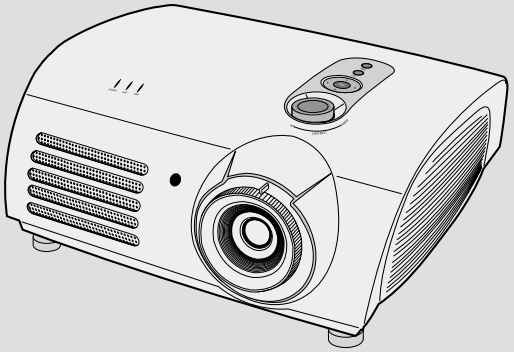
SAMSUNG

ELECTRONICS

SAMSUNG

SHP-700

SAMSUNG PROJECTOR



Owner's Instructions

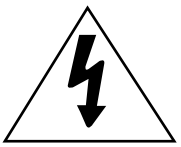
AA68-00000A-00

Warning! Important Safety Instructions

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Caution: FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

Attention: pour eviter les chocs electriques, introduire la lame le plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws.

Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung TV represents the latest in television technology. We designed it with easy-to-use on-screen menus and closed captioning capabilities, making it one of the best products in its class. We are proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

Important Safety Information

Always be careful when using your TV receiver. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- Read all safety and operating instructions before operating your TV.
- Keep the safety and operating instructions for future reference.
- Heed all warnings on the TV receiver and in the operating instructions.
- Follow all operating and use instructions.
- Unplug the TV receiver from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.
- Do not use the TV receiver where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Do not place the TV on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling TV can cause serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the TV. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the TV and cart with care. Quick stops, excessive force, and uneven surfaces can make the unit and cart unsteady and likely to overturn.

- Provide ventilation for the TV receiver. The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the TV receiver on a bed, sofa, rug, or other similar surface. Do not place it near a radiator or heat register. If you place the TV receiver on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.
- Operate your TV receiver only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.
- Use only a grounded or polarized outlet. For your safety, this TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.

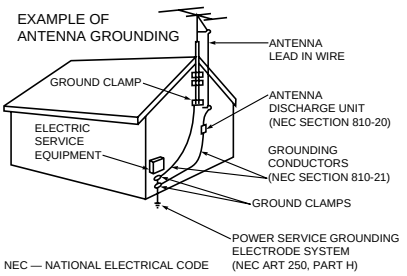
- Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

- Unplug the TV from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.

- Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.

- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.

- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the TV.



- Ground outdoor antennas. If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

- Do not attempt to service the TV yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - when the power-supply cord or plug is damaged
  - if liquid has been spilled on the unit or if objects have fallen into the unit
  - if the TV has been exposed to rain or water
  - if the TV does not operate normally by following the operating instructions
  - if the TV has been dropped or the cabinet has been damaged
  - when the TV exhibits a distinct change in performance

- If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to normal.

- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.

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

FCC Information

User Instructions
The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:

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 receptions, 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.

User Information
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

The party responsible for product compliance:
SAMSUNG ELECTRONICS CO., LTD
America QA Lab of Samsung
3351 Michelson Drive,
Suite #290, Irvine, CA92612 USA
Tel) 949-975-7310
Fax) 949-922-8301

Warning
User must use shielded signal interface cables to maintain FCC compliance for the product.

Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.
For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap.
For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

IC Compliance Notice
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numérique de classe B respecte toutes les exigences du Règlemo équipements produisant des interférences au Canada.

PCT Notice

АЯ46

VCCI
This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

1 Before You Begin

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Product Features

Wide DMD (Digital Micromirror Device) Chip

■ The DMD chip provides a higher screen resolution with an aspect ratio of 16:9 which gives you the best visual experience. The optimized screen frame allows you to watch software with a 16:9 aspect ratio recorded by DVD or DTV.
※ DLP (Digital Light Processing) and DMD (Digital Micromirror Device) are registered trademarks of Texas Instruments.

Maximum Screen Resolution: 720P

■ The high resolution panel of 921,000 pixels (1280 X 720 dots) provides not only an HDTV 720P signal but also high quality pictures which have the same resolution as the original.

Minimizing Fan Noise

■ The new optical engine developed for this product minimizes the fan noise which can hinder your viewing pleasure.

Using with DTV

■ Viewing DTV pictures and 16:9 wide-screen pictures is possible when connected to a DTV decoder or similar video system.
■ DTV is a general term used to refer to the new digital television system in the USA.

New Progressive Mode and Film Mode

■ Pictures are optimized by converting a cross signal into Progressive Mode. This is useful for watching slow motion or still pictures. There are three modes available.

New Video Circuit

■ Provides a high quality picture with minimal dot trawl and cross color noise.

Convenient Graphic User Interface (GUI)

■ The Main System composed of various color icons which allows you to control pictures simply and easily.

Color Temperature Control

■ This function is used to control color temperature in order to appropriately adapt the shape of the pictures input into the projector.

Gamma Compensation

■ The Gamma Value may be adjusted according to the input pictures in order to optimize picture density.

Brightness Adjustment

■ This button is used to control the quantity of light projected. You can adjust the brightness, power consumption, and fan noise by selecting General or Bright.

