

To disconnect the apparatus from the mains, the plug must be pulled



out from the mains socket, therefore the mains plug shall be readily operable.

• There is a danger of electric shock or fire.





Always unplug the unit by holding the power plug. Pulling the power cable may damage the inside of it.

• There is a danger of fire.



Unplug the power plug before cleaning the product.

• There is a danger of electric shock or fire.

| Power Related | Installation Related | Cleaning and Use Related |



Do not install the product in locations with poor ventilation such as a bookshelf, closet, etc.

• An increase in the internal temperature may cause a fire.







Do not install on an unstable location, or on a stand smaller than the product.

• If the product falls it may harm children. Install on a flat and stable location as the front part is heavy.

In case of thunder/lightning, disconnect the power cord from the wall outlet.

• There is a danger of electric shock or fire.



Make sure the product's vents are not blocked by a table cloth or curtain.

• An increase in the internal temperature may cause a fire.



Place the product on the ground carefully.

Doing so may cause damage or injury.



Do not drop the product while carrying it.

Doing so may cause damage or injury.



Keep the product out of children's reach.

• If the product falls it may cause harm to children. Install on a flat and stable location as the front part is heavy.

| Power Related | Installation Related | Cleaning and Use Related |







Do not disassemble, or attempt to fix or modify the product.

• When the product requires repairs, contact a Service Center.

Do not use or keep the product near flammable sprays or other such substances.

disconnect the power cord from a wall outlet and contact a Service Center.

• There is a danger of fire or explosion.



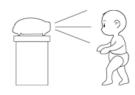
Do not place containers with water, vases, drinks, chemicals, small metal parts or heavy objects on the product.

 If water enters the product, it may cause electric shock, or fire and when heavy objects fall, they may cause injury.



Do not let children place objects such as toys or cookies on the product.

• If a child tries to reach for any of these objects, the product may fall and cause harm.



Do not look directly at the light of the lamp nor project the picture onto eyes.

• This is dangerous; especially for children.



When you remove batteries from the remote, be careful that they are not swallowed by children. Keep batteries out of the reach of children.

• If swallowed, see a doctor immediately.



If the product emits smoke, unusual noise, or there is a burning smell, disconnect the power plug immediately, and contact a Service Center.

• There is a danger of electric shock or fire.



If the power plug pin or jack is exposed to dust, water or alien substances, clean it thoroughly.

• There is a danger of electric shock or fire.

product using a soft dry cloth.



• Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent.



When not using the product for an extended period of time, disconnect the power plug.

 Otherwise, this may cause heat emission from the accumulated dirt or degraded insulation, leading to electric shock or fire.

EAMSUNG

Do not install the product in places with heavy dust, chemical substances, high or low temperatures, high humidity, or where it will be operated for a long period continuously etc.



If the product is dropped or the casing is damaged, turn the product off and unplug the power cord.

• This may cause electric shock or fire. Contact a Service Center.



Use only specified standard batteries. Do not use new and used batteries together.

• Incorrect polarity may cause a battery to break or leak and could lead to fire, injury, or contamination (damage).



Make sure to place your remote control on a table or desk.

 If you step on the remote control, you may fall and hurt yourself or the product may be damaged.

## Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only



(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household waste at the end of its working life. To prevent possible harm to the environment or damage to health from uncontrolled waste disposal, please separate this from other types of waste and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.





## An optical engine adopting new LCD technology

- 1024 x 768 panel has been adapted.
- Utilizes a 3P-LCD panel.
- SP-L330 : Provides a bright screen of 3300 lumen.
- SP-L350 : Provides a bright screen of 3500 lumen.
- Compact size, lightweight, and good portability

### 02 Minimized fan noise

- Minimizes the noise generated by the product's fan by optimizing the internal air flow and fan installation structure.

## OB Various input terminals

- Increases the connectivity to peripherals by providing various terminals, such as HDMI (DVI PC signal, supported), 2 D-Sub 15p, S-Video, and Video terminals.

### **114** Audio Output

- There are two speakers and a 5-band equalizer.

## User adjustments

- This unit allows adjustment of each input port.
- The unit has a reference pattern that can be used for positioning and adjustment.

Product Features | Product Views | Remote Control | Product Specifications |



Front/Upper Side





### 1. Indicators

- STAND BY (Blue LED)
- LAMP (Blue LED)
- TEMP (Red LED)
- \* Refer to the LED Indications.

### 2. VOL - / + & Select and Move Button

Adjusts the volume. Use this button to move to or select an item within a menu.

### 3. MENU Button

Use this button to enter or exit a menu or to move forward in a menu.

### 4. SOURCE Button

Used to select input signals from the external sources.

5. POWER(**U**) Button

Used to turn the projector on or off.

- 6. Lens
- 7. Remote Control Signal Receiver
- 8. Focus Ring Used for Focus Adjustment.
- 9. Zoom Knob

Used to enlarge or reduce image size.

10.Lens cover

### Unpacking



Quick Installation Guide



Warranty Card/ Registration Card (Not available in all locations)



User Manual CD

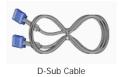






Power Cable

Cleaning Cloth



LED Indications

:Light is	On 0:	Light is Blinki	ng O:Light is Off
STAND BY	LAMP	TEMP	Information
٠	0	0	If you press the POWER button on the remote control or projector, the screen appears within 30 seconds.
•	•	0	The projector is in normal operating condition.
•	•	0	This state appears when the projector is preparing an operation after the POWER button on the projector or the remote control has been pressed.
0	•	0	The POWER button is pressed to turn off the projector, and the cooling system is in operation to cool off the inside of the projector. (Operates for about 30 seconds.)
•	0	0	Refer to Action 1 below if the cooling fan inside the projector is not in normal operation condition.
0	0	•	Refer to Action 2 below if the lamp cover protecting the lamp unit is not closed properly.
•	0	•	This indicates that the lens cover does not open completely. Refer to Action 3 below.
•	٠	0	This indicates that it has changed to Cooling mode, because the internal temperature of the projector has increased beyond the maintenance limit. Refer to Action 4 below.
0	0	•	This indicates that the power is turned off automatically because the internal temperature of the projector has increased beyond the operation limit. Refer to Action 5 below
•	•	•	A problem has occurred with the operation of the lamp. Refer to Action 6.
•	•	•	The lifetime of the lamp has expired. Refer to Action 7.
•	•	•	The power for the product is not operating normally. Contact a service center.

### Clearing Indicator Problems

Classification	State	Measures
Action 1	When the cooling fan system is not in normal operating condition.	If the symptom remains even after disconnecting and then reconnecting the power cord and turning the projector on again, contact your product provider or our <b>service center</b> .
Action 2	When the lamp cover protecting the lamp unit is not properly closed or the sensor system is not in normal operating condition.	Check if the screws on the side of the projector are securely tightened. If they are and the indicators are still lit, contact your product distributor or a <b>service center</b> .
Action 3	The lens cover is not open completely.	Open the lens cover completely. If the lens cover is not open completely while operating the projector, both the video and audio are turned off automatically. If the lens cover remains not completely open for ten minutes, the

		projector is turned off automatically.
Action 4	This indicates that the projector has changed to Cooling mode, because the internal temperature of the projector has increased beyond the operation limit.	If the internal temperature of the projector has increased beyond the operation limit, it is changed to Cooling mode before it is turned off automatically. * Cooling mode: The fan speed has increased and the lamp of the projector has been changed automatically to ECO mode. Check whether the ventilating hole of the projector is blocked. Check whether the air filter is blocked. Clean it if it is blocked. Check whether the surrounding temperature of the projector is higher than the standard temperature range of the projector. Cool the projector sufficiently and operate it again.
Action 5	If the internal temperature of the projector increases higher than the limit, it is turned off automatically.	Check whether the ventilating hole of the projector is blocked. Check whether the air filter is blocked. Clean it if it is blocked. Check whether the surrounding temperature of the projector is higher than the standard temperature range of the projector. Cool the projector sufficiently and operate it again. If the same problem occurs continually, contact your product distributor or service center.
Action 6	The lamp malfunctions after power turns off abnormally or after powering on right after turning off the projector.	Turn the power off, wait for a sufficient amount of cooling time and then turn the power on to operate. If the same problem occurs continually, contact your product distributor or <b>service center</b> .
Action 7	When the screen becomes darker	Check the lamp usage time on the Information Display screen. If you need to replace the lamp, contact your product distributor or <b>service center</b> .



