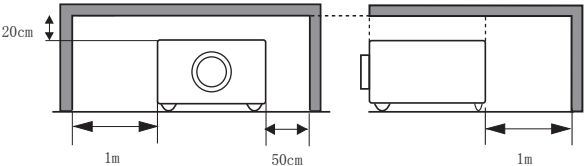
The projector provides many convenient features and functions. Proper operation may enable you to fully utilize the features and keep it in good condition. Otherwise, it will not only shorten the service life of the unit, but also may cause malfunction, a fire, or other accidents.

If your projector cannot work properly, please read this manual again, check the operating methods and cable connection, and try the solutions in the part of Troubleshooting. If the problem still exists, contact the dealer or the service center.

The lamp of the projector is a wearing part. The luminance may decrease after a period of operation and be weaker than that of a new lamp. This is normal. Please strictly follow the steps in Turning on the unit and Turning off the unit to turn on/off the projector, and the requirements in Maintaining and cleaning the projector to service and clean the projector regularly. Or the high temperature residual heat may not radiate, greatly shortening the service life of the projector and lamp, or even damaging them within a short period.

Safety precautions

- Caution:**
- The projector must be grounded.
 - Do not expose the projector to raindrops or high humidity to avoid a fire or electric shock.
- This projector produces intense light from the projection lens. Avoid staring directly into the lens, otherwise eye damage could be caused. Be especially careful that children do not stare directly into the beam.
- Place the projector in a proper position. Otherwise it may result in fire hazard.
- Leave an appropriate space from the top, sides, and back of the shell in order to ventilate and cool down the projector. The figures below indicate the minimum distance to be left. It must be satisfied if the projector is placed in sealed environment like a cabinet.




- Do not cover the vent of the projector. Poor radiation may shorten the service life or even cause dangers.
- Remove the AC power plug if the projector is not to be used for a long time.
- Do not project the same image for a long time; otherwise, a residual image may appear on the LCD panel due to its characteristic.


Caution

Do not set the projector in greasy, wet, or smoky conditions such as in a kitchen, to prevent a malfunction or accident. If the projector comes in contact with oil or chemicals, it may become deteriorated.


Read and keep this manual for future reference.





Caution
Electric shock
Do not open



Caution: To reduce the risk of electric shock, do not remove the cover (or back). No user-serviceable parts inside except lamp replacement. Refer servicing to qualified service personnel.

 The sign indicates the danger of high voltage, i.e., electric shock.

 The sign indicates important operating and maintenance instructions in the manual with the unit.



Environment-friendly use conditions: The environment-friendly life time of the projector and remote control is 10 years, the lamp (consumable) 5 years, and the provided batteries (consumable) 5 years. The use conditions of the environment-friendly use period are the same with that of the product. Properly operate and effectively maintain the projector according to the requirements in this manual.

Safety guide

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

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

Follow all warnings and instructions marked on the projector.

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

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

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

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

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



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

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

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

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

Do not install the projector near the ventilation duct of air-conditioning equipment.

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

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

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

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

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

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

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

Air circulation

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



Caution

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

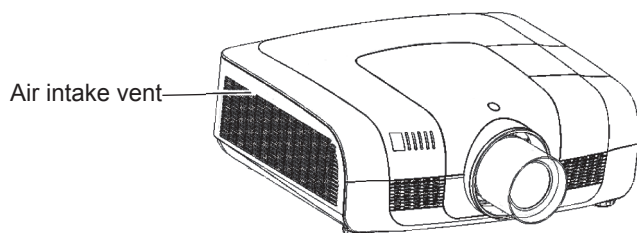
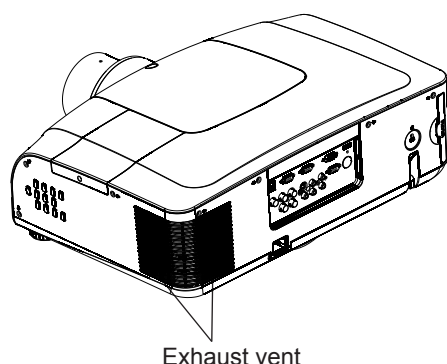
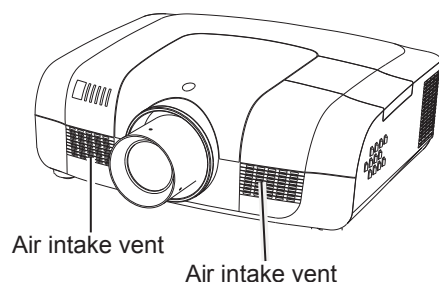
--Do not put any flammable objects, or spray can near the projector. Hot air is exhausted from the air vents.

--Keep the exhaust vent at least 1 m away from any objects.

--Do not touch a peripheral part of the exhaust vent, especially screws and metallic part. This area will become hot while the projector is being used.

--Do not put anything on the projector. Objects put on the cabinet will not only get damaged but also may cause fire hazard by heat.

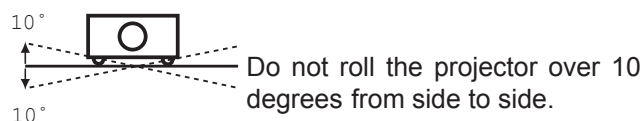
Cooling fans are provided to cool down the projector. The fan's running speed is changed according to the temperature inside the projector.



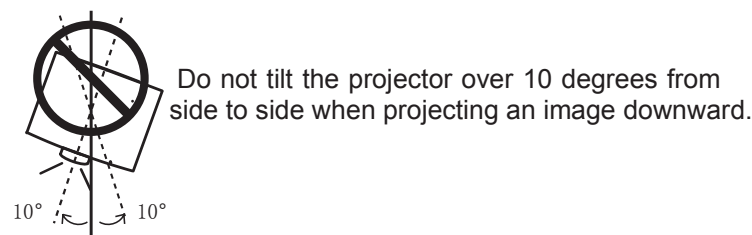
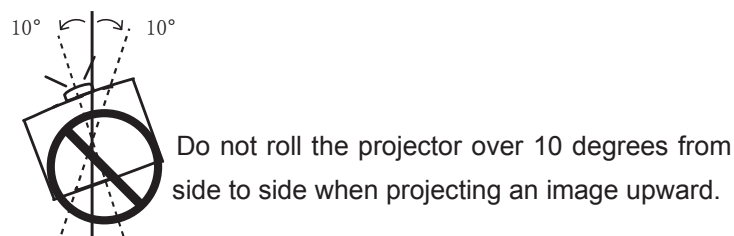
Installing the projector in proper directions

Install the projector properly for normal operation. Improper installation may reduce the lamp lifetime and cause a fire hazard. The projector may project images upward, downward, or slantwise when it is installed vertically to the surface level. Keep the bottom of the projector upward for installation when it is tilted downward.

To flip an image, set the ceiling function ON.
Positioning precautions



Do not point the projector down to project an image.



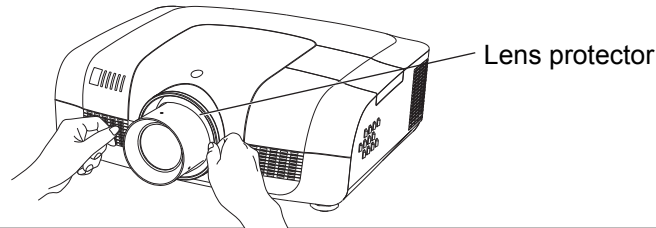
Caution on ceiling mounting

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

Moving the projector

Caution on lens protector

Before use, remove the lens protector. To move the projector, press and hold the Shift or lens key more than 5 seconds to center the lens back. Then, install the protector to protect the lens.



When moving the projector, retract the adjustable feet to prevent damage to the lens and cabinet. Put it into a suitable case when the projector is not in use for a long period.



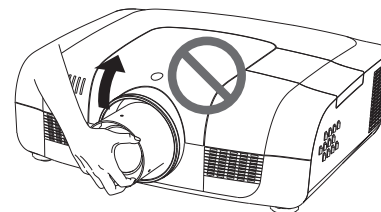
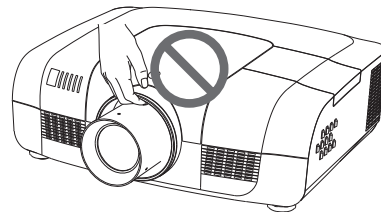
Caution in moving or transporting the projector

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

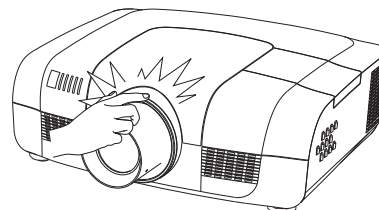
Caution in handling the projector

When lifting or moving the projector, do not hold the lens or the directive hood to prevent damage to the lens or the unit.

Handle the projector with care. Do not drop or bump it to avoid strong force, or place other objects on the cabinet.



Do not hold the lens and the peripheral part.



Caution



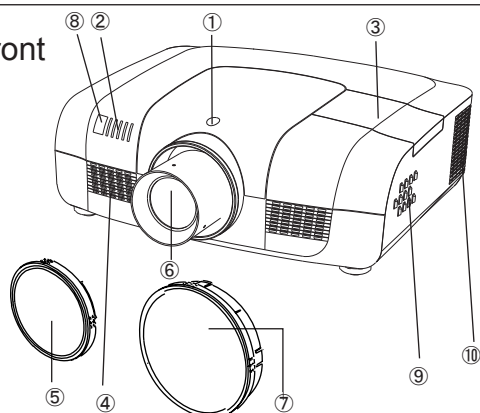
- The lens of the projector is electric. When operating the projector, pay attention to the following conditions. When the lens is rotating, do not touch it, otherwise your fingers may get hurt.



- Do not allow a child to touch the lens.

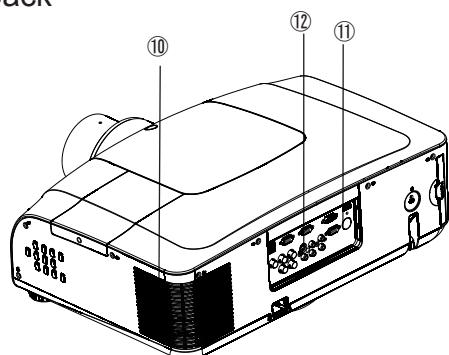
Part names and functions

Front



- (1) Lens release button
- (2) Indicator
- (3) Lamp cover
- (4) Speaker
- (5) Lens cap
- (6) Projector lens
- (7) Decorative cover
- (8) Remote receiver (Front & top)
- (9) Side control panel

Back



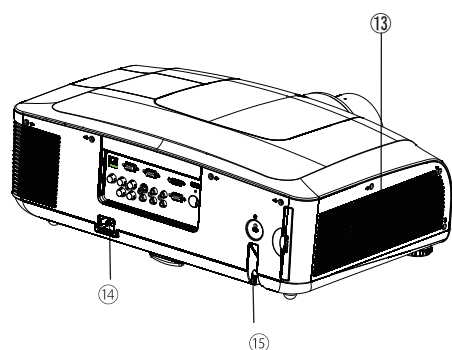
- (10) Exhaust vent



Caution

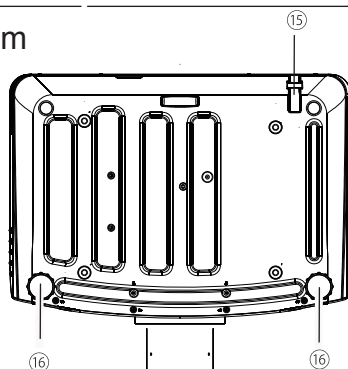
Hot air is exhausted from the exhaust vent. Do not put heat-sensitive objects near this side.

Back



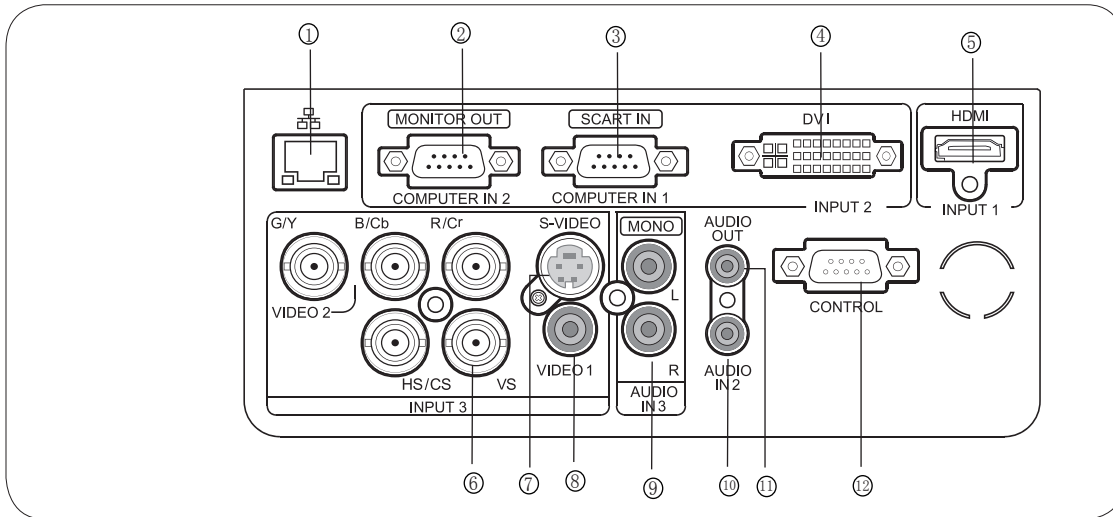
- (11) Remote receiver (Back)
- (12) Terminals and connectors
- (13) Air filter and air-intake vent
- (14) Power cord connector

Bottom



- (15) Safety lock
- (16) Adjustable feet

Rear terminal



(1) Network port

Used to connect the network cable.

(2) COMPUTER IN2/MONITOR OUT

- Used to connect the computer output.
- Used to output the analog signals from (3) or (6) to the other monitor.

(3) COMPUTER IN1/SCART IN

- Used to connect a computer or RGB SCART output.

(4) DVI

Used to connect the DVI digital output.

(5) HDMI

Used to connect the HDMI digital output.

(6) BNC jacks

Connect the component video output to Y, Cb Cr or composite video output from video equipment to VIDEO 2 terminal, or connect the RGBHV format (5 line system) signal to G, B, R, Hs, and Vs jacks.

(7) S-VIDEO

Used to connect the S-video output of video equipment.

(8) Composite (video) input jacks

Connect the composite signals to this terminal.

(9) AUDIO IN3

Connect the audio to these jacks, When Video equipment connected to INput3.

(10) AUDIO IN2

Connect the audio to this jack (stereo), When Video equipment connented to INPUT2.

(11) AUDIO OUT

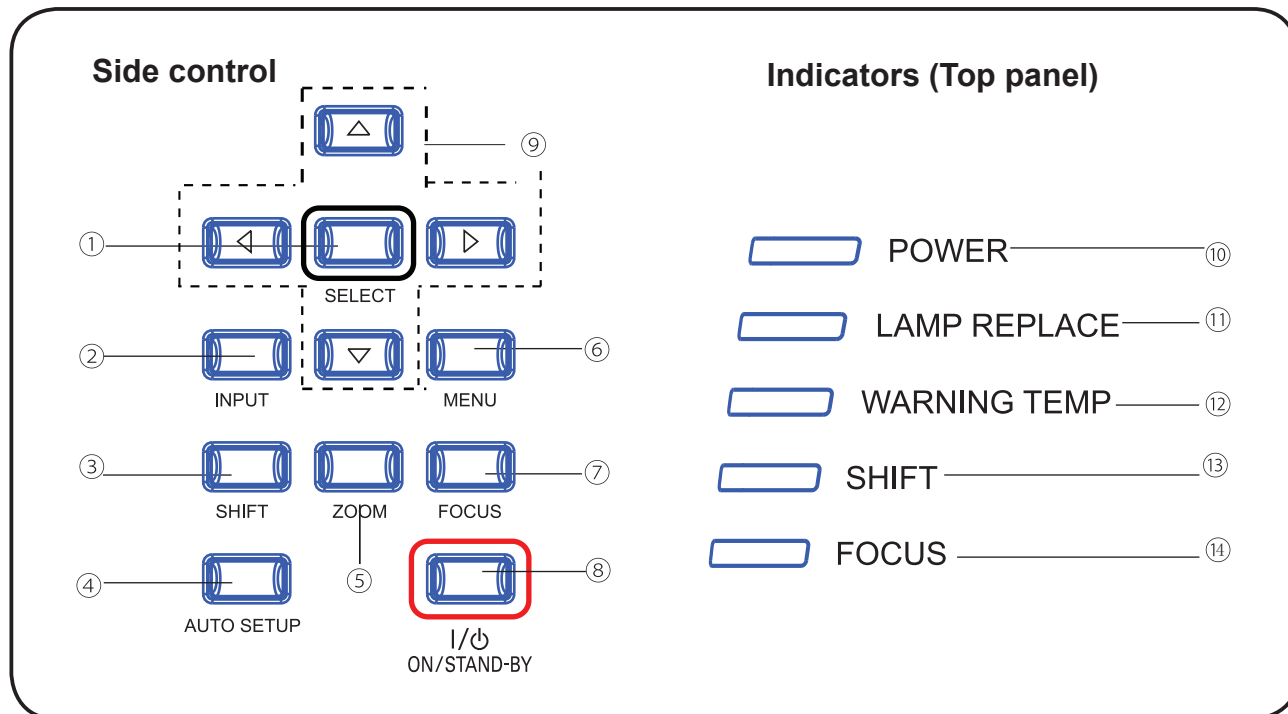
Used to output the audio from (9) or (10).

(12) CONTROL

When using RS232 to control the projector, please connect the serial control line to this terminal.

Part names and functions

Side control and indicators



(1) SELECT button

- Enter full menu from shortcut.
- Execute the selected item.
- Expand or compress the image in the Digital zoom Mode.

(2) INPUT button

To select an input source.

(3) SHIFT button

To enter the lens shift mode.

(4) AUTO SETUP button

To perform various settings configured automatically, including the input source search function and auto PC adjust function.

(5) ZOOM button

To zoom in/out images.

(6) MENU button

To open or close the screen menu.

(7) FOCUS button

To adjust the focus.

(8) ON/STAND-BY button

To turn on/off the projector.

(9) Point ▲▼◀▶ (VOLUME +/-) buttons

- Select an item or adjust the value in the On-Screen Menu.
- Pan the image in the D. Zoom +/- mode.
- Adjust the volume level.

(10) POWER indicator

- Lights red when the projector is in stand-by mode.
- Lights green during operations.
- Flashes green in the Power management mode

(11) LAMP REPLACE indicator

It turns orange when the life of the projection lamp draws to an end.

(12) WARNING TEMP indicator

It flashes red when the internal projector temperature is too high.

(13) SHIFT indicator

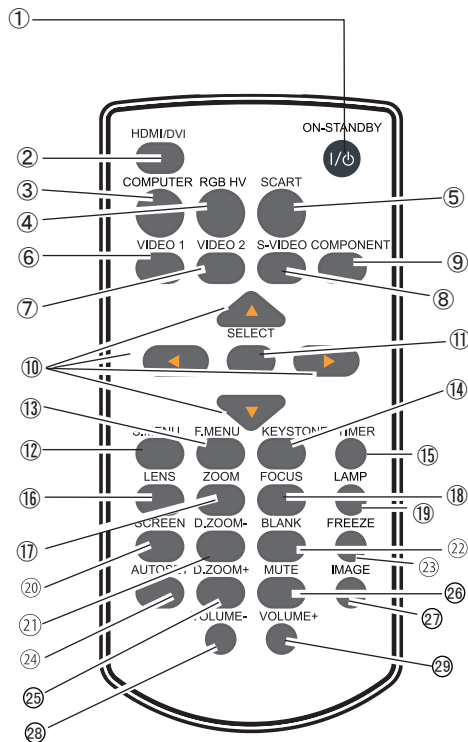
It lights blue when the projector lens is moving.

It lights blue when the projector lens is moving to the end.

(14) FOCUS indicator

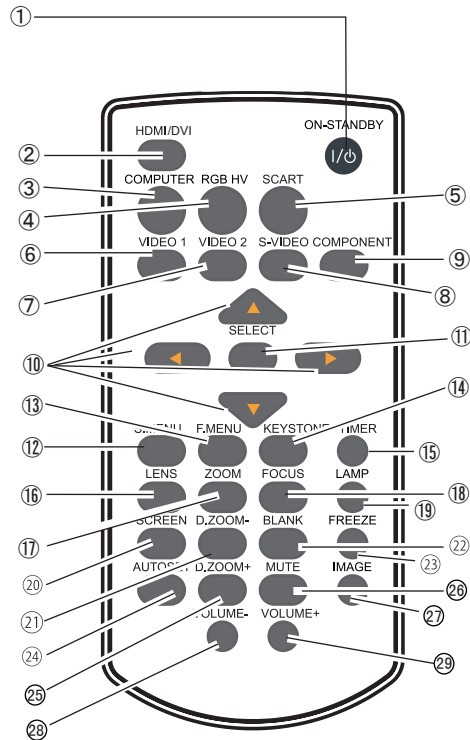
It lights green when zooming in/out.

Remote control



- ① **ON-STANDBY button**
Turn the projector on or off.
- ② **HDMI/DVI button**
Select HDMI or DVI input source.
- ③ **COMPUTER button**
Select VGA1 or VGA2 input source.
- ④ **RGBHV button**
Select RGBHV input source.
- ⑤ **SCART button**
Select SCART input source.
- ⑥ **VIDEO 1 button**
Select VIDEO 1 input source.
- ⑦ **VIDEO 2 button**
Select VIDEO 2 input source.
- ⑧ **S-VIDEO button**
Select the S-Video input source.
- ⑨ **COMPONENT button**
Select the component input source.
- ⑩ **▲ ▼ ◀ ▶ button**
 - Select an item or adjust the value in the on-screen menu.
 - Pan the image in Digital zoom + mode.
- ⑪ **SELECT button**
-Access the full menu or select an item in the menu.
- ⑫ **S.MENU button**
Open or close the shortcut menu.
- ⑬ **F.MENU button**
Open or close the full screen menu.
- ⑭ **KEYSTONE button**
Calibrate keystone type distortion.
- ⑮ **TIMER button**
Enable the timer function.

Remote control



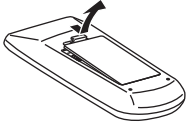
To ensure safe operation, observe the following precautions:

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

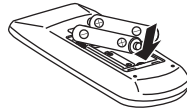
- ①⑥ **LENS button**
Select the lens shift mode.
- ①⑦ **ZOOM button**
Zoom in/out images.
- ①⑧ **FOCUS button**
Adjust the focus.
- ①⑨ **LAMP button**
Select the lamp mode.
- ②⑩ **SCREEN button**
Select a screen display mode.
- ②① **D.ZOOM- button**
Select the digital zoom - mode.
- ②② **BLANK button**
Temporarily close the on-screen image.
- ②③ **FREEZE button**
Freeze the projected image.
- ②④ **AUTOSET button**
Enter the AUTOSET mode.
- ②⑤ **D.ZOOM+ button**
Select the digital zoom + mode.
- ②⑥ **MUTE button**
Mute the sound.
- ②⑦ **IMAGE button**
Select the image mode.
- ②⑧ **VOLUME- button**
Decrease the volume level.
- ②⑨ **VOLUME+ button**
Increase the volume level.

Remote control battery installation

- 1 Open the battery compartment lid.

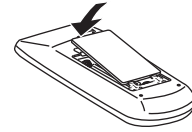


- 2 Install new batteries into the compartment.



For correct polarity (+ and -), be sure battery terminals are in contact with pins in the compartment.

- 3 Replace the compartment lid.



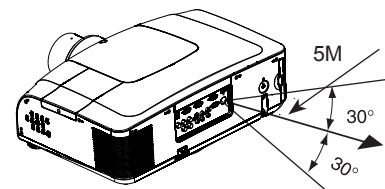
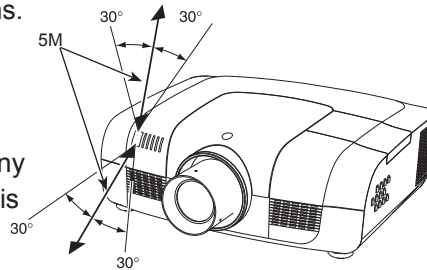
To ensure safe operation, please observe the following precautions:



- Use two (2) AAA or LR03 type alkaline batteries.
- Always replace batteries in sets.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid matter.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked on the remote control, carefully wipe the case clean and install new batteries.
- Risk of explosion if a battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

Operating range

Point the remote control toward the projector when pressing any button. The maximum operating range for the remote control is about 5 meters and 60 degrees.



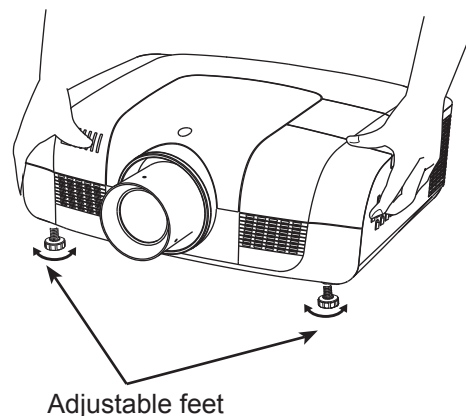
Adjustable feet

Projection angle can be adjusted up to 5.0 degree with the adjustable feet.

Rotate the adjustable feet to lift the projector to a certain height. During lifting, rotate the two feet clockwise.

To lower or retract the adjustable feet, rotate the two feet counterclockwise.

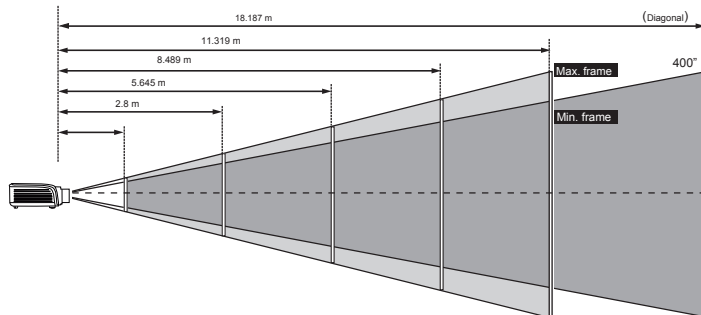
Keystone distortion of the projected image can be corrected by menu operation.



Positioning the projector

✓ Note

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

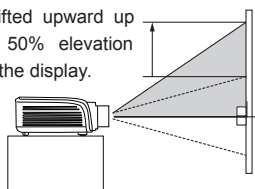


Screen size (W x H) mm	40"	100"	200"	300"	400"
16:10 aspect ratio	862 x 539	2154 x 1346	4308 x 2692	6462 x 4039	8616 x 5385
Maximum	1.093 m	2.8 m	5.645 m	8.489 m	11.319 m
Minimum	1.777 m	4.514 m	9.077 m	13.64 m	18.187 m

Lens shift adjustment

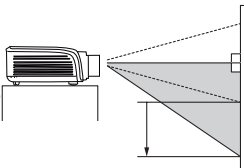
Projection lens can be moved from side to side and up and down a function makes the positioning of images easy on the screen.

The display position can be shifted upward up to 50% elevation of the display.



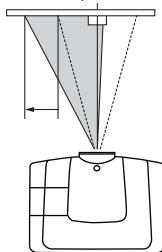
When the lens is shifted to top.

The display position can be shifted downward up to 50% elevation of the display.



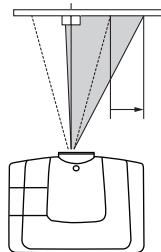
When the lens is shifted to bottom.

The display position can be shifted to the left up to 10% width of the display.



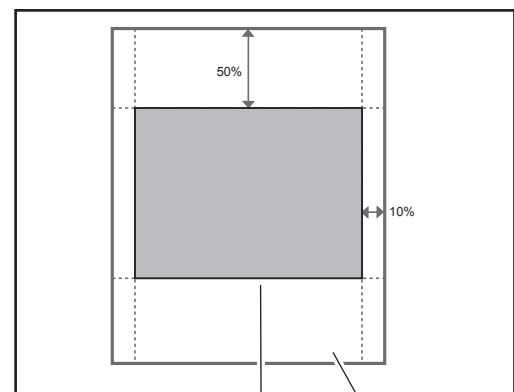
When the lens is shifted to leftmost.

The display position can be shifted to the right up to 10% width of the display.



When the lens is shifted to rightmost.

Adjusting range

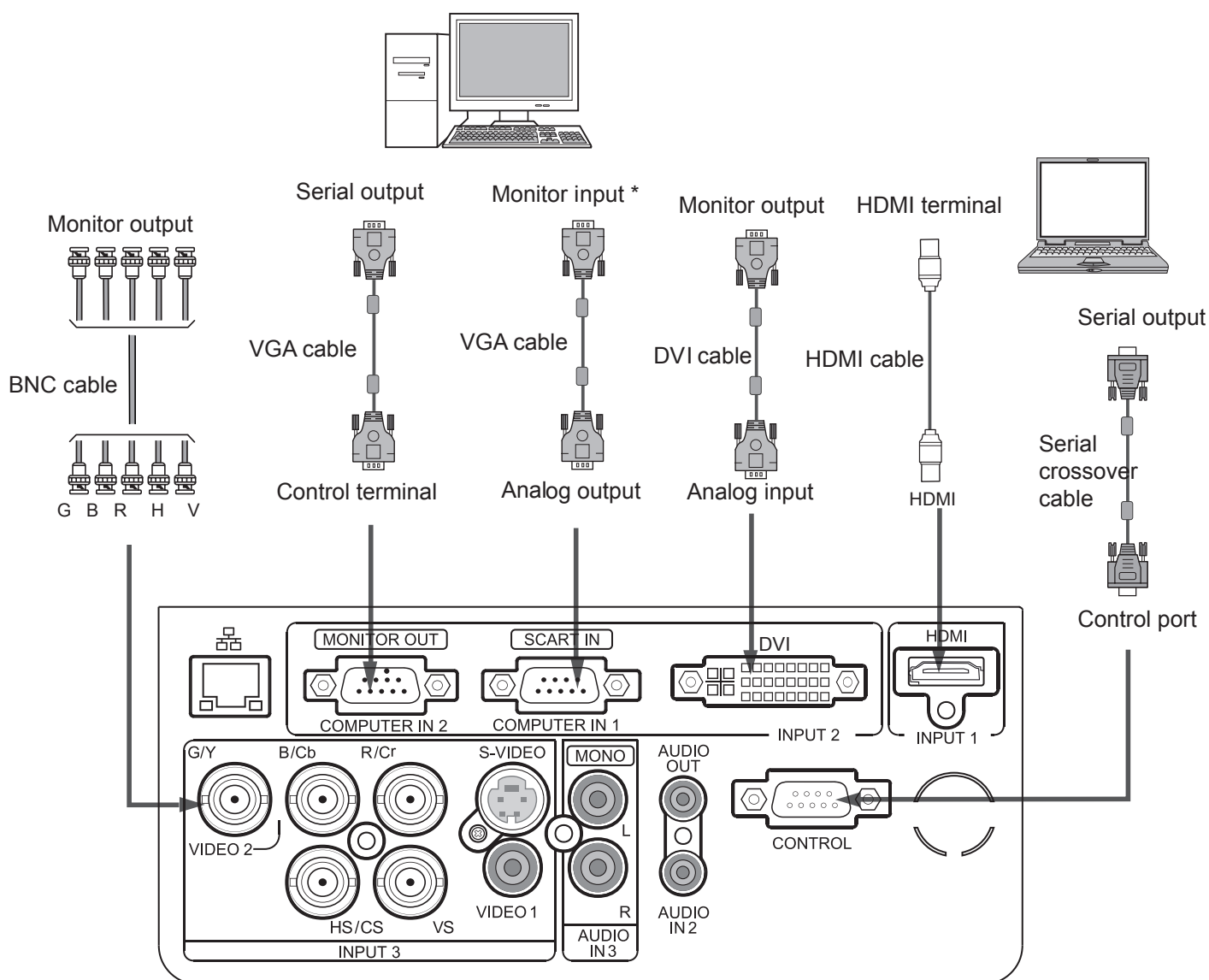


When the lens is shifted to the center. Shifting range

Connecting to computer (Digital and analog RGB)

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

- VGA cable (1)
- BNC cable *
- Serial crossover cable (F-F) *
- HDMI cable *

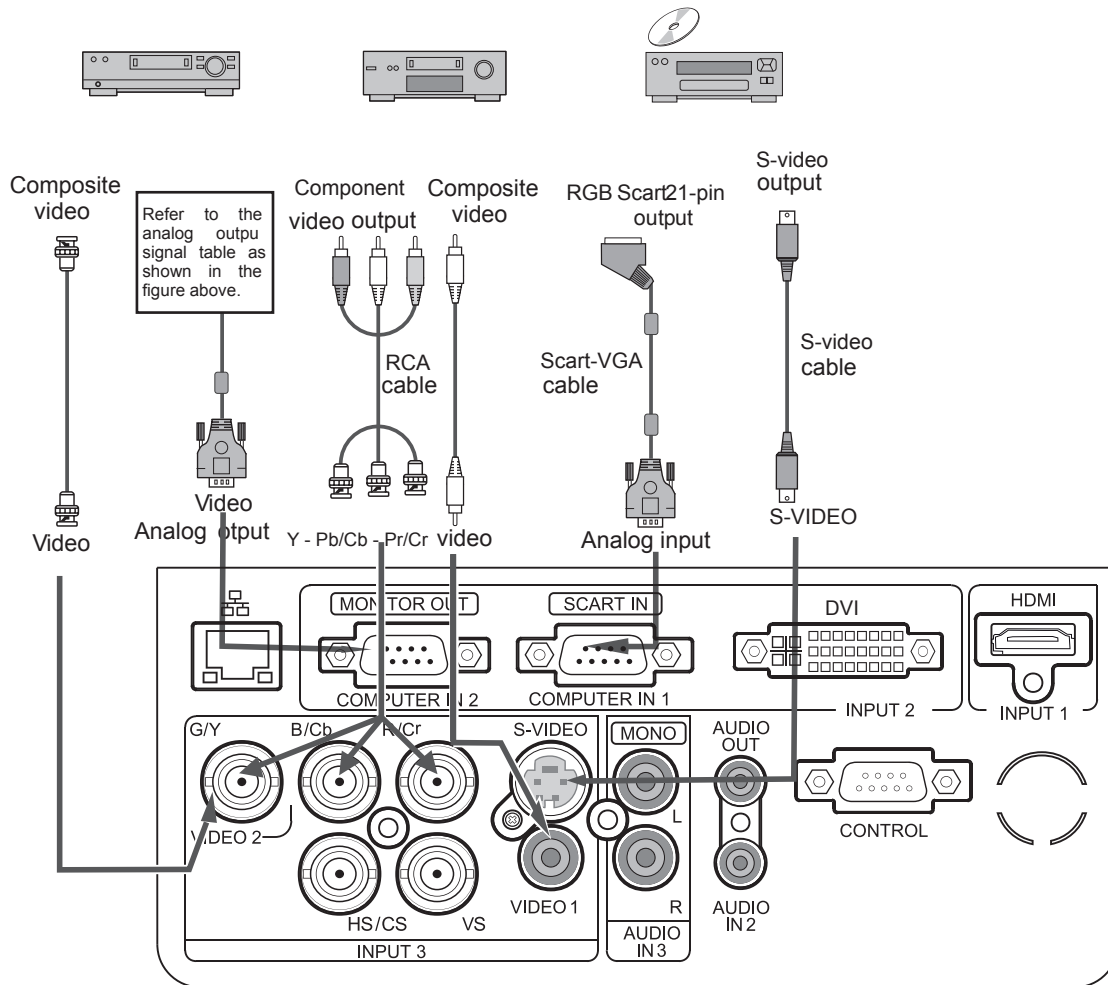


Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.