Component Signal Video Input

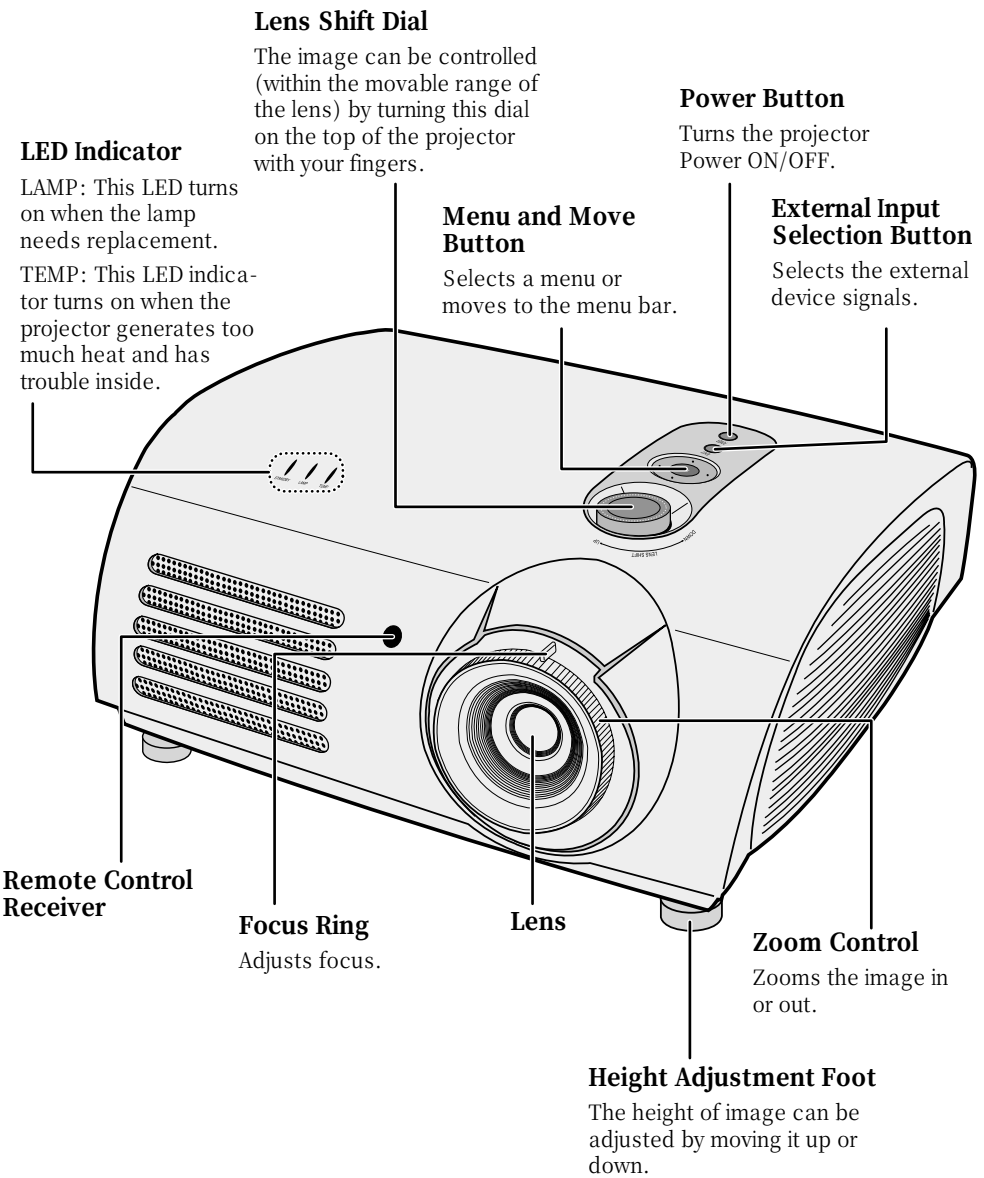
■ Component Signal Video Inputs (Y,Cb,Cr) are used. Divided component signals are provide better color and picture quality.

Direct Computer Compatibility

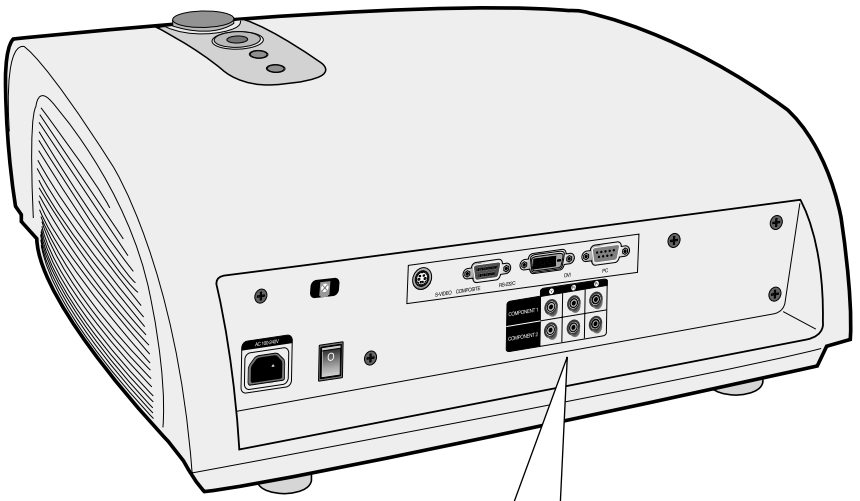
■ Multi-Scan RGB inputs can receive signals from VGA (640 dots X 480 lines), SXGA (1280 dots X 1024 lines), and Macintosh (from 13 to 21 inches) without using auxiliary hardware.