This Projector uses a cooling fan system to keep the unit from overheating. Operation of the cooling fan may cause noise, which does not affect the product performance and is part of normal operation.

### Rear Side



1. PC OUT port

7. [AV IN] VIDEO Input port

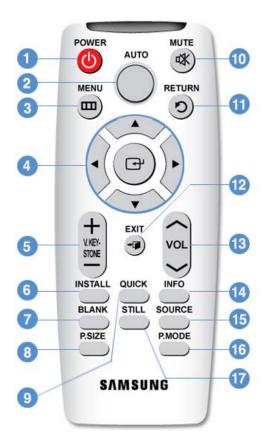
2. AUDIO OUT port

8. [AV IN] S-VIDEO Input port

3. HDMI/DVI IN Input port	9. PC IN 1,2 Input port
4. PC 1/DVI AUDIO IN Input port	10.[PC IN2] AUDIO Input port
5. RS-232C port (For service only)	11.Remote Control Signal Receiver
6. [AV IN] R-AUDIO-L Input port	12.POWER Input port

| Product Features | Product Views | Remote Control | Product Specifications |

Control



- 1. POWER (U) Button
- 2. AUTO Button
- 3. MENU (IIII) Button
- 4. Move (▲ ▼ ◀ ►)/( → Buttons
- 5. V.KEYSTONE(+/-) (VERTICAL KEYSTONE)Button
- 6. INSTALL Button
- 7. BLANK Button
- 8. P.SIZE Button
- 9. QUICK Button
- 10. MUTE (W) Button
- 11. RETURN (>) Button
- 12. EXIT (+ D Button
- 13. VOL Button
- 14. INFO Button
- 15. SOURCE Button
- 16. P.MODE Button
- 17. STILL Button

### 1. POWER (**也**)

Used to turn on the projector.

#### 2. AUTO

Adjusts the Picture automatically. (Available in PC Mode Only)

3. MENU (

Used to display the Menu Screen.

- Move (▲ ▼ < ►)/ ( Used to move to or select each menu item.</li>
- 5. V.KEYSTONE(VERTICAL KEYSTONE) (+/-) Use this when video scenes are distorted or tilted.
- 6. INSTALL

Used to flip or reverse the projected image.

#### 7. BLANK

This is used to turn off the video and audio temporarily. It is released when any button other than the POWER button is pressed.

### 8. P.SIZE

Used to adjust the size of picture screen.

#### 9. QUICK

This is used when quickly selecting the last used menu.

### 10. MUTE (🗱)

This is used to temporarily mute the sound.

To hear sound again, press the MUTE button again or press the - VOL + button.

#### 11. RETURN ())

Returns to the previous menu.

## 12. EXIT (+ 🍺

Used to make the Menu Screen disappear.

### 13. VOL

Adjusts the volume.

### 14. INFO

Used to check source signals, picture setup, PC screen adjustment and lamp lifespan.

### 15. SOURCE

This is used to switch between the TV and the external input.

#### 16. P.MODE

Used to select Picture Mode.

### 17. STILL

Used to see still images.

Product Features | Product Views | Remote Control | Product Specifications |

## Product Specifications

Design and specifications of the product may be modified without prior notice for better performance.

### Specifications

Model	SP-L330 / SP-L350
Panel	0.63" 3LCD w/MLA
Resolution	XGA (1024 x 768)
Aspect ratio	4:3
Drinktonon	SP-L330 : Max 3,300 ANSI lumen (Eco 2200 lumen)
Brightness	SP-L350 : Max 3,500 ANSI lumen (Eco 2200 lumen)
Contrast	Max 400:1
Diagonal screen size	40 ~ 300"
Projection Range	1 m ~ 10 m (3.2 ft ~ 32.8 ft)
Zoom Adjustment	Manual
Focus Adjustment	Manual
Lens	F=1.65~1.93(0.06~0.07 inch), f=18.5mm~22.5 mm
Zoom Ratio	1:1.2
Keystone	Vertical (±30°), horizontal (±30°)

Lamp	Power Consumption	220W (Normal : 200W, Eco : 152W )		
	Life Time	2,000 Hours (Eco : 2,500 Hours )		
	D-Sub 15p x 2	Analog RGB, analog YPbPr		
Innut Terminel	HDMI	Digital RGB, digital YCbCr		
Input Terminal	Mini DIN x 1	S-Video		
	RCA x 1	Composite video		
Speaker		3W x 2 (Stereo)		
Power	Power Consumption	Max 300 W		
	Voltage	100~240V AC, 50/60Hz		
Noise		Eco: 30dB, Normal: 32dB, Bright: 35dB		
Dimensions		291(W) x 289(D) x 127(H) 11.5 inches(W) x 11.4 inches(D) x 5 inches(H)		
Weight		3.9 Kg / 8.6 lb		
User	Operating	Temperature : 41 °F ~ 95 °F (5 °C ~ 35 °C), Humidity : 20 % ~ 80 % ((Non-condensing))		
Environment	Storage	Temperature : -14 °F ~ 140 °F (-10 °C ~ 60 °C) Humidity : 10 % ~ 90 % (Non-condensing)		



This Class B equipment is designed for home and office use. The equipment has been registered regarding EMI for residential use. It may be used in all areas. Class A is for office use. Class A is for business while class B emits less electromagnetic waves than class A.

The LCD panel used in the LCD projector consists of hundreds of thousands of fine pixels. Like other video display devices, the LCD panel may contain bad pixels which do not operate. When shipping a product, the conditions for identifying bad pixels and the number of bad pixels that a LCD panel is allowed to contain are strictly managed in accordance with the relevant specified standards by the LCD panel manufacturer and our company. Though a screen may have some dead pixels, this does not affect the overall screen quality and the lifetime of the product.