Connecting to video equipment

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

- Video cable (RCA* 1 or RCA*3) *
- BNC cable (BNC*1 or BNC*3) *
- S-Video cable *
- Scart-VGA cable *



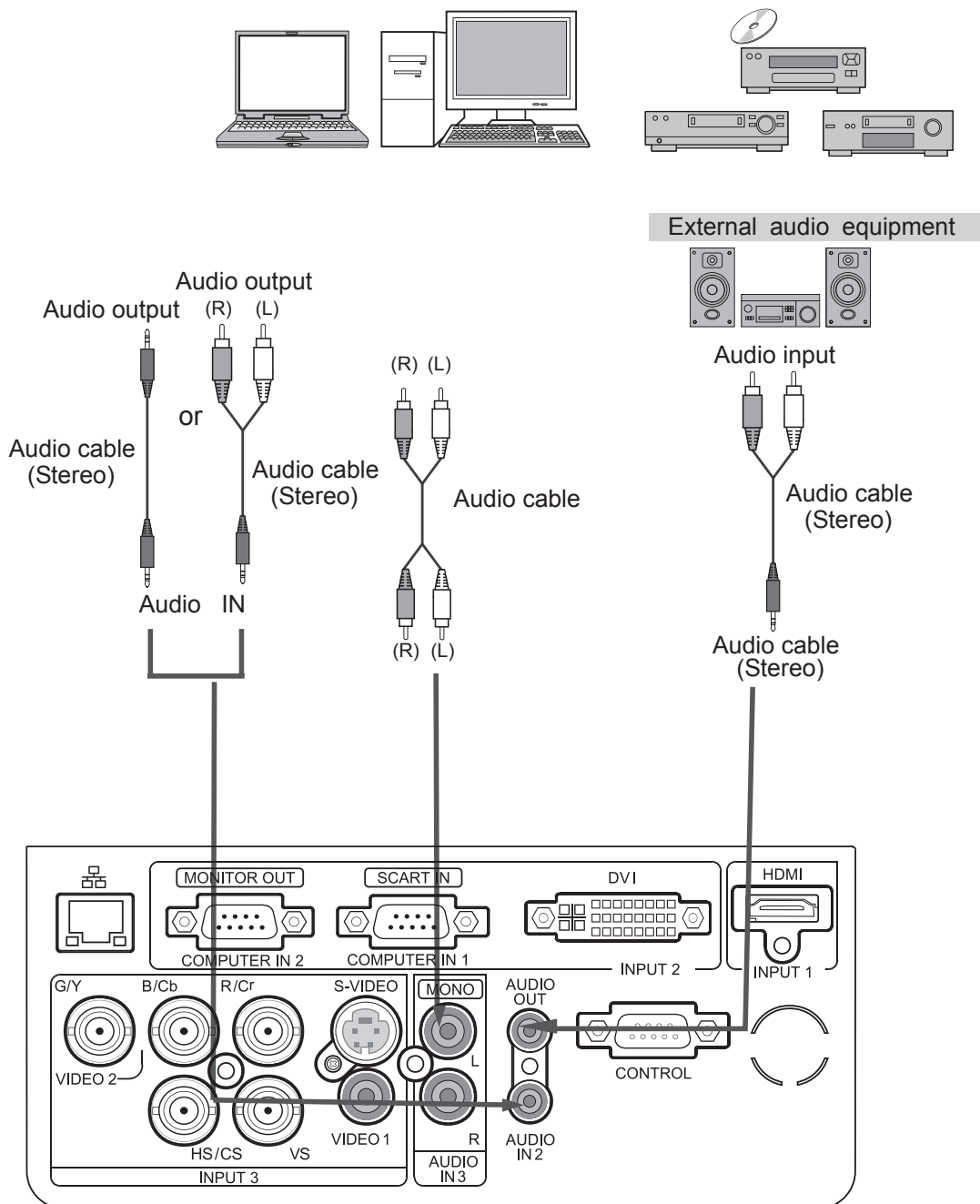
Unplug the power cords of both the projector and external equipment from the AC outlet before connecting the cables.

Installation

Connecting to audio equipment

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

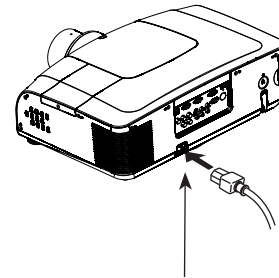
- Audio cable *



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

Connecting to the AC power cord

This projector uses nominal input voltages of 100–240 V AC and it automatically selects the correct input voltage. It is designed to work with a single-phase power system having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. If you are not sure of the type of power being supplied, consult your authorized dealer or service station. Connect the projector with all peripheral equipment before turning it on.



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



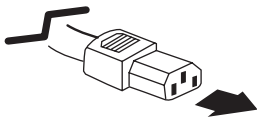
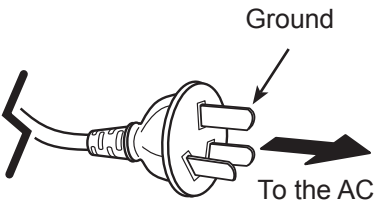
The AC outlet should be near this equipment and must be easily accessible.

✓ Note:

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

Note on the power cord

AC power cord must meet the requirements of the country where you use the projector. Confirm the AC plug type with the chart below and proper AC power cord must be used. If the supplied AC power cord does not match

Projector side	AC outlet side
 <p>To power cord connector on your projector.</p>	 <p>Ground</p> <p>To the AC outlet. (100-240 V AC)</p>

✓ Note:

- Using incorrect power cord may influence the product performance, or even cause hazards like an electric shock or fire. To ensure the product performance and security, please apply the cable of the same model with the original one.
- Common connecting cables include the AC power cord, various VGA cables, audio cable, video cable, and serial control cable.

Installation

Lens installation

Follow the instructions below to install the lens upon replacing or using the provided lens. For the specification of projector lens, contact your dealer.

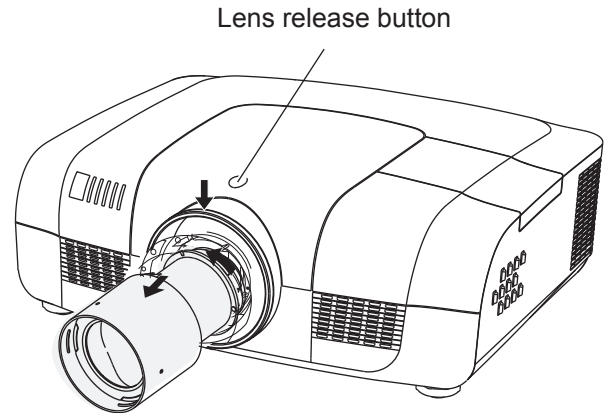
Removing the lens

- 1** Shift the lens to the center with the lens shift function.
- 2** Turn off the projector, and unplug the AC power cord.
- 3** Press and hold the lens release button on the top of the cabinet, and rotate the lens counterclockwise until the lens cannot be rotated. Draw it out slowly from the projector.



Caution

Do not drop the lens when handling.



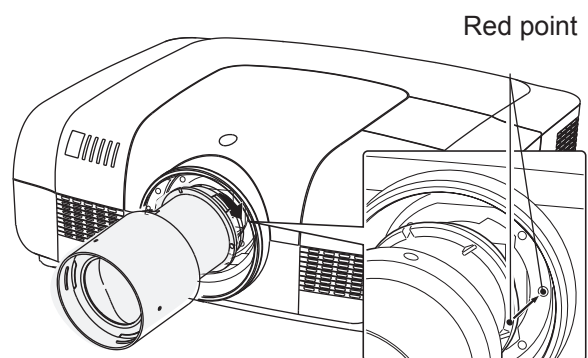
Installing the lens

- 1** Remove the lens decorator.
- 2** Align the red point on the lens with that on the projector to install the lens.
- 3** Rotate the lens clockwise slowly until it clicks. Make sure that the lens is the projector.



Caution

While installing the lens, do not hold the release button.



Notes on lens installation

- Do not touch or remove any part except lens and its relative part. This may cause a malfunction, electric shock, fire or other hazards.
- Make sure the mode of the lens is compatible with your projector before installing or replacing the lens.
- For information about the lens and its installation, contact the local dealer.

Basic operation

Turning on the projector

- 1 Complete peripheral connections (with a computer, VCR, etc.) before turning on the projector.
- 2 Connect the projector's AC power cord into an AC outlet. The POWER indicator turns red. Open the lens cap.
- 3 Press the ON/STAND-BY button on the top control or on the remote control. The POWER indicator becomes green and the cooling fans start to operate. The preparation display appears on the screen and the count down starts.
- 4 If the projector is locked with a PIN code, a PIN code Input Dialog Box appears. Enter the PIN code as instructed below.

✓ Note:

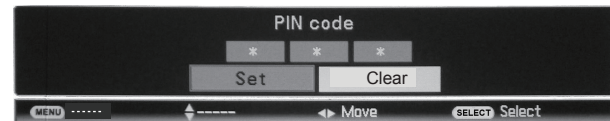
- When the logo select option is set to be "Off," the logo will not be displayed on the screen.
- When the display function is set to be "Off," the logo and countdown will not be displayed on the screen.
- During the countdown period, all operations are invalid except shutdown.

Enter a PIN code

Select a number by pressing the ▲▼ buttons, and then press the ► button to fix the number and move the cursor. The number changes to "***". If you fixed an incorrect number, move the cursor to the number you want to correct by pressing the ◀ button, and then select the correct number by pressing the ▲▼ buttons. Repeat this step to complete entering a three-digit number.

After entering the three-digit number, move the cursor to "Set", then you can start to operate the projector.

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



Move the cursor to Set, and press SELECT.

What is PIN code?

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

A PIN code consists of a three-digit number. Refer to the PIN code lock function in the Setting Menu on pages 46 for locking operation of the projector with your PIN code.

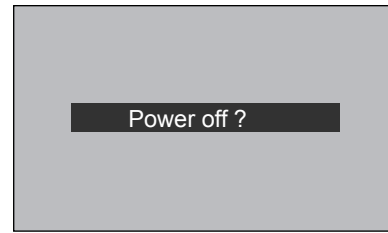


Caution on handling the PIN code

If you forget your PIN code, the projector can no longer be started. Take a special care in setting a new PIN code; write down the number in a column on page 64 of this manual and keep it at hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

Turning off the projector

- 1 Press the ON/STAND-BY button on the side control or on the remote control, and “Power off?” appears on the screen.
- 2 Press the ON/STAND-BY button again to turn off the projector. The POWER indicator starts to flash red, and the cooling fans keep running. (You can select the level of the fans' quietness and running speed.) At this time you can unplug the AC power cord even if the fans are still running.
- 3 When the projector has cooled down enough to be turned on again, the POWER indicator stops flashing.



“Power off” disappears after 4 seconds.



To maintain the lamp life, once you turn the projector on, wait at least 5 minutes before turning it off.



Do not operate the projector continuously without reset. Continuous use may result in shortening the lamp life. Turn off the projector and let it stand for about an hour in every 24 hours.

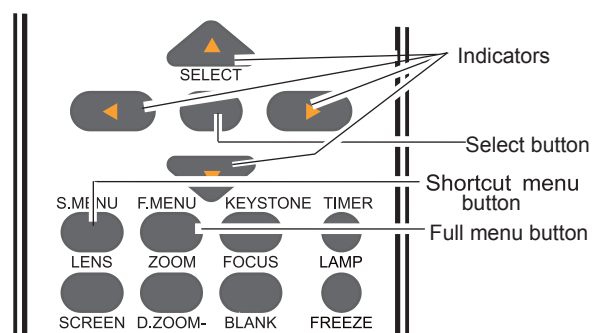
✓ Note:

- When the On start function is “On,” this projector is turned on automatically by connecting the AC power cord to an AC outlet (p. 44).
- The running speed of cooling fans is changed according to the temperature inside the projector.
- Do not put the projector in a case before the projector is cooled enough.
- If the WARNING indicator flashes or emits a red light, see “Warning Indicator”.
- While the POWER indicator is flashing, the lamp is being cooled down and the projector cannot be turned on. Wait until the POWER indicator turns red to turn on the projector again.
- The fan rotation will terminate directly if the AC power cord is unplugged immediately after the projector is turned off.
- The projector can be turned on after the POWER indicator turns red. The waiting time to restart will be shortened when the normal power-off processing for fan cooling is completed, comparing with the time the AC power cord is immediately unplugged after the power-off.

How to operate the on-screen menu

The projector can be adjusted or set via the on-screen menu, including Shortcut menu and Full menu. General operations are available via the shortcut menu. A full menu features multiple structures. Each main menu can be divided into several levels of submenus, and submenus are also divided into several levels of sub-submenus. For each adjustment and setting procedure, refer to the respective sections in this manual.

Remote control



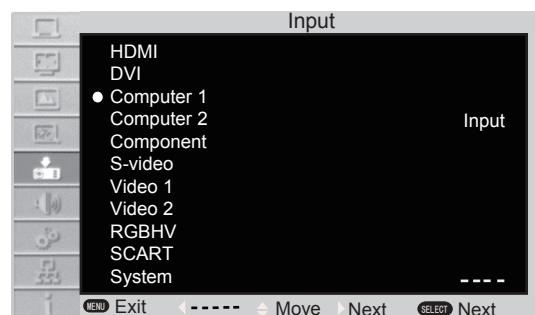
Shortcut menu

- 1 Press the menu button on the side control or the S.MENU button on the remote control to display the shortcut menu.
- 2 Press the ▲▼ buttons to select a menu entry. Press the ◀▶ buttons to adjust settings.
- 3 Press the menu button on the side control or the S.MENU button on the remote control again to quit the shortcut menu. Or press the SELECT button again to show the full menu.

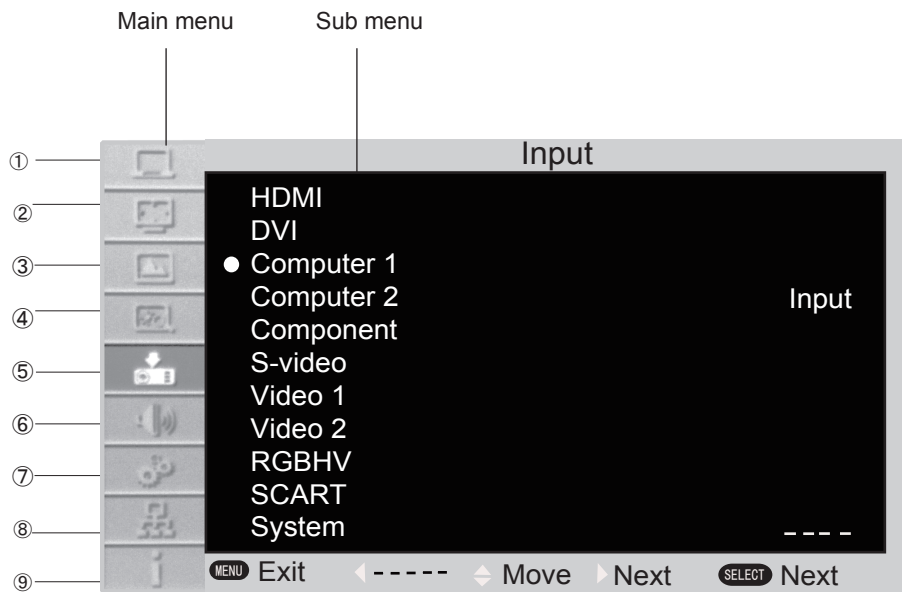
Full menu

- 1 Press the menu button on the side control to display the shortcut menu, and then the SELECT button again to show the full menu. Or you may directly press the F.MENU button to show it.
- 2 Press the ▲▼ buttons to select an entry in the main menu and then the ▶ button to access the submenu.
- 3 Press the ▲▼ buttons to select your required entry, and then press SELECT or the ▶ button to set or enter the submenu.
- 4 Press the ▲▼◀▶ buttons to adjust settings or switch among the entries. Press the SELECT button for corresponding operation and then return to the submenu.
- 5 Press the ◀ button to return to the previous menu. Press the F.MENU on the remote control again to quit the full menu mode.