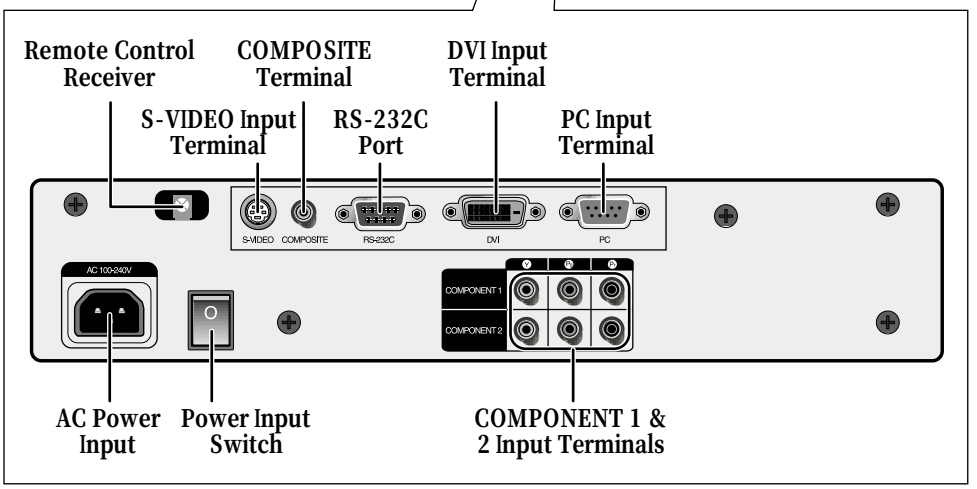
List of Parts

Front

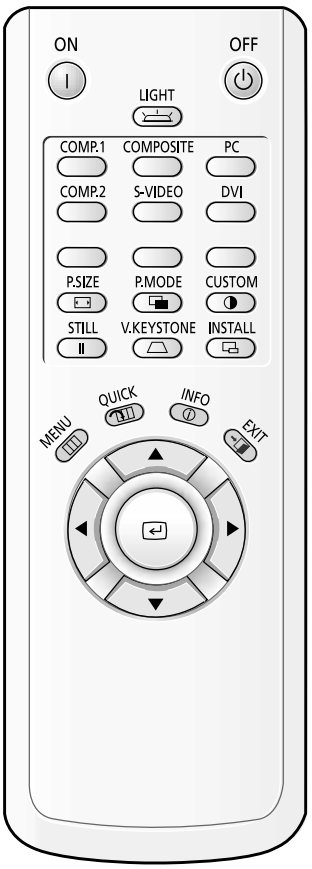


Rear




Remote Control Receiver
COMPOSITE Terminal
DVI Input Terminal
S-VIDEO Input Terminal
RS-232C Port
PC Input Terminal
S-VIDEO
COMPOSITE
RS-232C
DVI
PC
AC 100-240V
COMPONENT 1
COMPONENT 2
AC Power Input
Power Input Switch
COMPONENT 1 & 2 Input Terminals

Remote Control Buttons



❶ Power button
Turns the projector power ON/OFF.

❷ LIGHT button

❸ P.SIZE button

❹ P.MODE button

❺ CUSTOM button

❻ STILL button
Stops the moving image (freeze frame).

❼ V.KEYS button

❽ INSTALL button

❾ MENU button

❿ QUICK button
Moves to the previous menu.

⓫ INFObutton

⓬ EXIT button

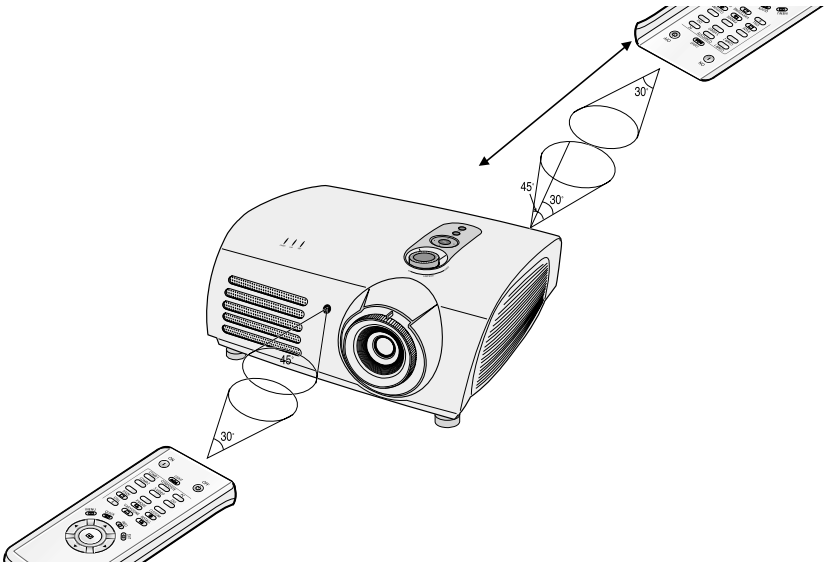
⓭ ENTER button
Selects a menu.

⓮ Move button
Selects a menu or moves to the menu bar.

When the Remote Control Does Not Operate

Please check these items:
1. Check whether the polarities of batteries are correct.
2. Check whether a battery has run out.
3. Check whether a power failure occurred.
4. Check whether the power cord is disconnected.
5. Check whether a fluorescent or neon lamp is turned on nearby.

Using the Remote Control



Remote Control Receiving Angle

- The remote control should be used within 7 ~ 10m from the remote control receiver on the projector.
- Acceptable angles are up to 30 degrees to the right and left.

Properly Dispose of Used Batteries

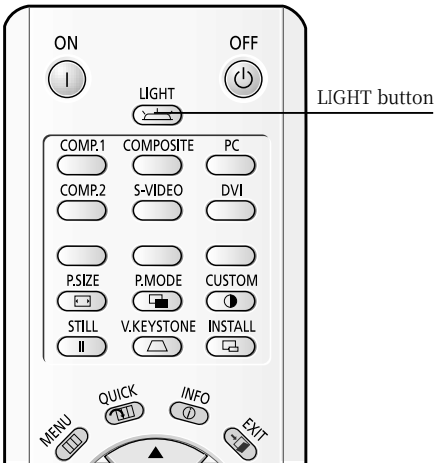
- Properly dispose of used batteries due to adverse environmental effects.

Package Contents

※ Please contact a Samsung service center, household appliances store, or electrical parts shop to purchase accessories and other devices separately.

Remote Control, Batteries (Two AA size)	Power Cord	Owner's Instructions	Video Cable	Lens Cover

Using the Remote Control in a Dark Room (Using BACK LIGHT)



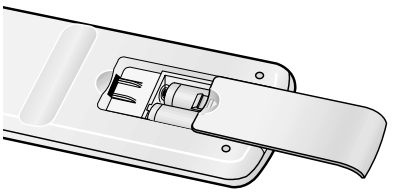
Press the LIGHT button on the remote control, the Back Light is turned on for about 5 seconds.
Press the LIGHT button once again to turn the Back Light off.