Format	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Frequency (MHz)	
IBM	640 x 350	70Hz	31.469	70.086	25.175
IBM	640 x 480	60Hz	31.469	59.940	25.175
IBM	720 x 400	70Hz	31.469	70.087	28.322
VESA	640 x 480	60Hz	31.469	59.940	25.175
MAC	640 x 480	67Hz	35.000	66.667	30.240
VESA	640 x 480	70Hz	35.000	70.000	28.560
VESA	640 x 480	72Hz	37.861	72.809	31.500
VESA	640 x 480	75Hz	37.500	75.000	31.500
VESA	720 x 576	60Hz	35.910	59.950	32.750
VESA	800 x 600	56Hz	35.156	56.250	36.000
VESA	800 x 600	60Hz	37.879	60.317	40.000
VESA	800 x 600	70Hz	43.750	70.000	45.500
VESA	800 x 600	72Hz	48.077	72.188	50.000
VESA	800 x 600	75Hz	46.875	75.000	49.500
MAC	832 x 624	75Hz	49.726	74.551	57.284
VESA	1024 x 768	60Hz	48.363	60.004	65.000
VESA	1024 x 768	70Hz	56.476	70.069	75.000
VESA	1024 x 768	72Hz	57.672	72.000	78.434
VESA	1024 x 768	75Hz	60.023	75.029	78.750
VESA	1152 x 864	60Hz	53.783	59.959	81.750
VESA	1152 x 864	70Hz	63.000	70.000	96.768
VESA	1152 x 864	72Hz	64.872	72.000	99.643
VESA	1152 x 864	75Hz	67.500	75.000	108.000
VESA	1280 x 720	60Hz	44.772	59.855	74.500

## Supported Display Modes

VESA	1280 x 720	70Hz	52.500	70.000	89.040
VESA	1280 x 720	72Hz	54.072	72.000	91.706
VESA	1280 x 720	75Hz	56.456	74.777	95.750
VESA	1280 x 768	60Hz	47.776	59.870	79.500
VESA	1280 x 768	75Hz	60.289	74.893	102.250
VESA	1280 x 800	60Hz	49.702	59.810	83.500
VESA	1280 x 800	75Hz	62.795	74.934	106.500
VESA	1280 x 960	60Hz	60.000	60.000	108.000
VESA	1280 x 960	70Hz	69.930	70.000	120.839
VESA	1280 x 960	72Hz	72.072	72.000	124.540
VESA	1280 x 960	75Hz	75.231	74.857	130.000
VESA	1280 x 1024	60Hz	63.981	60.020	108.000
VESA	1280 x 1024	70Hz	74.620	70.000	128.943
VESA	1280 x 1024	72Hz	76.824	72.000	132.752
VESA	1280 x 1024	75Hz	79.976	75.025	135.000
VESA	1400 x 1050	60Hz	65.317	59.978	121.750
VESA	1440 x 900	60Hz	55.935	59.887	106.500
VESA	1440 x 900	75Hz	70.635	74.984	136.750
VESA	1600 x 1200	60Hz	75.000	60.000	162.000



For the resolutions presented above, if a signal with a resolution lower or higher than 1024x768 is input, it is converted to 1024x768 by the Scaler chip inside the projector.

When the real resolution (1024x768) of the projector and the PC output resolution are the same, the screen quality is optimal.

### >AV Timing (D-Sub)

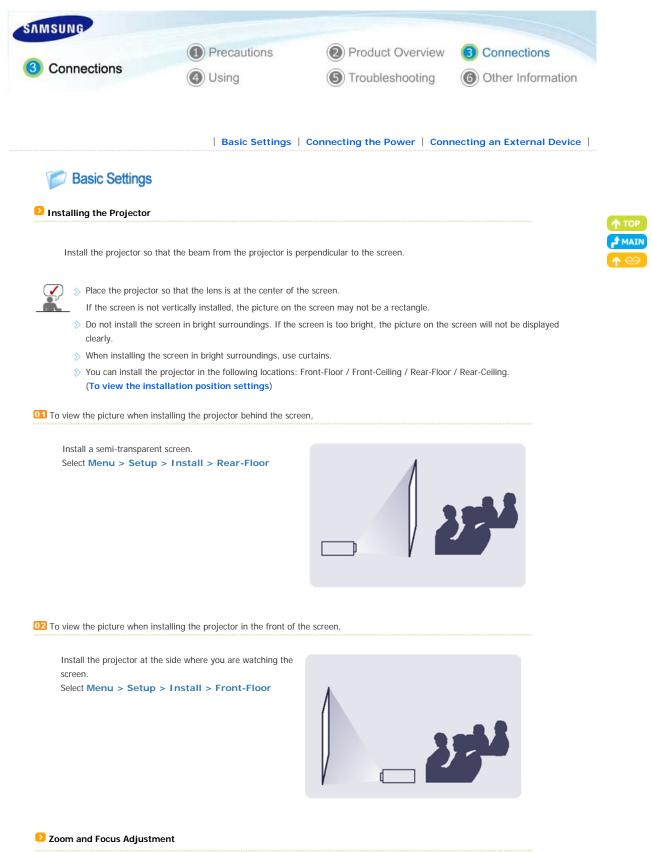
Format		Resolution	Scan	
BT.601 SMPTE 267M	480i	59.94Hz	Interlaced	
BT.1358 SMPTE 293M	480p	59.94Hz	Progressive	
BT.601	576i	50Hz	Interlaced	
BT.1358	576p	50Hz	Progressive	
SMPTE 296M	720p	59.94Hz/60Hz	Progressive	
SIVIPTE 290IVI	720p	50Hz	Progressive	
BT.709 SMPTE 274M	1080i	59.94Hz/60Hz	Interlaced	
DI. TUY SIMPLE 274M	1080i	50Hz	Interlaced	

### AV Timing (HDMI)

Format		Resolution	Scan	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Frequency (MHz)
EIA-861	Format1	640 x 480	Progressive	59.940	31.469	25.175
EIA-861	Format1	640 x 480	Progressive	60.000	31.500	25.200
EIA-861	Format2,3	720 x 480	Progressive	59.940	31.469	27.000
EIA-861	Format2,3	720 x 480	Progressive	60.000	31.500	27.027
EIA-861	Format4	1280 x 720	Progressive	59.939	44.955	74.175
EIA-861	Format4	1280 x 720	Progressive	60.000	45.000	74.250
EIA-861	Format5	1920 x 1080	Interlaced	59.939	33.716	74.175
EIA-861	Format5	1920 x 1080	Interlaced	60.000	33.750	74.250
EIA-861	Format17,18	720 x 576	Progressive	50.000	31.250	27.000
EIA-861	Format19	1280 x 720	Progressive	50.000	37.500	74.250
EIA-861	Format20	1920 x 1080	Interlaced	50.000	28.125	74.250

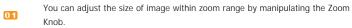
AV Timing (VIDEO/S-VIDEO) NTSC, NTSC 4.43, PAL, PAL60, PAL-N, PAL-M, SECAM







1 Zoom Knob 🛛 Zoom Knob



Focus the picture on the screen using the Focus Ring.



If your product is installed at a location out of the specified projection distance (refer to Screen Size and Projection Distance), the focus cannot be adjusted correctly.

### Leveling with Adjustable Feet



For level placing of the projector, adjust the Adjustable Feet.



The projector can be adjusted to a height of up to 30 mm (about 12 °) from the reference point.

Depending on the position of the projector, Keystone distortion of image may appear. If a keystone occurs, adjust it using the V-Keystone function.

### Screen Size and Projection Distance

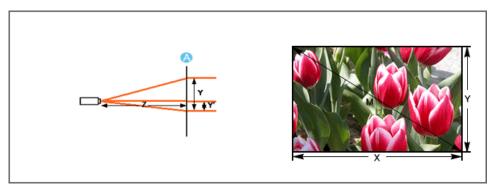
Install the projector on a flat, even surface and level the projector using the adjustable feet to realize optimal picture quality. If images are not clear, adjust them using the Zoom Knob or Focus Ring, or move the projector forward and backward.

Screen size	Horizental	Vertical	Max	Min	Offset
(M:inch)	(X:mm)	(Y:mm)	(Z:mm)	(Z:mm)	(Y':mm)
40	812.8	609.6	1376	1140	102
50	1016.0	762.0	1727	1433	127
60	1219.2	914.4	2078	1726	152
70	1422.4	1066.8	2430	2020	178
80	1625.6	1219.2	2781	2313	203
90	1828.8	1371.6	3133	2606	229
100	2032.0	1524.0	3484	2899	254
110	2235.2	1676.4	3835	3192	279
120	2438.4	1828.8	4187	3485	305
130	2641.6	1981.2	4538	3778	330
140	2844.8	2133.6	4889	4071	356
150	3048.0	2286.0	5241	4364	381
160	3251.2	2438.4	5592	4657	406
170	3454.4	2590.8	5944	4950	432
180	3657.6	2743.2	6295	5243	457
190	3860.8	2895.6	6646	5536	483
200	4064.0	3048.0	6998	5829	508
210	4267.2	3200.4	7349	6122	533
220	4470.4	3352.8	7701	6415	559
230	4673.6	3505.2	8052	6708	584
240	4876.8	3657.6	8403	7001	610
250	5080.0	3810.0	8755	7294	635

260	5283.2	3962.4	9106	7587	660
270	5486.4	4114.8	9457	7880	686
280	5689.6	4267.2	9809	8173	711
290	5892.8	4419.6	10160	8466	737
300	6096.0	4572.0	10512	8759	762



This projector is designed to show images optimally on a 80 ~ 120 inch sized screen.



A. Screen



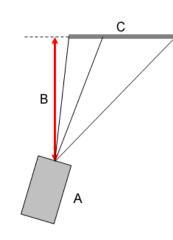
Z: Projection distance

>> Y': Distance from Lens Center to Image Bottom

### Adjusting the H-Keystone

1. Check the projection distance according to the screen size and then install the projector (see the table below).

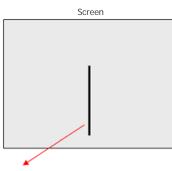
Sc	reen size (n	n)	Projection	2
Diagonal	Width	Length	distance (m)	distance (ft)
1	0.8	0.6	1.4	4.5
1.3	1	0.8	1.7	5.5
1.5	1.2	0.9	2.1	6.8
1.8	1.4	1.1	2.4	7.8
2	1.6	1.2	2.8	9.1
2.3	1.8	1.4	3.1	10.1
2.5	2	1.5	3.4	11.1
2.8	2.2	1.7	3.8	12.4
3	2.4	1.8	4.1	13.4
3.3	2.6	2	4.5	14.7
3.6	2.8	2.1	4.8	15.7
3.8	3	2.3	5.1	16.7
4.1	3.3	2.4	5.5	18.0
4.3	3.5	2.6	5.8	19.0
4.6	3.7	2.7	6.2	20.3
4.8	3.9	2.9	6.5	21.3
5.1	4.1	3	6.8	22.3
5.3	4.3	3.2	7.2	23.6
5.6	4.5	3.4	7.5	24.6
5.8	4.7	3.5	7.9	25.9
6.1	4.9	3.7	8.2	26.9
6.4	5.1	3.8	8.5	27.8
6.6	5.3	4	8.9	29.1

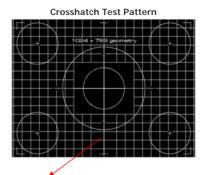


A : Projector B : Projection distance C : Screen - Projection distance: Vertical distance from a projected picture

6.9	5.5	4.1	9.2	30.1
7.1	5.7	4.3	9.6	31.4
7.4	5.9	4.4	9.9	32.4
7.6	6.1	4.6	10.2	33.4

- 2. Select one from Front-Floor, Front-Ceiling, Rear-Floor and Rear-Ceiling according to the location to install the projector.
- 3. Set the values of the H-Keystone and the V-Keystone to '0' and place the zoom knob right in the middle of its movement range.
- Press the MENU button to display the Crosshatch screen of the Test Pattern. (Setup → Test Pattern → Crosshatch)
- 5. Adjust the location of the projector until lines ① and ② in the picture below become parallel.

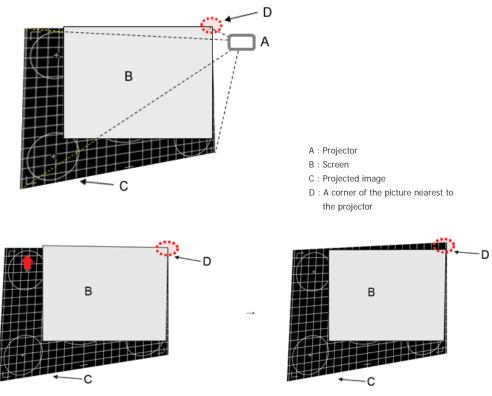




A virtual vertical line made on the screen using a piece of thread, etc.



6. Adjust the projector's angle so that a corner of the projected picture (which is nearest to the projector) meets that of the screen.

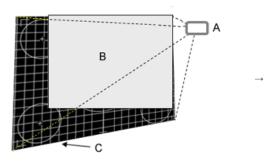


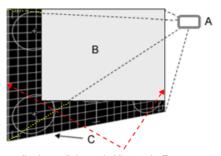
Adjust the projector's angle until the projected image covers the entire screen area

(The projected image may not cover the entire screen area depending on the projector's installation height. In this case, adjust the projector's angle so that the entire screen area can be covered.)

 Press the V.KEY-STONE button on the remote control. The V-Keystone menu will be displayed. Adjust V-Keystone using the + or - button on the remote control.

```
- A : Projector - B : Screen - C : Projected image
```

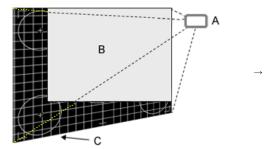


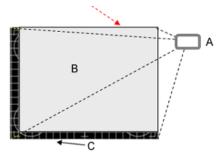


Keep adjusting until the vertical line on the **Test Pattern** becomes parallel with the outer vertical line on the screen.

- Press the ▲ or ▼ button to select H-Keystone.
   Adjust H-Keystone using the + or button on the remote control.
  - A : Projector B : Screen C : Projected image

Keep adjusting until the horizontal line on the **Test Pattern** becomes parallel with the outer horizontal line on the screen.



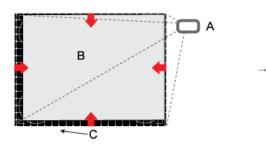


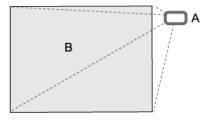
- 9. Adjust the screen size using the zoom knob.
- 10. If any part of the projected image is larger than the screen, adjust the size of the projected image using the **Custom** option in the **Size** menu.

How to adjust:

- 1. Press the MENU button.
- 2. Select Picture to move on to the Size menu.
- 3. Select the **Custom** option and then select an area to adjust.
- 4. Adjust the screen size using the  $\blacktriangle$  or  $\blacktriangledown$  button.

- A : Projector - B : Screen - C : Projected image







Keystone, which is a feature to calibrate an image skew, may degrade the brightness and resolution once it is activated.

Setting up the PC Environment - Check the following items before connecting your PC to your projector.

1. Click the right mouse button on the Windows desktop and click on [Properties].

			Themes Desktop Screen Saver Appearance Settings A theme is a background plue a set of sounds, icons, and other elements to help your personalize your computer with rea click. Theme: Modified Theme Sample: Active Window Test Window Test OK Cancel Apply
2.	Click on [Settings] tab and set the <screen resolution=""> by referring to <resolution> described in the display mode table supported by this projector. You do not have to change <color quality=""> setup.</color></resolution></screen>		Display Properties
3.	Press the [Advanced] button. Another property window will appear.	<u>2</u> 3	Deplay: Plug and Play Monitor on S3 VIRGE DX/GX Screen resolution Less More More More Troubleshoot Advanced OK Cancel Apply
4.	Click on [Monitor] tab and set the <screen rate="" refresh=""> by referring to <vertical frequency=""> described in the Supported Resolution/Size Modes table.</vertical></screen>	4	Plag and Play Monitor and NVIDIA GeForce 6200 TurboCachel[T @ Geforce 6200 TurboCachel[TM] General Adapter Monitor Teodeshoot Monitor type Plag and Play Monitor Play Monitor Play And Play Monit

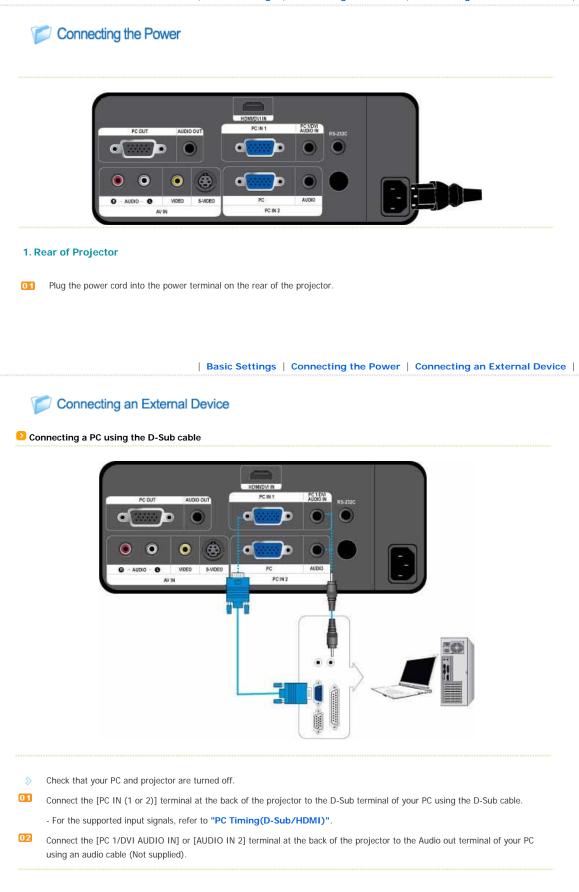
Display Propertie

5. Click the [OK] button to close the window, and click the [OK] button of the <Display Properties> window to close the window.

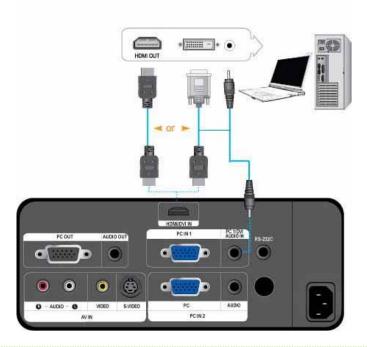
The computer may restart automatically.

6. Shut down the PC and connect to the projector.

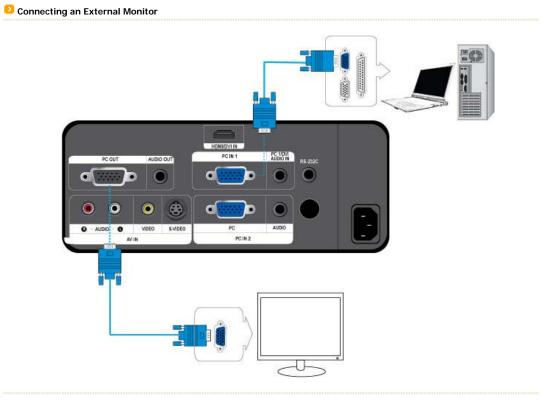
- Process might vary depending on your type of computer or Windows versions.
   (For example, [Properties] appears instead of [Properties (D)]
  - > This unit appliance supports up to 24 bits per pixel in Color quality when it is used as a PC monitor.
  - >> Projected images may differ from the monitor depending on monitor manufacturer or Windows versions.
  - When connecting the projector to a PC, check that PC setup complies to display settings supported by this projector. If not, there may be signal problems.



Connecting a PC using an HDMI/DVI cable



- > Check that your PC and projector are turned off.
- Connect the [HDMI/DVI IN] terminal of the projector to the HDMI or DVI terminal of your PC using a HDMI/HDMI or HDMI/DVI cable (Not supplied).
  - When connecting to the HDMI terminal of your PC, use an HDMI cable (Not supplied).
  - For the supported input signals, refer to "PC Timing(D-Sub/HDMI)".
- Connect the [PC 1/DVI AUDIO IN] terminal of the projector and the Audio out terminal of your PC using an audio cable (Not supplied).
  - If connecting with an HDMI/HDMI cable, an audio cable (Not supplied) is not needed.

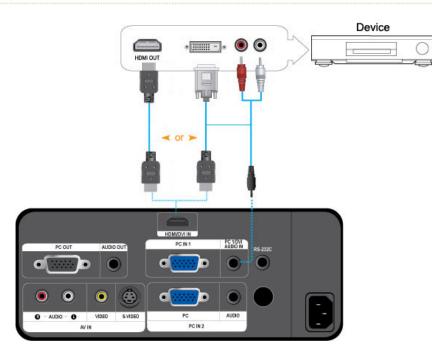


- > You can view an image on both your projector and a separate monitor at the same time.
- > Check that your PC and projector are turned off.
- 01

Connect the [PC IN 1] terminal at the back of the projector to the D-Sub terminal of your PC using a D-Sub cable.

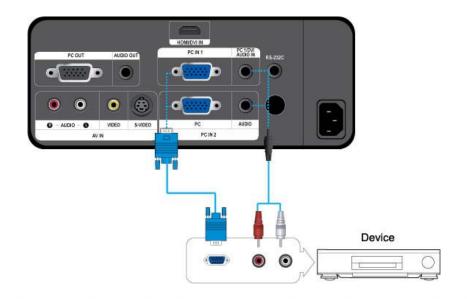
- Connect the [PC OUT] terminal of the projector to the D-Sub terminal of a monitor using a D-Sub cable.
  - When connecting a monitor using the [PC OUT] function, make sure to connect your PC to the [PC IN 1] terminal.
  - The monitor output which is connected to the [PC OUT] termininal will be normal even if you see a blank screen on your projector.
  - The [PC OUT] function also operates in standby mode.

### Disconnecting an HDMI-Compatible Device



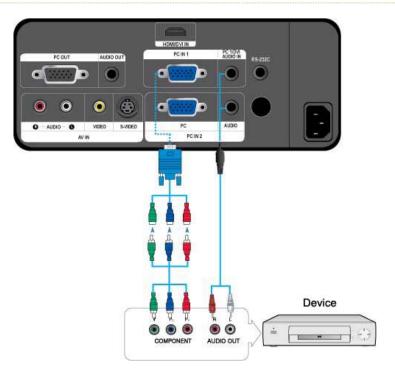
- > First, check that the AV device and your projector are turned off.
- Connect the [HDMI/DVI IN] terminal at the back of the projector to the HDMI or HDMI/DVI output terminal of the digital output device using an HDMI/DVI cable.
  - When connecting to the HDMI output terminal of the digital output device, use an HDMI cable.
  - For the supported input signals, refer to "AV Timing(HDMI)".
- Connect the [PC 1/DVI AUDIO IN] terminal of the projector to the Audio out terminal of your digital output device using an audio cable (Not supplied).
  - If connecting with an HDMI/HDMI cable, an audio cable (Not supplied) is not needed.

### Connecting an AV device using a D-Sub cable



- > First, check that the AV device and your projector are turned off.
- Connect the [PC IN (1 or 2)] terminal at the back of the projector to the D-Sub terminal of your AV device using a D-Sub cable.
  - For supported input signals, refer to the "AV Timing (D-Sub)".
- Connect the [PC 1/DVI AUDIO IN] or [AUDIO IN 2] terminal at the back of the projector to the Audio out terminal of your AV device using an audio cable (Not supplied).

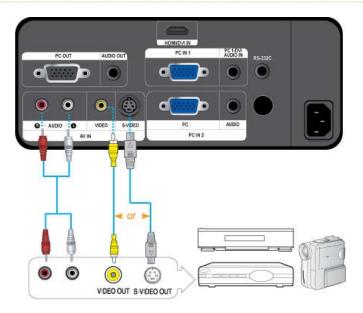
### Connecting a component output AV device



- > First, check that the AV device and your projector are turned off.
- Connect the [PC IN (1 or 2)] terminal at the back of the projector to the Component terminal of your AV device using a D-Sub/Component cable (Not supplied).

- For supported input signals, refer to the "AV Timing(D-Sub)".

Connect the [PC 1/DVI AUDIO IN] or [AUDIO IN 2] terminal at the back of the projector and the Audio out terminal of your AV device using an audio cable (Not supplied).



- $\,\gg\,$   $\,$  First, check that the AV device and your projector are turned off.
- Connect the [VIDEO] or [S-VIDEO] terminal and the AV device using a Video cable (Not supplied) or S-Video cable (Not supplied).
   For supported input signals, refer to the "AV Timing (VIDEO/S-VIDEO)".
- Connect the [AV IN R-AUDIO-L] terminal at the back of the projector and the Audio out terminal of your AV device using an audio cable (Not supplied).

### Connecting an External Speaker



- > You can hear sound through an external speaker instead of the internal speakers embedded in the projector.
- Prepare an audio cable (Not supplied) suitable for your external speaker.
- Connect the [AUDIO OUT] terminal of the projector to the external speaker using an audio cable.

- When using an external speaker, the internal speaker does not operate but you can adjust the volume of the external speaker using the Volume button of the projector (or remote control).

- The [AUDIO OUT] terminal can output all audio signals.





Basic Functions | Input | Picture | Setup | Option |

## Basic Functions

### Turning on the projector

- $^{\otimes}$  Check that the lens cover is opened completely.
- > Turn the power on.
- Check that the STAND BY LED indicator is turned on.
- Press the Power button. While the power is turned on (with the Power button on the remote control or at the top of the projector), the blue LAMP LED indicator blinks.

When the power is turned on completely, the LAMP LED indicator remains blue.



If the projector is turned on when the lamp is not sufficiently cooled, fan noise may be heard because the fan speed increases to cool the lamp.

### Turning off the projector

- Press the Power button. (Remote control or on top of the projector) OK or Cancel is displayed. Select OK using the arrow keys (Remote control or on top of the projector). Press the Enter button or press the Power button again.
- The STAND BY LED indicator is turned off and the LAMP LED indicator blinks. The fan speed increases to cool the lamp quickly. When the operation is finished, the LAMP LED indicator is turned off and the STAND BY LED indicator is turned on and remains blue.
- Remove the power cord.
- > Close the lens cover.

#### Selecting an input source

- $\gg$  Press the SOURCE button (on the remote control or at the top of the projector).
- AV, S-Video and HDMI modes can only be selected when an external device is connected, and the PC1 and PC2 modes can be selected regardless of whether an external device is connected or not.

Basic Functions | Input | Picture | Setup | Option |







\* Click the Play()/Stop() button in the table below to view the video file.

Screen Adjustment		Description	Play/Stop
Source List	You can select a device conne	cted to the projector to display.	
	1) PC 1 2) PC 2 3) AV	4) S-Video 5) HDMI	
Edit Name	You can edit the names of dev	ices connected to the projector.	
	1) VCR 2) DVD	7) DVD Receiver 8) Game	
	3) Cable STB 4) HD STB	9) Camcorder 10) DVD Combo	
	5) Satellite STB 6) AV Receiver	11) PC	

Basic Functions | Input | Picture | Setup | Option |





\* Click the Play()/Stop() button in the table below to view the video file.

Screen Adjustment	Description	Play/Stop
Mode	Select a screen state which is customized to your projector or change the screen mode as required.	
	1) Mode	
	- Standard	
	This picture mode is the most general mode for various cases.	
	- Presentation	
	This mode is suitable for presentations.	
	- Text	Mode
	This mode is suitable for text work.	
	- Movie	
	This mode is suitable for viewing a movie.	
	- Game	
	This picture mode is optimized for playing games.	
	The text in a still picture may be displayed picture is distorted.	

	- User This mode is a customized m	node created using the <b>Mode &gt; Save</b> function.	
		des are only enabled if the input signal is a PC	
	<ol> <li>Contrast : Used to adjust the</li> <li>Brightness : Used to adjust be</li> </ol>	contrast between the object and the background. rightness of the entire picture.	
	4) Sharpness : Used to adjust the when the input signal is	e sharpness of the picture. PC Timing(D-Sub/HDMI), the Sharpness	
	cannot be adjusted.	PC fiming(D-Sub/HDWI), the sharpness	Contrast
	5) Color : Used to adjust color lig		Brightness
	When the input signal is be adjusted.	PC Timing(D-Sub/HDMI), the Color cannot	Sharpness Color
	<ul><li>6) Tint : Used to obtain more nat</li><li>When the input signal is</li></ul>	ural color of objects using Green or Red enhancement. PC Timing(D-Sub/HDMI)and PAL and Id [AV] modes, the color cannot be adjusted.	Tint
	preferences.	n select the color temperature according to your	
	<ul> <li>Factory defaults: 5500K, 65</li> <li>You can select the color ten</li> </ul>	00K, 8000K, 9300K nperature for the items below according to your	Color Temperature
	preferences.	iperature for the items below according to your	
		ijusts the color temperature of the White level.	R-Gain G-Gain
	1) Color Temperature	5) R-Offset	B-Gain
	2) R-Gain	6) G-Offset	R-Offset G-Offset
	3) G-Gain	7) B-Offset	B-Offset
	4) B-Gain		
	8) Gamma · Changes the brights	ness characteristic for each color tone of an image.	
		, the greater the contrast of the bright and dark parts; the	
	smaller (-) the value, the		
	- Adjustable range: -3 to -	+3	Gamma
	<ul> <li>9) Save :You can save the status using the Mode &gt; User OSD.</li> </ul>	of a screen you adjusted according to your preferences	Save
	10) Reset : Restores the mode so	ettings to the factory defaults.	Reset
Size	supported.	ding to the type of scene. Timing(D-Sub/HDMI), Zoom1/Zoom2 is not	
	1) Normal		
	2) Zoom1		
	3) Zoom2 4) 16:9		
	5) Custom		
Position	Adjust the screen position if it is no	ot aligned.	
Digital NR	picture by enabling Noise Reduction		
	► When the input signal is PC 1	Timing(D-Sub/HDMI)), Digital NR does not operate.	
Black Level	signal, the dark parts may not be		
	The Black Level can only be AV Timing(D-Sub), and the RG	set for [AV],[S-Video], the 480i and 576i signals of B signal of the [HDMI] mode.	
	- For [AV],[S-Video] and the 4 1) 0 IRE : Sets the black level to	80i and 576i signals of AV Timing(D-Sub). 0 IRE	

1		
	2) 7.5 IRE : Sets the black level to 7.5 IRE	
	- For the RGB signal of [HDMI] mode	
	1) Normal: Used in a normal environment.	
	2) Low: Used when the dark part is shown too bright.	
Overscan	Using this function, you can cut the edge of the picture when unnecessary information,	
	images appear on the edge of the picture.	
	This is not supported in [AV] and [S-Video] modes.	
	This is supported only when the input signal is AV Timing(D-Sub) or AV Timing (HDMI).	
	If Overscan is turned off, unnecessary extra parts at the edges of an image may also be shown.	
	In this case, turn Overscan on.	
Film Mode	Using this function, you can set the display mode optimized for playing movies.	
	1) Off	
	2) On	
	▶ Film Mode can only be supported for the [AV], [S-Video], 480i, and 576i signals.	
PC	Eliminates or reduces noise that causes unstable screen quality, such as screen shaking. If	
	the noise is not removed using Fine Adjustment, adjust the frequency to the maximum and	Auto
	<ul> <li>then perform Fine Adjustment again.</li> <li>It is only enabled for the PC Timing input of the D-Sub terminal.</li> </ul>	Adjustment
	<ul> <li>Refer to "PC Timing (D-Sub/HDMI) ".</li> </ul>	
	1) Auto Adjustment : Used to adjust frequency and phase of PC screen automatically.	Coarse
	2) Coarse : Used to adjust frequency when vertical lines appear on PC screen.	Fine
	3) Fine : Used to fine tune the PC screen.	
	4) Reset : Using this function, you can reset the PC menu settings to the factory default	
	settings.	Reset
Zoom	Enlarges the PC screen to 2X, 4X, or 8X.	
	This can only be adjusted when the input signal is PC Timing(D-Sub/HDMI).	

Basic Functions | Input | Picture | Setup | Option |

C Setup

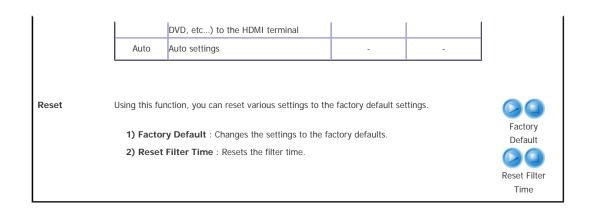




\* Click the Play()/Stop() button in the table below to view the video file.

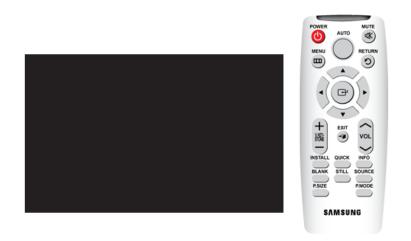
Screen Adjustment	Description	Play/Stop
Install	To tailor the picture to the installation location, you can invert the projected images vertically/horizontally.	

	2) Front	-Floor : Normal Image -Ceiling : Horizontal/Vertical Reversed Im Floor : Horizontally Reversed Image	age		
	4) Rear-	Ceiling : Vertically Reversed Image			
Lamp Mode	Used to set the	he image brightness by adjusting the amou	unt of light generate	ed by the lamp.	
	This m the lar 2) Norm mode enviroi 3) Bright	This mode is optimized for small screens si node decreases the lamp brightness and po np lifetime and reduce noise and power co al : This mode is optimized for general use for a stable lamp brightness that enables a nment even under bright ambient illuminat t : This mode maximizes the lamp brightness As the brightness of the lamp increases, t ise and power consumption may increase.	wer consumption in nsumption. e. This mode is the I low-noise, comfort ion. ess when the amble	n order to extend recommended able operating nt illumination is	Eco Normal Bright
V-Keystone	-	ojector image is not displayed vertically on ng the V-Keystone function.	the screen, the ima	ge can be	
H-Keystone	calibrated usi	pjector image is not displayed horizontally ing the H-Keystone function.	on the screen, the i	mage can be	00
	►The Keysto	usting the H-Keystone' one, which is a function for calibrating ty when it is activated.	g a skewed image	, may degrade	60
Background	connected to	he Background that is displayed when the the projector.If a signal is received, the Ba n is displayed.	0		
	1) Logo 2) Blue 3) Black				60
Test Pattern	Generated by the projector itself. Use to optimize the installation of the projector.				
		hatch : You can check whether the picture n Size : You can refer to picture format siz			Crosshatch Screen Size
Video Type	type automat	quality is abnormal as a result of the proje ically in PC or HDMI mode, you can manua mode, this is only enabled if the inpu	ally set the input sig	nal.	
	Sub).He 720p 5 ► In [HDI	owever, for a separate H/V sync., this 9.94 Hz/60 Hz signals. VII] mode, this is only enabled for the 20p 59.94Hz/60 Hz signals from amo	640x480p 59.94	or the 1280 x Hz/60 Hz,	
	1) Auto		3		
	2) RGB(F	PC)			
	3) RGB(A				
	4) YPbPr	Usage	Color, Sharpness,Tint	PC menu and zoom	
	RGB(PC)	When connecting the RGB output of a PC to the D-Sub terminal	Disabled	Enabled	
	RGB(AV)	When connecting the RGB output of an AV device (STB, DVD, etc) to the D-Sub terminal	Enabled	Enable	
	YPbPr(AV)	When connecting the YPbPr output of an AV device (STB, DVD, etc) to the D- Sub terminal	Enabled	Disabled	
	PC	When connecting a PC to the HDMI terminal	Disabled	Enabled	
	AV	When connecting an AV device (STB,	Enabled	Disabled	



<b>Basic Functions</b>	Input	Picture	Setup	Option	L



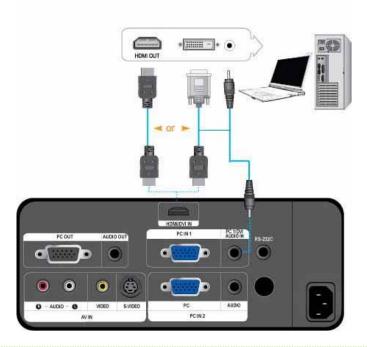


\* Click the Play()/Stop() button in the table below to view the video file.

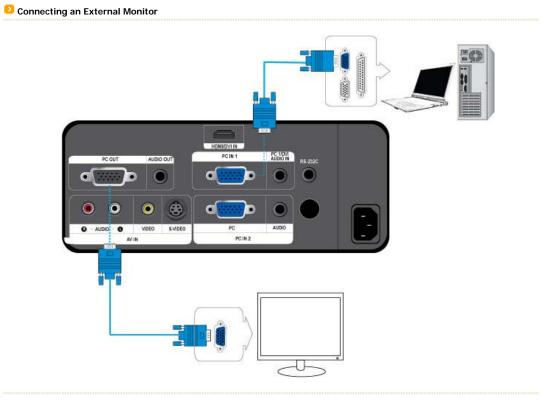
Screen Adjustment	Description	Play/Stop
Language	You can select the Language used for the menu screen.	
	1) English 7) Svenska 2) Deutsch 8) Português 3) Nederlands 9) Русский 4) Español 10) ไทย 5) Français 11) 中国语 6) Italiano 12) 한국어	00
Menu Option	1) Position	
	You can move Menu Position up/down/left/right.	
	2) Transparency	Position
	You can set the translucency of menu.	
	- Low	
	- Medium	Transparency
	- High - Opaque	
	3) Display Time	Display
	You can set the display time of the menu.	Time
	- 5 sec / 10 sec / 30 sec / 60 sec / 90 sec / 120 sec / Stay On	
Sound	Adjusts the right and left audio balance and equalizer of the 3W stereo speaker embedded in the projector.	

	1) Balance	4) 1kHz	
	2) 100Hz	5) 3kHz	
	3) 300Hz	6) 10kHz	
Filter Check Time	Sets the check period for	the filter. (Unit: hour)	
	1) Off		
	2) 100		
	3) 200		
	4) 400		
	5) 800		
	message is displa	time is larger than the filter check period, the filter check yed for a minute whenever the projector is turned on. age: "Check the filter, and if necessary, clean or replace it.".	
Auto Power On	If the power is supplied Power button.	to the projector, it is turned on automatically without pressing the	
	1) Off		
	2) On		
Sleep Timer		I for the specified time, the projector is turned off automatically. ne, there must be no button input from the remote control or the top	
	1) Off		
	2) 10 min		
	3) 20 min		
	4) 30 min		
Information	You can check external s	ource signals, picture setup, PC picture adjustment and lamp use	





- > Check that your PC and projector are turned off.
- Connect the [HDMI/DVI IN] terminal of the projector to the HDMI or DVI terminal of your PC using a HDMI/HDMI or HDMI/DVI cable (Not supplied).
  - When connecting to the HDMI terminal of your PC, use an HDMI cable (Not supplied).
  - For the supported input signals, refer to "PC Timing(D-Sub/HDMI)".
- Connect the [PC 1/DVI AUDIO IN] terminal of the projector and the Audio out terminal of your PC using an audio cable (Not supplied).
  - If connecting with an HDMI/HDMI cable, an audio cable (Not supplied) is not needed.

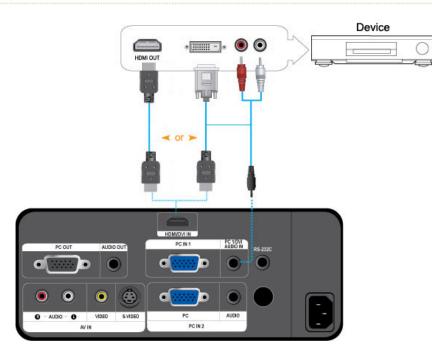


- > You can view an image on both your projector and a separate monitor at the same time.
- > Check that your PC and projector are turned off.
- 01

Connect the [PC IN 1] terminal at the back of the projector to the D-Sub terminal of your PC using a D-Sub cable.

- Connect the [PC OUT] terminal of the projector to the D-Sub terminal of a monitor using a D-Sub cable.
  - When connecting a monitor using the [PC OUT] function, make sure to connect your PC to the [PC IN 1] terminal.
  - The monitor output which is connected to the [PC OUT] termininal will be normal even if you see a blank screen on your projector.
  - The [PC OUT] function also operates in standby mode.

### Disconnecting an HDMI-Compatible Device



- > First, check that the AV device and your projector are turned off.
- Connect the [HDMI/DVI IN] terminal at the back of the projector to the HDMI or HDMI/DVI output terminal of the digital output device using an HDMI/DVI cable.
  - When connecting to the HDMI output terminal of the digital output device, use an HDMI cable.
  - For the supported input signals, refer to "AV Timing(HDMI)".
- Connect the [PC 1/DVI AUDIO IN] terminal of the projector to the Audio out terminal of your digital output device using an audio cable (Not supplied).
  - If connecting with an HDMI/HDMI cable, an audio cable (Not supplied) is not needed.

### Connecting an AV device using a D-Sub cable



## Care and Maintenance

#### To clean the exterior and lens of the projector

#### Clean the projector using a soft dry cloth.

- Do not clean the projector with flammable substances such as benzene, thinners or a wet cloth, as these may cause problems.
- Do not touch the projector with a nail or any other sharp objects, as this may scratch the surface.

#### D To clean the interior of the projector

For cleaning the interior of the projector, ask your Service Center or a distributor.

Contact your distributor or a Service Center if dust or other substances are inside the projector.



#### Lamp Replacement

#### **Cautions on Lamp Replacement**

- The projector lamp is an expendable item. For best operating performance, replace the lamp according to the usage time. You can view the lamp usage time in the Information Display (INFO button).
- $\gg$  Use the recommended lamp when replacing. Replace the lamp with the one specified below.
  - Lamp Model Name : 220W UHP E19.5
  - Lamp Manufacture : Philips
  - For inquiries on lamp purchase, please refer to 'Contact SAMSUNG WORLDWIDE'.
- $\gg\,$  Check that the power cord is unplugged before replacing the lamp.
- Since the lamp is a high temperature and high voltage product, wait at least one hour from the time that the power cord is disconnected before replacing it.
- >> The lamp is located on the left side of the projector (when looking from the front).
- > Do not leave the old lamp near inflammables or in reach of children. There is a danger of burn or injury.
- Remove dirts or foreign materials around or inside the lamp unit using a proper vacuum device.
- When handling the lamp, avoid touching any part of it except for the handles. If you handle the lamp incorrectly, it may affect the screen quality and shorten its lifetime.

 $\gg$  The projector has been designed so that the projector does not work if the lamp cover is not completely assembled after a lamp replacement. If the projector does not work properly, please check the operating status of the indicator LED.

Contains Mercury, Dispose According to Local, State or Federal Laws

#### Lamp Replacement Procedure



Since the lamp is a high temperature and high voltage product, wait at least one hour from the time that the power cord is disconnected before replacing it.

 $\bigcirc$  Remove the two (2) screws shown in  $\bigcirc$  Hold and pull the lamp handle out of

below.

The lamp is located on the left side of the projector (when looking from the front).

the figure below.

1 Remove the screw shown in the figure below and than open the cover.







the projector, as shown in the figure



Assembling a new lamp is in the reverse order of the disassembly.

#### Replacing and Cleaning the Filter

#### Precautions when replacing the projector filter

- > The filter is located at the bottom of the projector.
- > Turn off the power of the projector, and then disconnect the power cord after the heat of the projector is cooled sufficiently.

Otherwise, its parts may be damaged due to internal heat.

- > When replacing the filter, dust may occur.
- For inquiries on filter purchase, please refer to 'Contact SAMSUNG WORLDWIDE'.

#### The sequence for replacing or cleaning the filter of the projector.

- 1 Turn off the power of the projector, 2 Place the product so that its bottom 3 Replace or clean the filter. and then disconnect the power cord after the heat of the projector has cooled sufficiently.
  - looks upward, and than push and remove the filter cover in the direction of the arrow. \* When placing the product with the bottom upwards, make sure to place
  - a soft cloth on the floor to prevent scratches.







> When cleaning the filter, use a small vacuum cleaner for computers and small electronics products, or wash it under running water.

- When washing the filter under running water, make sure to dry it completely. The moisture may cause the filter to corrode.
- > If dust cannot be separated from the filter or the filter is torn, it must be replaced.
- > Make sure to select the Reset Filter Time option after replacing or cleaning the filter of the projector

### Ventilating openings

### The location of the ventilation openings

> The ventilation openings are located on the right and left sides and at the bottom of the projector.



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