Full menu



Full menu bar



(1) PC adjust menu

Used to adjust parameters, like Auto PC adj. , Fine sync , Total dots , Horizontal , Vertical , Clamp , Display area H , Display area V , Reset , Mode free , Store , to match with VGA input signal format.

(2) Screen menu

If a computer is selected as a signal source, the following setup options for the image size are available: Normal, True, Full, Custom, or Digital zoom +/-.

If video equipment is selected as a signal source, the following setup options for the image size are available: Normal, Full, Zoom, Wide, Natural wide, Cusrom.

(3) Image select menu

The available image modes are: Dynamic, Normal, Cinema, Blackboard (Green), Colorboard, or User Image.

(4) Image adjust menu

If a computer is selected as a signal source, the following image adjusting options are available: Contrast, Brightness, Color temp, Red, Green, Blue, Sharpness, and Gamma.

If video equipment is selected as a signal source, the following image adjusting options are available: Contrast, Brightness, Color , Tint , Red, Green, Blue, Sharpness, Gamma, Noise reduction, and Progressive.

(5) Input menu

Used to select input source, HDMI, DVI, Computer 1, Computer 2, Component, Video 1, Video 2, S-Video, RGBHV or SCART.

(6) Sound menu

Used to adjust the volume level or mute the sound.

(7) Setting menu

Used to configure the projector operation settings.

(8) Network menu

Used to access the network function.

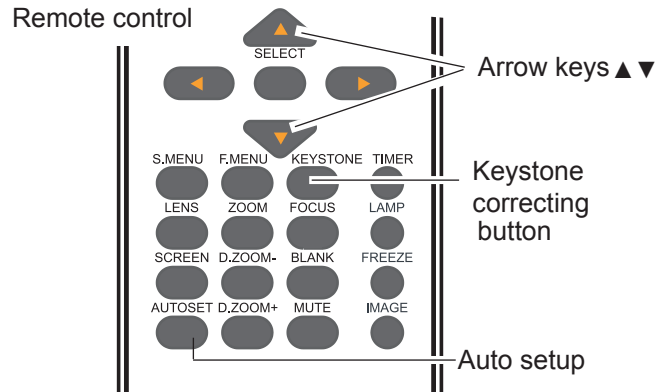
(9) Information menu

Used to display information.

Basic operation

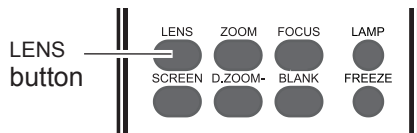
Auto setup function

This function is available just by pressing the Auto Setup button on the top control. The system then automatically performs various settings in the setup menu, including input source search, and auto computer adjustment.

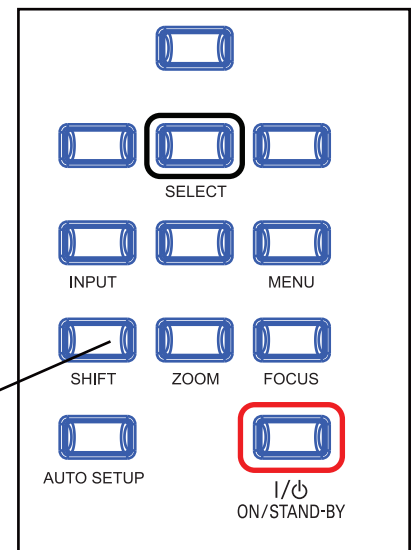


Lens shift Control panel (on the right side of the projector body)

1. Use SHIFT on the control panel or LENS of the remote control to adjust the lens.
2. "Lens shift" will jump out on the screen. According to the instruction, please use ▲▼◀▶ to move the image to the desired place without causing image distortion. The maximum shift range is $\pm 50^\circ$ vertically and $\pm 10^\circ$ horizontally.
3. Push SHIFT on the control panel or LENS of the remote control and hold on for at least 5 seconds to reset the lens to the center



Shift button

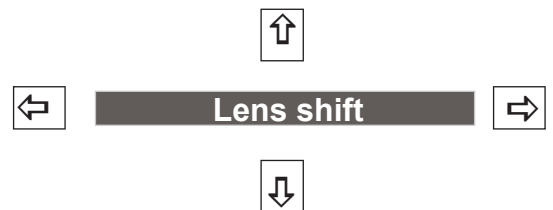


✓ Note:

- when the lens is in unshifted, the arrows turn green.
- when the lens is shifted, the arrows turn yellow
- when the lens reaches its maximum shift range, the arrows turn red.

Zoom adjustment

1. Push ZOOM on the control panel or ZOOM of the remote control to enter zoom adjustment.
2. "Zoom" will jump out on the screen. According to instruction, please use ▲ ▼ to zoom in or zoom out.



Focus adjustment

1. Push FOCUS on the control panel or FOCUS of the remote control to enter focus adjustment.
2. "Focus" will jump out on the screen. According to instruction, please use ▲ ▼ to adjust the focus.

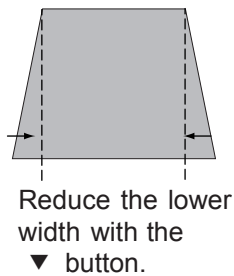
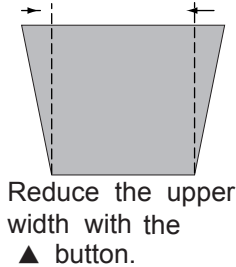
Zoom+

Focus+

Keystone

If a projected picture has keystone distortion, correct the image with the Keystone function.

Press the KEYSTONE button on the top control or on the remote control. The keystone dialog box appears. Correct keystone distortion with the arrow buttons ▲▼. Keystone adjustment can be stored.



Keystone



- The arrows are white when there is no correction.
- The direction of the arrows which are being corrected turns red.
- The arrows disappear at the maximum correction.
- If you press the KEYSTONE button on the top control or on the remote control once more while the keystone dialog box is being displayed, the keystone adjustment is canceled.
- The adjustable range can be limited depending on the input signal.

Sound adjustment

Direct operation

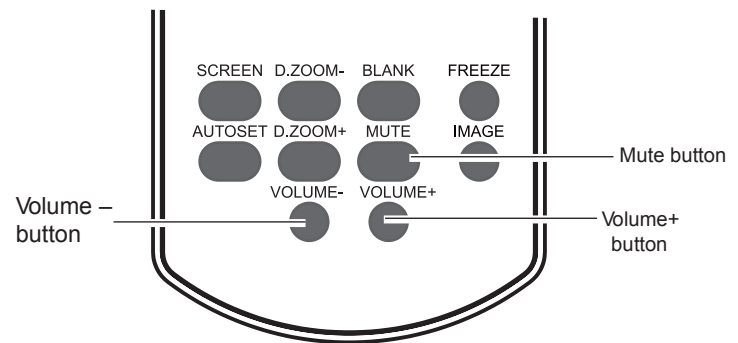
Volume

Press the VOLUME+/- buttons on the side control or on the remote control to adjust the volume.

Mute

Press the MUTE button on the remote control and select ON to turn off the sound temporarily. To restore the sound to its previous level, press the MUTE button again or press the VOLUME+/- buttons. Mute function is also effective for AUDIO OUT jack.

Remote control



Full menu operation

1. Press the F.MENU button to display the full screen menu. Use the ▲▼ buttons to move the cursor to the Sound Menu icon. Press SELECT or the ► button to enter the submenu entry.
2. Use the ▲▼ buttons to move the cursor to the desired item, and then press the SELECT button.

Volume

Press the ▲ button to increase the volume; press the ▼ button to decrease the volume.

Mute

Press the SELECT buttons to switch the mute function. After the sound is turned off, the mute dialog box display is changed to "On". To restore the sound, press the Volume +/- button.

Sound menu



Basic operation

Remote control operation

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

Direct INPUT button

Press the Computer/video/HDMI/ DVI/S-Video/RGBHV/ SCART/component button to select an input source.

FREEZE button

Press the FREEZE button to freeze the picture on the screen. To cancel the Freeze function, press the FREEZE button again or press any other button.

D.ZOOM button

Press the D.ZOOM button and use the ▲ ▼ buttons to access the digital zoom mode.

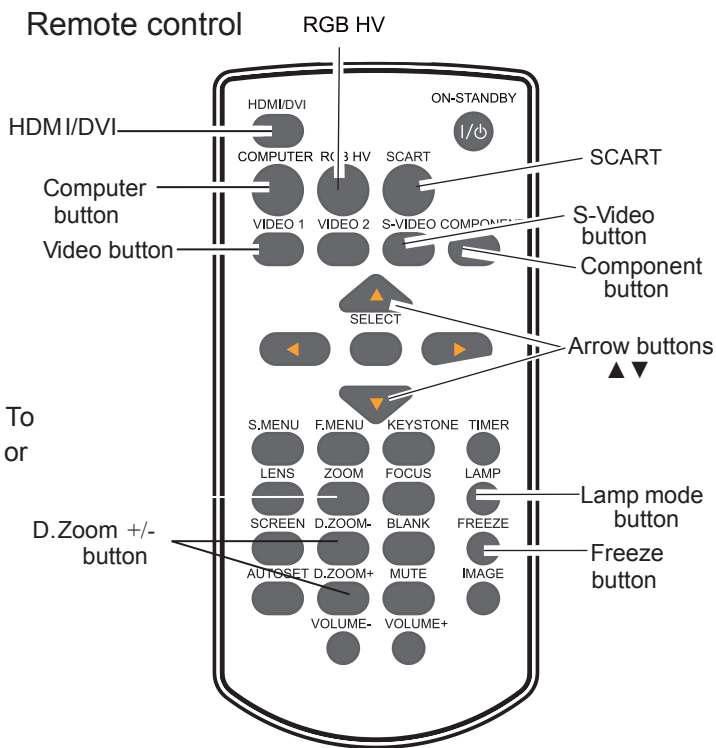
LAMP button

Press the LAMP button to select the lamp mode to change the brightness of the screen.

Normal ... Normal brightness

Auto Brightness changes according with the input signal, providing the contrast of images and thus more real images.

Eco Lower brightness reduces the lamp power consumption and extends the lamp life.



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

Basic operation

BLANK button

Press the BLANK button to black out the image. To restore to normal, press the BLANK button again or press any other button. The screen changes each time you press the button as follows.

Black out→Normal→Black out→Normal...



“Blank” disappears after 4 seconds if there is no other button operation.

TIMER button

Press the TIMER button. The timer display “00:00” appears on the screen and the timer starts to count time (00:00–59:59).

To stop the Timer, press the TIMER button. Press the TIMER button again, and then the Timer display disappears.

Timer display



IMAGE button

Press the IMAGE button on the remote control to select your required image mode.

SCREEN button

Press the SCREEN button on the remote control to select your required screen mode.

LENS button

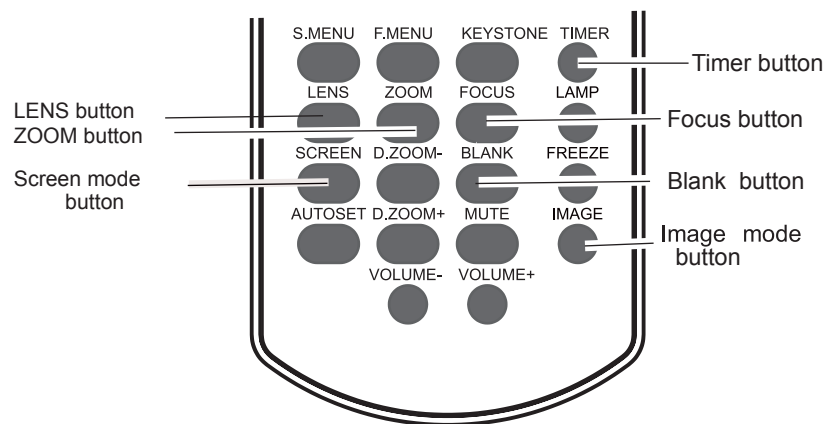
Press the LENS button on the remote control to adjust the lens position.

ZOOM button

Press the ZOOM button on the remote control to zoom in/out images.

FOCUS button

Press the FOCUS button on the remote control to adjust the focus of images.



√Note:

See the previous page for the description of other buttons.

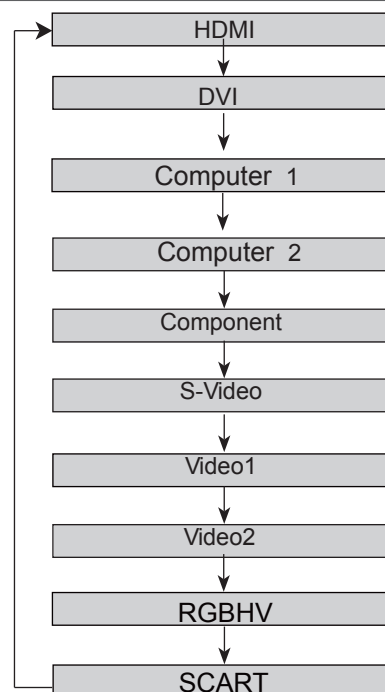
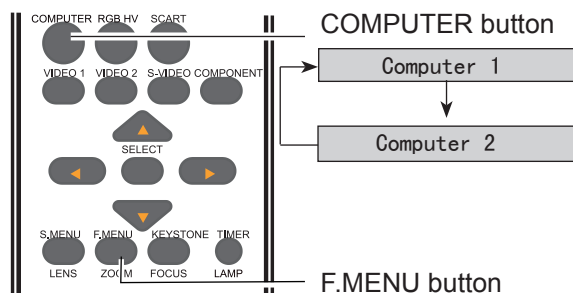
Computer input

Input source selection (Computer 1 or Computer 2)

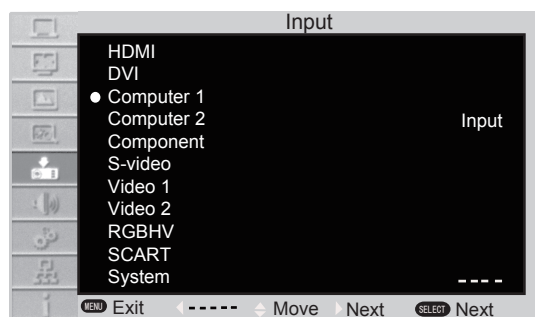
Direct operation

Press the INPUT button on the side control or the COMPUTER button on the remote control to select either Computer 1 or Computer 2

Remote control



Input menu



Full menu operation

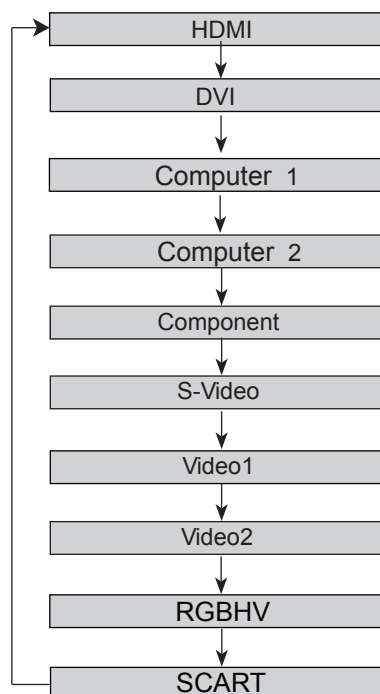
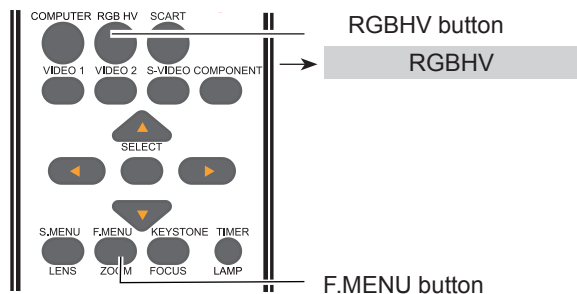
- 1 Press the F.MENU button to display the full screen menu. Use the ▲▼ buttons to select the input source icon and press the ► button or SELECT button.
- 2 Press the ▲▼ buttons to select Computer 1 or Computer 2 and then press the SELECT button.

Input source selection (RGBHV)

Direct operation

Press the INPUT button on the side control or the RGBHV button on the remote control to select RGBHV.

Remote control

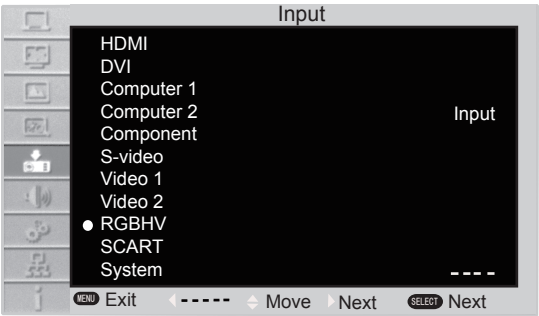


Computer input

Full menu operation

1. Press the F.MENU button to display the full screen menu. Use the ▲▼ buttons to select the input source icon and press the ► button or SELECT button.
2. Press the ▲▼ buttons to select RGBHV, and then press the SELECT button.

Input menu

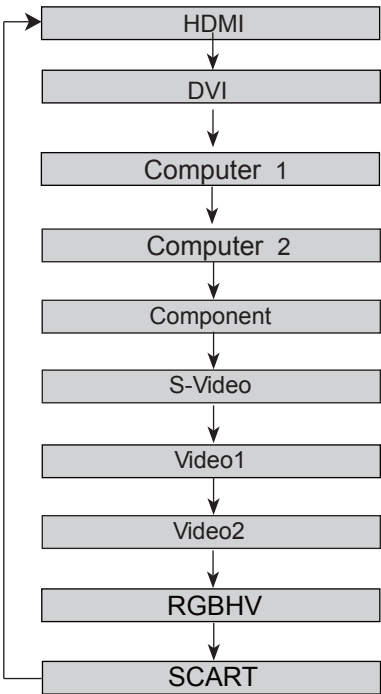
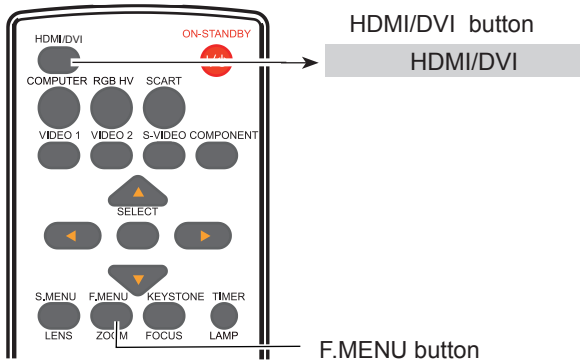


Input source selection (DVI)

Direct operation

Press the INPUT button on the side control or the DVI button on the remote control to select DVI.

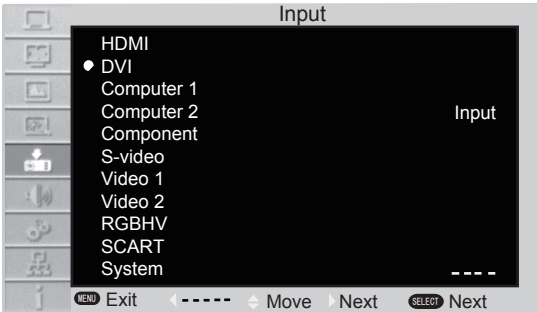
Remote control



Full menu operation

1. Press the F.MENU button to display the full screen menu. Use the ▲▼ buttons to select the input source icon and press the ► button or SELECT button.
2. Press the ▲▼ buttons to select DVI, and then press the SELECT button.

Input menu



Computer system selection

The projector automatically tunes to various types of computers with its function of Multi-scan system and Auto PC Adjustment. If a computer is selected as a signal source, the projector automatically detects the signal format and tunes to project proper images without any additional setting.

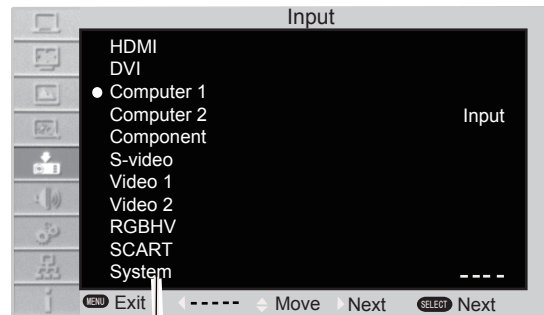
Auto

One of the following messages may appear when:

The projector cannot recognize the signal beyond the signal format table, “Auto” is displayed on the PC System Menu icon and the Auto PC Adjustment function works to display proper images. If images are not projected properly, adjust manually.

There is no signal input from computer. Check the connection between your computer and projector.

VGA system menu



The PC system menu displays the selected system.

Selecting computer system manually

The system can also be selected manually.

1. Press the F.MENU button to display the full screen menu. Use the ▲▼ buttons to select the input source icon, and press ► button or SELECT button.
2. Use the ▲▼ buttons to select System (Signal format), and press ► button or SELECT button.
3. Press the ▲▼ buttons to select your required system, and then press the SELECT button.

Computer input

Auto PC adjustment

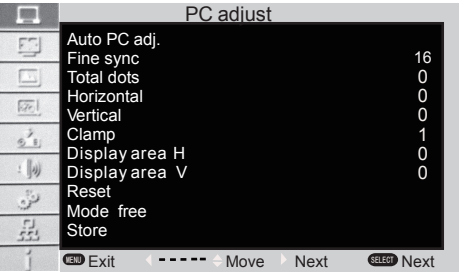
Auto PC Adjustment function is provided to automatically adjust total dots, horizontal position, vertical position, Display area H , and Display area V to conform to your computer.

Full menu operation

Auto PC adjustment

1. Press the F.MENU button to display the full screen menu. Use the ▲▼ buttons to select the PC adjust icon and press the ► button or SELECT button.
2. Press the ▲▼ buttons to select AUTO PC Adjustment, and then press the SELECT button.

PC adjust menu



To store the adjusted parameters

The system parameters adjusted in the Auto PC Adjustment can be stored in the projector.

✓ **Note:**

- Total dots and horizontal & vertical positions of some computers cannot be fully adjusted with this Auto PC Adjustment function. When the image is not provided properly with this operation, manual adjustments are required.
- The Auto PC Adjustment cannot be operated when 480i, 575i, 480p, 575p, 720p, 1035i, or 1080i is selected in the PC System Menu

Manual adjustment via PC

As some PCs adopt special signal formats, the multi-purpose scanner of the projector may not detect them. To match the special-format signals, the projector offers function of manual adjustment, with which users can adjust the parameters. the projector provides 5 independent memory sections, where the manually adjusted parameters can be saved. In the case of specific PC, the user can make use of the memory space to set up whenever necessary.

1. Press F. Menu to display the F. Menu. Press ▲▼ to select the icon for PC adjustment. Then press ► or press Select.
2. Press ▲▼ to select the item to be adjusted, and then press Select. At the time, the adjustment dialogue box will appear. Press ◀▶ to set the value.

Fine sync:

Use it to eliminate the flashing of the image. Press ◀▶ to adjust the value.

Total dots:

Press ◀▶ to adjust the total dots for a cycle so that it can match the image on PC.

Horizontal:

Press ◀▶ to adjust the horizontal position of the image.

Vertical :

Press ◀▶ to adjust the vertical position of the image.

Clamp:

Press ◀▶ to adjust the clamp position. When black strips appear on the image, you can use this function.

Display area H:

Press ◀▶ to adjust the area of horizontal projection.

Display area V:

Press ◀▶ to adjust the area of vertical projection.

Reset:

To re-set the adjusted data, you should select the initial state, and then press Select. Click Yes when the dialogue box appears for confirmation. After that, all adjusted value will return to the initial state.

Mode free:

To delete the saved data, you should select the Standby Mode, and press ► or Select. The mode to be deleted will be highlighted. At the time, click Select.

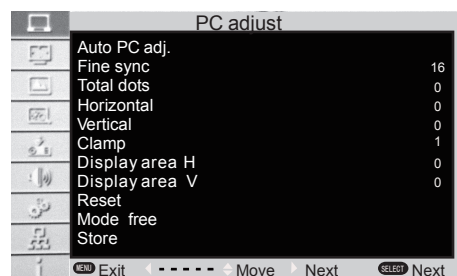
Store:

To save the adjusted data, you should select Save, and press ► or Select. Then move the cursor to select the saving mode from the items 1-5. Finally click Select.

√ Note:

If you select 480i, 575i, 480p, 575p, 720p, 1035i or 1080i from the system menu, the functions of both horizontal image and vertical image will be disabled.

PC adjust menu



Selecting image mode

Direct selection:

Use the key Image on the remote control to select the image mode.

Operation through F. Menu

1. Press F. Menu to display the F. Menu. Press ▲▼ to select the icon for Image select. Then press ► or press Select.
2. Press ▲▼ to select the desired item, and then press Select.

Dynamic

When the image is viewed in a bright room, select this mode.

Normal

This is the default image mode.

Cinema

Multiple grey scales can be selected, and it suits for watching movies.

Blackboard(Green)

This mode can be used to project the image on a green board to enhance the image quality. It mainly functions on a green board, not black board.

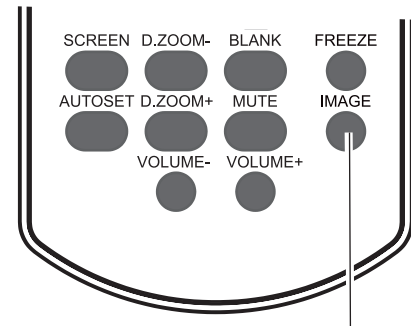
Colorboard

This mode is suitable for projecting the image onto the red, blue, yellow or green wallpaper.

User Image

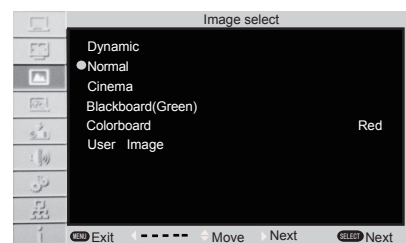
This is the image mode pre-set by in the image adjustment menu.

Remote control



Key for selecting an image mode

Image select menu



Adjusting image

1. Press F. Menu on the remote control to display the on-screen menu. Press ▲▼ to select the icon for image adjust. Then press ► or press Select.
2. Press ▲▼ to select the item to be adjusted, and then press Select. At the time, the adjustment dialogue box will appear. Press ◀▶ to set the value.

Contrast

Press ◀ to decrease the contrast and press ► to increase it.

Brightness

Press ◀ to decrease the brightness and press ► to increase it.

Color temp.

Press ◀▶ to select the desired color temperature (option are “ High ”, “Mid ” and “low”)

Red

Press ◀ to make the red color lighter and press ► to make it stronger.

Green

Press ◀ to make the green color lighter and press ► to make it stronger.

Blue

Press ◀ to make the blue color lighter and press ► to make it stronger.

Sharpness

Press ◀ to soften the image and press ► to sharpen it.

Gamma

Press ◀▶ to adjust the grey level to achieve better contrast and balance.



Note:

- After white balance (red), white balance (green) or white balance (blue) is adjusted, the color temperature will change to “User”.
- When Blackboard (Green) or colorboard is selected in the “ Image select ”, the color temperature will change to “Blackboard ” or “ colorboard ”

Adjusting screen size

The size of the screen can be re-set to the value the user desires.

1. Press F. Menu on the remote control to display the on-screen menu. Press ▲▼ to select the screen. Then press ► or press Select.
2. Press ▲▼ to select the desired item, and then press Select.

Normal

This function will make the width-height proportion of the projected image consistent with the input signals.

True

This item provides the image with the original size. If the original image is larger than the screen (1920X1200), the projector will automatically enter the selection mode for image display section. The user can press ▲▼◀▶ to select the image display section. During adjustment, the arrow turns red. When the max. value is reached, the arrow will disappear.

Full

This item provides normal video images with a width-height proportion 16:10

Custom

This item can help users manually adjust the proportion and position of the screen. When this item is selected, press ►. The indication of self-definition will appear on the screen. You can press ▲▼ to select the items to be adjusted.

Scale H/V : To adjust the horizontal/vertical proportion of the screen.

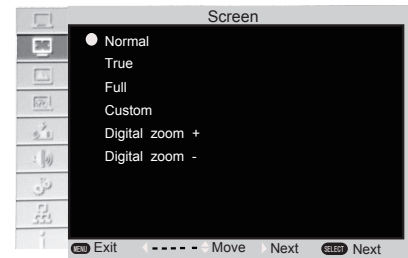
H&V: When this item is enabled, the width-height proportion will be locked. The vertical proportion is displayed in grey, meaning "disabled". You can adjust the horizontal proportion, and then modify the proportion of the screen on the basis of the width-height proportion.

Position H/V: To adjust the horizontal/vertical position of the screen.

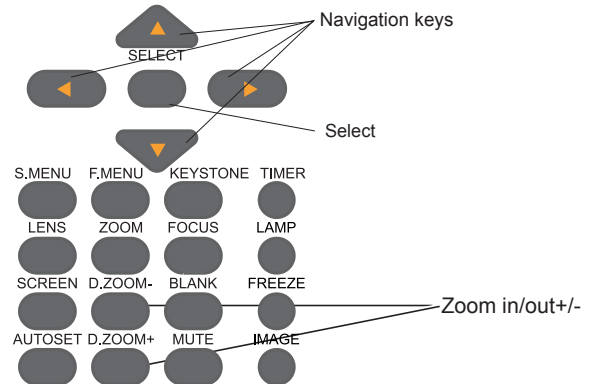
Common : Use this item to save input adjusted proportion. When you press Select at this item, a dialog box will pop up for confirmation. To save the proportion, press Select at Yes. If you select self-definition, the system will use the saved proportion.

Reset : This item allows you to re-set the adjusted values. In the initial state, press Select, and a dialog box will pop up for confirmation. To re-set the parameters, press Select at Yes.

Screen Menu



Remote control



Digital zoom +

After you select the digital zoom +, the on-screen menu will disappear, while the information on digital zoom + appears. You can press Select to zoom in the image size, and press ▲▼◀▶ to move the image horizontally and vertically

The moving is effective only when the image is larger than the size of the screen.

You can also press D.zoom + or select on the remote control to zoom in the projected image.

✓ Note:

- The projector can't display images with resolution higher than 1920×1200. If the resolution of the PC is high than this value, you should adjust it to a lower value beforeing to the PC.
- Image data other than WUXGA (1920X1200) will be modified to those adaptable to the screen size in the initial state.
- If no signal is detected in the menu of PC, True, Full and digital zoom +/- will be disabled.

Digital zoom -

After you select the digital zoom -, the on-screen menu will disappear, while the information on digital zoom - appears. You can press Select to zoom out the image size. You can also press D.zoom - or select on the remote control to zoom out the projected image.

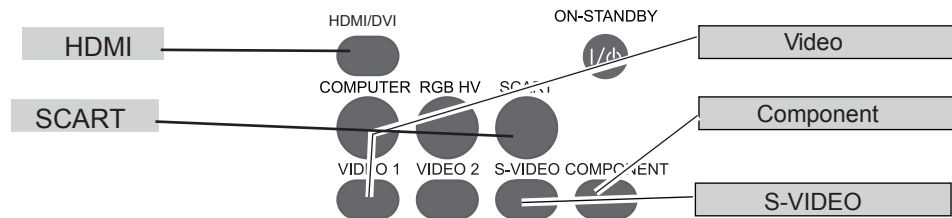
To exit the "digital zoom +/-" mode, press any button except the D.ZOOM +/- and the SELECT button

To return to Normal size, select "Screen" in the menu to adjust screen size, or enter a new input source in the menu "Input". Or use keys ▲▼ for digital zoom to adjust the screen size

Selecting input source (video, S-video, Component, SCART, HDMI)

Direct selection

Press the input key on the control panel at the side, or press Video, S-video, Component, SCART, HDMI on the remote control, to select Video, S-video, Component, SCART and HDMI

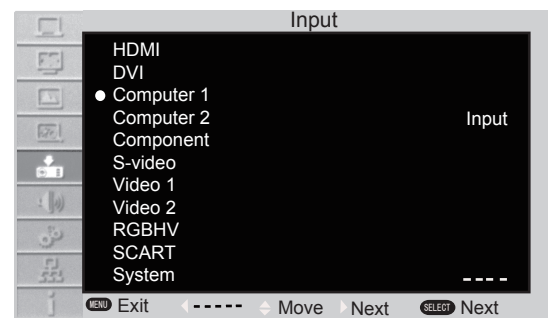


Remote control

Operation through menu

1. Press F. Menu on the remote control to display the F. Menu. Press ▲▼ to select the icon for input source. Then press ► or press Select.
2. Press ▲▼ to select "video" or "S-video", and then press Select.

Input menu



Component

Select "Component" if the input source is a video device connected to Y, Cb/Pb and Cr/Pr through the component VGA cable.

Video

Select Video when input video signal is connected to VIDEO terminal.

S-video

Select S-video when input video signal is connected to the S-video.

SCART

Select "SCART" if the input source is a video device connected to SCART IN/COMPUTER IN through the SCART VGA cable.

HDMI

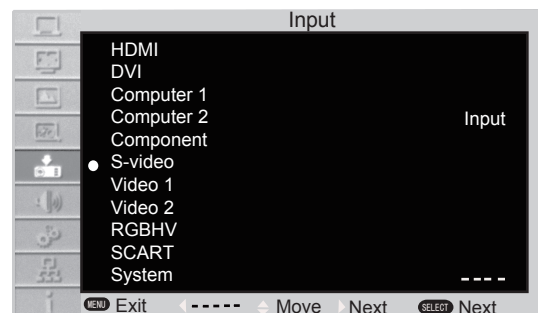
Connect to HDMI when the video signal is connected to HDMI terminal.

AV Input

Selecting AV system

1. Press F. Menu on the remote control to display the on-screen menu. Press ▲▼ to select the icon for input source. Then press ► or press Select.
2. Press ▲▼ to select “ Component”, “ video ” or “ S-video ”, and then press Select.
3. Press ▲▼ to select the system, and then press ► or press Select. Press ▲▼ to select the signal format, then press Select.

AV System Menu (Video or S-video)



Video or S-video.

Auto

The projector can automatically detect the input video system and optimize its own state. If the video system is PAL-M or PAL-N, you should manually select the system.

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

The projector if can't reproduce the image, you should select a specific signal format from PAL, SECAM, NTSC, NTSC 4.43, PAL-M and PAL-N.

Component

Auto

The projector can automatically detect the input video system and optimize its own state.

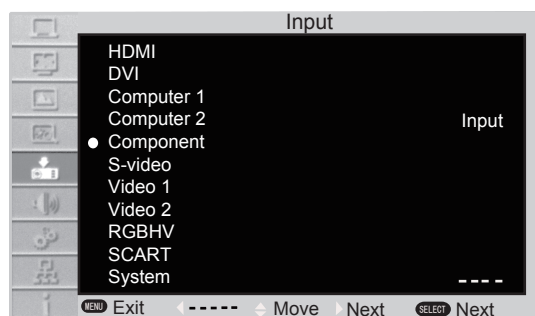
Component video signal format

The projector If can't reproduce the image, you should select a specific component video signal format from 480i, 575i, 480p, 575p, 720p, 1035i and 1080i.

√ Note:

- If SCART or HDMI is selected, AV system menu will be disabled.

AV System Menu (Component)



Selecting image mode

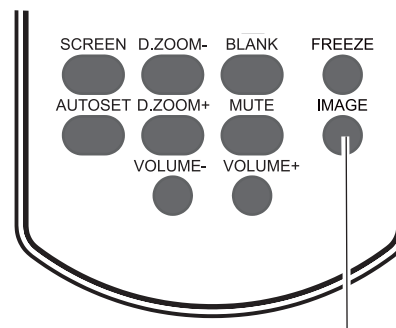
Direct selection:

Use the key Image on the remote control to select the image mode.

Menu selection

1. Press F. Menu to display the F. Menu. Press ▲▼ to select the icon for image select. Then press ► or press Select.
2. Press ▲▼ to select the desired item, and then press Select.

Remote control



Key for selecting an image mode

Dynamic

When the image is viewed in a bright room, select this mode.

Normal

This is the default image mode.

Cinema

Improved half-tone lifelike image mode.

Blackboard(Green)

This mode can be used to project the image on a green board to enhance the image quality. It mainly functions on a green board, not black board.

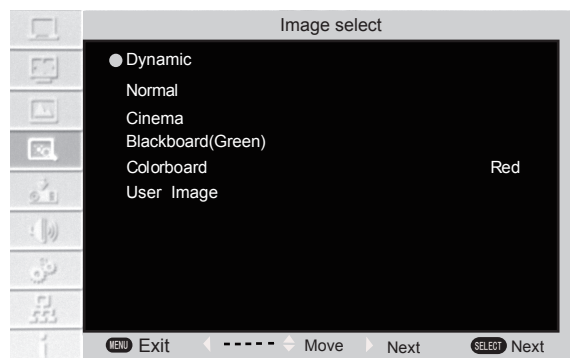
Colorboard

This mode is suitable for projecting the image onto the red, blue, yellow or green wallpaper.

User Image

This is the image mode pre-set by in the image adjustment menu.

Menu for selecting image quality



AV Input

Adjusting image

1. Press F. Menu on the remote control to display the on-screen menu. Press ▲▼ to select the icon for image adjust. Then press ► or press Select.
2. Press ▲▼ to select the item to be adjusted, and then press Select. At the time, the adjustment dialogue box will appear. Press ◀▶ to set the value.

Contrast

Press◀ to decrease the contrast and press ► to increase it.

Brightness

Press◀ to decrease the brightness and press ► to increase it.

Color

Press◀ to decrease the color gamut and press ► to increase it.

Tint

Press◀▶ to select the appropriate tone for the image.

White balance (Red)

Press◀ to make the red color lighter and press ► to make it stronger.

White balance (Green)

Press◀ to make the green color lighter and press ► to make it stronger.

White balance (Blue)

Press◀ to make the blue color lighter and press ► to make it stronger.

Sharpness

Press◀ to soften the image and press ► to sharpen it.

Gamma

Press◀▶ to adjust the grey level to achieve better contrast and balance.

Noise reduction

Enable this item to reduce the snow interference and achieve more smooth and clear image.

Progressive

The interlaced video signal can be converted into images in a progressive manner. You can select one from the options below:

OFF: Disabled;

L1: Projecting dynamic image;

L2: Projecting still image;

Film: This item is used for watching films. When it is selected, This projector will restore the images with high quality to reduce image distortion.



Adjusting screen size

The size of the screen can be re-set to the value the user desires.

1. Press F. Menu on the remote control to display the screen menu.

Press ▲▼ to select the screen. Then press ► or press Select.

2. Press ▲▼ to select the desired item, and then press Select.

Normal

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

Full

Provide full screen image

Zoom

Pan the horizontal direction of the image and cut the vertical direction of the image to fit the screen size (16:9).

Wide

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

Natural wide

Modify the image to fit the screen size by stretching the image to make it look natural

Custom

This item can help users manually adjust the proportion and position of the screen.

When this item is selected, press ►. The indication of self-definition will appear on the screen. You can press ▲▼ to select the items to be adjusted.

Scale H/V: To adjust the horizontal/vertical proportion of the screen.

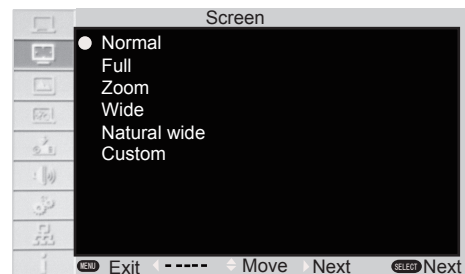
H&V: When this item is enabled, the width-height proportion will be locked. The vertical proportion is displayed in grey, meaning "disabled". You can adjust the horizontal proportion, and then modify the proportion of the screen on the basis of the width-height proportion.

Position H/V: To adjust the horizontal/vertical position of the screen.

Common: Use this item to save input adjusted proportion. When you press Select at this item, a dialog box will pop up for confirmation. To save the proportion, press Select at Yes. If you select self-definition, the system will use the saved proportion.

Reset: This item allows you to re-set the adjusted values. In the initial state, press Select, and a dialog box will pop up for confirmation. To re-set the parameters, press Select at Yes.

Screen Menu



Note:

- If no signal is detected, the system will be automatically set as normal state. At the time, the related dialog box disappears.
- The horizontal/vertical proportion and of horizontal/vertical position should be adjusted according to the input signal.

Setting

Setting

You can use the setting menu to configure the following functions.

1. Press F. Menu on the remote control to display the on-screen menu. Press ▲▼ to select Setting. Then press ► or press Select to enter the submenu.
2. Press ▲▼ to select the desired item to be adjusted, and then press ► or press Select to reach the selected item.
3. Press ▲▼ to select the desired item and then press Select.



OSD language

OSD languages include Chinese, English, French, Spanish, Portugal, German, Italian, Japanese, Korean, Russian, Finnish, Dutch, Thai, Vietnamese, Turkish, Afrikaans, Bahasa Indonesia, Arabic.

OSD setting

Press ▲▼ to select OSD setting. then press Select or ►.

Menu position:

You can use this function to change the position of on-screen menu. To do that, select menu position and press Select. Each time you press Select, the menu's position on the screen in the order

below:

Upper left→Upper right→Center→Lower left→
Lower right→Upper left→...

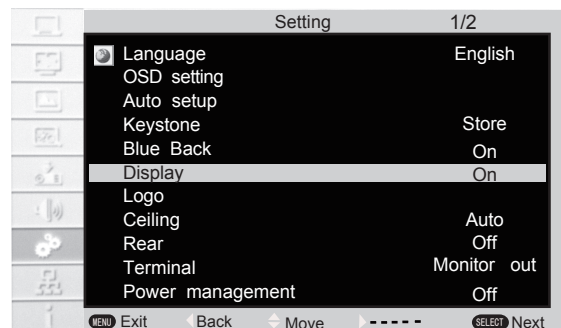
Translucent

This item allows you to change the transparency of the on-screen menu. Press ▲▼ to select from these options: Off, High, Mid and Low.

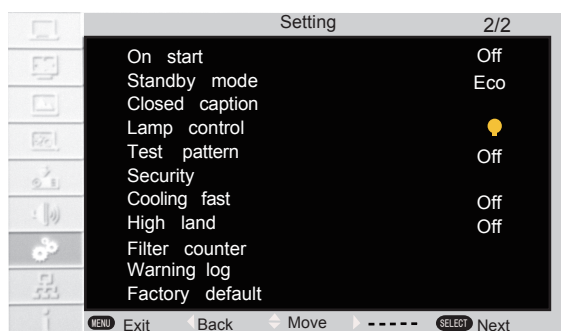
Background

This item allows you to change the background of the on-screen menu. Press ▲▼ to select from options 0-6.

menu



menu



Auto setup

This function enables Input search, and Auto PC adjustment by pressing the AUTO SETUP button on the top control or the AUTO SET button on the remote control. Settings for those can be altered as follows:

Input search

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

Off Input search will not work.

On.....Active Input Sourcing function. It detects the input signal and search stops when the signal is found.

Auto PC Adjustment

On.....Press Auto Set button on the Top Control or remote control to enable Auto PC Adjustment function.

Off Disables Auto PC Adjustment.

Keystone Correction

This function is used to store or reset the keystone correction when the AC power cord is unplugged. Use the Point ▲▼ buttons to switch between each option.

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

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

To correct keystone distortion, press the SELECT button.

Keystone appears on the screen. Use the Point ▲▼ buttons to correct keystone distortion.

Blue back

You can use this item to set the background of The time when no signal is detected.

You can press ▲▼ to switch over between the items below:

ON: To enable the blue background for projection;

OFF: To disable the blue background.

✓NOTE:

- Only the last selected input source can be detected.
- If the INPUT button on the top control or the COMPUTER 1/2 buttons, VIDEO or S-video or COMPONENT buttons on the remote control is pressed during Input search is in progress, Input search will stop and go back to the previous input signal.
- **Input Search, Auto PC Adj.** can not be set **Off** at the same time.
- **Fine sync., Total dots, Horizontal and Vertical** position of some computers cannot be fully adjusted with the Auto PC Adjustment function. When the image is not provided properly with this operation, manual adjustments are required.

Setting

Display

You can use this item to set whether the startup animation is displayed.

On..... Show startup screen

Off..... Show the input image instead of the on-start screen

Logo (Logo and Logo PIN code lock settings)

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

✓NOTE:

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

Logo select

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

User Show the image you captured.

Default Show the factory-set logo.

Off Show the countdown display only.

Capture

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

Select **Capture** and press the SELECT button. A confirmation box appears and select **Yes** to capture the projected image.

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

Logo PIN code lock

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

Off The screen logo can be changed freely from the Logo Menu.

On The screen logo cannot be changed without a Logo PIN code.

If you want to change the **Logo PIN code lock** setting, press the SELECT button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below.

Logo PIN code lock

Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to “*”. If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

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

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

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

Change the Logo PIN code lock setting

Use the Point ▲▼ buttons to switch **No** or **yes**, and then press the SELECT button to make a choice.

Logo PIN code change

Logo PIN code can be changed to your desired three-digit number. Press the SELECT button to select **Logo PIN code change**. **Logo Pin code** dialog box appears, use the Point ▲▼ buttons to enter the correct code. The New Logo PIN code input dialog box appears. Set a new Logo PIN code, confirmation box appears, choose **yes** to set the new Logo Pin code.

Be sure to note the new Logo PIN code and keep it on hand. If you lost the number, you could no longer change the Logo PIN code setting.

CAUTION:

WHEN YOU HAVE CHANGED THE LOGO PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE LOGO PIN CODE NO. MEMO ON PAGE 64, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

Setting

Ceiling

This function is used to project the image from a ceiling-mounted projector.

OffDisable this function.

AutoThe picture will be top/bottom and left/right reversed automatically.

On.....The picture will be top/bottom and left/right reversed.

Rear

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

Terminal

The COMPUTER IN 2/MONITOR OUT terminal on the back of the projector is switchable for computer input or monitor output. (See page 9) Select Computer or Monitor Out with the Point ▲ ▼ buttons.

PC 2Computer 2 Input

Monitor OutMonitor Output

Power management

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

Select one of the following options:

Ready When the lamp has been fully cooled down, the POWER indicator changes to green blinking.
In this condition, the projection lamp will be turned on if the input signal is reconnected or any button on the top control or remote control is pressed.

Shut down When the lamp has been fully cooled down, the power will be turned off.

Off Power management function is off.

Timer If the input signal is interrupted and no button is pressed for more than 30 seconds, the timer display with No signal appears. It starts the countdown until the lamp is turned off. Use the Point ▲ ▼ buttons to set the Timer(1~30min.).

✓ NOTE:

Factory default is Ready: 5 Min.

Power management



Time left before Lamp is off.

On start

This function enables projector auto power on with detection connection with AC power cord.

Standby mode

This function is available when operating the projector via network.

- Normal Supply the power to the network function even after turning off the projector. You can turn on/ off the projector via network, modify network environment, and receive an e-mail about projector status while the projector is powered off.
- Eco Select Eco when you do not use the projector via network. The projector's network function will stop when turning off the projector.

Closed Caption

Closed Caption is a text version of the program sound or other information displayed on the screen. If the input signal contains closed captions, you can turn on the feature and switch the channels. Press the Point ▲ ▼ buttons to select Off, CC1, CC2, CC3 or CC4.

If the closed caption is not clear, you can change the text from Color to white.

✓ NOTE:

The Closed Caption is available only under the situation below.

- When the input signal is NTSC of component and S-video, and the system is set according to the signal or set on **Auto**.
- The system must be set on **NTSC** or **Auto** in Video System Selection. (P.36)
- The icon of Closed Caption is displayed in gray while it is not available.
- The Closed caption is unavailable when On-Screen menu and Timer are displayed.

Lamp Control

This function allows you to change brightness of the screen.

- Normal Normal brightness
- Eco Lower brightness reduces the lamp power consumption and extends the lamp life.
- Auto Brightness is adjusted according to the input signal.

Test Pattern

This function enables you to test & set interior signals.

Security (Key lock and PIN code lock)

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

Key lock

This function locks the top control and remote control buttons to prevent operation by unauthorized persons. Select **Key lock** and then press the SELECT button, and select the desired item by pressing the Point ▲ ▼ buttons.

Off Unlocked.

Projector Lock the operation of the top control. To unlock, use the remote control.

Remote Control Lock the operation of the remote control. To unlock, use the top control.

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

PIN code lock

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

Off Unlocked.

On Enter the PIN code every time turning on the projector.

Whenever you change the PIN code lock setting or the PIN code (the three-digit number), you are required to enter the PIN code. The “111” is set as the initial PIN code at the factory.

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

Enter a PIN code

Use the Point ▲▼ buttons to enter a number. Press the Point ► button to fix the number and move the red frame pointer to the next box. The number changes to “*”. If you fixed an incorrect number, use the Point ◀ button to move the pointer to the number you want to correct, and then enter the correct number.

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

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

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

Change the PIN code lock setting

Use the Point ▲▼ buttons to select Yes or No, and then press the **SELECT** button to make a choice.

PIN code change

The PIN code can be changed to your desired three-digit number. Press ▲▼ SELECT button to select PIN code change. Pin code dialog box appears, use the Point ▲▼ buttons to enter the correct code. The New PIN code input dialog box appears. Set a new PIN code.

CAUTION:

WHEN YOU HAVE CHANGED THE PIN CODE, WRITE DOWN THE NEW PIN CODE IN COLUMN OF THE PIN CODE NO. MEMO ON PAGE 64, AND KEEP IT SECURELY. IF YOU FORGET YOUR PIN CODE, THE PROJECTOR CAN NO LONGER BE STARTED.

Cooling fast

There are the following options in the cooling fans operation when the projector is turned off.

ON ... Faster and louder-sound than the normal operation, but it takes less time to cool the projector down.

OFF ... Normal operation.

High land

This projector provides Fan control function in the "Setting" menu. Choose the running speed of cooling fans from the following options according to the ground elevation where you use the projector.

Off.....Normal speed.Set this function to "Off" when using the projector in non-high altitude environment.

ON (1).....The fan runs faster than normal speed. When operated in places with high altitude (2000m), the cooling fan will produce weaker effects. So, you should select this item.

ON (2).....The fan runs faster than "ON (1)". When operated in places with high altitude (above 3000m), the cooling fan will produce weaker effects. So, you should select this item.

Filter counter

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

When the projector reached a specified time between cleanings, a Filter warning icon appears on the screen, notifying the cleaning is necessary. After cleaning the filter, be sure to select RESET and set the timer. The Filter warning icon will not turn off until the filter counter is reset.

Factory default

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

Information

Displaying input source

The information menu is used to detect signal of projected image and running state

Operation through menu

Press ▲ ▼ to select the information. And the information menu will appear.
You can then see the information displayed as follows:

Menu Operation

Press menu on the Top Control and then press SELECT button to display on screen menu. Press the Point ▲ ▼ buttons to select the Information. The Information Menu is displayed.

See below for displayed information.

Input

The selected input source is displayed.

H-sync freq .

The horizontal frequency of the input signal is displayed in KHz, or - - - -KHz when no signal.

V-sync freq .

The vertical frequency of the input signal is displayed in Hz, or - - - - Hz when no signal. Numbers of Hz doubles when during Interlace.

Screen

The selected screen size is displayed.

Language

The selected language is displayed.

Lamp status

The selected lamp mode is displayed.

Lamp counter

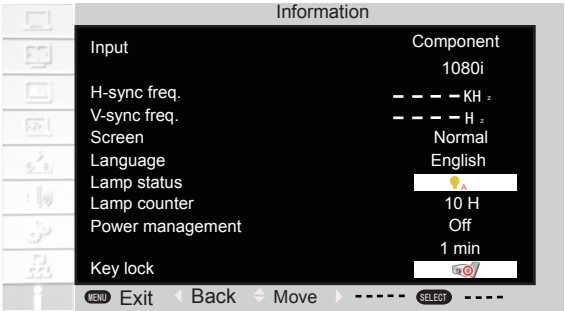
The cumulative lamp operating time is displayed.

Power management

Off, Ready or Shut down is displayed.

Key lock

Display Off, Remote Control or the Projector.



“Warning Temper” indicator

The “Warning Temper” indicator tells in what protection state engaged. The user should check the “Warning Temper” indicator and power indicator to make sure they work.

Projector is in OFF state, and “Warning Temper” indicator flashes red.

When its internal temperature exceeds the normal value, will be automatically powered off to protect the parts.

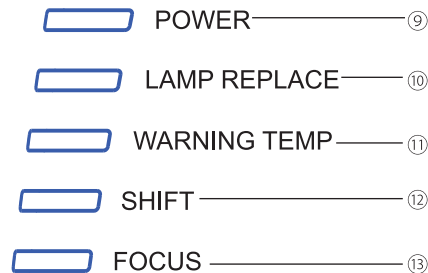
When in a cooled state, the power indicator will blink.

When it is cooled enough (restore the normal operating temperature), you can press the power key to start up the system.

√ **Note:**

When restores its normal operating temperature, the “Warning TEMP” indicator will flash continuously. If you re-start the projector, it will stop flashing.

On-top control panel



“Warning TEMP” indicator is illuminated red.

Check the items below:

- Whether the site where installed is well ventilated, and whether the vent is blocked.
- Whether installed near the vent of air conditioner. Note it can not be installed at that place.
- Whether the filter is clean. You should clean it regularly.

Projector is in OFF state, and “Warning TEMP” indicator is illuminated red.

When any abnormality is detected, The projector will be automatically powered off to protect its internal parts. At the time, the “Warning TEMP” indicator will be illuminated red. In this case, you should unplug the power cord and plug it again, then power on the projector again for check. If the projector is still in OFF state and “Warning TEMP” indicator is illuminated red, you should unplug the power cord and contact the repair center for maintenance.



Note:

When abnormality occurs, the user should cut off the AC power. Otherwise, it may lead to fire or electric shock.

Maintenance

Cleaning the filter

The filter prevents dust from accumulating on the surface of lens assembly. Should the filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a Filter warning icon appears on the screen, you should clean the filter immediately. To do that, follow the steps below:

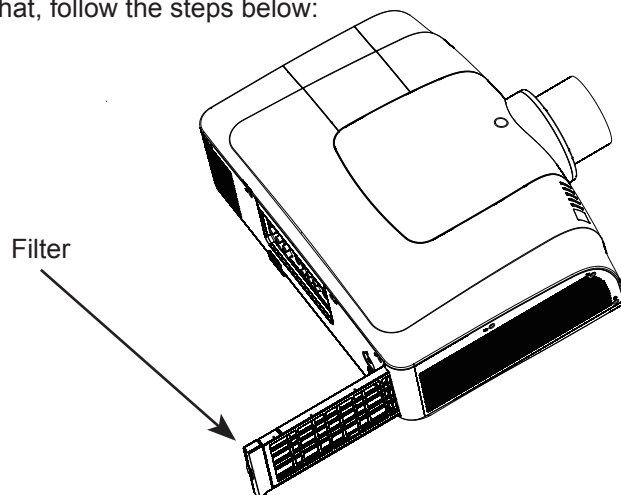
1. Turn off the projector, and unplug the AC power cord from the outlet.
2. Remove the air filter from the projector.
3. Brush the filter clean.
4. Install the filter onto the projector again and make sure it is secured properly.



Note:

Do not operate the projector when the filter is removed. Otherwise, dust will be accumulated on lens and thus affect the image quality.

Never attempt to place any objects to the air intake vents. Otherwise, the projector may malfunction.



Note:

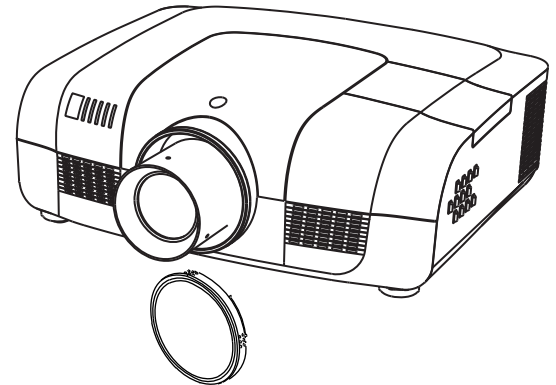
Keep from dust and smog. Otherwise, the image quality may deteriorate. When operated in an environment with dust and smog, the dust and dirt will accumulate on its lens, liquid crystal board or the lens assembly inside the projector. If that happens, you should contact the local distributor or repair center for correct cleaning.

Resetting the filter counter

1. Press F. Menu on the remote control to display the F. Menu. Press ▲▼ to select the icon for the setting menu. Then press ► or press Select.
2. Press ▲▼ to select Filter counter, and then press ► or press Select. Press ▲▼ to select Reset Filter, then press Select. At the time, you will see the prompt information "Reset the filter counter?" displayed on the screen. Select Yes.
3. When another dialog box pops up, you should select Yes and reset the filter.

Covering the lens properly

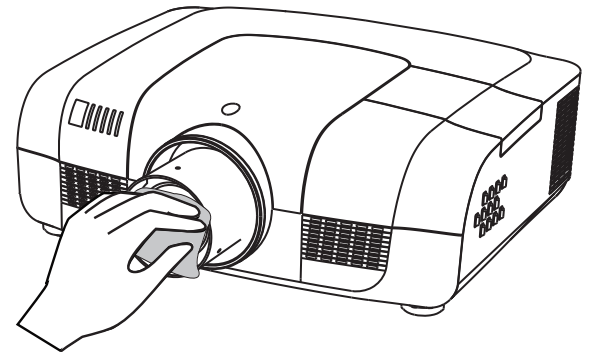
If needs to be moved or won't be used for extended period of time, you should cover the lens properly.



Cleaning the lens

Unplug the AC power cord before cleaning.
Apply some non-abrasive cleaning agent exclusively designed for cameras onto a piece of clean cloth, and then use it to wipe the lens gently. Or you can use cleaning paper or commercial blower to clean the lens.

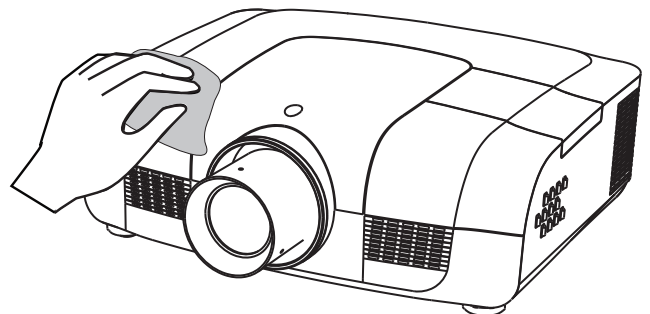
Avoid excessive use of cleaning agent. Abrasive cleaning agent, solvent or other coarse chemicals may scratch the lens.



Cleaning the projector's shell

Unplug the AC power cord before cleaning.
Use a piece of clean cloth to gently wipe the surface of projector. If the projector is quite polluted, you can apply some neutral cleaning agent onto a piece of clean cloth, and use it to wipe the shell. Avoid excessive use of cleaning agent. Abrasive cleaning agent, solvent or other coarse chemicals may scratch the lens.

When not used, you should put it into a bag to avoid dust and scratch.



Maintenance

Replacing the lamp

When the service life of the projection lamp is over, the icon suggests that the lamp needed to be replaced will appear on the screen, and the indicator for the replacement will flash yellow. If so, you should immediately replace it with a new one of the same model. The flashing time of the replacement indicator is subject to the lamp mode.



Note:

As temperature inside the projector is high, you should cool the projector for at least 45 minutes before you open the lamp cover.



Note:

For the sake of safety, only use the lamp of the same model. Never drop the lamp onto the ground nor touch the glass bulb! The glass can shatter and hurt.

Note:

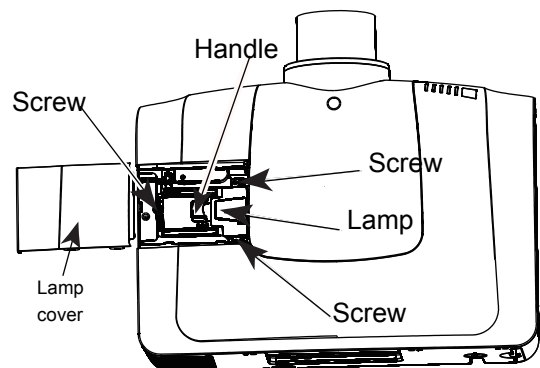
When the lamp isn't illuminated, it may indicate that the lamp has been damaged.



When you replace the lamp in a projector installed on the ceiling, you should stand beside the lamp cover but not under it; for the broken glass may fall down to hurt you. To do that, remove the lamp cover gently to avoid being hurt by the dropped glass. If glass drops into your eyes or mouth, you should see the doctor immediately.

To replace the lamp, follow the steps below:

1. Power off the projector and unplug the power cord. Then let the project cool for at least 45 minutes.
2. Loosen the screws on the lamp cover and open the cover.
3. Make sure the lamp is well protected and remove two screws. Hold the handle and pull out the lamp.
4. Install a new lamp with the same model and tighten the two screws. Make sure the installation is correct. Put lamp cover in place and then tighten the screws.
5. Plug the AC power cord and power on the projector.



Changing the lamp model

Purchasing new lamps

Users can buy new lamps through the local distributor. Your purchase order should include the information below:

- Lamp model : APU-L8



LAMP HANDLING PRECAUTIONS

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

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

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

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

Appendix

Troubleshooting

Before you contact the local distributor or repair center, you may check the items below once again.

- Make sure you have properly connected to the peripheral equipment.
- Make sure all equipment has been connected to AC power source and the power source is in ON state.
- If it can't project image output from a PC, please re-start the PC.

Failure	Solution
Machine can't be powered on	<ul style="list-style-type: none">-Plug the power cord of the projector into the AC power outlet.-Check whether the power indicator turns red.-Only when the power indicator turns red can you power on the projector again.-Check the Warning Temp indicator. If it is illuminated red, you can't power-Check the projection lamp.-Unlock the "key lock" function.
No initial displaying	<ul style="list-style-type: none">-Make sure both displaying and count-down functions are enabled.
Initial displaying is inconsistent with factory defaults	<ul style="list-style-type: none">-Make sure the item User or OFF is not selected in the startup animation.
Input signals are automatically switched (can't be switched)	<ul style="list-style-type: none">-Adjust the search function of input source properly.
When input is pressed during startup, a non-Lamp icon appears.	<ul style="list-style-type: none">-This icon warns that the filter needs to be replaced.
An icon of non-input mode or lamp mode appears	<ul style="list-style-type: none">-This icon indicates the replacement of lamp or warns for the filter.
Ambiguous images	<ul style="list-style-type: none">-Adjust the focus-Set a more proper projection distance.-Check whether the lens needs to be cleaned.-When moved from a environment with low temperature to the one with higher temperature, water will be condensed on the lens. If so, you have to wait till the condensed water disappears.
Image turns over leftward/rightward Image turns over upward/downward	<ul style="list-style-type: none">-Check the function of "ceiling/rear".-Check the function of "ceiling".
Image not bright enough	<ul style="list-style-type: none">-Check whether the contrast or brightness is adjusted correctly.-Check whether the image mode is properly selected.-Check the function of lamp brightness adjusting.-Check the lamp and replace the indicator. If the indicator is illuminated, it means the service life of the lamp is over. You should replace the lamp with a new one of the same model immediately.

No image	<ul style="list-style-type: none"> -Check the connection between PC or video equipment -Check with the signal from PC is correct. If connected to certain laptops, the settings of their video adapters need to be changed. You can refer to the operating instructions of the PC for such modification. -Images can show up only about 20 seconds after the projector is powered on. -Check the input signal, color system, video system or PC system mode. -Make sure that the temperature doesn't exceed the permitted operating temperature (41°F–95°F [5°C–35°C]). -If non-displaying function is enabled, no image will appear on the screen. You can then press the non-display key or other keys.
No sound is heard.	<ul style="list-style-type: none"> -Check that the audio cable from the input source is correctly connected. -Adjust the audio source. -Press the key “+”. -Press the key “Mute”. -If the audio cable is inserted into the port AUDIO OUT, the internal speaker of the projector will be disconnected. -Is there any image projected? Only when the image appears on the screen, can the sound be heard.
Abnormal color	<ul style="list-style-type: none"> -Check the input signal, color system, video system or PC system mode. -Make sure the green board is not selected in the item “image quality”.
Some information can't be seen in the operation.	<ul style="list-style-type: none"> -Check the function of displaying.
Automatic adjustment through PC can't be effective.	<ul style="list-style-type: none"> -Check the signal of input source. Automatic adjustment through PC won't be effective when 480p, 575p, 720p, 480i, 575i, 1035i or 1080i is selected.
Settings can't be saved after the system is powered off.	<ul style="list-style-type: none"> -Make sure you have selected “store” after you changed the settings. Some settings can't be saved if “store” is not selected.
Ineffective power control	<ul style="list-style-type: none"> -When the system is standstill, or no-display function is enabled, the power control is ineffective.
Ineffective icon selection	<ul style="list-style-type: none"> -Check the wiring and the signal of input source, and make sure there is signal.
Ineffective automatic setting	<ul style="list-style-type: none"> -Make sure all functions in automatic setting are enabled. -Make sure the function of ceiling is not enabled.

Distorted image or no image	-Check and adjust the PC menu or on-screen menu.
The PIN code dialog box pops up in the startup process	-A PIN code is set for locking.
Remote control doesn't work	-Check the battery. -Make sure there is no obstacle remote control. -To use the remote control, keep it within 5 meters away from the projector. -Make sure the code of the remote between the projector and the projector. -Unlock the key through the setup menu.control is consistent with the
The indicator is illuminated or flashes	-Check the state of the projector according to the indicator.
Exclamatory point appears on the screen	-Ineffectiveoperation. You should operate the system correctly.
The side control panel doesn't work	-Unlock the keys on the side control panel through the item "security" in the setup menu.
PIN code lock for startup animation, key lock and PIN code lock can't be unlocked.	-Contact the local distributor or the repair center.



















































Warning:

Is operated with high voltage. Do not open its casing!

If the problem still exists after you take the aforesaid measures, you should contact the local distributor or the repair center and tell the machine model. The projector will tell you how to handle the issue.

Indicator and projector state

Check the indicator to know about the state of projector.

Indicator					State of projector
POWER (Green/red)	WARNING (Red)	LAMP (Yellow)	SHIFT (Blue)	FOCUS (Green)	
					Is in power-off state (AC power cord not inserted).
					Is in standby state. Press ON/STNADBY to power on the projector.
					Is in normal working state.
					Is ready to be in standby mode or the projection lamp is being cooled. Before you power on the projector, you should wait till the lamp is cool enough and the power indicator flashes.
					Is in suspension state. Internal temperature too high. can't be powered on. When the projector is cool enough, the temperature is restored to the normal value and the power indicator is illuminated red, you can then power on the projector (The indicator Warning Temp keeps on flashing).
					When the projector is cool enough, the temperature is restored to the normal value and the power indicator is illuminated red, you can then power on the projector, At the time, the indicator Warning Temp stops flashing.
					Can't be powered on because error is detected. You should unplug the power cord. Then insert it again and power on the projector. If the projector is powered off again, you should cut off the power and contact the local distributor or repair center. In this case, stop the projector. Otherwise, electric shock or fire may occur.
					The service life of the lamp is over. You should replace it with a new one in time.
					Lens is moving and being adjusted.
					Focus being adjusted.

 green


 red

 blue

 yellow

 off

 green flash

 red flash

*When the projector bulb reaches its endurance, the indicator light will be yellow and you need to change the bulb.

Appendix

Compatible PCs

Is compatible with all analog and digital signal formats under 160MHz of DCLK, whose resolution and correspondent field frequencies are listed below:

Signal format	Resolution	Field frequency(HZ)
VGA	640x400	60
	640x400	70
	640x400	85
	640x480	60
	640x480	65
	640x480	72
	640x480	75
	640x480	85
SVGA	800x600	50
	800x600	60
	800x600	65
	800x600	72
	800x600	75
	800x600	85
	800x600	120
	832x624	75
XGA	1024x768	60
	1024x768	65
	1024x768	70
	1024x768	72
	1024x768	75
	1024x768	80
	1024x768	85
	1024x768	120
	1152x864	70
1035i	—————	60
1080i	—————	60
1080i	—————	50

Signal format	Resolution	Field frequency(HZ)
SXGA	1152x900	65
	1152x900	75
	1280x1024	60
	1280x1024	65
	1280x1024	70
	1280x1024	72
	1280x1024	75
	1280x1024	85
WXGA	1280x768	60
	1280x768	75
	1280x768	85
	1280x768	120
	1360x768	60
	1360x768	72
	1366x768	60
	1280x800	60
	1280x800	75
	1280x800	85
	1280x800	120
WUXGA	1920x1200	60
1080psf24	1920x1080	24
1080psf25	1920x1080	25
1080psf30	1920x1080	30
480i	—————	60
575i	—————	50
480p	—————	60
575p	—————	50
720p	—————	50
720p	—————	60

✓ **Note:**

The specification is subject to change without prior notice.

RS232 Commands SPEC

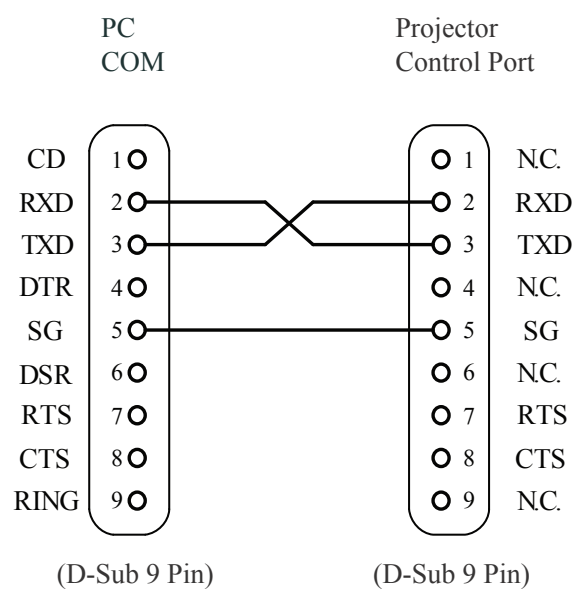
1. Connection

1.1 Port Setting

Item	Method
Communication Method	Asynchronous Communication
Bits per seconds	19200
Data bits	8 bits
Parity	None
Stop bits	1
Flow control	None

1.2 Wiring

RS232 cross cable is applied



Appendix

2. Commands

Case sensitive, each command end by[CR](Carriage Returns).

Command	Item	Command	Item
A00	POWER ON	A07	Component
A01	POWER OFF (Quick Power OFF)	A33	Video
A02	POWER OFF	A34	S-Video
A05	VGA1	A36	HDMI
A06	VGA2		

2.1 POWER ON

Command	“A00”[CR] (Hex: 0x41 0x30 0x30 0x0d)		
Details	Power ON when projector is in standby mode		
Return	OK	[ACK] [CR]	
	NG	“ ? ”[CR]	

2.2 POWER OFF (Quick Power Off)

Command	“A01”[CR] (Hex:0x41 0x30 0x31 0x0d)		
Details	Power OFF immediately		
Return	OK	[ACK] [CR]	
	NG	“ ? ”[CR]	

2.3 POWER OFF

Command	“A02”[CR] (Hex:0x41 0x30 0x32 0x0d)		
Details	"Power off ?" displays for the command, resend the command to power off the projector		
Return	OK	[ACK] [CR]	
	NG	“ ? ”[CR]	

2.4 VGA 1

Command	“A05”[CR] (Hex:0x41 0x30 0x35 0x0d)		
Details	Change the input to "Computer1".		
Return	OK	[ACK] [CR]	
	NG	“ ? ”[CR]	

2.5 VGA 2

Command	“A06”[CR] (Hex:0x41 0x30 0x36 0x0d)	
Details	Change the input to "Computer2".	
Return	OK	[ACK] [CR]
	NG	“ ? ”[CR]

2.6 Component

Command	“A07”[CR] (Hex:0x41 0x30 0x37 0x0d)	
Details	Change the input to "Component".	
Return	OK	[ACK] [CR]
	NG	“ ? ”[CR]

2.7 Video

Command	“A33”[CR] (Hex:0x41 0x33 0x33 0x0d)	
Details	Change the input to "Video".	
Return	OK	[ACK] [CR]
	NG	“ ? ”[CR]

2.8 S-Video

Command	“A34”[CR] (Hex:0x41 0x33 0x34 0x0d)	
Details	Change the input to "S-Video".	
Return	OK	[ACK] [CR]
	NG	“ ? ”[CR]

2.9 HDMI

Command	“A36”[CR] (Hex:0x41 0x33 0x36 0x0d)	
Details	Change the input to "HDMI".	
Return	OK	[ACK] [CR]
	NG	“ ? ”[CR]

NB: [ACK] [CR] is the effective return for commands received.

Appendix

User manual for network control

Function : this function is for PC’s to remote control projectors through LAN cable.

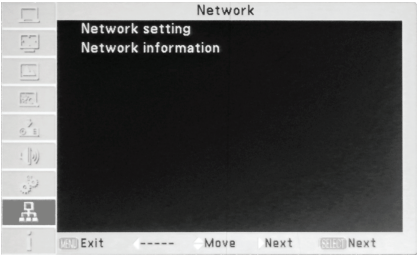
Preparation:

- 1. Equipments: PC, projector, cables
- 2. Connection procedures:
Connect the projector to routers or switches of the LAN by direct or cross cable. If it fails to connect PC and projector by parallel cable, please switch to cross cable as suggested.
- 3. After the computer is booted and the projector is plugged in, indicator lights of LAN interface and computer interface will flash continuously.

Operation procedures:

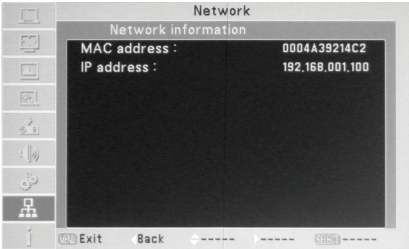
- 1. Turn on the projector
- 2. Obtain network address. DHCP set is displayed as on and obtain network address automatically. If familiar with network, you can set DHCP as close and obtain network address manually.
- 3. Enter network settings menu.

(1) Press MENU button of the remote or press MENU button of the projector first and then SELECT. The MENU will display. Use arrow button ▲▼ to select network icon.
(figure 1)



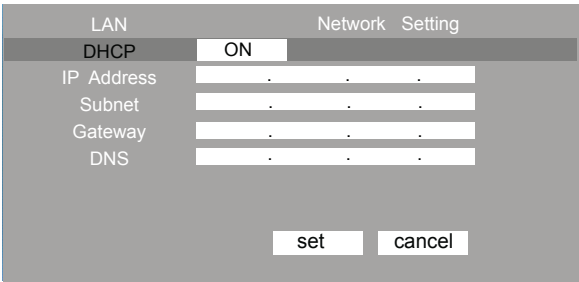
(figure 1)

2) Press SELECT or ► to enter network menu.
(figure 2)



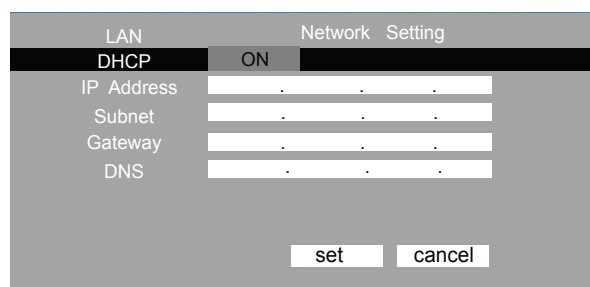
(figure 2)

(3) Use arrow button ▲▼ to select network settings and then press SELECT.
(figure 3)



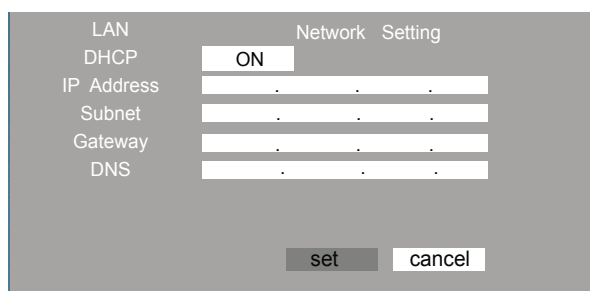
(figure 3)

- (4) Press SELECT, choose ON by ▲▼ (figure 4) and Press SELECT again.



(figure 4)

- (5) Select SET by ▲▼(figure 5) and then press SELECT. Then it will display “waiting...” on the screen. Wait until it disappears.

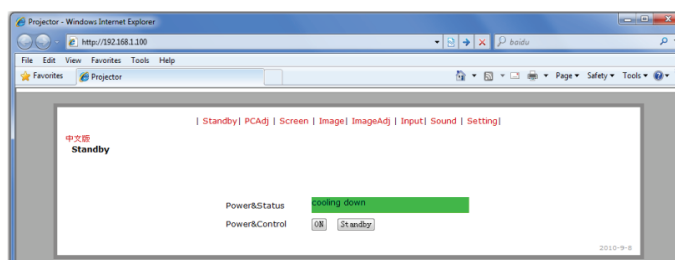


(figure 5)

4. Check IP address

Enter network menu and select network settings. Press select to check IP address.

5. Enter the IP address (obtained by step 4) into the address bar (figure 6). Format: http:// IP address/.



(figure 6)

6. Set the corresponding items of the projector by the website

Standby: on/off

PCAdj: PC adjustment

Screen: adjustment of screen size

Image: adjustment of image mode

Image Adj: image selection

Input: selection of input

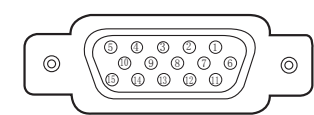
Sound: settings of sound

Setting: others

Appendix

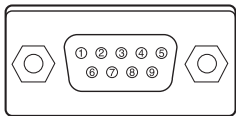
Configuration of terminals

OMPUTER IN 1/COMPUTER IN 2/MONITOR OUT (analog)
Terminal: Analog RGB (D-sub 15-pin)



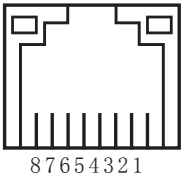
1	Red (Input/output)	9	-----
2	Green (Input/output)	10	Grounding (field synchronizing)
3	Blue (Input/output)	11	Grounding
4	-----	12	DDC data
5	Grounding (line synchronizing)	13	Horizontal synchronizing (compound sync.) input/output
6	Grounding (red)	14	Vertical synchronizing input/output
7	Grounding (green)	15	DDC clock
8	Grounding (blue)		

CONTROL PORT terminal (D-SUB-9-Pin)



1	-----
2	R X D
3	T X D
4	-----
5	GND
6	-----
7	-----
8	-----
9	-----

LAN terminal



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

PIN code memorandum

Write down the PIN code in the blank below and keep it,
please contact the repair center.

Factory default PIN code 111*

PIN code lock

Factory default PIN code 111*

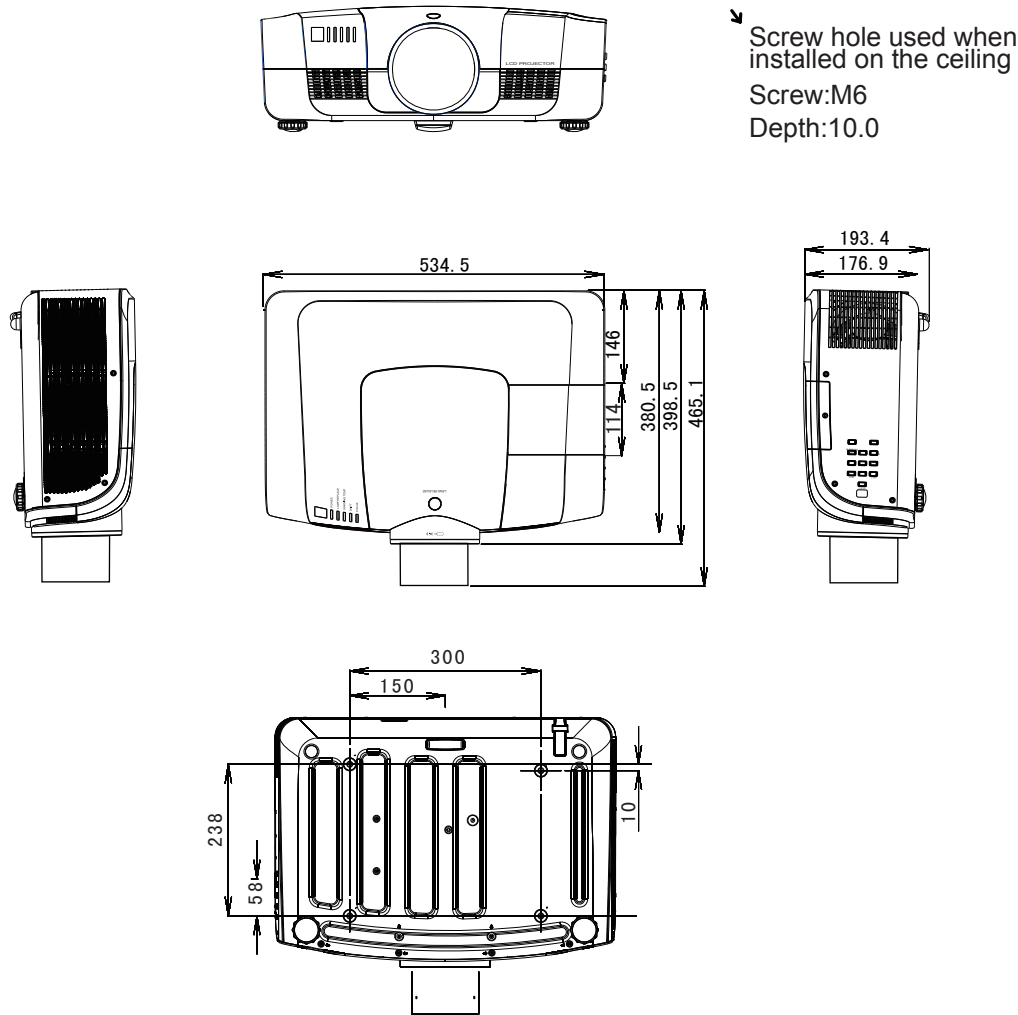
Locking startup-animation PIN code

*If this 3-digit number is changed,
the factory default number will be ineffective.

Appendix

Outer dimensions

Unit: mm



Content of hazardous substances and elements

Name of parts		Hazardous substances and elements					
		Pb	Hg	Cd	Cr6+	PBB	PBDE
Body	Plastic parts	○	○	○	○	○	○
	Metal parts	○	○	○	○	○	○
	Optical parts	×	×	○	○	○	○
	PCB assembly	×	○	○	○	○	○
	Other parts	×	○	○	○	○	○
Accessories	Remote control	×	○	○	○	○	○
	Cable	×	○	○	○	○	○

○: It means that contents of hazardous substances in all homogeneous materials in this part don't exceed "Required Limitations" specified in SJ/T11363-2006.

×: It means that contents of hazardous substances in at least one homogeneous material in this part exceed "Required Limitations" specified in SJ/T11363-2006.

Optional parts

Listed below are optional parts. Users should provide distributors with such information as part name and model when they place the order.

Type	Wide-range lens	Short-focus lens	tandard lens	Telephoto lens	Ultra-long-focuslens
Appearance					
Electric	NO	YES	YES	YES	YES
Zoom/Focus	Fired/Power	X1.3/Power	X1.6/Power	X1.6/Power	X1.6/Power
Foci(mm)	13.05	20.4-27.6	22-35	45.6-73.8	73.9-117.1
F value	2.0	1.8-2.3	1.7-2.2	1.8-2.3	1.8-2.3

Replacing lens

Is lens can be replaced by those of other models, a design that allows the projector to be used for multi-purposes.

If you want to install or replace the lens, you should contact the local distributor. Only qualified sales personnel or repair engineers are permitted to install or replace the lens. To avoid injury, never attempt to install or replace the lens without permission.



When you need to lift or move, do not grasp the lens for that purpose. Otherwise, the projector may be seriously damaged.

To sales personnel and repair engineers:

For information on installation and replacement of lens, please refer to related operating instructions. Before installing or replacing the lens, make sure the model of the lens is correct.