Inserting Batteries

1 Press and push forward on the ▼ part of the battery cover to remove it.

2 Insert new batteries. Make sure that the + & - polarities are correct.

3 Close the cover.



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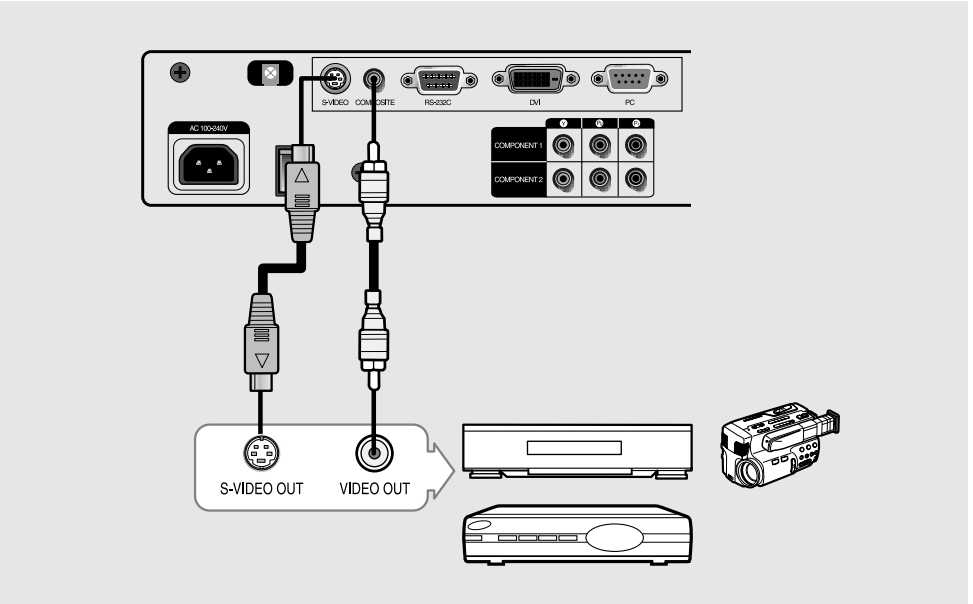
Connecting to External Devices

Connecting to S-VIDEO or COMPOSITE Terminals

Connect to these terminals when you want to connect the projector with a video player, camcorder, digital satellite receiver, DVD, or cable-broadcasting receiver.



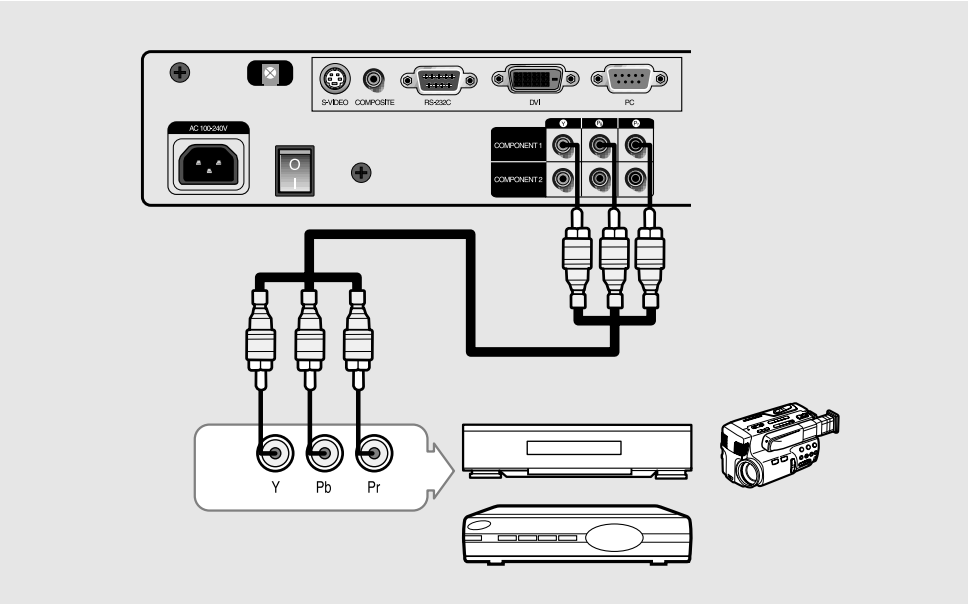
Connect the COMPOSITE (or S-VIDEO) terminal of your projector and the COMPOSITE (or S-VIDEO) output terminal of the external device with a video cable.

Note

- Make sure to turn off your projector and external devices before connecting them.
- The projector does not support audio output.
  (A separate audio system should be used for sound.)

Connecting to COMPONENT (Y, Pb, Pr) terminals

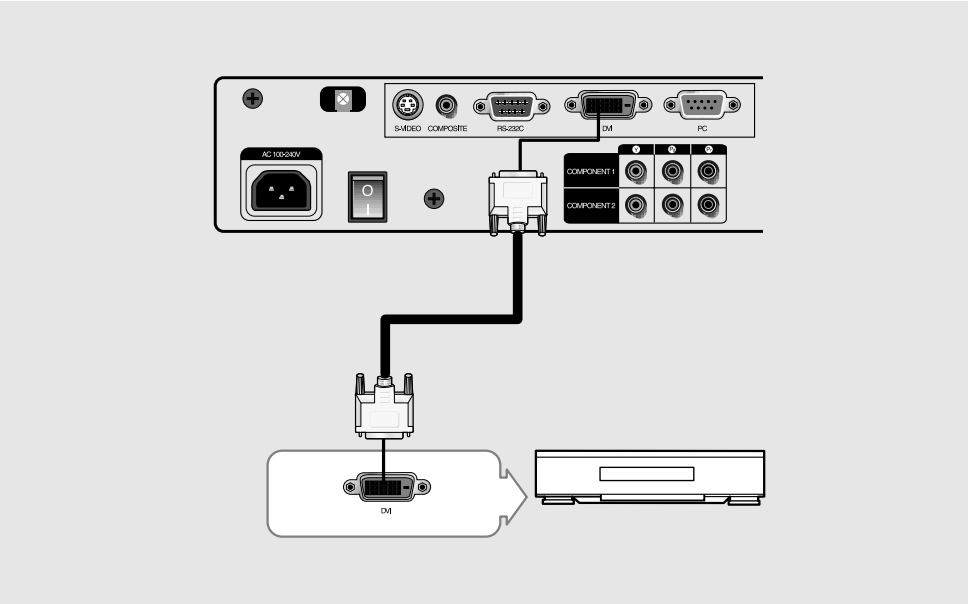
Connect to these terminals when you want to connect the projector with a DVD, DTV, digital camcorder, or digital satellite receiver.



Connect the COMPONENT 1 (or COMPONENT 2) terminals of your projector and the component video output terminals of the external device with a video cable.

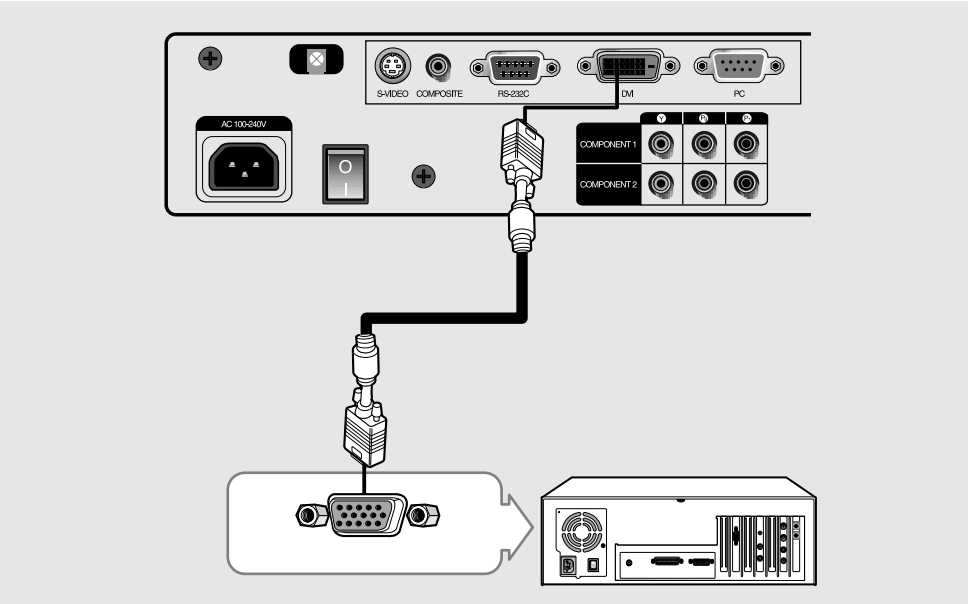
Connecting to Devices that have a DVI Terminal

aConnect to the DVI terminal when you want to connect the projector with DTV, digital satellite receiver, etc.



Connect the DVI input terminal of your projector and the DVI output terminal of the external device with a DVI cable.

Connecting to a PC



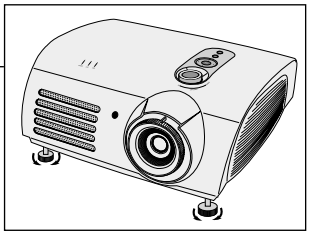
Connect the PC input terminal of your projector and the Monitor output terminal of your PC with a PC (D-SUB) cable.

Note

- Make sure to turn off your projector and PC before connecting them. After connecting the two, be sure to turn on the projector first and then the PC.
- The RS-232C terminal is used for repair or software upgrades.

Installing Your Projector

Install your projector at a right angle to the screen by adjusting the height adjustment feet.
Move your projector slightly forward or backward until the screen is clear.

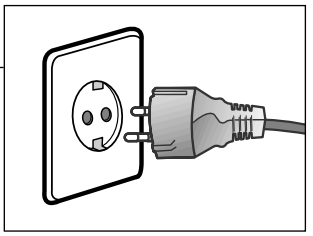


Note

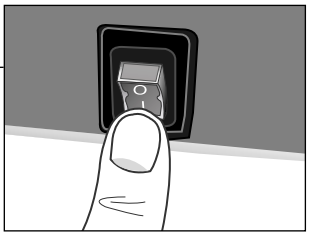
- Adjust the lens toward the center of the screen. The screen may be distorted or unclear if your projector is not installed at a right angle to the screen.
- Do not install your projector in a bright place, as the screen may be not seen clearly.
- Draw the curtains if your projector is installed in a bright place.

Powering On/Off

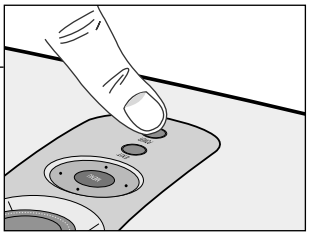
1 Connect the power cord to a wall outlet after connecting your projector to an external device.



2 Press the "-" part of the switch on the back of your projector.



3 Press the POWER button on the top of your projector or the POWER ON button on the remote control.

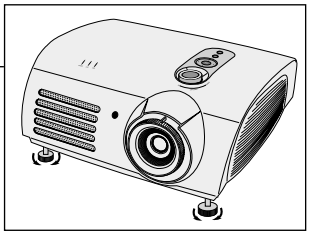


Note

- The cooling fan stops after about 90 seconds when the power is turned off.
- Disconnect the power cord after the cooling fan has stopped.

Adjusting the Projector Feet

Adjust the screen position by turning the height adjustment feet on your projector.

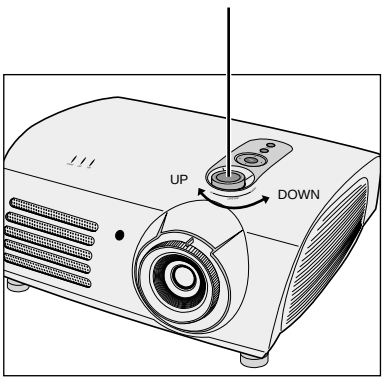


Note

- The position can be adjusted within about 5 degrees from the standard position.
- The screen may be distorted when you adjust the projector height.

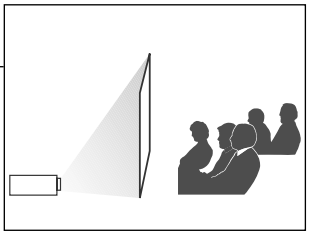
Using the Lens Shift Dial

You can move the lens up and down by turning the lens shift dial on the top of your projector with your fingers.



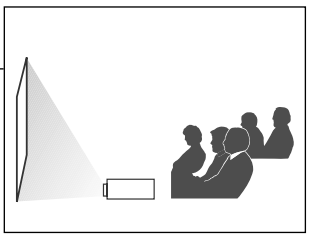
Installing Your Projector Behind the Screen

You can use a translucent screen and install your projector behind the screen.
In this case, the images projected are reversed.



Installing Your Projector In Front of the Screen

Install your projector in front of the screen.



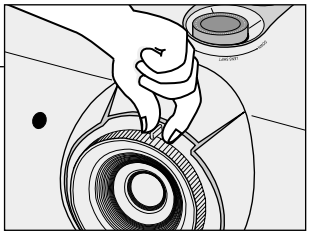
Note

- You can hang your projector on the ceiling across from the screen.
- Contact an expert to install your projector using brackets when installing it on the ceiling.

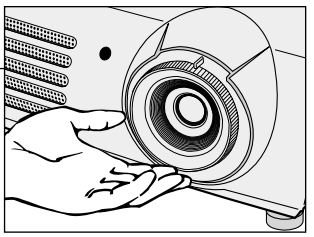
Using the Zoom and Adjusting Focus

Zoom-in/out using the zoom control and Focus using the diaphragm.

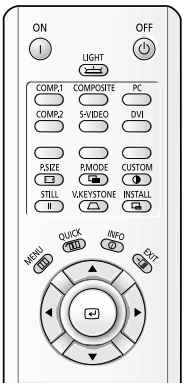
1 Zoom-in or out by turning the zoom control.



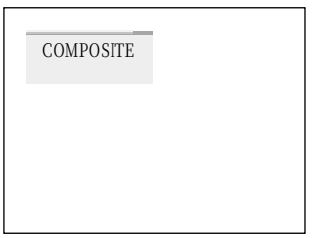
2 Adjust the Focus by turning the diaphragm.



Selecting an External Device

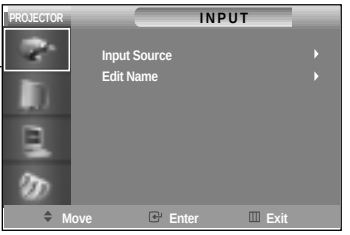


Select the desired external device by pressing the Input button on the remote control or the Source button on your projector.
The message "No input signal" is displayed when there is no external device connected.

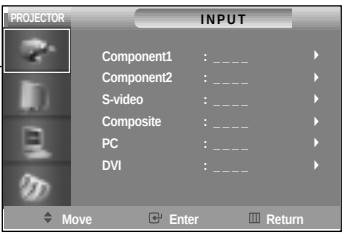


Editing Input Device Names

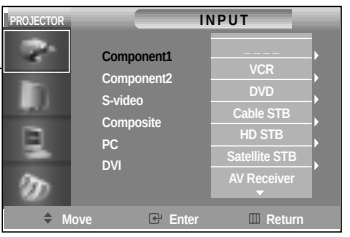
1 Press the Menu button and select INPUT.



2 Select the Edit Name menu from the INPUT menu.



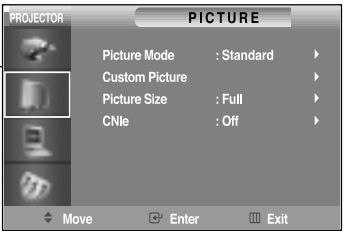
3 Select an item (Component1, Component2, or S-Video…) from the Edit Name menu and select the name of device connected. Repeat for all items on the menu.
Press the Menu button again and the menu screen will disappear.



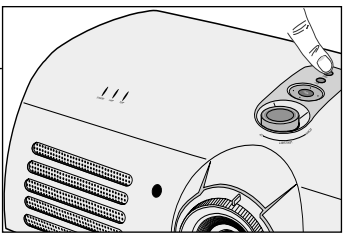
Gamma Compensation

This function provides higher picture quality by brightening the dark part of picture.

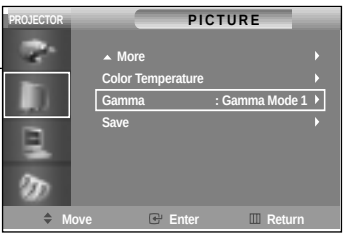
1 Press the Menu button and select Picture.



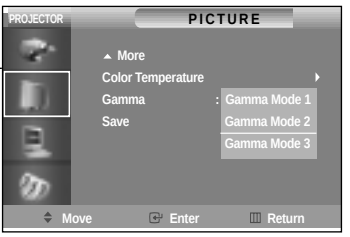
2 Select Custom Picture using the Up(▲) or Down(▼) button on the Picture menu.



3 Select Gamma using the Up(▲) or Down(▼) button while in Custom Picture mode.
Select More to display the Gamma menu.



4 Select your desired mode among Gamma1, Gamma2, and Gamma3 using the Up(▲) or Down(▼) button while in Gamma mode.

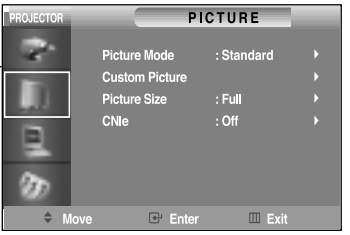


Note

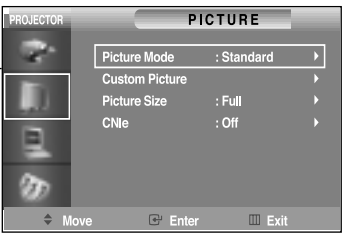
Gamma Mode
- Gamma 1: Brightens the dark part of picture more effectively.
- Gamma 2: Emphasizes the dark part of picture by making it darker.
- Gamma 3

Setting Screen Modes

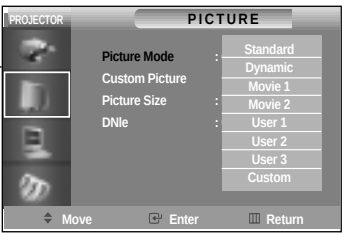
1 Press the Menu button and select Picture.



2 Select the Picture Mode menu using the Up(▲) or Down(▼) button while in the PICTURE menu.

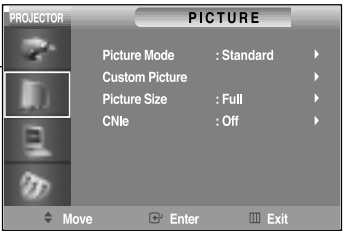


2 Select your desired mode among Standard, Dynamic, Movie1, etc… using the Up(▲) or Down(▼) button while in the Picture Mode menu.

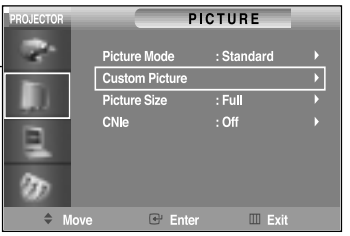


Customizing Screen Modes

1 Press the Menu button and select Picture.



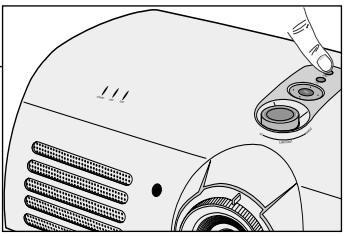
2 Select Custom Picture using the Up(▲) or Down(▼) button on the Picture menu.

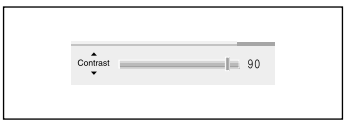


3 Select your desired item(s) among Contrast, Brightness, Sharpness, etc . . . using the Up(▲) or Down(▼) button

while in the Custom Picture menu, and adjust it to your desired level.

Use the Left(◀) or Right(▶) button to control each item.





Note

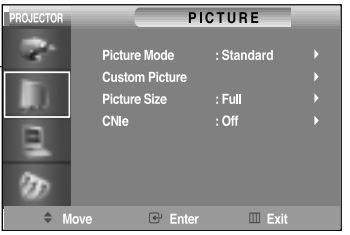
Screen Modes

- Contrast: Adjusts darkness and brightness differences between objects and background.
- Brightness: Adjusts the brightness of the entire screen.
- Sharpness: Adjusts the outline clarity of objects.
- Color: Adjusts the color depth to make it lighter or deeper.
- Tint: Allows you to adjust the color of objects to a more natural color.

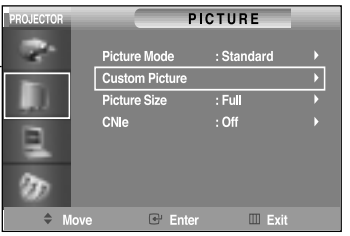
Adjusting Color Temperature

Adjusts the color temperature according to the type of image input into the projector.

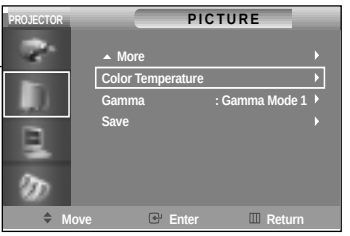
1 Press the Menu button and select Picture.



2 Select Custom Picture using the Up(▲) or Down(▼) button on the Picture menu.



3 Select Color Temperature using the Up(▲) or Down(▼) button while in the Custom Picture menu.



4 Select each separately: R-Gain, G-Gain or B-Gain using the Up(▲) or Down(▼) button while in the Color Temperature menu, and adjust it to an appropriate value.

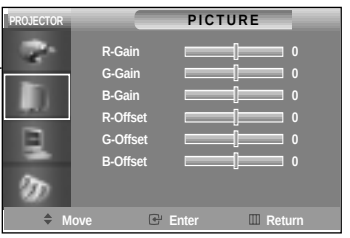
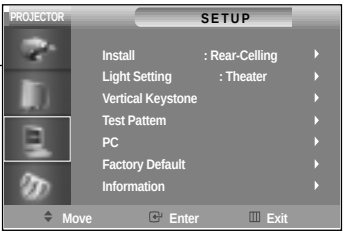


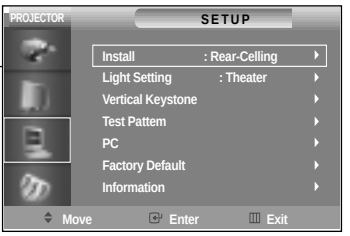
Image Projection Method

You can view screen images in Reverse mode (image projected in reverse) or Inverse mode (image projected from the opposite side).

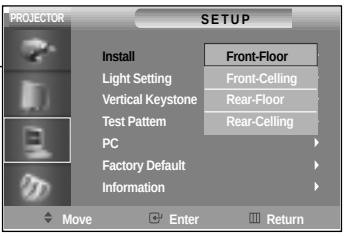
1 Press the Menu button and select the SETUP menu.



2 Select the Install menu using the Up(▲) or Down(▼) button while in the SETUP menu.



3 Select your desired image projection mode from the Install menu using the Up(▲) or Down(▼) button.



Note

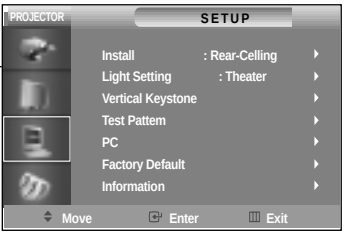
Image Projection Modes

Mode	Item	Description
Front Floor	Front	Normal Screen
Front Ceiling	Front + Ceiling	Reverse Mode (Image projected in reverse)
Rear Floor	Rear	Inverse Mode (Image projected from the back of screen
Rear Ceiling	Rear + Ceiling	Reverse Inverse Mode (Image projected in reverse from the rear of screen)

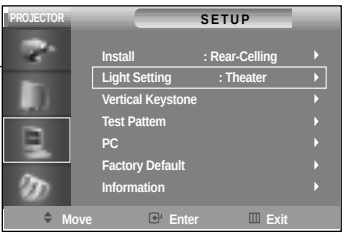
Setting Up the Theater Function

You can watch the screen in Theater mode by adjusting the quantity of light.

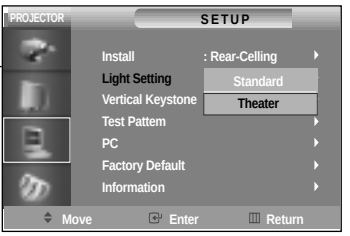
1 Press the Menu button and select the SETUP menu.



2 Select the Light Setting menu using the Up(▲) or Down(▼) button while in the SETUP menu.



3 Select Theater from the Light Setting menu using the Up(▲) or Down(▼) button.



3 Troubleshooting and Other Information

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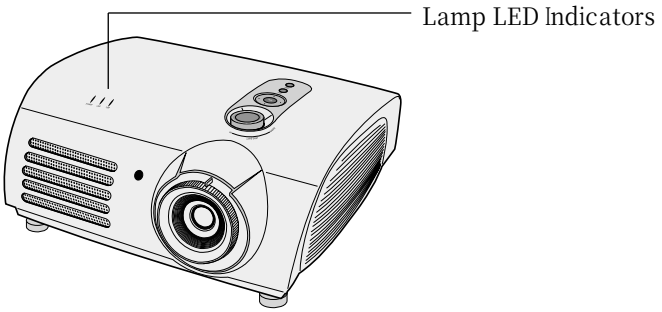
Lamp LED Indicators



- The warning LED indicator notifies you when a problem occurs inside the projector.
- The TEMP LED indicator turns on when the projector generates too much heat.
- The LAMP LED indicator turns on when you should replace the lamp.

Common Troubles and Actions

LED Indicator	Cause	Symptom	Action
TEMP LED Indicator	The internal temperature is high.	Air is not flowing into your projector.	Move your projector to a well-ventilated place.
		Air filter is full.	Clean the filter.
		Cooling fan is out of order. Internal circuit has failed.	Please contact a service center or product distributor.
LAMP LED Indicator	The lamp does not turn on.	The lamp has burned out. The lamp circuit is out of order.	Please replace the lamp. Please contact a service center or product distributor.
	The lamp should be replaced.	The lamp has been used for more than 1,900 hours.	

참고

- If a warning LED indicator turns on, please use the projector only after it has completely cooled down (please wait for more than 5 minutes).
- When the power is turned off and on, the lamp LED indicators may blink in order to prevent the loss of power consumption.
  In this case, disconnect the power cord from the power outlet and reconnect it.
- Please contact a service center or product distributor when the lamp is broken.
- Do not remove the lamp immediately after using your projector. Please disconnect the power cord and wait 1 hour before replacing the lamp, as it will have heated up during use.

Replacing the Lamp

- Be careful not to touch the inside of the projector or the lamp gauge.
- Make sure to work only with your hands (do not insert foreign objects into the projector).
- Make sure to turn off the main power and disconnect the power cord before replacing the lamp.

1. Turn off the projector.
   Press the Power button and wait until the cooling fan has stopped.

2. Disconnect the power cord.

3. Remove the lamp gauge cover.
   Unfasten the lamp gauge cover screws on the back of projector, and take the cover off.

4. Disconnect the power cord.
   Unfasten the screws securing the lamp gauge and pull the lamp gauge out to the front.

5. Insert a new lamp gauge.
   Make sure to push the lamp gauge in until it is in place, and then re-fasten the screws.

6. Close the lamp gauge cover
   Close the projector cover and re-fasten the screws

7. Connect the power cord.

8. Turn on the projector and initialize the lamp time.

Cleaning the Air Filter

- One air filter has been installed inside the projector to optimize operating time.
- Clean the air filter periodically using a vacuum cleaner.
- Clean the air filter every 100 hours.
- Clean the air filter more often if it is used in a dusty or smoky place.

Cleaning Procedure

1. Disconnect the power cord.
2. Insert the hose of vacuum cleaner into the drainpipe of the air filter, and remove the dust.

Troubleshooting

Symptom	Action
The Screen does not display.	• Check whether the power cord of the projector is disconnected. • Check whether the input selection is correct. • Check whether the cables on the back of the projector are connected correctly. • Check whether the remote control batteries have run out. • Make sure that Color or Brightness has not been set to minimum.
The Color is not good.	• Check whether Tint or Contrast is adjusted correctly.
The Picture is faint.	• Adjust the focus. • Make sure that the projection distance is not too short or long for the focus.
The OSD is not displayed.	• The Display mode is set to Level A or Level B in order to prevent a part or whole of the screen from being displayed.
A Strange Noise is coming from the projector.	• When the screen is normal, noise may occur when the cabinet contracts and expands due to temperature changes. • It does not affect product quality and performance. • The Lamp LED indicator is turned on. • Refer to Lamp LED Indicators.
A Noise Line appears on the screen.	• Adjust the horizontal noise setting. • Noise may appear when your projector works with a computer. • Set the noise filter to On using RS-232C.
A Green Color appears on the Input Signal Indicator.	• Change the input signal type.

Specifications

Classification \ Model		SP-H700	SP-H800	SP-Hxx
Panel	Size	0.87"	0.87"	0.87"
	Resolution	1280 × 720	1280 × 720	1280 × 720
Lamp	Type	250W UHP (BY PHILIPS)	250W UHP (BY PHILIPS)	250W UHP (BY PHILIPS)
	Life	2000Hrs	2000Hrs	2000Hrs
Color Wheel	Size	55mm	55mm	55mm
	Type	6 Segment	6 Segment	6 Segment
전원	Consumption	350W	350W	350W
	AC Input Range	100V ~ 240V	100V ~ 240V	100V ~ 240V
	Frequency	50 ~ 60Hz	50 ~ 60Hz	50 ~ 60Hz
Dimension (mm)	Set Only	384×425×177	384×425×177	384×425×177
	Packing	460×515×290	460×515×290	460×515×290
Weight (Kg)	Set Only	9	9	9
	Packing	11.6	11.6	11.6
Accessory		Owner's Instruction, Power Cord, Remote control, Signal Cable		
Features	Brightness	800 ANSI	800 ANSI	??? ANSI
	Contrast	1800:1	3000:1	????:1
	Screen Size	Diagonal 33 ~ 300 Inch		
	Projection Distance	1140 ~ 13645 mm		
	Keystone	Vertical	Vertical	Vertical
Rear In/Out Terminals	DVI	1) Connector Type: DVI-D		
		2) Available Format		
		PC: VGA ~ SXGA		
		DTV: 480p, 720p, 1080i		
		3) Timing: Refer to Table 1 (PC & DTV Timing)		
	PC	1) Connector Type: 15Pin D-Sub		
		2) Timing: Refer to Table 1 (PC & DTV Timing)		
	Component 1	1) Signal Type: YPbPr		
	Component 2	2) Available Format: 480i, 480p, 720p, 1080i		
		3) Timing: Refer to Table 1 (PC & DTV Timing)		
	S-Video	Available TV System: NTSC, NTSC4.43,		
	Composite	PAL(B/G, D/K, M, N, I), SECAM(B/G, D/K, I, L)		
	RS-232C	Only for Service		
Environment	Temp. & Humidity	Operating: Temp. (0 ~ 40), Humidity(20 ~ 80%)		
		Storage: Temp. (-10 ~ 50), Humidity(20 ~ 80%)		
	Safety	Class B		
	Noise(Standard Mode)	32dB	32dB	32dB
	Noise(Theater Mode)	32dB	32dB	32dB