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The following projector manual has not been modified or altered in any way.

LCD Projector

Owner's Instructions

The color and the appearance of the product may differ from the illustrations in this manual. The specifications are subject to change without prior notice to improve performance.



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1 Major Safety Precautions

1-1 Before You Start

Icons used in this manual

ICON	NAME	MEANING
	Caution	Indicates cases where the function may not work or the setting may be canceled.
	Note	Indicates a hint or tip to operate a function.

Using this Manual

- Make yourself fully aware of the safety precautions before using this product.
- The contents of this manual are subject to change without prior notice for performance improvement.
- If a problem occurs, refer to the 'Troubleshooting' section.

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1-2 Care and Maintenance

Cleaning the Surface and the Lens

Clean the projector using a soft dry cloth.

- Avoid cleaning the product with a flammable substance such as benzene or thinner.
- Avoid scratching the lens with your fingernails or a sharp object. This may result in scratches or damage to the product.
- Avoid cleaning the product with a wet cloth or by directly spraying water onto the product. If water enters the product, it may result in fire, electric shock, or a problem with the product.
- A white stain may appear on the surface of the projector if water gets on it.

 The appearance and the color may differ depending on the model.



Cleaning Inside the Projector



For cleaning the interior of the projector, contact an authorized Samsung Service Center.

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



1-3 Safety Precautions

Icons used for safety precautions

ICON	NAME	MEANING
	Warning	Failing to follow the precautions marked with this sign may result in a serious injury or even a fatality.
	Caution	Failing to follow the precautions marked with this sign may result in a personal injury or property damage.

Meaning of Signs



Do not perform.



Must be followed.



Do not disassemble.



The power plug must be unplugged from the wall outlet.




Do not touch.



Must be grounded to prevent electric shock.

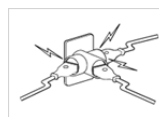
Power Related

 The following images are for your reference and may differ depending on models and countries. The appearance and the color may differ depending on models.

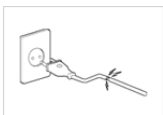
Warning



Plug the power plug in firmly.
 • Otherwise, it may result in fire.



Avoid connecting multiple electric appliances to a single wall outlet.
 • Otherwise, it may result in fire due to overheating of the wall outlet.



Avoid using a damaged power cord or plug or a loose power outlet.
 • Otherwise, it may result in electric shock or fire.



Avoid bending or twisting the power cord excessively and avoid placing heavy objects on the cord.
 • Otherwise, it may result in electric shock or fire due to a damaged power cord.



Avoid plugging in or unplugging the power supply with wet hands.
 • Otherwise, it may result in electric shock.



To move the product, turn the power off and unplug the power cord and any other wires connected to the product.
 • Otherwise, it may result in electric shock or fire due to the damaged power cord.



Make sure to connect the power cord to a grounded wall outlet (for insulation class 1 equipment only).

- Otherwise, it may result in electric shock or injury.

Caution



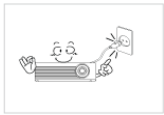
When unplugging the power plug from the wall outlet, make sure to hold the power plug by the plug and not by the cord.

- Failing to do so may result in electric shock or fire.



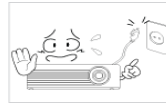
Unplug the power plug before cleaning the product.

- There is a danger of electric shock or fire.

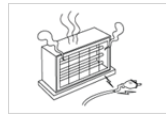


Connect the power plug to a wall outlet that can be easily reached.

- When a problem occurs with the product, you must unplug the power plug to cut the power off completely. You cannot cut the power off completely using only the power button on the product.



Do not turn the product on or off by plugging or unplugging the power plug. (Do not use the power plug as a power switch.)



Keep the power cord away from sources of heat.

Installation Related

Warning



Avoid installing the product in a location exposed to direct sunlight and installing the product near a heat source such as a fire or heater.

- This may shorten the product life cycle or cause fire.



Avoid installing the product in a badly-ventilated location such as inside a bookshelf or closet.

- Otherwise, it may result in fire due to internal overheating.



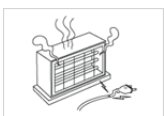
When installing the product in a cabinet or shelf, take care so that the front end of the product is completely supported by the cabinet or shelf.

- Failing to do so may result in the product falling and resulting in damage to the product or injury.
- Make sure to use a cabinet or shelf suitable to the size of the product.



When installing the product on a console or shelf, make sure that the front of the product does not protrude out of the console or shelf.

- Otherwise, this may cause the product to fall off and result in a malfunction or injury.



Keep the power cord away from heaters.

- The coating of the power cord may melt and cause electric shock or fire.



When thunder or lightning occurs, unplug the power cord.

- Failing to do so may result in electric shock or fire.



Do not install the product in a location exposed to dust, moisture (sauna), oil, smoke or water (rain drops) and do not install it in a vehicle.

- This may result in electric shock or fire.



Do not install the product in areas with heavy dust.

Caution



Take care not to block the vent with a table cloth or curtain.

- Otherwise, it may result in fire due to internal overheating.



Do not let the product drop while moving it.

- This may result in a problem with the product or injury.



When putting the product down, place it gently.

- Failing to do so may result in a problem with the product or injury.



Do not install the product at a height where children may reach it.

- If a child touches the product, the product may fall and this may result in injury.

Usage Related



Avoid inserting metal objects such as chopsticks, coins or hairpins, or inflammable objects into the product (the vents, ports, etc).

- If water or an alien substance enters the product, turn the power off, unplug the power cord and contact a service center.
- Otherwise, it may result in a problem with the product, electric shock or fire.



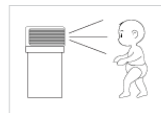
Do not let children place objects such as toys or cookies on the product.

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



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

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



Do not look directly at the light of the lamp nor project the picture into someone's eyes.

- This is dangerous, especially for children.



Avoid using or placing inflammable spray or objects near the product.

- This may result in an explosion or fire.



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.



Avoid placing a liquid container such as a vase, flowerpot, beverage, cosmetics or drugs, or a metal object over the product.

- If water or an alien substance enters the product, turn the power off, unplug the power cord and contact a service center.
- Otherwise, it may result in a problem with the product, electric shock or fire.

 **Caution**



If the product generates a strange noise, a burning smell, or smoke, unplug the power plug immediately and contact a service center.

- Failing to do so may result in 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.



When cleaning the product, disconnect the power cord and clean the product with a soft dry cloth.

- Avoid using chemicals such as wax, benzene, alcohol, thinner, mosquito-repellent, fragrance, lubrication or cleansing agent when cleaning the product.

This may result in the exterior being deformed or the print being removed.



When not using the product for a long time, such as leaving your home, unplug the power cord from the wall outlet.

- Otherwise, it may cause dust accumulation and result in fire caused by overheating or a short circuit or result in an electric shock.



If the product is installed in a location where the operating conditions vary considerably, a serious quality problem may occur due to the surrounding environment. In this case, install the product only after consulting our Call Center.

- Places exposed to microscopic dust, chemicals, too high or low temperature, high humidity, such as airports or stations where the product is continuously used for a long time etc..



If you drop the product or the case is damaged, turn the power off and unplug the power cord. Contact a service center.

- Failing to do so may result in fire or electric shock.



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.

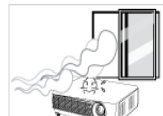


If water or a foreign substance enters the product, turn the product off, unplug the power cord from a wall outlet, and contact a Service Center.



Do not use the product while it indicates a malfunction, such as no sound or no picture.

- Turn the product off immediately, unplug the power cord from a wall outlet, and contact a Service Center.



When a gas leak occurs, do not touch the product or the power plug and ventilate immediately.

- A spark may result in an explosion or fire.
- During a thunder or lighting storm, do not touch the power cord or antenna cable



Do not touch the lens on the product.

- This may cause damage to the lens.



Do not touch any outer part of the product with tools such as a knife or a hammer.



To clean dirt or stains on the front projection lens, use spray or a wet cloth dampened with neutral detergent and water.



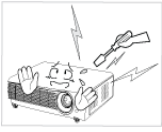
Ask a Service Center to clean the interior of the projector at least once per year.



To avoid burning yourself, do not touch the vents or lamp cover while operating or right after turning off the product.



Do not clean the product using water spray or a wet cloth. Avoid using any chemicals such as detergents, industrial or automotive polish, abrasive, wax, benzene, alcohol on any plastic part of the product such as projector case, since this may cause damage.



Do not open any cover on the product.

- This would prove hazardous because of high-voltage current inside the product.



Do not use any undesignated battery.



Be careful not to touch the ventilation hole while the projector is on as hot air comes out.



The ventilation hole is hot for some time though the projector is turned off. Keep you hands or body off the ventilation hole.

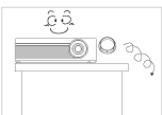


Do not place objects vulnerable to heat near the projector.



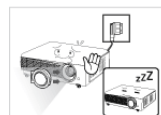
Be careful to keep your body away from the projector lamp. The lamp is hot.

(Children and those who have sensitive skin should be more careful.)



Take care not to lose the lens cover of the product.

- The lens could get damaged.



The lens cover protects the lens and should be used when the projector is turned off.

- To hide the screen while the projector is turned on, use the BLANK feature.

2 Installation and Connection

2-1 Package Contents

- Unpack the product and check if all of the contents listed below have been included.
- Store the packaging box in case you need to move the product at a later date.



Projector

CONTENTS



Quick Setup Guide



Warranty Card (Not available in all locations)



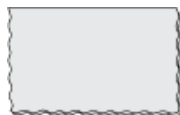
User Manual



Power Cord



Remote Control / 2 Battery
(Not available in all locations)



Cleaning Cloth



D-Sub Cable



Lens cover



4 Screws
(For ceiling mount bracket.)



Projector case

- A ceiling mount is not included and must be purchased separately. Use the included screws to attach the projector to the ceiling mount bracket.

2-2 Installing the Projector

- Install the projector so that the beam from the projector is perpendicular to the screen.
 - Place the projector so that the lens aims at the center of the screen. If the screen is not vertical, the picture on the screen may not appear rectangular.
 - Do not install the screen in bright surroundings. If the surroundings are too bright, the picture on the screen will be washed out and not display clearly.
 - When using the projector in bright surroundings, use curtains to block the light.
 - You can install the projector in the following locations relative to the screen : <Front-Floor> / <Front-Ceiling> / <Rear-Floor> / <Rear-Ceiling>. To view the installation position settings, see below.

To adjust the picture when you install the projector behind the screen

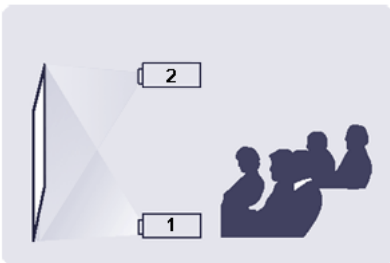


Installing behind a semi-transparent screen.

When you install the projector behind a semi-transparent screen, you can use the menu to adjust the picture so that it displays correctly, depending on where you've located the projector, rear-floor (or low) or rear-ceiling.

1. For rear-floor, press :
Menu > Setup > Install > Rear-Floor
2. For rear-ceiling, press :
Menu > Setup > Install > Rear-Ceiling

To adjust the picture when you install the projector in the front of the screen

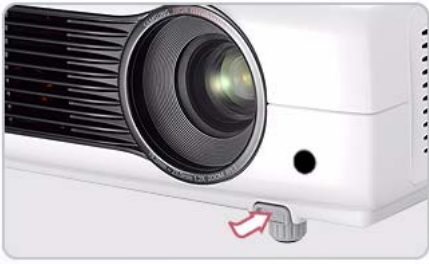


Installing the projector in front of the screen.

When you install the projector in front of a screen, you can use the menu to adjust the picture so that it displays correctly, depending on where you've located the projector, front-floor (or low) or front-ceiling.

1. For front-floor, press :
Menu > Setup > Install > Front-Floor
2. For front-ceiling, press :
Menu > Setup > Install > Front-Ceiling

2-3 Leveling with Adjustable Feet




Press the PUSH buttons, as shown, to adjust the legs and level the projector.

- The projector can be adjusted to a height of up to 1.18 inches (30mm, about 12 °) from the reference point.
If <Auto Keystone> is set to <On>, <V-Keystone> is adjusted automatically.
If fine tuning is required after auto-adjustment, use <V-Keystone>.

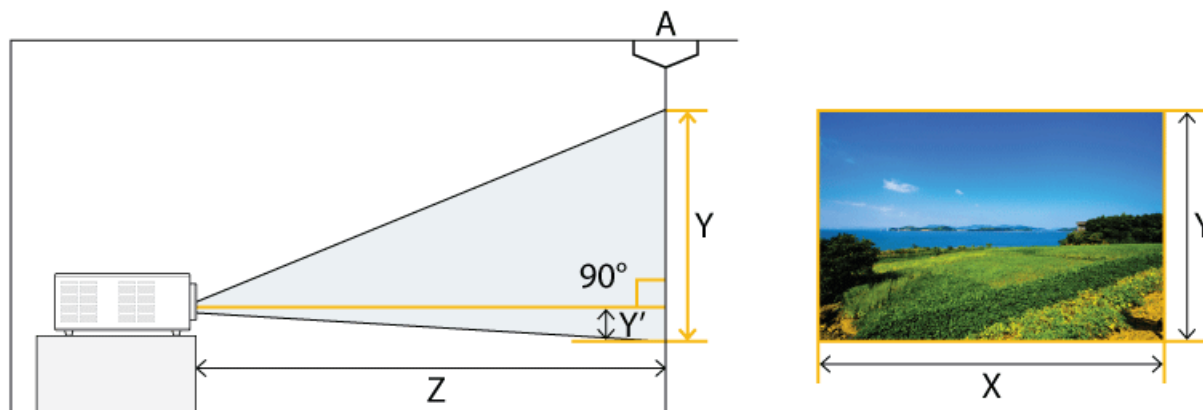
2-4 Zoom and Focus Adjustment



- 1** Zoom Knob You can adjust the size of the image within the zoom range by manipulating the Zoom Knob.
- 2** Focus Ring Focus the picture on the screen using the Focus Ring.

-  The size of your screen determines the distance you set your projector from the screen. If you do not install your projector at the projection distance specified in the Screen Size and Projection Distance table in Section 2-5, you will not be able to adjust the focus correctly.

2-5 Screen Size and Projection Distance



A. Screen / Z. Throw Distance / Y'. Distance from Lens Center to Image Bottom

Install the projector on a flat, even surface and level the projector using the adjustable feet to obtain 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						THROW DISTANCE				OFFSET	
M (DIAGONAL)		X (HORIZONTAL)		Y (VERTICAL)		Z (TELE)		Z (WIDE)		Y'	
INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM
30	76.2	24	60.9	18	45.7	42.7	108.4	35.5	90.1	2.6	6.3
40	101.6	32	81.3	24	61.0	57.0	144.7	47.4	120.3	3.3	8.4
50	127.0	40	101.6	30	76.2	71.2	180.8	59.2	150.4	4.1	10.5
60	152.4	48	121.9	36	91.4	85.4	217.0	71.0	180.4	5.0	12.6
70	177.8	56	142.2	42	106.7	99.7	253.1	82.9	210.5	5.8	14.7
80	203.2	64	162.6	48	121.9	113.9	289.4	94.7	240.6	6.6	16.8
90	228.6	72	182.9	54	137.2	128.2	325.6	106.6	270.7	7.4	18.9
100	254.0	80	203.2	60	152.4	142.4	361.7	118.4	300.7	8.3	21.0
110	279.4	88	223.5	66	167.6	156.6	397.8	130.2	330.8	9.1	23.1
120	304.8	96	243.8	72	182.9	170.9	434.0	142.1	360.8	9.9	25.2
130	330.2	104	264.2	78	198.1	185.1	470.3	153.9	391.0	10.8	27.3
140	355.6	112	284.5	84	213.4	199.4	506.4	165.8	421.1	11.6	29.4
150	381.0	120	304.8	90	228.6	213.6	542.5	177.6	451.1	12.4	31.5
160	406.4	128	325.1	96	243.8	227.8	578.7	189.4	481.1	13.2	33.6
170	431.8	136	345.4	102	259.1	242.1	614.8	201.3	511.2	14.1	35.7
180	457.2	144	365.8	108	274.3	256.3	651.1	213.1	541.4	14.9	37.8
190	482.6	152	386.1	114	289.6	270.6	687.3	225.0	571.4	15.7	39.9
200	508.0	160	406.4	120	304.8	284.8	723.4	236.8	601.5	16.5	42.0
210	533.4	168	426.7	126	320.0	299.0	759.5	248.6	631.5	17.4	44.1
220	558.8	176	447.0	132	335.3	313.3	795.7	260.5	661.6	18.2	46.2
230	584.2	184	467.4	138	350.5	327.5	832.0	272.3	691.8	19.0	48.3

SCREEN SIZE						THROW DISTANCE				OFFSET	
M (DIAGONAL)		X (HORIZONTAL)		Y (VERTICAL)		Z (TELE)		Z (WIDE)		Y'	
INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM	INCHES	CM
240	609.6	192	487.7	144	365.8	341.8	868.1	284.2	721.8	19.9	50.4
250	635.0	200	508.0	150	381.0	356.0	904.2	296.0	751.8	20.7	52.5
260	660.4	208	528.3	156	396.2	370.2	940.4	307.8	781.9	21.5	54.6
270	685.8	216	548.6	162	411.5	384.5	976.5	319.7	811.9	22.3	56.7
280	711.2	224	569.0	168	426.7	398.7	1012.8	331.5	842.1	23.2	58.8
290	736.6	232	589.3	174	442.0	413.0	1049.0	343.4	872.2	24.0	60.9
300	762.0	240	609.6	180	457.2	427.2	1085.1	355.2	902.2	24.8	63.0
310	787.4	248	629.9	186	472.4	441.4	1121.2	367.0	932.3	25.6	65.1
320	812.8	256	650.2	192	487.6	455.7	1157.4	378.9	962.3	26.5	67.2
330	838.2	264	670.5	198	502.8	469.9	1193.5	390.7	992.3	27.3	69.3
340	863.6	272	690.8	204	518.0	484.2	1229.6	402.6	1022.4	28.1	71.4
350	889.0	280	711.1	210	533.2	498.4	1265.8	414.4	1052.4	29.0	73.5
360	914.4	288	731.4	216	548.4	512.6	1301.9	426.2	1082.5	29.8	75.6
370	939.8	296	751.7	222	563.6	526.9	1338.0	438.1	1112.5	30.6	77.7
380	965.2	304	772.0	228	578.8	541.1	1374.2	449.9	1142.6	31.4	79.8
390	990.6	312	792.3	234	594.0	555.4	1410.3	461.8	1172.6	32.3	81.9
400	1016.0	320	812.6	240	609.2	569.6	1446.4	473.6	1202.6	33.1	84.0

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

2-6 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).
- Replace the lamp with the one specified below only.

Model	SP-M205 / SP-M225	SP-M255 / SP-M275 / SP-M305
Lamp Model Name	DPL3311U	DPL3321U

- For inquiries on lamp purchase, please see 'Contact SAMSUNG WORLDWIDE' in section 6-3.

- Check that the power cord is unplugged before replacing the lamp.
- Because the lamp is a high temperature and high voltage product, wait at least one hour from the time you disconnect the power cord before replacing the lamp.
- The projector lamp is on the top of the projector.
- Do not leave the old lamp near flammable items or in reach of children. There is a danger of fire, burns, or injury.
- Remove dirt or foreign material 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, you can shorten the lamp's lifetime and affect picture quality.
- When you change the lamp, put the projector on a flat surface.
- 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.

Lamp contains Mercury. Dispose According to Local, State or Federal Laws.

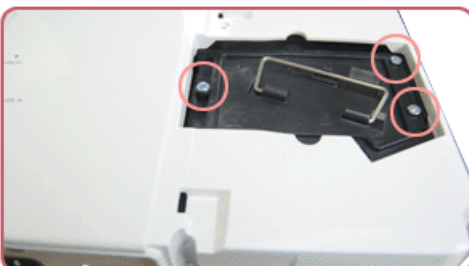
Lamp Replacement Procedure

- Because 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 projector lamp is on the top of the projector.

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



2. With the cover open, remove the three (3) screws on the top of the projector as shown in the figure below.



3. To remove the lamp, hold and then pull the lamp handle as shown in the figure below.



 Install a new lamp in the reverse order of removal.

Replacing and Cleaning the Filter

Precautions when replacing the projector filter:

- The filter is on the side of the projector.
- Turn off the power of the projector, and then disconnect the power cord after the projector has cooled sufficiently. Otherwise, its parts may be damaged due to internal heat.
- When you replace the filter, you may release some dust.
- For inquiries on replacement filter purchase, please see 'Contact SAMSUNG WORLDWIDE' in Chapter 6.

To replace or clean the filter, follow these steps:

1. Turn off the power of the projector, and then disconnect the power cord after the projector has cooled sufficiently.
2. Open the filter cover.



3. Replace or clean the filter.



- When cleaning the filter, use a small vacuum cleaner designed for computers and small electronics products, or wash it under running water.
- After 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.
- After cleaning or replacing the filter, run <Reset> -> <Reset Filter Time> in the <Setup> menu.

Ventilation openings

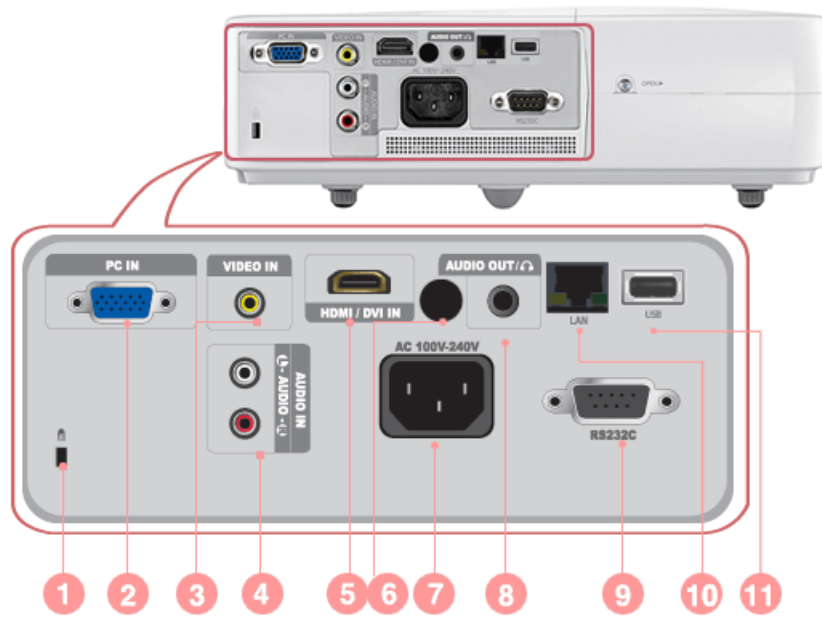
For the location of the ventilation openings, see the picture below:

- Do not block the ventilation openings. Blocking the ventilation openings can cause your projector to overheat and may cause it to fail.



1 Air outtake vent

2 Air intake vent




ICON	NAME
1	Kensington Lock slot
2	PC IN port
3	VIDEO IN port
4	AUDIO IN (L-AUDIO-R) port
5	HDMI/DVI IN port
6	Remote Control Signal Receiver
7	Power Input port
8	AUDIO OUT/ speaker icon port
9	RS232C port
10	LAN port
11	USB port

2-8 Supported Display Modes

2-8-1. PC Timing (D-Sub/HDMI)

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
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

FORMAT	RESOLUTION		HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL FREQUENCY (MHZ)
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

 All resolutions higher or lower than 1024x768 are converted to 1024x768 by the Scaler chip inside the projector. If the resolution of the signal output by the PC matches the real resolution (1024x768) of the projector, the screen quality is optimal.

2-8-2. 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
	720p	50Hz	Progressive
BT.709 SMPTE 274M	1080i	59.94Hz/60Hz	Interlaced
	1080i	50Hz	Interlaced

2-8-3. 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

FORMAT		RESOLUTION	SCAN	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	PIXEL FREQUENCY (MHZ)
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

2-8-4. AV Timing (VIDEO)

NTSC, NTSC 4.43, PAL, PAL60, PAL-N, PAL-M, SECAM

Your projector supports the standard video formats listed above through its video inputs. No adjustments are necessary.

2-9 Connecting the Power



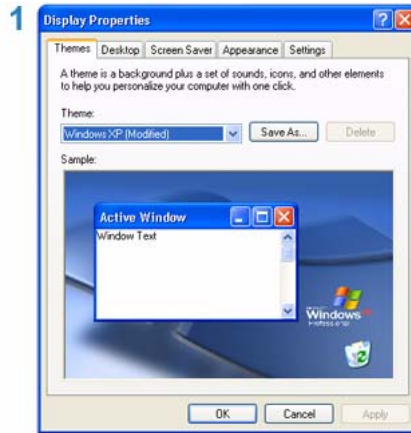
1. Plug the power cord into the power terminal on the rear side of the projector.

2-10 Connecting with a PC and Setting up the PC

2-10-1. Setting up the PC Environment

Check the following items before connecting your PC to your projector.

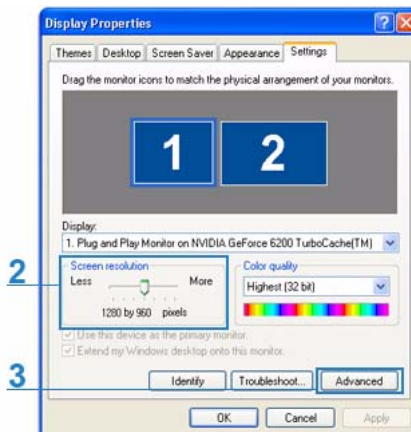
1. Click the right mouse button on the Windows desktop, and then click [Properties].
The <Display Properties> dialog appears.



2. Click the [Settings] tab, and then set the <Screen resolution>. The optimal resolution for the projector is 1024 x 768. For other resolutions supported by the projector, see the PC Timing Display Mode table in section 2-8.

 You do not have to change the <Color quality> setup.

3. Press the [Advanced] button. Another property window appears.



4. Click the [Monitor] tab and set the <Screen refresh rate>. For the refresh rate that matches the resolution you've chosen, see the refresh rate (60 Hz, 70 Hz, etc.) next to your selected resolution in the PC Timing Display Mode table in section 2-8.

 Setting the refresh rate sets both the vertical and horizontal frequencies.



5. Click the [OK] button to close the window, and then click the [OK] button on the <Display Properties> window to close that window.
6. Shut down the PC and connect it to the projector.

 The setup process might vary depending on your type of computer or version of Windows.

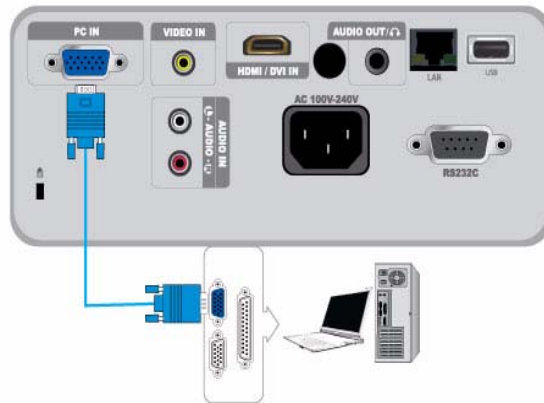
(For example, [Properties] appears instead of [Properties (R)] as shown in 1.)

This projector supports 32 bit color quality (per pixel) when it is used as a PC monitor.

Projected images may differ from the images on your monitor depending on the monitor manufacturer or Windows version.

When connecting the projector to a PC, make sure that the PC setup complies with the display settings supported by this projector. If it does not, you may have signal problems.

2-10-2. Connecting with a PC



Make sure that your PC and projector are turned off.

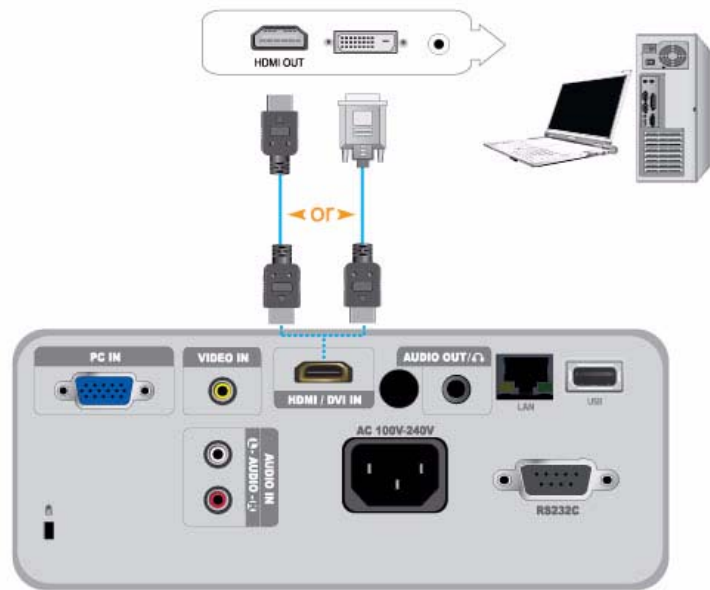
1. Connect the [PC IN] port on the rear side of the projector to the PC video out (D-sub) port of the PC using a PC video cable.
2. Plug in the power cords of the projector and the PC.

 This product supports plug and play. If you use Windows XP, you do not need to set up the driver on your PC.

Using the Projector

1. Turn on the projector, and then press the [SOURCE] button to select <PC>. If the <PC> Mode is not available, make sure the PC video cable is properly connected.
2. Turn on the PC, and then set the PC Environment (screen resolution, etc.) if necessary.
3. Adjust the screen.

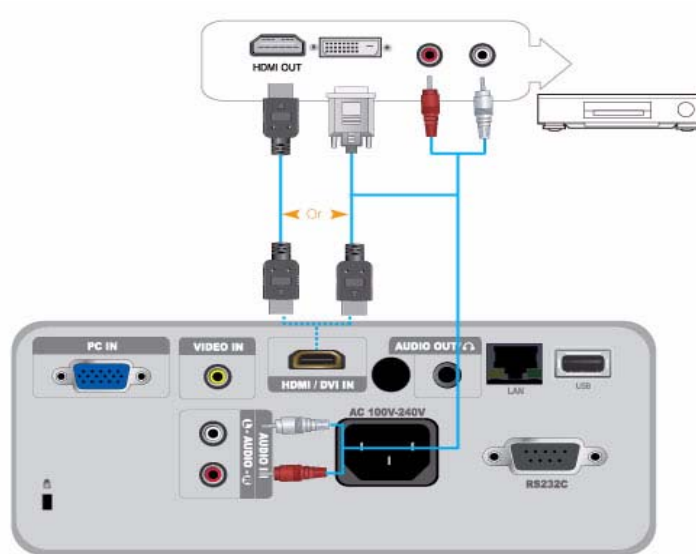
2-11 Connecting a PC using an HDMI/DVI cable



Make sure that your PC and projector are turned off.

1. 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).
 - If you are connecting to the HDMI terminal of your PC, use an HDMI/HDMI cable (Not supplied).
 - For the supported resolutions and refresh rates, see PC Timing (D-Sub/HDMI) in Section 2-8, "Supported Display Modes".

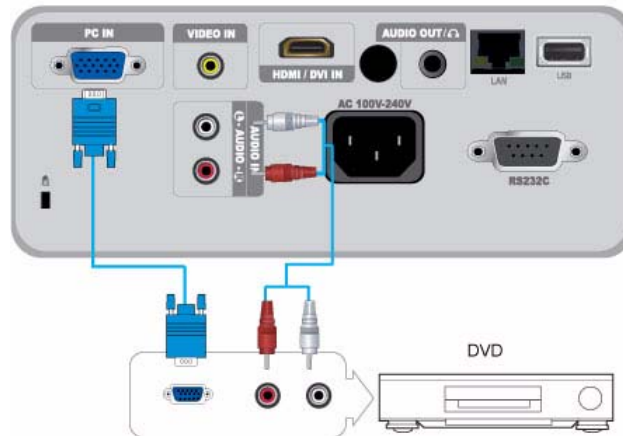
2-12 Connecting an HDMI-Compatible Device



Make sure that the AV device and your projector are turned off.

1. 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 or HDMI/HDMI cable.
 - If you are connecting to the HDMI output terminal on the digital output device, use an HDMI/HDMI cable.
 - For supported input signal formats, resolutions, and frequencies, see AV Timing(HDMI) in Section 2-8, "Supported Display Modes".
2. If you connected using a HDMI/DVI cable, connect the [AUDIO IN (L-AUDIO-R)] terminal on the projector to the Audio out terminal on your digital output device using an audio cable (Not supplied).
 - If you connected with a HDMI/HDMI cable, you do not need an audio cable.

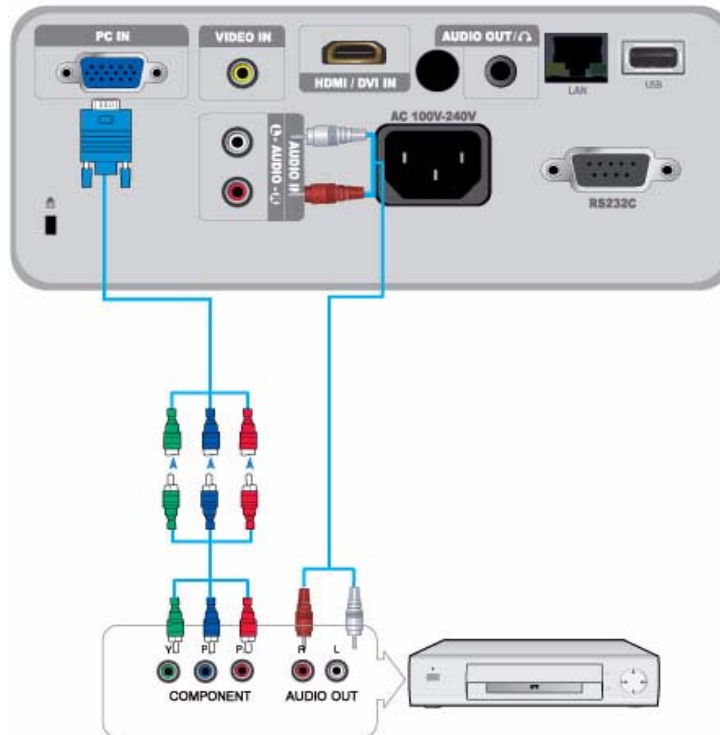
2-13 Connecting an AV device using a D-Sub cable



Make sure that the AV device and your projector are turned off.

1. Connect the [PC IN] terminal at the back of the projector to the D-Sub terminal of your AV device using a D-Sub cable.
- For supported input signal formats, resolutions, and frequencies, see AV Timing (D-Sub) in Section 2-8, "Supported Display Modes".
2. Connect the [AUDIO IN (L-AUDIO-R)] terminal at the back of the projector to the Audio out terminal of your AV device using an audio cable (Not supplied).

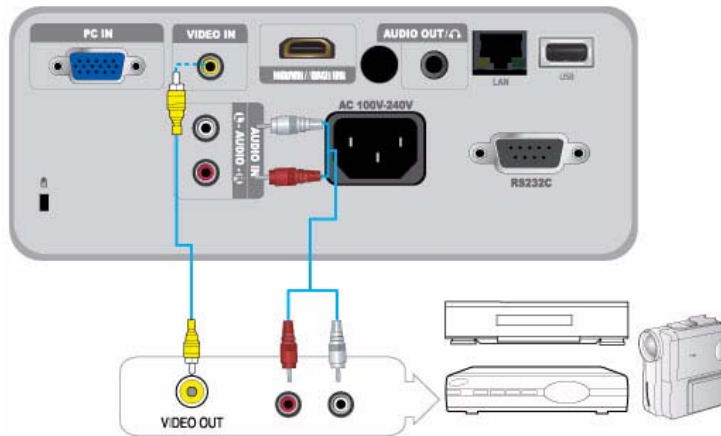
2-14 Connecting an AV device with Component output



Make sure that the AV device and your projector are turned off.

1. Connect the [PC IN] terminal on the back of the projector to the Component terminal on your AV device using a D-Sub to Component cable (Not supplied). This cable has a D-Sub connector on one end and three RCA jacks on the other.
- For supported input signal formats, resolutions, and frequencies, see AV Timing (D-Sub) in Section 2-8, "Supported Display Modes".
2. Connect the [AUDIO IN (L-AUDIO-R)] terminal on the back of the projector and the Audio out terminal on your AV device using an audio cable (Not supplied).

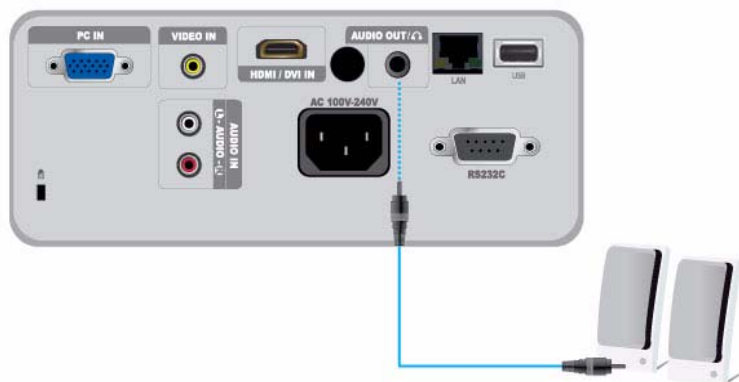
2-15 Connecting using a Video cable



Make sure that the AV device and your projector are turned off.

1. Connect the AV device to the [VIDEO IN] port using a VIDEO cable (not supplied).
- For supported input signal formats, see AV Timing (VIDEO) in section 2-8, "Supported Display Modes".
2. Connect the [AUDIO IN (L-AUDIO-R)] terminal on the back of the projector and the Audio out terminal on your AV device using an audio cable (Not supplied).

2-16 Connecting an External Speaker



You can hear sound through an external speaker instead of the internal speakers built into the projector.

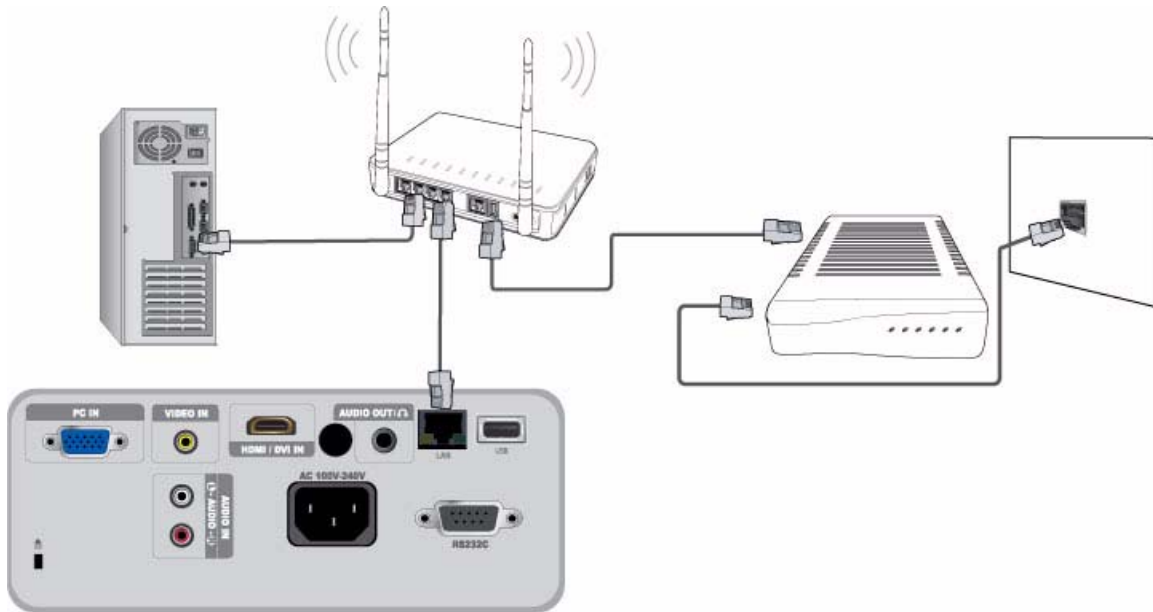
1. Obtain an audio cable (Not supplied) suitable for your external speaker.
2. Connect the [AUDIO OUT/🔊] terminal of the projector to the external speaker using an audio cable.
 - When using an external speaker, the internal speaker does not operate but you can adjust the volume of the external speaker using the Volume button or the remote control of the projector.
 - The [AUDIO OUT/🔊] terminal can output all audio signals.

2-17 Connecting to a Network

 This product can use network functions. Refer to the following Network connection method.


2-17-1. