LG
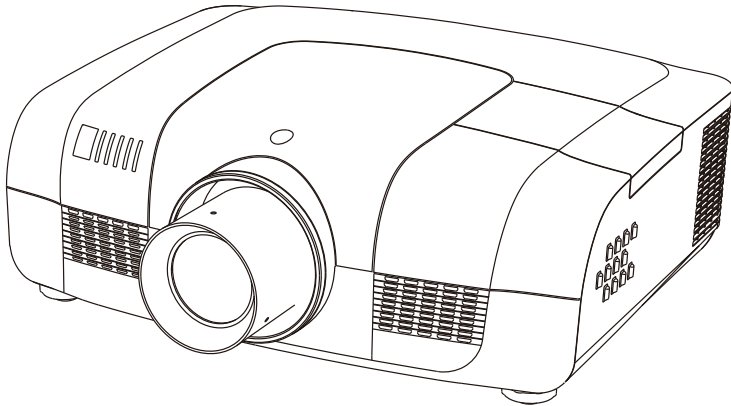
LCD Projector

Model BA850

Owner's Manual

P/N: 4100376500 Rev. A

www.lg.com

Safety Instructions

Please take note of the safety instructions to prevent any potential accident or misuse of the projector.

WARNING/CAUTION
AVERTISSEMENGT

RISK OF ELECTRIC SHOCK, DO NOT OPEN.
RISQUE DE CHOC ÉLECTRIQUE, NE PAS OUVRIR.

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

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

WARNING/CAUTION
- TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
Wash hands after handling.

Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.

Indoor Installation

WARNING

• Do not place the projector in direct sunlight or near heat sources such as radiators, fires, stoves, etc.
- This may cause a fire.
• Do not place flammable materials such as aerosols near the projector.
- This may cause a fire.
• Do not allow your children to cling to or climb up to the projector.
- The projector may fall down and cause personal injury or death.
• Do not place the projector directly on a carpet, rug or place where ventilation is restricted such as a book shelf or closet.
- This may cause the projector's internal temperature to rise and cause a fire.
• Do not place the projector close to sources of steam or oil such as a humidifier or kitchen counter.
- This may cause a fire hazard or an electric shock
• Do not place the projector where it might be exposed to excessive dust.
- This may cause a fire.
• Do not use the projector in a damp place such as a bathroom where it is likely to get wet.
- This may cause a fire or an electric shock.

• Do not allow a tablecloth or curtain to block the vents.
- This may cause the internal temperature of the projector to rise and cause a fire.
• The distance between the projector and the wall should be more than 30 cm for ventilation purposes.
- Otherwise, this may cause the internal temperature of the projector to rise and cause a fire.

CAUTION

• When installing the projector on a table, be careful not to place it near the edge.
- The projector may fall causing injury to persons or damage to the projector. Make sure that you use a stand suitable for the size of projector.
• Turn off the projector, disconnect the power supply and remove all connec tions before moving the projector.
- A damaged cord may cause a fire or an electric shock.
• Do not install the projector on an unstable or vibrating surface such as a vibrating shelf or tilted surface.
- It may fall and cause injury.
• Be careful not to tip the projector over when connecting external devices to the projector.
- This may cause injury to persons or damage to the projector

POWER

WARNING

• The earth wire should be connected.
- Inappropriate earth grounding may cause damage to the projector or an electric shock when there is an electrical surge.If the projector must be installed at a place where earth grounding is not possible, purchase a circuit breaker and connect the projector to its wall outlet.Do not ground the projector to the gas pipe, water pipe, lightning rod, or telephone line, etc.
• The power plug should be fully inserted into the wall outlet.
- Unstable connection may cause a fire.
• Do not place heavy objects on the power cord or place the cord underneath the projector.- This may cause a fire or an electric shock.
• Never touch the power plug with a wet hand.
- This may cause an electric shock.
• Do not connect too many devices to the same power extension.
- Overheating may cause a fire.
• Remove dust or contaminants around power plug pins or wall outlets.
- This may cause a fire.
• To turn off the main power, remove the power plug, which should be positioned so it is easy to access for operation.

Safety Instructions

• Hold the plug firmly when unplugging.
- A broken wire in the cord may cause a fire.
• Ensure the power cord or plug is not damaged, modified, severely bent, twisted, pulled, sandwiched or heated. Do not use a loose wall outlet.
- This may cause a fire or an electric shock.
• Keep the power cord away from any heating devices.
- The cord coating may melt and cause an electric shock.
• Place the projector where people will not trip over or tread on the power cord or plug to protect the power cord and plug from any damage.
- This may cause a fire hazard or an electric shock.
• Do not turn the projector on or off by plugging in the power plug or unplugging it from the wall outlet.
 (Do not use the power plug as a switch.)
- This may cause an electric shock or damage to the projector.
• Do not insert a conductor into the other side of the wall outlet while the power plug is inserted into the wall outlet. In addition, do not touch the power plug immediately after it is disconnected from the wall outlet.
- This may cause an electric shock.
• Use only the official power cord which is provided by LG Electronics, Inc. Do not use other power cords.
- This may cause a fire or an electric shock.

USING

• Do not place anything containing liquid, such as a vase, flowerpot, cup, cosmetics, chemicals, decorations or candles, etc., on top of the projector.
- Possible fire, electric shock, or falling may cause physical injury.
• In the event that there is a big impact to the projector or the cabinet is damaged, switch it off, unplug it from the wall outlet and contact an authorized service center.
- Otherwise, this may cause a fire or an electric shock.
• Do not insert pieces of metal such as coins, hairpins or metal debris, nor flammable materials such as paper or matches into the projector.
- This may cause a fire or an electric shock.
• In the event that liquid or a foreign object falls into the projector, please switch it off and unplug it from the wall outlet and contact an LG Electronics Service Center.
- Otherwise, this may cause a fire or an electric shock.
• When replacing a battery of the remote control, make sure a child does not swallow the battery. Keep the battery out of reach of children.
- In the case of a battery being swallowed by a child, please consult a doctor immediately.
• Do not remove any covers except for the lens cap. There is a high risk of electric shock.
• Do not look directly into the lens when the projector is in use.

• When the lamp is on or has just been turned off, avoid touching the air vent or lamp because these will be very hot.
• If there is a gas leak, do not touch the wall outlet. Open the window for ventilation.
- A spark may cause a fire or burn.
• Always open the lens door and remove the lens cap when the projector lamp is on.
• Never touch the projector or power cord during thunder or lightning.
- This may cause an electric shock.
• Do not use the projector near an electronic device which generates a strong magnetic field.
• Store the vinyl envelope used to pack the projector in a safe place away from children.
- It could cause suffocation if used improperly.
• Do not keep your hand on the projector for a long time when it is running.
• When you play a game by connecting a game console to a projector, it is recommended that you maintain a distance of more than four times the diagonal length of the screen.
• Make sure that the length of connecting cable is long enough. Otherwise, the product may fall causing personal injury or damage to the product.

CAUTION

• Do not place a heavy object on the projector.
- It may fall down and cause physical injury.
• Be careful to prevent the lens from heavy impact during transportation.
• Do not touch the lens. The lens may be damaged.
• Do not use any sharp tools on the projector such as a knife or hammer, because this may damage the casing.
• In the event that no image appears on the screen, switch the projector off, unplug it from the wall outlet and contact an authorized service center.
- Otherwise, this may cause a fire or an electric shock.
• Do not drop an object onto the projector or apply heavy pressure to it.
- This may cause injury to persons or damage to the projector.
• The distance between your eyes and the screen must be around 5 - 7 times the diagonal length of the screen.
- If you watch the screen at a close distance for a long time, your eye sight may become worse.

Safety Instructions

Cleaning

WARNING

• Do not spray the projector with water when cleaning. Do not allow water to go into the projector or do not allow it to get wet.
- This may cause a fire or an electric shock.
• When there is smoke or a strange smell coming out from the projector or a foreign object falls into the projector, please switch it off and unplug it from the power outlet and contact an LG Electronics Service Center.
- If not, this may cause a fire or an electric shock.
• Use an air spray or soft cloth or cotton swab moistened with a lens cleaning chemical or alcohol to remove dust or stains on the front projection lens.

CAUTION

• Contact your seller or the Service Center once a year to clean the internal parts of the projector.
- If you do not clean the contaminated interior of the projector for a long time, there may be a fire or damage to the projector.
• When cleaning plastic parts such as the projector case, unplug the power first and wipe with a soft cloth. Do not spray with water or wipe with a wet cloth.
  When cleaning the plastic parts, such as the projector case, do not use cleanser, automobile or industrial shiner, abrasive or wax, benzene, alcohol, etc., which can damage the product.
- This can cause fire, electric shock or product damage (deformation, corrosion and damage).

Others

WARNING

• Only a qualified technician can disassemble or modify the projector. For inspection, adjustment, or repair, contact your seller or the Service Center.
- Otherwise, this may cause a fire or an electric shock.
• Dispose of the used battery properly.
- Otherwise, this may result in explosion or fire.
• The correct method of disposal may vary depending on your country or region. Dispose of the battery pack according to the appropriate instructions.
• Do not throw or disassemble the battery.
- Otherwise, this may result in fire or explosion due to damage to the battery.
• Always use batteries approved and certified by LG Electronics.
- Otherwise, this may result in fire or explosion.
• Store the battery away from metallic objects, such as keys and paper clips.
• Excess current may cause a rapid increase in temperature, resulting in fire or burns.
• Do not store the battery near any heat source, such as a heater.
- This may result in fire or damage the product.
• Do not store it at temperatures higher than 60°C or in high humidity.

• Keep the battery out of reach of children.
- This may result in personal injury or damage to the product.
• Make sure that the battery is installed correctly.
• Incorrect battery replacement may cause fire.

CAUTION

• Do not mix new batteries with old batteries.
- This may cause a fire or an electric shock caused by overheating and leakage.
• Unplug the power cord if the projector is not used for a long period.
- Accumulated dust may cause overheating, an electric shock from corroded insulation and a fire from an electrical surge.
• Only use the specified type of battery.
- Otherwise, this may cause an electric shock caused by overheating and leakage.

FCC NOTICE

• **Warning** - Class B
(b) For a Class B Digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Safety Instructions

Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream through designated collection facilities appointed by your government or your local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Disposal of waste batteries/accumulators

1. When this crossed-out wheeled bin symbol is attached to batteries/accumulators of Your product it means they are covered by European Directive 2006/66/EC.
2. This symbol may be combined with chemical symbols for mercury(Hg), cadmium(Cd) or lead(Pb) if the battery Contains more that 0.0005% of mercury, 0.002% of cadmium or 0.004% of lead.
3. All batteries/accumulators should be disposed separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
4. The correct disposal of Your old batteries/accumulators will help to prevent potential negative consequences for the environment, animal and human health.
5. For more detailed information about disposal of Your old batteries/accumulators, please contact Your city office, waste disposal service or the shop where You purchased the product.

Licenses

Supported licenses may differ by model. For more information about licenses, visit www.lg.com.

HDMI™   HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

> **NOTE**
>
> • Image shown may differ from your projector.
> • Your projector's OSD (On Screen Display) may differ slightly from that shown in this manual.

Table of Contents

Statement

Part names and functions

Front

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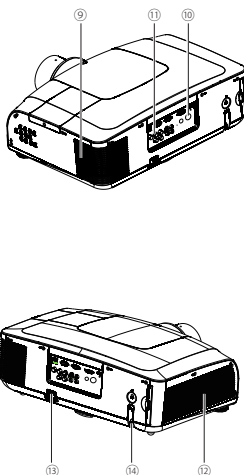⑦ Remote receiver (Front & top)
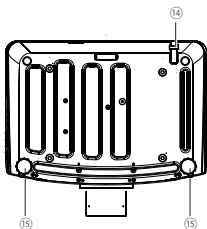⑧ Side control panel

Back

⑨ Exhaust vent

⚠ **Caution**

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

⑩ Remote receiver (Back)
⑪ Terminals and connectors
⑫ Air filter and air-intake vent
⑬ Power cord connector

Bottom
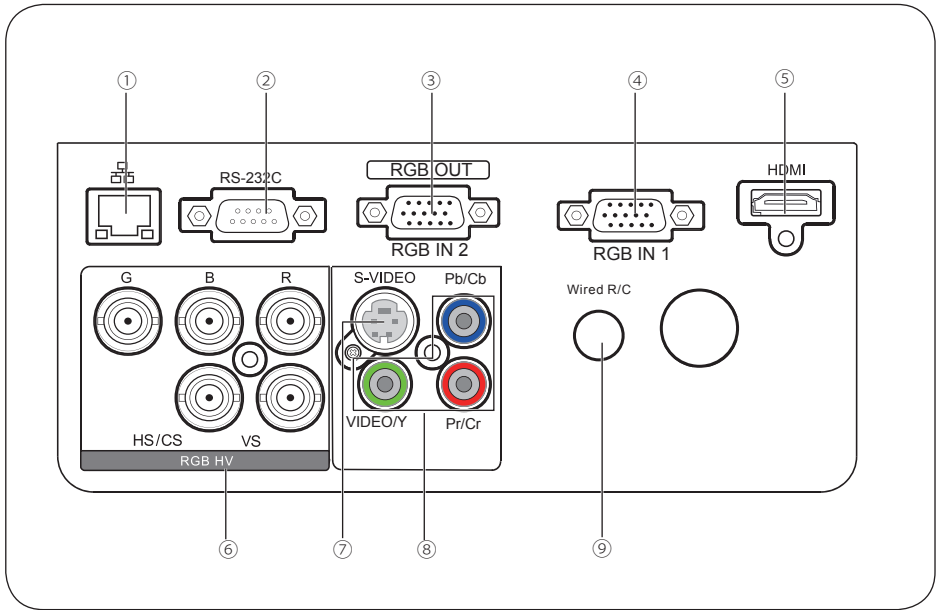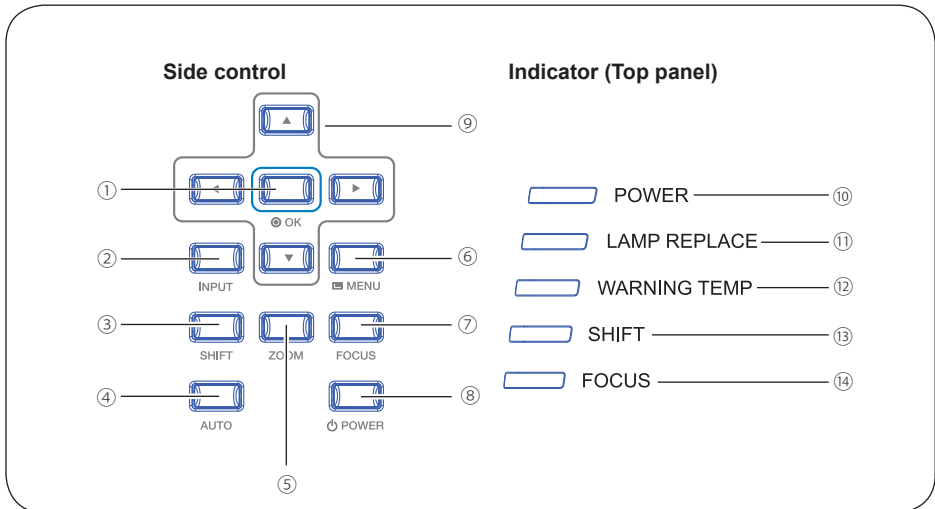
⑭ Safety lock
⑮ Adjustable feet

Rear terminal

① Network port
   Used to connect the network cable.

② RS-232C
   When using RS-232C to control the projector,
   please connect the serial control line to this
   terminal.

③ RGB IN 2/RGB OUT
   - Used to connect the computer output.
   - Used to output the analog signals from ④
     (RGB IN 1) or ⑥ (RGB HV) to the other
     monitor.

④ RGB IN 1
   Used to connect a computer output.

⑤ HDMI
   Used to connect the HDMI digital output.

⑥ RGB HV
   - Connect the composite video output from video
     equipment to RGB HV terminal.
   - Connect the RGB HV format (5 line system)
     signal to G, B, R, HS/CS and Vs jacks.

⑦ S-VIDEO
   Used to connect the S-video output of video
   equipment.

⑧ VIDEO/Y, Pb/Cb, Pr/Cr input jacks
   - Connect the component signals to these jacks.
   - Connect the composite signals to the VIDEO/ Y
     jack.

⑨ Wired R/C jack
   Connect wired remote control cable to this jack
   while using wired remote control.
   Wireless remote control is disable while using
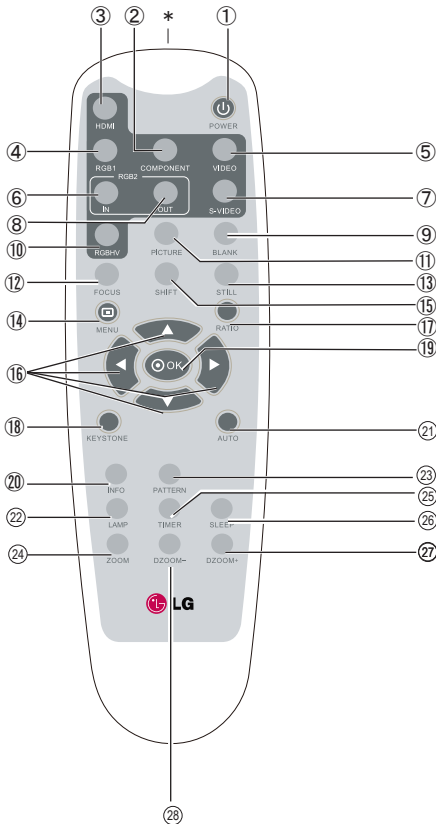   wired remote control via wired R/C jack.

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Part names and functions

Side control and indicators

Side control

▲ ⑨

◄ ● ► ①
● OK

▼ ②
INPUT ⑥
■ MENU

SHIFT ③
ZOOM FOCUS ⑦

AUTO ④
⏻ POWER ⑧

⑤

Indicator (Top panel)

POWER ⑩

LAMP REPLACE ⑪

WARNING TEMP ⑫

SHIFT ⑬

FOCUS ⑭

① **OK button**
 - Enter menu.
 - Execute the selected item.
 - Expand or compress the image in Digital
   Zoom Mode.

② **INPUT button**
   To select an input source.

③ **SHIFT button**
   To enter the lens shift mode.

④ **AUTO 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 **POWER button**
   To turn on/off the projector.

⑨ **Navigation ▲▼◄► buttons**
   – Select an item or adjust the value in the
     On-Screen Menu.
   – Move the image in the DZOOM +/- mode.

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 adjusting the focus.

Remote control

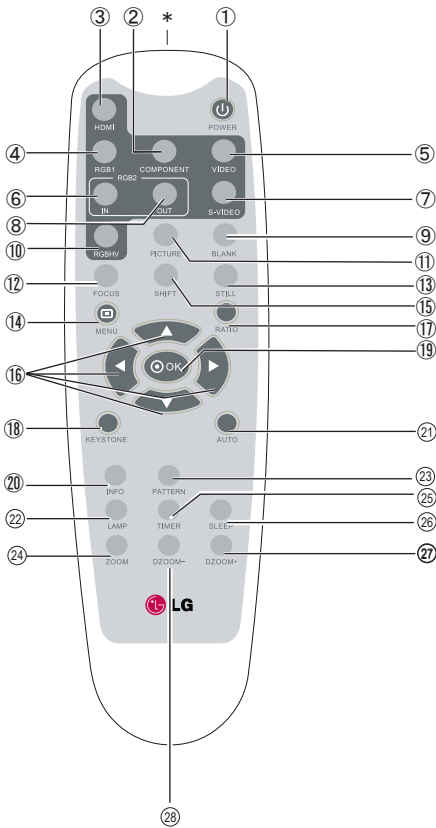* IR remote control is compulsory but Wired
remote control is optional.

⚠ 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.

① **POWER button**
Turn the projector on or off.

② **COMPONENT button**
Select the component input source.

③ **HDMI button**
Select HDMI input source.

④ **RGB1 button**
Select RGB1 input source.

⑤ **VIDEO button**
Select VIDEO input source.

⑥ **RGB2 IN button**
Select RGB2 as RGB input.

⑦ **S-VIDEO button**
Select S-Video input source.

⑧ **RGB2 OUT button**
Enable RGB2 as moniter out.

⑨ **BLANK button**
Hide the on screen menu.

⑩ **RGBHV button**
Select RGBHV input source.

⑪ **PICTURE button**
Select picture mode.

⑫ **FOCUS button**
Adjust the focus.

⑬ **STILL button**
Still the projected image.

⑭ **MENU button**
Open or close the on screen menu.

⑮ **SHIFT button**
Select the lens shift mode.

⑯ **▲ ▼ ◄ ► button**
– Select an item or adjust the value in the
on screen menu.
– Move the image in Digital zoom + mode.

*Please refer to the next page for other buttons.*

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Part names and functions

⑰ **RATIO button**
  Select a screen display mode.

⑱ **KEYSTONE button**
  Calibrate keystone distortion.

⑲ **OK button**
  Access the menu or select an item in the
  menu.

⑳ **INFO button**
  Operate the information function.

㉑ **AUTO button**
  Enter the AUTO setup mode.

㉒ **LAMP button**
  Select the lamp mode.

㉓ **PATTERN button**
  Select a test pattern picture.

㉔ **ZOOM button**
  Zoom in/out images.

㉕ **TIMER button**
  Enable the timer function.

㉖ **SLEEP button**
  Turn off the projector at the specified time.

㉗ **DZOOM+ button**
  Select the digital zoom + mode.

㉘ **DZOOM- button**
  Select the digital zoom - mode.

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Remote control battery installation
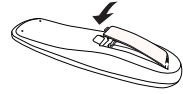
1. Open the battery compartment lid.
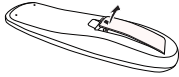
2. Install new batteries into the compartment.
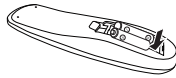
For correct polarity (+ and –) , be sure battery terminals are in contact with pins in the compartment.

3. Re-cover 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 contacting 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.

Operation range

Point the remote control toward the projector when pressing any button. The maximum operating range for the remote control is about 7 meters and 60 degrees.
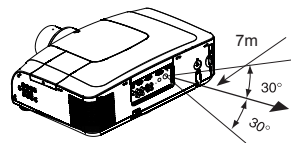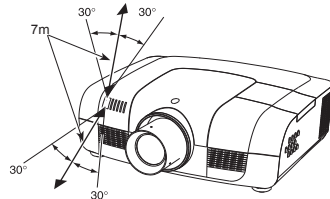
Adjustable feet

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

Adjustable feet

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Installation

Positioning the projector

For projector positioning, see the figures below. The projector should be set perpendicularly to the plane of the screen.
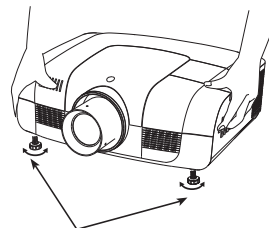
√ *Note:*
● *The brightness in the room has a great influence on picture quality. It is recommended to limit the ambient lighting in order to get the best image.*
● *All measurements are approximate and may vary from the actual sizes.*
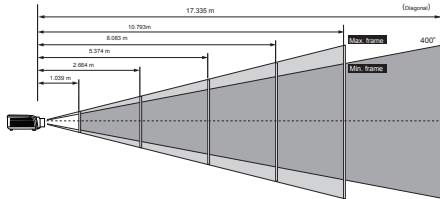
Screen size (WxH)mm 4:3 aspect ratio	40" 813x610	100" 2032x1524	200" 4064x3048	300" 6096x4572	400" 8128x6096
Maximum	1.039m	2.664m	5.374m	8.083m	10.793m
Minimum	1.604m	4.297m	8.643m	12.969m	17.335m

Lens shift adjustment

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

The display position can be shifted upward up to 50% elevation of the display.
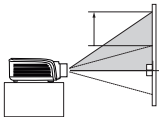
When the lens is shifted to top.

The display position can be shifted downward up to 50% elevation of the display.
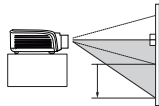
When the lens is shifted to bottom.

The display position can be shifted to the left up to 10% width of the display.
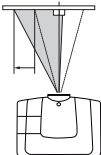
When the lens is shifted to leftmost.

The display position can be shifted to the right up to 10% width of the display.
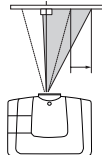
When the lens is shifted to rightmost.

Adjusting range

50%

10%
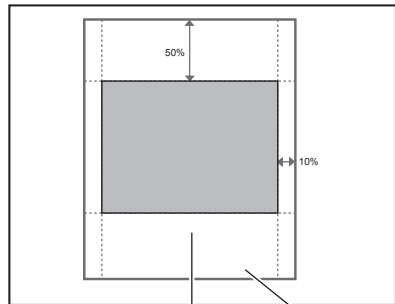
When the lens is shifted to the center.

Shifting range

Connecting to computer (Digital and analog RGB)

Cables used for connection (*Cables are not supplied with the projector.)
RGB cable (1)   Serial cable*
BNC cable *   (BNC*5)   HDMI cable*

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

Installation

Connecting to video equipment (Video, S-Video,Component, HDMI)

Cables used for connection (*Cables are not supplied with the projector.)
Video cable (RCA*1) *   Component cable (RCA*3) *
S-Video cable *   HDMI cable *
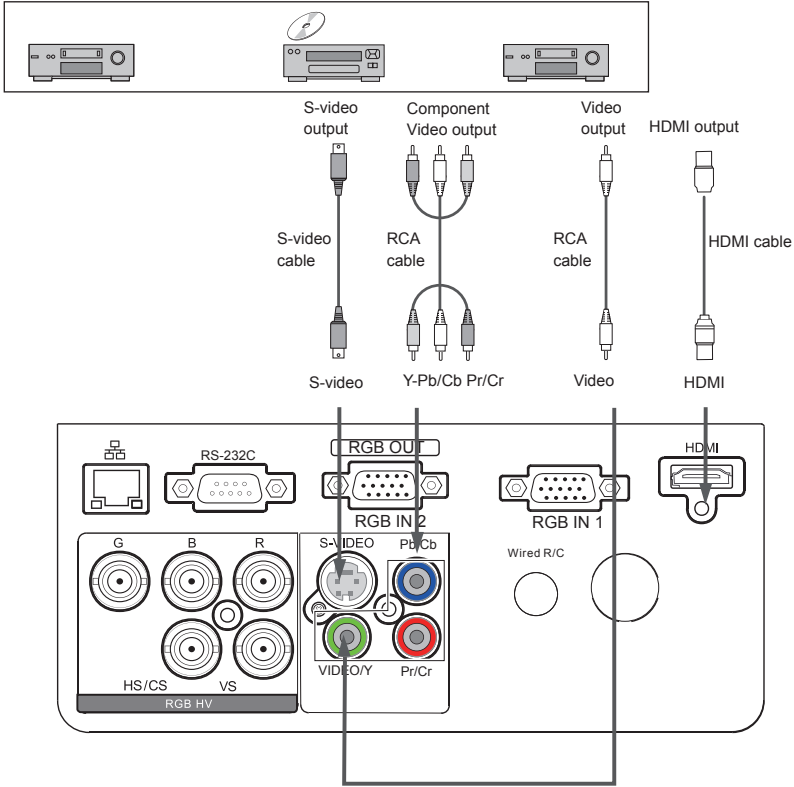
S-video output   Component Video output   Video output   HDMI output

S-video cable   RCA cable   RCA cable   HDMI cable

S-video   Y-Pb/Cb Pr/Cr   Video   HDMI

RS-232C   RGB OUT   HDMI

RGB IN 2   RGB IN 1

G   B   R   S-VIDEO   Pb/Cb   Wired R/C

HS/CS   VS   VIDEO/Y   Pr/Cr

RGB HV

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

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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.
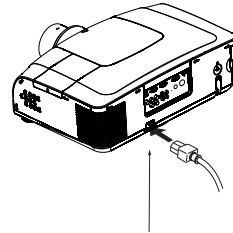
Connect the AC power cord (supplied) to the projector.
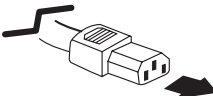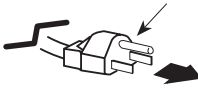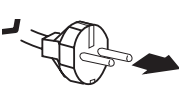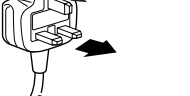
⚠ The AC outlet should be near this equipment and must be easily accessible.

√ *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.

Projector side	AC outlet side		
	For the U.S.A. and Canada	For Continental Europe	For the U.K.
To power cord connector on your projector.	Ground To the AC outlet. (110 V AC)	To the AC outlet. (200 - 240 V AC)	Ground To the AC outlet. (200 - 240 V AC)

√ *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 RGB cables, 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 counterclockwise until the lens cannot be rotated. Draw it out slowly from the projector.

⚠ **Caution**
Do not drop the lens when handling.

Lens release button
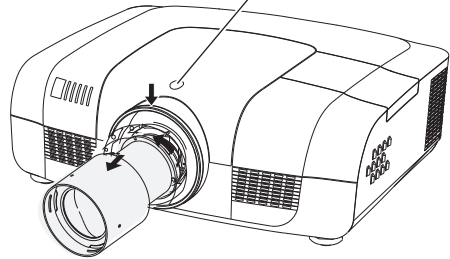
| **Installing the lens** |

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.

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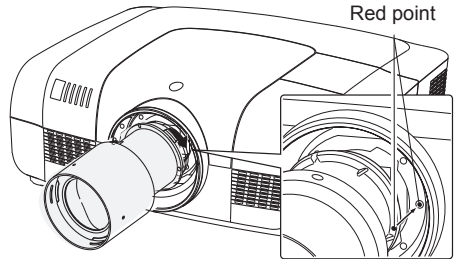
Notes on lens installation
● Do not touch or remove any part except lens and its relative part. This may cause a malfunction, electric shock, fire or other hazards.
● Make sure the mode of the lens is compatible with your projector before installing or replacing the lens.
● For information about the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

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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 Power button on the side 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 option *is set to be "Off" , the logo will not be displayed on the screen.*
 ● When the display option *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.

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 page 50 for locking operation of the projector with your PIN code.

PIN Code

| Set | Clear |

Adjust   Move

PIN Code

| Set | Clear |

Move   Select
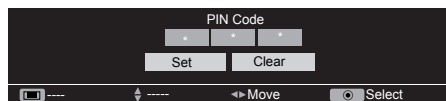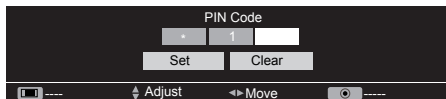
Move the cursor to Set, and press OK.

√ *Note:*
 The projector will automatically power off within 3 minutes while you input an incorrect PIN code or there is no any operation after turning on the projector.

⚠ 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 66 of this manual and keep it at hand. Should the PIN code be missing or forgotten, consult your dealer or service center.

Basic operation

Turning off the projector

1 Press the POWER button on the side control or on the remote control, and "Power off? Please press Power key again" appears on the screen.

2 Press the POWER 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.

⚠ 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 one hour in every 24 hours.
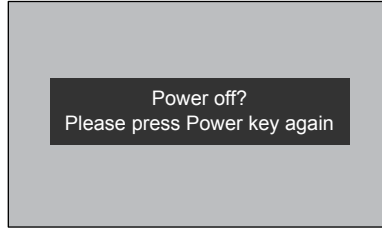
Power off?
Please press Power key again

"Power off? Please press Power key again" disappears after 4 seconds.

√ *Note:*
- *When the Auto Power function is "On" , this projector is turned on automatically by connecting the AC power cord to an AC outlet.(Page 48)*
- *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".(Page 53)*
- *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.
Each main menu can be divided into several levels' submenus, which are further divided into other submenus. For each adjustment and setting procedure, refer to the respective sections in this manual.

Remote control

MENU button

Indicator

OK button

Side control
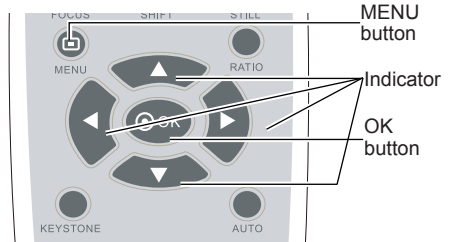
OK button
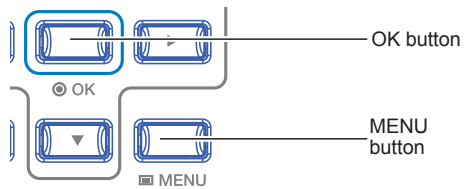
MENU button

On Screen Menu

1 Press the MENU button on the side control or remote control to display the on screen menu.

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 OK or the ► button to set or enter the submenu.

4 Press the ▲▼◄► buttons to adjust settings or switch among the items. Press the OK button for corresponding operation and then return to the submenu.

5 Press the ◄ button to return to the previous menu.Press the MENU button on the remote control again to quit the on screen menu.

Input menu
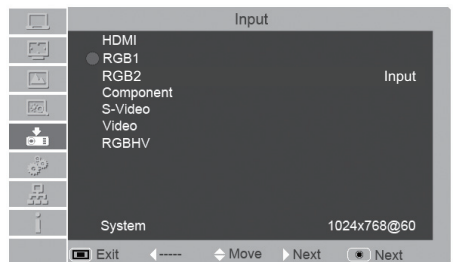
Basic operation

Menu bar

Main menu   Sub menu
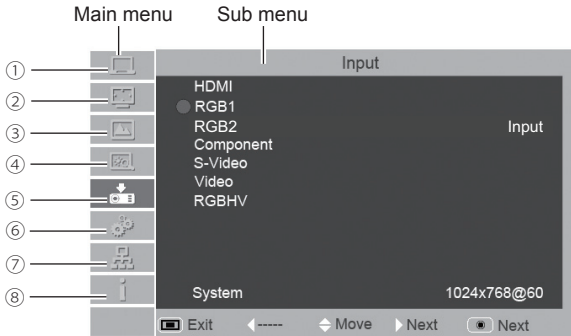
① PC adjust menu
  Used to adjust parameters: Auto PC adj., Phase, Total dots, H Postion, V Postion, Reset, Mode
  free, Store to match with RGB input signal format.

② Screen menu
  If a computer is selected as a signal source, the following setup options for the image size are
  available: Normal, True, 16:9, 4:3, Custom and Digital zoom +/-.
  If video equipment is selected as a signal source, the following setup options for the image size are
  available: Normal, 16:9, Custom.

③ Image select menu
  The available image modes are: Dynamic, Standard, Cinema, Blackboard (Green),Colorboard and
  User.

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, RGB1, RGB2, Component, S-Video, Video or RGBHV.

⑥ Option menu
  Used to configure the projector operation settings.

⑦ Network menu
  Used to access the network function.

⑧ Information menu
  Used to display information.

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Auto setup function

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

Remote control

FOCUS button

SHIFT button

Arrow ▲ ▼ ◄ ► buttons

AUTO button

KEYSTONE button

ZOOM button
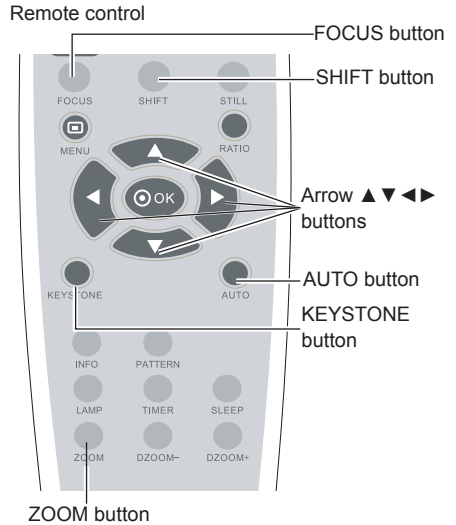
Lens shift control panel

The lens shift control panel is on the right side of the projector.

1. Use SHIFT on the side control panel or on the remote control to adjust the lens.
2. "Lens shift" will pop 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 ±50°vertically and ±10° horizontally.
3. Press SHIFT on the side control panel or on the remote control and hold on for about 10 seconds to reset the lens to the center.

✓ *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.*

Side control panel

SHIFT button

FOCUS button

ZOOM button

Lens shift

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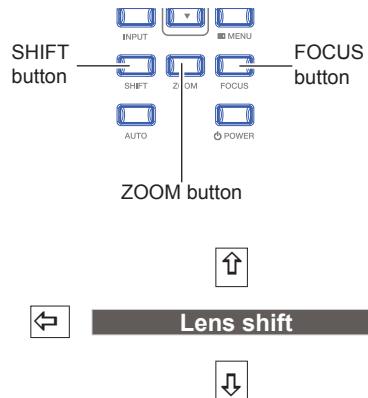
Basic operation

Zoom adjustment

1. Press ZOOM on the side control panel or on 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.

Zoom+

Focus adjustment

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

Focus+

Keystone

If a projected picture has keystone distortion, correct the image with the Keystone function.
Press the KEYSTONE button 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 remote control once more while the keystone dialog box is being displayed, the keystone adjustment will be canceled.
- The adjustable range can be limited depending on the input signal.

Reduce the upper width with the ▲ button.
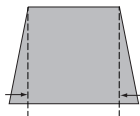
Reduce the lower width with the ▼ button.

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 buttons

Press the HDMI/RGB1/RGB2/RGBHV/S-VIDEO/COMPONENT/VIDEO button to select an input source.

STILL button

Press the STILL button to still the picture on the screen. To cancel the still function, press the STILL button again or press any other button.

DZOOM +/- buttons

Press the DZOOM +/- buttons 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.

Remote control

Direct INPUT buttons

BLANK button

STILL button

Arrow buttons ▲▼

LAMP button

DZOOM +/- button

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......
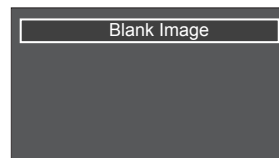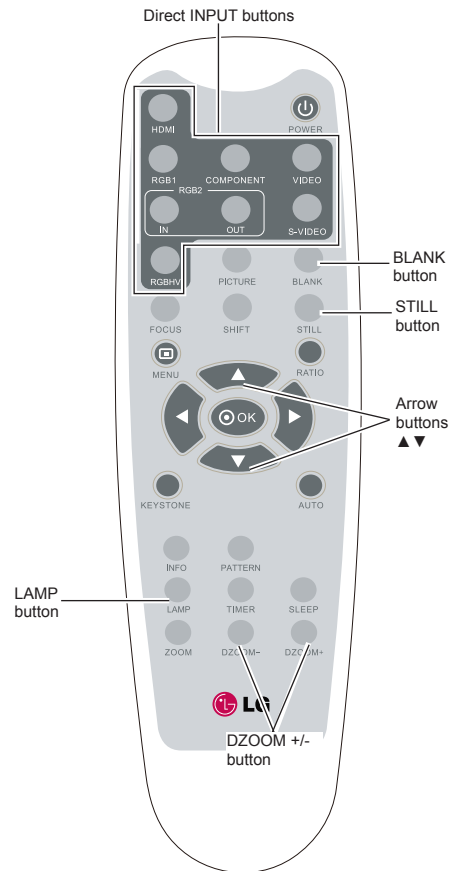
Blank Image

"Blank Image" disappears after 4 seconds if there is no other button operation.

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

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Basic 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.

PICTURE button

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

RATIO button

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

MENU button

Press the MENU button on the remote control to display the on screen menu.

SHIFT button

Press the SHIFT 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.

PATTERN button

Press the PATTERN button on the remote control to select a test pattern image.

SLEEP button

Press the SLEEP button on the remote control to set a specified time to turn off the projector automatically.

AUTO button

Press the AUTO button on the remote control to use the auto setup function.

INFO button

Press the INFO button on the remote control to use the information function.

Timer display

Remote control
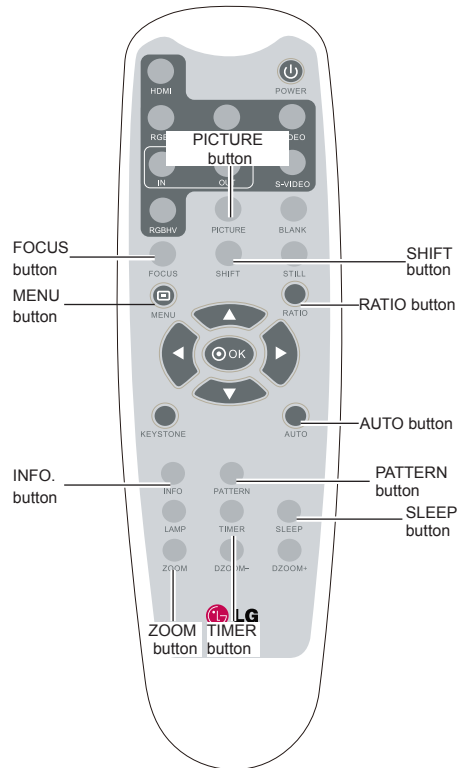
√ *Note:*
See the previous page for the description of other buttons.

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Computer input

Input source select (RGB1)

Direct operation
- Press the INPUT button on the side control.
- Press the RGB1 button on the remote control.

Side control

INPUT button

Remote control

RGB 1 button

RGB 1

Menu operation

1 Press the MENU button to display the on screen menu. Use the ▲▼ buttons to select the input source icon and press the ► button or OK button.

2 Press the ▲▼ buttons to select RGB 1 and then press the OK button.

Input menu

Input	
HDMI	
● RGB1	
RGB2	Input
Component	
S-Video	
Video	
RGBHV	
System	1024x768@60
▣ Exit ◄ -----	◆ Move ► Next ⊙ Next

INPUT icon

Computer input

Input source select(RGB 2 or RGBHV)

Direct operation
- Press the INPUT button on the side control.
- Press the RGB2 IN or RGBHV button on the remote control.
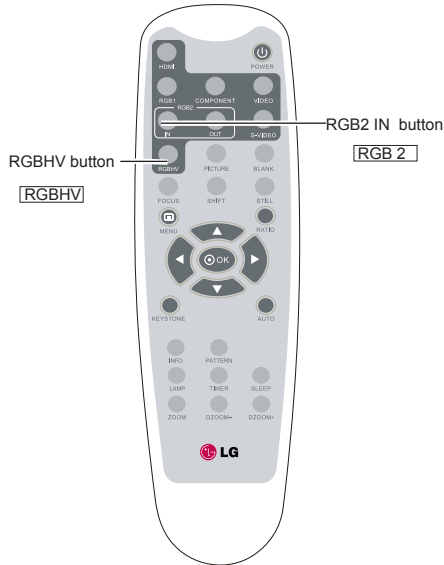
Side control

INPUT button

Remote control

RGB2 IN button

RGB 2

RGBHV button

RGBHV

Menu operation

1 Press the MENU button to display the on screen menu. Use the ▲▼ buttons to select the input source icon and press the ► button or OK button.

2 Press the ▲▼ buttons to select RGB 2 and then press the OK button.

| RGB 2 | When input is RGB signal, please select RGB2. |

| RGBHV | When input is RGBHV signal, please select RGBHV. |

Input menu

Input	
HDMI	
RGB1	
RGB2	Input
Component	
S-Video	
Video	
RGBHV	
System	1024x768@60
Exit ◄-----	◆ Move ▶ Next ◉ Next

INPUT icon

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Computer system select

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 When the projector cannot recognize the connected signal conforming to the provided PC systems, Auto is displayed on the System Menu box and the Auto PC Adjustment function works to display proper images. If the image is not projected properly, a manual adjustment is required.
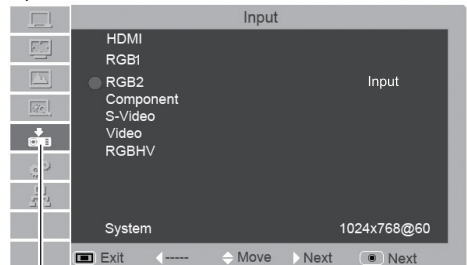
----- There is no signal input from computer. Check the connection between your computer and projector.

RGB1 system menu

The PC system menu displays the selected system.

System option

Selecting computer system manually

The system can also be selected manually.
1. Press the MENU button to display the on screen menu. Use the ▲▼ buttons to select the input source icon,and press ► button or OK button.
2. Use the ▲▼ buttons to select System (Signal format), and press ► button or OK button.
3. Press the ▲▼ buttons to select your required system, and then press the OK button.

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Computer input

Auto PC adjustment

Auto PC Adjustment function is provided to automatically adjust phase, total dots, H position, V position to conform to your computer.

Menu operation

Auto PC adjustment
1. Press the MENU button to display the on screen menu. Use the ▲ ▼ buttons to select the PC adjust icon and press the ► button or OK button.
2. Press the ▲ ▼ buttons to select AUTO PC Adjustment, and then press the OK button.

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

PC adjust menu

PC adjust icon

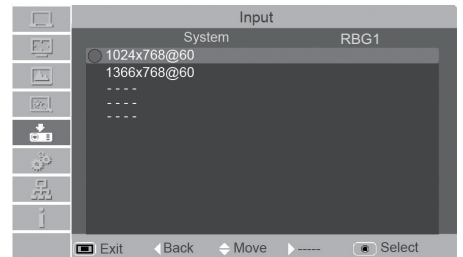|	PC adjust	
	Auto PC adj.	
	Phase	16
	Total dots	1344
	H Position	296
	V Position	35
	Reset	
	Mode free	
	Store	

▣ Exit   ◄----   ◆ Move   ► Next   ◉ Next
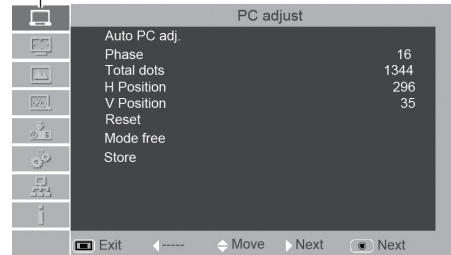
√ *Note:*
- *Phase, Total dots, H Position and V Position of some computers cannot be fully adjusted with this Auto PC adj. function. When the image is not provided properly with this operation, manual adjustments are required.*
- *Phase, Total dots, H and V Position are disabled when Pixel Clock is higher than 140MHz.*
- The Auto PC adj. cannot be operated when 480i, 576i, 480p, 576p, 720p or 1080i is selected in the PC System Menu.

Manual adjustment via PC

As some computer 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. 5 independent memory sections is provided, where the manually adjusted parameters can be saved. In the case of specific computer, you can make use of the memory space to set up whenever necessary.

1. Press MENU button to display the on screen menu. Press ▲▼ to select the PC adjust icon. Then press ► or press OK.
2. Press ▲▼ to select the item to be adjusted, and then press OK. Adjustment dialogue box will appear. Press ◄► to set the value.

Phase
Press ◄► to adjust the value, eliminating a flicker from the image displayed. (from 0 to 31)

Total dots
Press ◄► to adjust the total dots for a cycle so that it can match the image on computer.

H Position
Press ◄► to adjust the horizontal position of the image.

V Position
Press ◄► to adjust the vertical position of the image.

Reset
To re-set the adjusted data, you should select the initial state and then press OK. Click Yes when the dialogue box appears for confirmation and 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 OK button. The mode to be deleted will be highlighted,click Select.

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

√ Note:
 If you select 480i, 576i, 480p, 576p, 720p or 1080i from the system menu, the functions of horizontal position and vertical position will be disabled.

PC adjust menu

PC adjust	
Auto PC adj.	
Phase	16
Total dots	1344
H Position	296
V Position	35
Reset	
Mode free	
Store	

Exit ----- Move Next Next
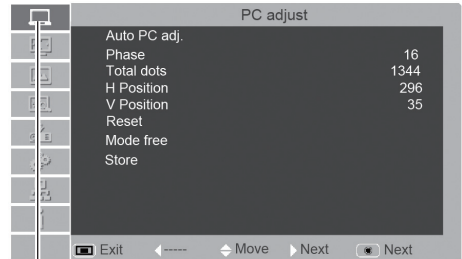
PC adjust icon

Computer input

Image select

Direct selection
Use the PICTURE button on the remote control to select the image mode.

Remote control

PICTURE button

Menu selection
1. Press MENU button on the remote control to display the on screen menu. Press ▲▼ to select the image mode icon. Then press ► or press OK.
2. Press ▲▼ to select the desired item, and then press OK.

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

Standard
This is the default image mode.
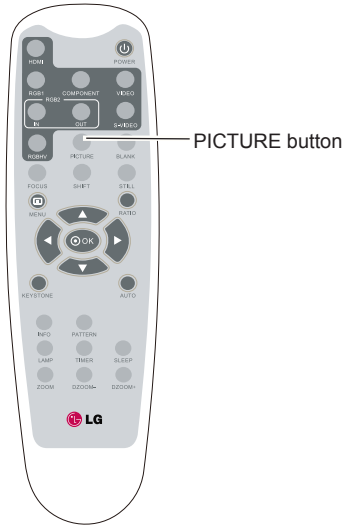
Cinema
This mode limited the brightness, and more detail can be seen.It is suitable for seeing a film in a dark environment.

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.
Press OK to select Colorboard , and then press ► to enter the submenu.
Press ▲▼ to select wallpaper from Red, Blue, Yellow and Green.

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

Image select menu

Image select	
Dynamic	
Standard	
Cinema	
Blackboard(Green)	
Colorboard	Red
User	

◼ Exit ◀ ----- ◆ Move ▶ Next ◉ Next

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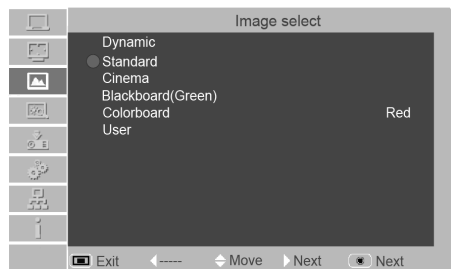
Image adjust

1. Press Menu on the remote control to display the on-screen menu. Press ▲ ▼ to select the image adjust icon .Then press ► or press OK.
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.(from 0 to 63)

Brightness

Press ◄ to decrease the brightness and press ►to increase it.(from 0 to 63)

Color temp.

Press◄► to select the desired color temperature (option are "Cool ", " Medium", " Warm")

Red(White balance)

Press ◄ to make the red color lighter and press ►to make it stronger.(from 0 to 63)

Green(White balance)

Press ◄ to make the green color lighter and press ► to make it stronger.(from 0 to 63)

Blue(White balance)

Press ◄ to make the blue color lighter and press ► to make it stronger.(from 0 to 63)

Sharpness

Press ◄ to soften the image and press ► to sharpen it.(from 0 to 15)

Gamma

Press ◄► to adjust the grey level to achieve better contrast and balance.(from 0 to 15)

Image adjust menu

Image adjust	
Contrast	32
Brightness	32
Color temp.	Medium
Red	32
Green	32
Blue	32
Sharpness	8
Gamma	8

▣ Exit ◄ ----- ▲ Move ▶ Next ◉ Next

Image adjust icon

√ *Note:*
- *After red(white balance), green(white balance) or blue(white balance) is adjusted,the image mode will change to "User".*
- *When Blackboard (Green) or colorboard is selected in the " Image select ", the color temperature will change to " Blackboard " or "colorboard".*

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Computer input

Screen size adjust

The size of the screen can be reset to the value the user desires.

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

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 (1024X768), the projector will automatically enter the window moving mode for image display. The user can press ▲▼ ◄► to move the display image to adjust.

16:9

This item provides images with a width-height ratio of 16:9.

4:3

This item provides normal images with a width-height proportion 4:3.

Custom

This item can help users manually adjust the proportion and position of the screen.
Adjustable range depends on the input signal formats. Some have a limitation to adjust.
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 gray, meaning "disabled". You can adjust the horizontal proportion, and then modify the proportion of the screen on the basis of the width-height proportion.If you reset the H&V settings, then H&V data will be initialized.
> **Position H/V**: To adjust the horizontal/vertical position of the screen.
> **Apply to all inputs**: 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 reset the all adjusted values. In the initial state, press Select, and a dialog box will pop up for confirmation. To reset the parameters, press Select at Yes.

√ *Note:*

● *To get the the best picture quality, you should adjust the resolution to XGA(1024x768).*
● *When True or 4:3 is selected, Digital zoom +/- will be disabled.*
●*True, Custom and Digital zoom +/- menus might be disabled when Pixel Clock is higher than 140MHz.*
●*True can not be selected when 480i, 576i, 480p, 576p, 720P50, 720P60, 1080i is selected in PC system menu.*

Remote control

RATIO buttons
Arrow buttons

DZOOM +/-
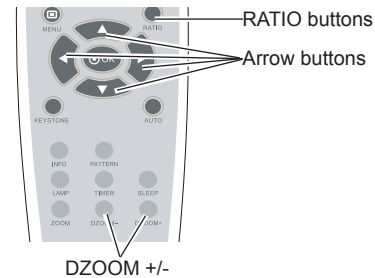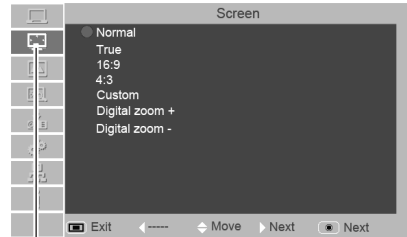
Screen Menu

Screen icon

Digital zoom +

After you select the digital zoom +, the on-screen menu will disappear, while the information on digital zoom + appears. You can press OK 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 DZOOM +or select on the remote control to zoom in the projected image.

Digital zoom -

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

To exit the "digital zoom +/-"mode, press any button except the DZOOM+/- and the OK 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". and press ▲▼◄►to move the image horizontally and vertically.

Video Input

Selecting input source (HDMI/Component/S-Video/Video)

Direct selection
- Press HDMI, COMPONENT, S-VIDEO or VIDEO button on the remote control.
- Press the INPUT button on the side control. if the INPUT button is pressed again, then the next input source will be displayed. The input source will be changed like as the flow chart.

Remote control

HDMI
COMPONENT
VIDEO
S-VIDEO

Side control

INPUT button

HDMI → RGB1 → RGB2 → Component → S-Video → Video → RGBHV
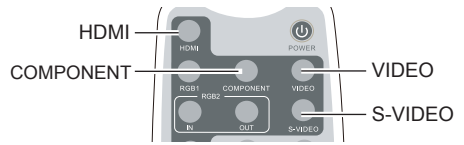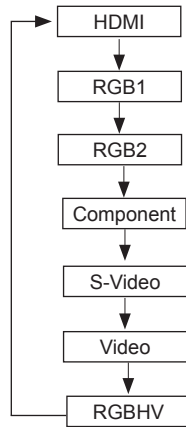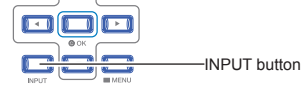
Menu operation

1. Press MEMU button on the remote control to display the on screen Menu.
2. Press ▲▼ to select the icon for input source. Then press ► or press OK.
3. Press ▲▼ to select the input source and press OK.

Input menu

Input	
HDMI	
RGB1	
RGB2	Input
Component	
S-Video	
● Video	
RGBHV	
System	Auto

■ Exit ◄----- ◆ Move ► Next ■ Next

INPUT icon

HDMI

When input signal is connected to the HDMI jack, select HDMI.

Component

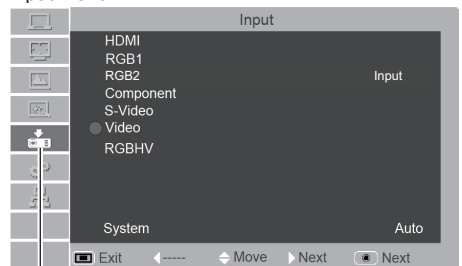When input signal is connected to the Component jack, select Component.

S-Video

When input signal is connected to the S-Video jack, select S-Video.

Video

When input signal is connected to the Video jack, select Video.

Video Input

Video system select

1. Press MENU on the remote control to display the on-screen menu. Press ▲▼ to select the icon for input source. Then press ► or press OK.
2. Press ▲▼ to select " HDMI "," Component ", " Video" , or "S-video " , and then press OK.
3. Press ▲▼ to select the system, and then press ► or press Select. Press ▲▼ to select the signal format, then press OK.

MENU button

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.

Video System Menu (Video or S-video)

PAL/SECAM/NTSC/NTSC4.43/PAL-M/PAL-N
If the projector 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.

Video System Menu (Component)

Component video signal format
If the projector can't reproduce the image, you should select a specific component video signal format from 480i, 576i, 480p, 576p, 720p and 1080i.
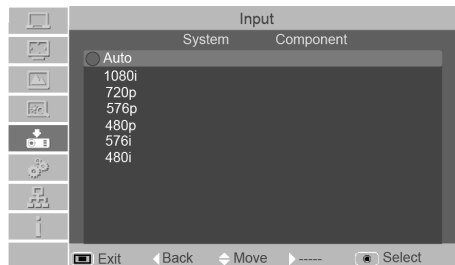
√ Note:
● If HDMI is selected, Video system menu can not be selected.

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Image select

Direct selection
Press the PICTURE button on the remote control to select the image mode.

Menu selection
1. Press MENU button on the remote control to display the on screen menu. Press ▲ ▼ to select the image mode icon. Then press ► or press OK.
2. Press ▲ ▼ to select the desired item, and then press OK.

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

Standard
This is the default image mode.

Cinema
This mode limited the brightness, and more detail can be seen.It is suitable for seeing a film in a dark environment.

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.
Press OK to select Colorboard , and then press ► to enter the submenu.
Press ▲ ▼ to select wallpaper from Red, Blue, Yellow and Green.

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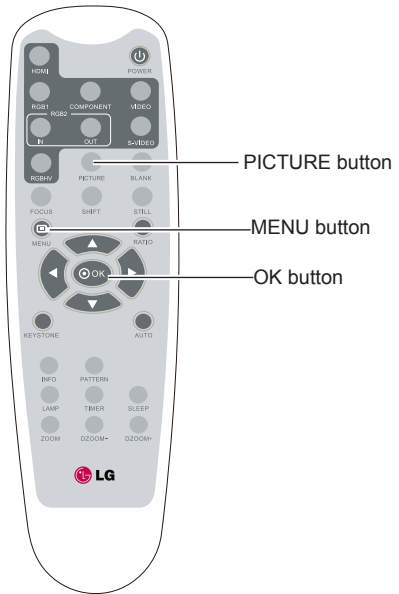
Remote control

PICTURE button

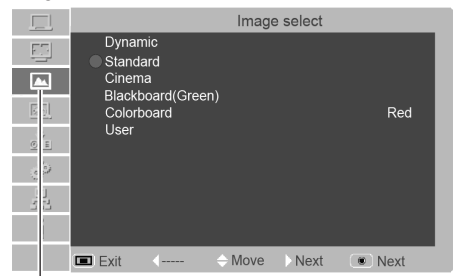MENU button

OK button

Image mode select menu

Image select icon

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Video Input

Image adjust

1. Press MENU button on the remote control to display the on-screen menu. Press ▲▼ to select the image adjust icon. Then press ► or press OK.
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.(from 0 to 63)

Brightness

Press ◄ to decrease the brightness and press ►to increase it.(from 0 to 63)

Color

Press ◄ to decrease the color gamut and press ►to increase it.(from 0 to 63)

Tint

Press ◄► to select the appropriate tone for the image.(from 0 to 63)

Red(White balance)

Press◄ to make the red color lighter and press ►to make it stronger.(from 0 to 63)

Green(White balance)

Press◄ to make the green color lighter and press ►to make it stronger.(from 0 to 63)

Blue(White balance)

Press◄ to make the blue color lighter and press ►to make it stronger.(from 0 to 63)

Sharpness

Press◄ to soften the image and press ► to sharpen it.(from 0 to 15)

Gamma

Press ◄► to adjust the grey level to achieve better contrast and balance.(from 0 to 15)

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:
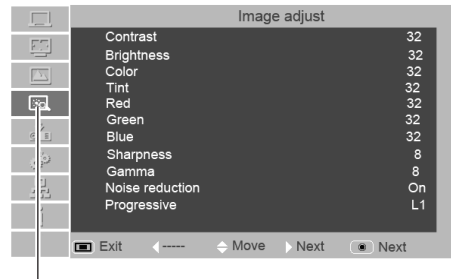OFF: Disabled;
L1: Projecting dynamic image;
L2: Projecting still image;
Film: This item is used for watching films. When it is selected, This projector will restore the images with high quality to reduce image distortion.

Image adjust menu

Image adjust	
Contrast	32
Brightness	32
Color	32
Tint	32
Red	32
Green	32
Blue	32
Sharpness	8
Gamma	8
Noise reduction	On
Progressive	L1

▣ Exit ◄ ----- ◆ Move ▶ Next ◉ Next

Image adjust icon

√*Note:*
- *Noise reduction and Progressive can not be selected when 480p, 576p, 720p and 1080i signals are coming.*
- *NTSC and NTSC-4.43 Color standard system support this tint menu.*

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Screen size adjust

The size of the screen can be reset to the value the user desires.

1. Press MENU button on the remote control to display the on screen menu.

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

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

Normal

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

16:9

This item provides images with a width-height ratio of 16:9.

Custom

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

Adjustable range depends on the input signal formats. Some have a limitation to adjust.

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 gray, meaning "disabled". You can adjust the horizontal proportion, and then modify the proportion of the screen on the basis of the width-height proportion.If you reset the H&V settings, then H&V data will be initialized.

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

Apply to all inputs: 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.

Remote control

RATIO buttons

Arrow buttons
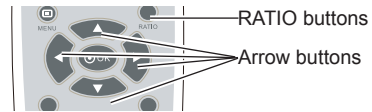
Screen menu

Screen icon

√*Note:*

- *If no signal is detected, the items of the custom can not be selected, the related dialog box disappears.*
- *The horizontal/vertical proportion and the horizontal/vertical position should be adjusted according to the input signal.*
- *16:9 doesn't work when 720p or 1080i is select in Component or HDMI input.*
- *Custom sub-menus are disabled when Pixel Clock higher than 140MHz.*

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Option

Option

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

1. Press MENU button on the remote control to display the on screen menu. Press ▲ ▼ to select Option.Then press ► or press OK to enter the submenu.
2. Press ▲ ▼ to select the desired item to be adjusted, and then press ► or press OK to reach the selected item.
3. Press ▲ ▼ to select the desired item and then press OK.
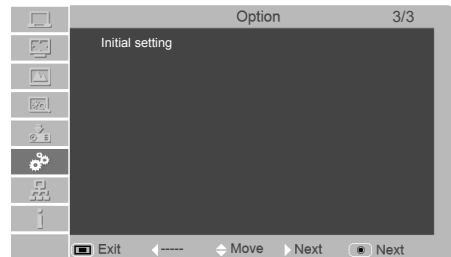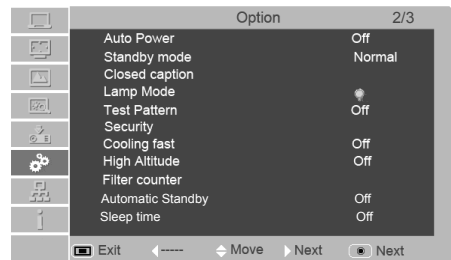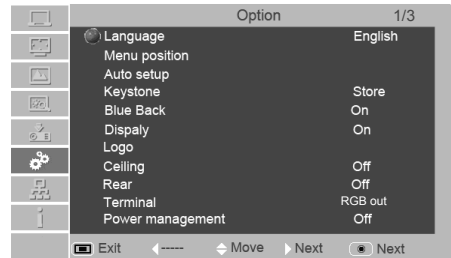
Language
OSD languages include Chinese(Simplified), English, French, Spanish, Portuguese, German, Italian, Japanese, Korean, Polish, Hungarian, Russian, Swedish, Turkish, Indonesia, Arabic, Greek, Norwegian, Czech, Chinese(Traditional).

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

Upper left→Upper right→Center→ Lower left→ Lower right→Upper left→…

Option menu

Option	1/3
Language	English
Menu position	
Auto setup	
Keystone	Store
Blue Back	On
Dispaly	On
Logo	
Ceiling	Off
Rear	Off
Terminal	RGB out
Power management	Off
▣ Exit ◄----- ⬍ Move ►Next ◉ Next	

Option	2/3
Auto Power	Off
Standby mode	Normal
Closed caption	
Lamp Mode	💡
Test Pattern	Off
Security	
Cooling fast	Off
High Altitude	Off
Filter counter	
Automatic Standby	Off
Sleep time	Off
▣ Exit ◄----- ⬍ Move ►Next ◉ Next	

Option	3/3
Initial setting	
▣ Exit ◄----- ⬍ Move ►Next ◉ Next	

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Auto setup

This function enables Input search, and Auto PC adjustment by pressing the AUTO button on the side control or the 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 fuction. 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

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 OK 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 side control or the RGB 1/2 buttons, VIDEO , S-VIDEO , HDMI 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.*

● *Phase, 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.*

Option

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.

Screen Capture

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

Select **Screen Capture** and press the OK 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.

√ *Note:*
  Screen Capture can be operated on the resolutions from VGA(640x480) to XGA (1024x768) only.

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 OK button and the Logo PIN code dialog box appears. Enter a Logo PIN code by following the steps below.

Enter a Logo 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 OK 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 OK button to make a choice.

<u>**Logo PIN code change**</u>

Logo PIN code can be changed to your desired three- digit number. Press the OK 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 66, AND KEEP IT SECURELY. SHOULD THE LOGO PIN CODE BE LOST OR FORGOTTEN, THE LOGO PIN CODE SETTING CAN NO LONGER BE CHANGED.

Option

Ceiling
This function is used to project the image from a
ceiling mounted projector.
Off ......Disable this function.
Auto ...The picuture 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 RGB IN 2/RGB OUT terminal on the back of the projector is switchable for computer input or monitor
output (See page 13). Select RGB IN 2 or RGB Out with the Point ▲▼ buttons.
    RGB IN 2 .... RGB 2 Input
    RGB Out .... RGB Output
                        RGB Out is the same signal as current display source of RGB IN 1 or RGBHV. If
                        the input source is Video, S-Video, HDMI or Component, the default output of
                        RGB2 output is RGB IN 1.

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 side 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

No signal
01 : 20

Time left before Lamp is off.

Auto Power
This function enables projector auto power on with detection connection with AC power cord.
On .... Auto Power function is On.
Off .... Auto Power function is Off.

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 functions of network,RS-232C and Monitor out 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.

√ *Note:*
  The Closed Caption is available only under the situation below.
  • Only the NTSC 3.58 Color system of the Video and S-Video supports the closed caption function.
  • 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 Mode

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.There are 12 types of test pattern: gray scale,raster gray, color bar, red, green, blue, black, gray, white, cross hatch.

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 side control and remote control buttons to prevent operation by unauthorized persons. Select Key lock and then press the OK button, and select the desired item by pressing the Point ▲▼ buttons.

Off .... Unlocked.

Projector .... Lock the operation of the side control except the power button. To unlock, use the remote control.

Remote Control ..... Lock the operation of the remote control except the power button. To unlock, use the side control.

If the side 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.

Option

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 OK button and the PIN code dialog box appears.

√ Note:
The POWER button is enable even the "Projector" or "Remote control" of Key lock and PIN code lock are set.

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 OK 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 OK button to make a choice.

PIN code change

The PIN code can be changed to your desired three-digit number. Press ▲▼ OK 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 66, 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 Altitude

This projector provides Fan control function in the "Option" 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.

Filter warning icon

Please clean the filter

Filter counter..............Display the time that the filter is used. Ready only.

Timer.........................Display the time to cleaning the filter.(100h/200h/300h)

Filter counter reset.....Reset the filter counter after filter is cleaned.

Automatic Standby

This function is used to set a time to turn off the projector automatically if there is no any operation.

Off..........Disable the function.

4 Hr........Turning off the projector automatically in 4 hours if there is no any operation.

6 Hr........Turning off the projector automatically in 6 hours if there is no any operation.

8 Hr........Turning off the projector automatically in 8 hours if there is no any operation.

Sleep time

This function is used to set a specified time to turn off the projector even if there is operation or signal input.

Press ► button to enter the sub menu and press ▲▼ buttons to select among Shut down, 10 min, 20 min, 30 min, 60 min, 90 min, 120 min and 240 min.

Initial Setting

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.

Direct operation
Press INFO. button on the remote control and the information menu will appear on the screen. Shown as the right picture.

Information menu

Menu operation
Press MENU button to display the screen menu. Press ▲▼ to select information icon, the information menu will appear and the information is displayed.Shown as the right picture.

See below for displayed information.

Information menu

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 Mode
The selected lamp mode is displayed.

Lamp Time
The used time of the lamp is displayed.

Power management
Off, Ready or Shut down is displayed.

Sleep Timer
This function is used to set a specified time to turn off the projector even if there is operation or signal input.

Key lock
Display Off, Remote Control or the Projector.
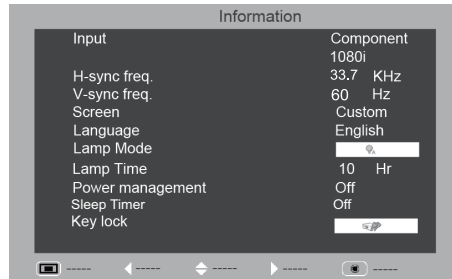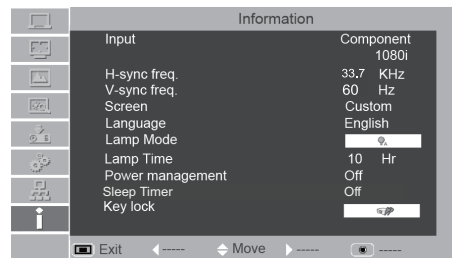
Maintenance

WARNING TEMP indicator

The WARNING TEMP indicator tells in what protection state engaged. The user should check the WARNING TEMP indicator and power indicator to make sure they work.

Projector is in standby state, and WARNING TEMP indicator flashes red.
When its internal temperature exceeds the normal value, it 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 it restores its normal operating temperature, the WARNING TEMP indicator will flash continuously. If you re-start the projector, it will stop flashing.

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. 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 abnormity 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.

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

Indicator

WARNING TEMP indicator is illuminated red.

POWER

LAMP REPLACE

WARNING TEMP

SHIFT

FOCUS

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.

Resetting the filter counter
1. Press Menu on the remote control to display the on screen menu. Press ▲ ▼ to select the icon for the option menu. Then press ► or press OK.
2. Press ▲ ▼ to select Filter counter , and then press ► or press Select. Press ▲ ▼ to select Reset Filter, then press OK. 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.

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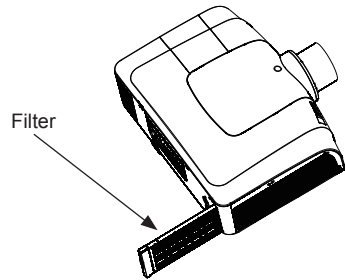
Note:
Keep from dust and smog.Otherwise, the image quality may deteriorate. When operated in an environment with dust and smog, the dust and dirt will accumulate on its lens, liquid crystal board or the lens assembly inside the projector. If that happens, you should contact the local distributor or repair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

Covering the lens properly

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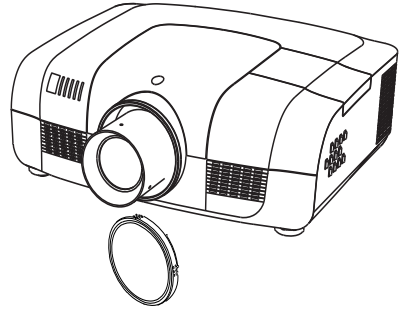
Cleaning the lens

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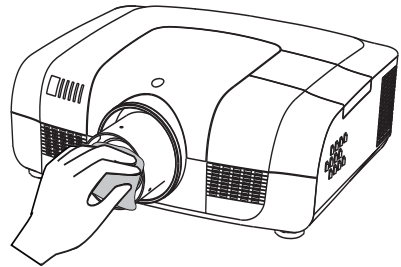
Avoid excessive use of cleaning agent. Abrasive cleaning agent, solvent or other coarse chemicals may scratch the lens.

Cleaning the projector's cabinet

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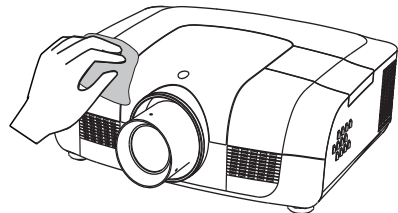
When not used, you should put it into a box to avoid dust and scratch.

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.

Indicator

LAMP indicator lights red.

POWER
LAMP REPLACE
WARNING TEMP
SHIFT
FOCUS

Lamp replacement icon

Replace the lamp

⊘ **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**

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.

⚠ **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.

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 three screws. Hold the handle and pull out the lamp.
4. Install a new lamp with the same model and tighten the three 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.

Handle
Screw
Screw
Lamp
Lamp cover
Screw
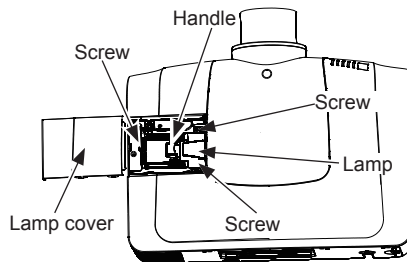
ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

Replacement Lamp Type No.:1300016500

⚠️ **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 calling your dealer or service center for assistance, check the items below once again.
- Make sure you have properly connected the projector to peripheral equipment as described on pages (see page19, page20).
- Make sure all equipment is connected to AC outlet and the power is turned on.
- When the projector does not project an image from the connected computer, restart the computer.

Failure	Solutions
The projector can't be powered on.	- Plug the power cord of the projector into the AC power outlet. - Check whether the power indicator turns red. - The projector can be turned on after the power indicator turns red. - Check the Warning Temp indicator. If it lights red, projector cannot be turned on. - Check the projection lamp
The initial display is not shown.	- Make sure both "Display" and "Logo select" functions are enabled.
Input signals are automatically switched (can't be switched)	-Adjust the search function of input source properly.
Input signal switches automatically.	- Make sure Input search function is adjusted properly.
When the projector is on, the filter warning icon appears.	- Clean the filter immediately.
Image is out of focus.	- Adjust focus of the projector. - Provide proper distance between the projector and the projection screen. - Check the projection lens to see if it needs cleaning.
Image turns over leftward/rightward Image turns over upward/downward	- Check the function of "Rear" and adjust the image. - Check the function of "ceiling" and adjust the image.
Image not bright enough	- Check whether the "Contrast" or "Brightness" is adjusted correctly. - Check whether the "Image mode" is properly selected. - Check the function of the "Lamp Mode". - Check the lamp and replace it.
There is no image.	- Check the connection between your computer or video equipment and the projector. - Make sure the temperature is not out of the specified Operating Temperature (41˚F–95˚F [5˚C–35˚C]). - When BLANK is operating, the image cannot be displayed.
The color of image is abnormal.	- Check whether the "Red" or "Green" or "Blue" is adjusted correctly. - Make sure the Blackboard(Green) is selected in the item "image select".

Failure	Solutions
Auto PC adjust doesn't work.	- Check the signal of input source. Automatic adjustment through PC won't be effective when 480p, 576p, 720p,480i, 576i or 1080i is selected.
Power management doesn't work.	- Power management function can not work while Freeze or BLANK function is running.
The PIN code dialog box popes up in the startup process	- A PIN code is set for locking.
Remote control doesn't work.	- Check the battery of the remote control. - Make sure there is no obstacle between the projector and the remote control. - To use the remote control, keep it within 7 meters away from the projector. - The remote control is not available if the remote control is locked at Key lock under Security of Option section.
The indicator is illuminated or flashes	- Check the state of the projector according to the indicator.
The side control panel doesn't work	- The side control is not available if the top control is locked at Key loc under Security of Option section.
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)	
off	off	off	off	off	Is in power-off state (AC power cord not inserted).
red	off	off	off	off	Is in standby state. Press POWER to power on the projector.
green	off	off	off	off	Is in normal working state.
blinks red	off	off	off	off	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.
blinks green	off	off	off	off	Is in suspension state.
blinks red	blinks red	off	off	off	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).
red	blinks red	off	off	off	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.
off	red	off	off	off	Can't b e 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.
off	off	yellow	off	off	The service life of the lamp is over. You should replace it with a new one in time.
off	off	off	blue	off	Lens is moving and being adjusted.
off	off	off	off	green	Focus being adjusted.

● • • • green.   ● • • • red   ● • • • blue   ● • • • yellow

○ • • • blinks green.   ○ • • • blinks red.   ● • • • off

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

Compatible signal

Basically this projector can accept the signal with the V-,H-Frequency mentioned below:

No.	Resolution	H-freq(KHz)	V-freq(Hz)	Pixel clock(MHz)	Proposed
HDMI-DTV/RGB-DTV/RGBHV-DTV					
1	720*576	31.250	50	27	576P
2	720*480	31.47	59.94	27	480P
3	1280*720	37.50	50	74.25	720P
4	1280*720	45.00	60.00	74.25	720P
5	1280*720	44.96	59.94	74.175	720P
6	1920*1080	28.125	50	74.25	1080I
7	1920*1080	33.75	60.00	74.25	1080I
8	1920*1080	33.72	59.94	74.176	1080I
HDMI-PC/RGB-PC/RGBHV-PC					
1	640*350	31.47	70.09	25.18	PC98
2	720*400	31.47	70.09	28.32	PC98
3	640*400	37.86	85.08	31.5	VGA
4	640*480	31.469	59.94	25.17	VGA
5	640*480	37.861	72.8	31.5	VGA
6	640*480	37.5	75	31.5	VGA
7	640*480	43.27	85.01	36	VGA
8	800*600	35.156	56.25	36	SVGA
9	800*600	37.879	60.32	40	SVGA
10	800*600	48.077	72.18	50	SVGA
11	800*600	46.875	75	49.5	SVGA
12	800*600	53.67	85.06	56.25	SVGA
13	1024*768	48.363	60	65	XGA
14	1024*768	56.476	70.07	75	XGA
15	1024*768	60.02	75.03	78.75	XGA
16	1024*768	68.68	85	94.5	XGA
17	1152*864	67.5	75	108	XGA+
18	1280*1024	63.981	60.02	108	SXGA
19	1280*1024	79.98	75.02	135	SXGA
20	1280*768	47.776	59.87	79.5	WXGA
21	1280*768	60.29	74.89	102.25	WXGA
22	1280*768	68.63	84.84	117.5	WXGA
23	1360*768	47.71	60.02	85.5	WXGA
24	1366*768	47.13	59.66	72.01	WXGA
25	1280*800	49.7	59.81	83.5	WXGA
26	1280*800	62.79	74.93	106.5	WXGA
27	1280*800	71.55	84.88	122.5	WXGA
28	1280*960	60	60	108	SXGA-
29	1400*1050	65.32	59.98	121.75	SXGA+
30*	1600*1200	75	60	162	UXGA
31*	1680*1050	65.29	59.95	146.25	WSXGA+

No.	Resolution	H-freq(KHz)	V-freq(Hz)	Pixel clock(MHz)	Proposed
Component Video input (Y,Pb,Pr)					
1	720*576	15.625	50	13.5	SDTV 576I
2	720*480	15.735	59.94	13.5	SDTV 480I
3	720*576	31.250	50	27	EDTV 576P
4	720*480	31.47	59.94	27	EDTV 480P
5	1280*720	37.50	50	74.25	HDTV 720P/50Hz
6	1280*720	45.00	60.00	74.25	HDTV 720P/60Hz
7	1920*1080	28.125	50	74.25	HDTV 1080I/50Hz
8	1920*1080	33.75	60.00	74.25	HDTV 1080I/60Hz

* RGB and RGBHV signal only.

√ *Note:*
 The specification is subject to change without
 any prior notice.

Configuration of terminals

RGB 1/RGB 2/RGB OUT (analog)
Terminal: Analog RGB (D-sub 15-pin)
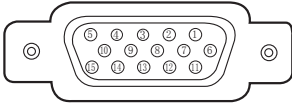
1	Red (Input/output)	9	-----
2	Green (Input/output)	10	Grounding (field synchronizing)
3	Blue (Input/output)	11	Grounding
4	-----	12	DDC data
5	Grounding (line synchronizing)	13	Horizontal synchronizing (compound sync.) input/output
6	Grounding (red)	14	Vertical synchronizing input/output
7	Grounding (green)	15	DDC Clock
8	Grounding (blue)		

CONTROL PORT terminal (D-SUB-9-Pin)
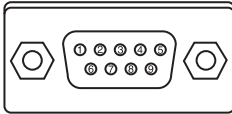
1	-----
2	RXD
3	TXD
4	-----
5	GND
6	-----
7	-----
8	-----
9	-----

LAN terminal

87654321
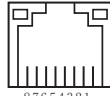
1	TX +	5	-----
2	TX -	6	RX -
3	RX +	7	-----
4	-----	8	-----

HDMI PORT terminal (HDMI Type A 19-Pin)
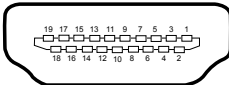
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock–
3	TMDS Data2–	13	CEC
4	TMDS Data1+	14	Reserved (N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1–	16	SDA
7	TMDS Data0+	17	DDC/CEC Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0–	19	Hot Plug Detect
10	TMDS Clock+		

Technical Specifications

Mechanical properties

Dimensions (W×H×D)	534.5 mm x 398.5mm x 193.4mm (without lens)
Net Weight	10.8kg
Adjustbale foot	5°

Monitor's resolution

LCD system	0.79" TFT , active matrix, 3-panel
Monitor'sresolution	1024 x 768 dots

Compatible signals

Color standard	PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N
HDTV signal	480i, 480p, 576i ,576p,720p and1080i
Scanning frequency	Horizontal frequency: 31 kHz-80 kHz,
	Vertical frequency: 50 Hz-85 Hz

Optical elements

Image size (diagonal lines)	40"-400", adjustable
Projection distance	1.039m-17.335m
Lens	F=1.7 ~2.2, f=21.3~34.2mm; Electric zooming and focusing; Zoom times: 1.6
Lamp power	330w

Terminal

Component input terminal	RCA x 3
S-video input terminal	DIN 4-pin x 1
RGB IN1 terminal	D-sub 15-pin x 1
RGB IN 2 / RGB OUT terminal	D-sub 15-pin x 1
RGBHV input terminal	BNC x 5
HDMI terminal	HDMI type A 19-pin x 1
RS-232C terminal	D-sub 9-pin x 1
Network terminal	RJ45

Power supply

Voltage and power consumption	AC 100–240 V(Max. 6A),50/60 Hz

Operating environment

Operating temperature	41°F~95°F (5°C~35°C)
Operating Humidity	0 ~ 80 %
Storage temperature	-4°F~140°F (-20°C~60°C)
Storage Humidity	0 ~ 85 %

Remote control

Battery	AAA 1.5V alkaline battery x 2
Effective area	23.0' (7 m)/±30°
Dimensions	48mm (W) x 25mm (H) x 164mm (D)
Net weight	77g (including battery)

Appendix

● The aforesaid specification is subject to change without prior notice.
● Liquid crystal panel is made on the basis of high standard, where 99.99% of the pixels are effective.
  Due to the nature of the liquid crystal panel, a fraction of the pixels (0.01% or less) may be ineffective.

Accessories	
User's Manual (CD ROM)	
AC power cord	
IR Remote control and battery	
10m Wired Remote Control and battery（Optional）	
RGB cable	
Lens Cover	

Dimensions

Unit: mm
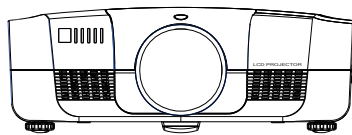
↘
Screw hole used when installed on the ceiling
Screw:M6
Depth:10.0

534. 5

146
114
380. 5
398. 5
465. 1

193. 4
176. 9

300
150
238
58
10
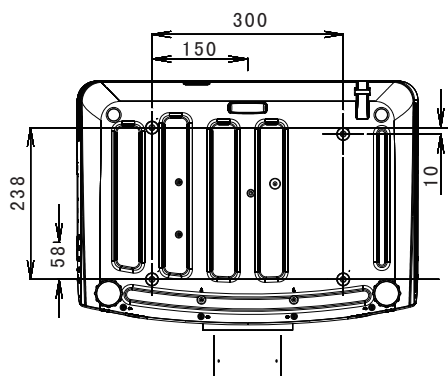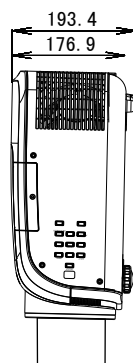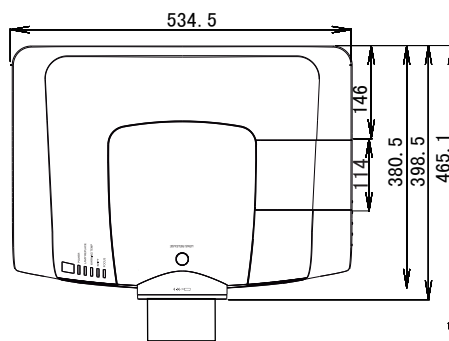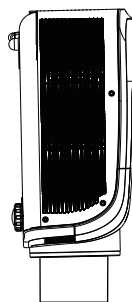
Appendix

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	×	○	○	○	○	○
Accessorie	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.							

PIN code memorandum

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

PIN code lock

Factory default PIN code 111*

Logo PIN code lock

Factory default PIN code 111*

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

RS232 Control Method

NOTE: Connect the PC & projector with serial port cable (female-to-female pins) for projector computer control.

1. Connection

    1.1 Port Setting

Item	Value
Method	Asynchronous communication
Bits per seconds	19200
Data bits	8
Parity	none
Stop bits	1
Flow control	none

    1.1 Wiring
      RS232 cross cable is used.

```
        PC                    Projector
        COM                   Control Port

   CD   1 O                   O 1   N.C.
  RXD   2 O-----\   /-----    O 2   RXD
  TXD   3 O------\ /------    O 3   TXD
  DTR   4 O       X           O 4   N.C.
   SG   5 O------------------ O 5   SG
  DSR   6 O                   O 6   N.C.
  RTS   7 O                   O 7   RTS
  CTS   8 O                   O 8   CTS
 RING   9 O                   O 9   N.C.

    (D-Sub 9 Pin)          (D-Sub 9 Pin)
```

Appendix

2. Commands

Case sensitive, each command end by[CR](Carriage). The time out for each command is one second. If you want to cancel the time out setting temporarily. Please send "#!"[CR].(It should be sent within one second).

Command	Item	Command	Item
A00	POWER ON	A89	Auto PC Adjust
A01	POWER OFF (Power OFF immediately)	AW LAMPMODE NORMAL	Lamp mode normal
A02	POWER OFF	AW LAMPMODE ECO	Lamp mode eco
A05	RGB1	A30	Digital zoom +
A06	RGB2	A31	Digital zoom -
A07	Component	AW SCREEN WIDE	16:9
A33	Video	AW SCREEN FULL	4:3
A34	S-Video	AW SCREEN NORMAL	Normal
AW TERMINAL COMPUTER	RGB 2:Input	AW SCREEN CUSTOM	Custom
AW TERMINAL MONITOR	RGB 2:Output	A19	Dynamic
A8E	Keystone ↑	A11	Standard(Image select)
A8F	Keystone ↓	A12	Cinema
A1C	Menu on	A39	Colorboard
A1D	Menu off	A3A	Navigation right
AR1	Input mode read	A3B	Navigation left
AW AUTOSETUP START	Auto setup	A3C	Navigation up
A43	Still on	A3D	Navigation down
A44	Still off	A3F	Select
A0D	Blank on	A36	HDMI
A0E	Blank off	A37	RGBHV
A8A	Timer	AW LAMPMODE AUTO	Lamp mode auto

2.1 POWER ON

Command	"A00"[CR] (Hex:0x41 0x30 0x30 0x0d)	
Details	Power ON when projector standby	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.2 POWER OFF(Power OFF immediately)

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

2.3 POWER OFF

Command	"A02"[CR] (Hex:0x41 0x30 0x32 0x0d)	
Details	"Power off?" displays while send the command, just like press the "POWER"key.	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.4 RGB 1

Command	"A05"[CR] (Hex:0x41 0x30 0x35 0x0d)	
Details	Change the input to "RGB1".	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.5 RGB 2

Command	"A06"[CR] (Hex:0x41 0x30 0x36 0x0d)	
Details	Change the input to "RGB2".	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.6 Component

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

2.7 Video

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

2.8 S-Video

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

2.9 RGB 2:Input

Command	"AW TERMINAL COMPUTER"[CR] (Hex: 0x41 0x57 0x20 0x54 0x45 0x52 0x4D 0x49 0x4E 0x41 0x4C 0x20 0x43 0x4F 0x4D 0x50 0x55 0x54 0x45 0x52 0x0d)	
Details	Change to " RGB 2: Input".	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.10 RGB 2:Output

Command	"AW TERMINAL MONITOR"[CR] (Hex: 0x41 0x57 0x20 0x54 0x45 0x52 0x4D 0x49 0x4E 0x41 0x4C 0x20 0x4D 0x4F 0x4E 0x49 0x54 0x4F 0x52 0x0d)	
Details	Change to " RGB 2: Output".	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.11 Keystone ↑

Command	"A8E"[CR] (Hex:0x41 0x38 0x45 0x0d)	
Details	Keystone ↑	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.12 Keystone ↓

Command	"A8F"[CR] (Hex:0x41 0x38 0x46 0x0d)	
Details	Keystone ↓	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.13 Menu on

Command	"A1C"[CR] (Hex:0x41 0x31 0x43 0x0d)	
Details	Open the on-screen menu	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.14 Menu off

Command	"A1D"[CR] (Hex:0x41 0x31 0x44 0x0d)	
Details	Close the on-screen menu	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.15 Auto PC Adjust

Command	"A89"[CR] (Hex:0x41 0x38 0x39 0x0d)	
Details	Auto PC Adjustment function	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.16 Input mode read

Command	"AR1"[CR] (Hex:0x41 0x52 0x31 0x0d)	
Details	Get the current input mode. 1-HDMI 2-RGB1 3-RGB2 4-Component 5-S-Video 6-Video 7-RGBHV	
Return	OK	1 [CR] : HDMI 2 [CR] : RGB 1 3 [CR] : RGB 2 4 [CR] : Component 5 [CR] : S-Video 6 [CR] : Video 7 [CR] : RGBHV
	NG	"?" [CR]

2.17 Auto setup

Command	"AW AUTOSETUP START"[CR] (Hex: 0x41 0x57 0x20 0x41 0x55 0x54 0x4F 0x53 0x45 0x54 0x55 0x50 0x20 0x53 0x54 0x41 0x52 0x54 0x0d)	
Details	Start the auto setup function.	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.18 Still on

Command	"A43"[CR] (Hex:0x41 0x34 0x33 0x0d)	
Details	Still on.	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.19 Still off

Command	"A44"[CR] (Hex:0x41 0x34 0x34 0x0d)	
Details	Still off.	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.20 Blank on

Command	"A0D"[CR] (Hex:0x41 0x30 0x44 0x0d)	
Details	Video mute.	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.21 Blank off

Command	"A0E"[CR] (Hex:0x41 0x30 0x45 0x0d)	
Details	Cancel the video mute.	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.22 Timer

Command	"A8A"[CR] (Hex:0x41 0x38 0x41 0x0d)	
Details	Start → Stop→ Off→ Start ...	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.23 Lamp mode normal

Command	"AW LAMPMODE NORMAL"[CR] (Hex: 0x41 0x57 0x20 0x4C 0x41 0x4D 0x50 0x4D 0x4F 0x44 0x45 0x20 0x4E 0x4F 0x52 0x4D 0x41 0x4C 0x0d)	
Details	Change the lamp mode to "Normal".	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.24 Lamp mode eco

Command	"AW LAMPMODE ECO"[CR] (Hex: 0x41 0x57 0x20 0x4C 0x41 0x4D 0x50 0x4D 0x4F 0x44 0x45 0x20 0x45 0x43 0x4F 0x0d)	
Details	Change the lamp mode to "Eco".	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.25 Digital Zoom +

Command	"A30"[CR] (Hex:0x41 0x33 0x30 0x0d)	
Details	Digital zoom +	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.26 Digital Zoom -

Command	"A31"[CR] (Hex:0x41 0x33 0x31 0x0d)	
Details	Digital zoom -	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.27 16:9

Command	"AW SCREEN WIDE"[CR] (Hex: 0x41 0x57 0x20 0x53 0x43 0x52 0x45 0x45 0x4E 0x20 0x57 0x49 0x44 0x45 0x0d)	
Details	Screen "16:9" size	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.28 4:3

Command	"AW SCREEN FULL"[CR] (Hex: 0x41 0x57 0x20 0x53 0x43 0x52 0x45 0x45 0x4E 0x20 0x46 0x55 0x4C 0x4C 0x0d)	
Details	Screen "4:3" size.	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.29 Normal

Command	"AW SCREEN NORMAL"[CR] (Hex: 0x41 0x57 0x20 0x53 0x43 0x52 0x45 0x45 0x4E 0x20 0x4E 0x4F 0x52 0x4D 0x4C 0x0d)	
Details	Screen "Normal" size.	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.30 Custom

Command	"AW SCREEN CUSTOM"[CR] (Hex: 0x41 0x57 0x20 0x53 0x43 0x52 0x45 0x45 0x4E 0x20 0x43 0x55 0x53 0x54 0x4F 0x4D 0x0d)	
Details	Screen "Custom" size.	
Return	OK	"000" [CR]
	NG	"?" [CR]

2.31 Dynamic

Command	"A19"[CR] (Hex:0x41 0x31 0x39 0x0d)	
Details	Image select "Dynamic" mode.	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.32 Standard (Image select)

Command	"A11"[CR] (Hex:0x41 0x31 0x31 0x0d)	
Details	Image select "Standard" mode.	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.33 Cinema

Command	"A12"[CR] (Hex:0x41 0x31 0x32 0x0d)	
Details	Image select "Cinema" mode.	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.34 Colorboard

Command	"A39"[CR] (Hex:0x41 0x33 0x39 0x0d)	
Details	Image select "Colorboard" mode	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.35 Navigation ►

Command	"A3A"[CR] (Hex:0x41 0x33 0x41 0x0d)	
Details	►	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.36 Navigation ◄

Command	"A3B"[CR] (Hex:0x41 0x33 0x42 0x0d)	
Details	◄	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.37 Navigation ▲

Command	"A3C"[CR] (Hex:0x41 0x33 0x43 0x0d)	
Details	▲	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.38 Navigation ▼

Command	"A3D"[CR] (Hex:0x41 0x33 0x44 0x0d)	
Details	▼	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.39 Select

Command	"A3F"[CR] (Hex:0x41 0x33 0x46 0x0d)	
Details	Select	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.40 HDMI

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

2.41 RGBHV

Command	"A37"[CR] (Hex:0x41 0x33 0x37 0x0d)	
Details	Change the input to "RGBHV"	
Return	OK	"-" [CR]
	NG	"?" [CR]

2.42 Lamp mode auto

Command	"AW LAMPMODE AUTO"[CR] (Hex: 0x41 0x57 0x20 0x4C 0x41 0x4D 0x50 0x4D 0x4F 0x44 0x45 0x20 0x41 0x55 0x54 0x4F 0x0d)	
Details	Change the lamp mode to "Auto"	
Return	OK	"000" [CR]
	NG	"?" [CR]

LAN control

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.

< NOTE >

• Use a standard LAN cable with this Projector. Cat5 or better with a RJ45 connector.
• Many network connection problems during set up can often be fixed by re-setting the router or modem. After connecting the player to the home network, quickly power off and/or disconnect the power cable of the home network router or cable modem. Then power on and/or connect the power cable again.
• A 10 Base-T or 100 Base-TX LAN port is required for connection to this Projector. If your internet service does not allow for such a connection, you will not be able to connect the Projector.
• To connect to the wireless router, a router that supports wireless connection is necessary, and the wireless connection function of the corresponding router must be activated.
• To connect to a wireless router, verify the SSID and security setting of the wireless router. Please refer to the user guide of the corresponding router for SSID and security setting of the wireless router.
• When Ad-hoc is used, it may not be able to connect according to the device (for example : notebook computer) that is connected.
• The connection method may vary according to the manufacturer of the wireless router.

Operation procedures:

1 . Press MENU button of the remote or the projector.

The MENU will display. Use arrow button ▲ ▼ to select network icon.

2. Press SELECT or ► to enter network setting .

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

4. Network Setting with DHCP "On" Set DHCP to On: Assign an IP address to the projector from an external DHCP server automatically.

(1) Press SELECT, use ▲ ▼ to choose "DHCP On" and then press SELECT again.

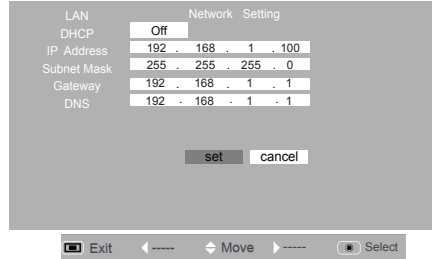(2) Select SET by ▲ ▼ and then Press SELECT. Then it will display "waiting…"on the screen. Wait until it disappears.
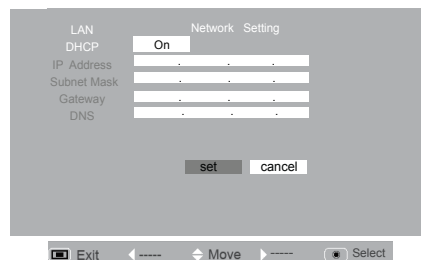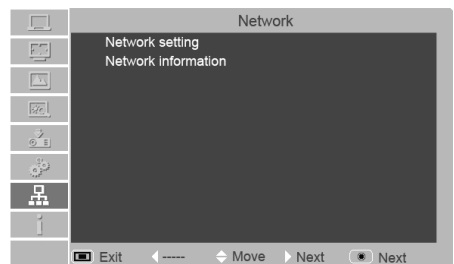
Appendix

5. Network Setting with DHCP "Off"

Set DHCP to Off: Assign an IP address manually. Set IP Address as the IP Address format of PC.

(1) Press SELECT, use ▲ ▼ to choose "DHCP Off " and then press SELECT again.

(2) Press the ▲ ▼ to select the option to adjust, and press the SELECT button.

(3) Press the button to select the instructions to adjust the block.

(4) Press the ▲ ▼ direction button to adjust value.
   - Select an IP address.
   - Select subnet mask number.
   - Select the default gateway of the network connected to the projector.
   - Select DNS number.

(5) Select SET by ▲ ▼ and then Press SELECT. Then it will display "waiting…"on the screen. Wait until it disappears.

	Network Setting
LAN	
DHCP	Off
IP Address	192 . 168 . 1 . 100
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
DNS	192 . 168 . 1 . 1

set   cancel

▣ Exit ◀----- ◆ Move ▶----- ◉ Select

< Note >

• If Network Setting is not working, check your network conditions. Check the LAN cable connection.

• IP Auto Setting (DHCP On) : Select it if there is a DHCP (Dynamic Host Configuration Protocol) server on the local area network (LAN) via wired connection, the Projector will automatically be allocated an IP address. The IP address will automatically be determined. Connection to DHCP may not be possible when the firewall is installed or according to the model of the computer.

• IP Manual Setting (DHCP Off): Select it if there is no DHCP server on the network and you want to set the IP address manually.

• Press the menu button to exit the menu screen.

Web page Operation :

1. Check IP address:
   Enter network menu and select network information. Press select to check IP address.
2. Enter the IP address into the address bar.
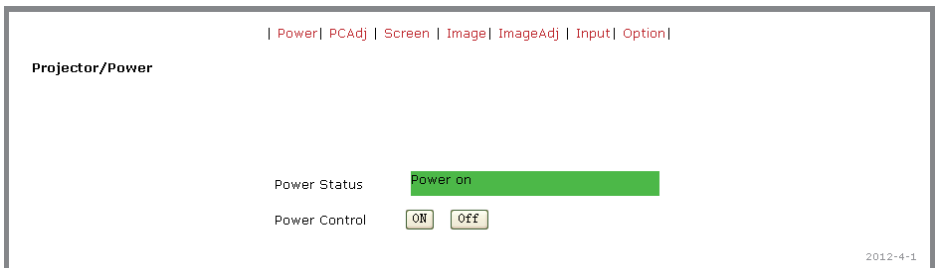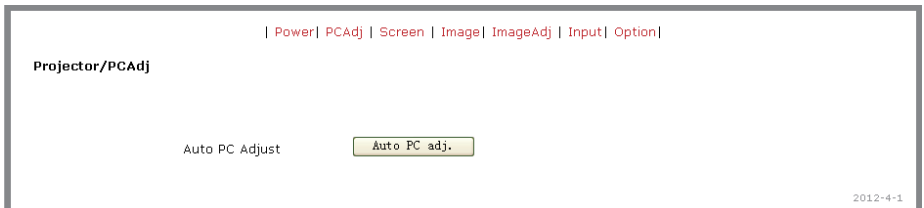   ex) http://192.168.1.100
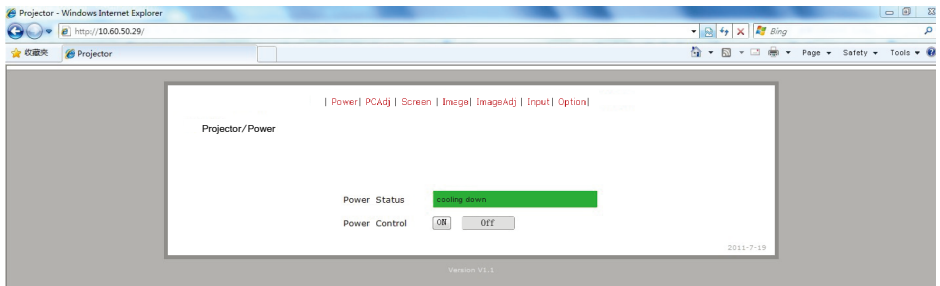
< Note >
• Information on this page needs to be updated every time, when the Web page does not respond correctly.
• Some menus may not appear on the menu windows due to the network system limitations.

3. Set the corresponding items of the projector by the website
1) Power: Enable the power On or Off by selecting the "On" or "Off".

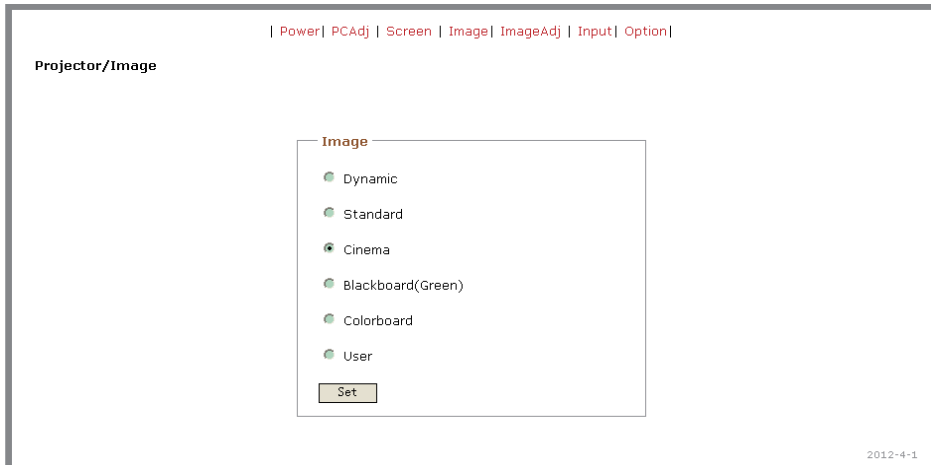2) PCAdj: Auto PC (RGB) adjustment will be done by "Auto PC Adj".
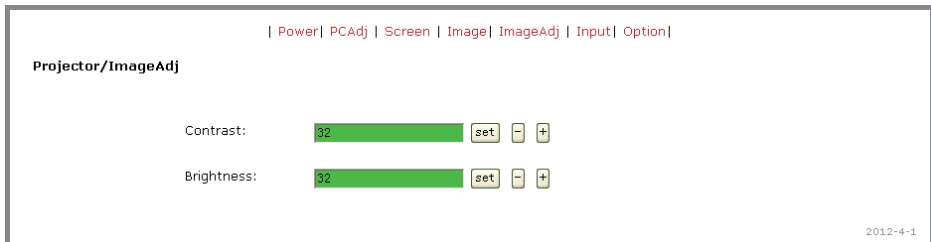
Appendix

3) Screen: Adjust the screen aspect ratio.
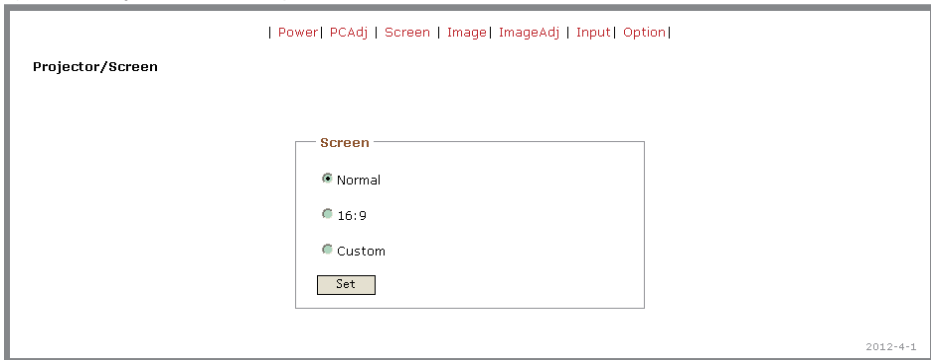
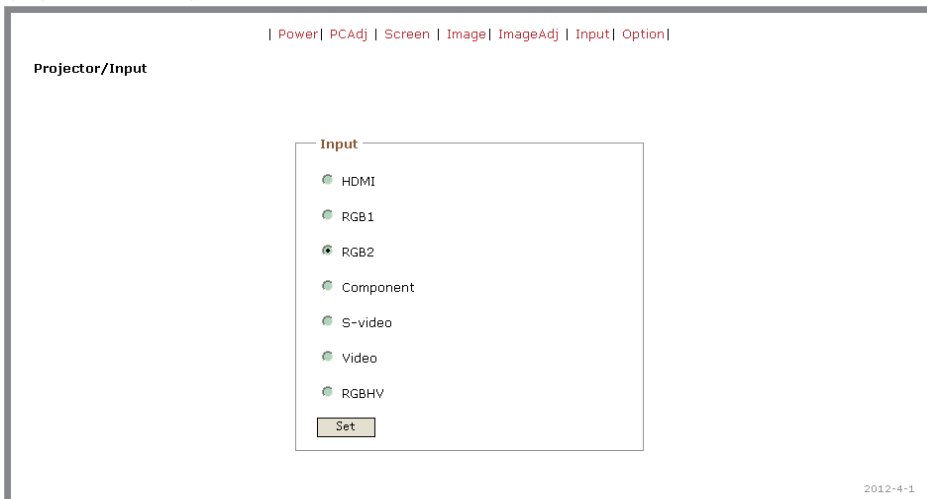4) Image : Preset Image mode can be selected.

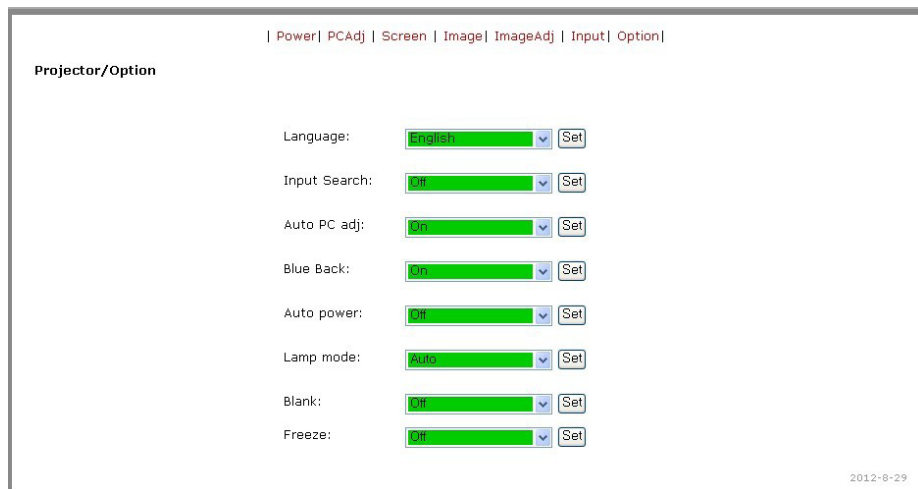5) ImageAdj : Contrast and Brightness Values can be adjusted.

<Note>
 • +/- : it can changes only one step value.
 • set : If we want to direct adjsutment, then put a value and then press "set".
   - the maximum values is 63.
 • Click the Refresh Menu in the Web Page when the Web Page does not responds correctly.

6) Input: Select the input source.

7) Option: Select other setting status.

<Note>
• Information on this page needs to be updated every time, when the Web page does not respond correctly.
  ex) Click the Refresh Menu in the Web page for updating the information.

LG

Life's Good

The model and serial number of the projector is located on the back or bottom side of the projector.
Record it below should you ever need service.

MODEL _____

SERIAL _____

www.lg.com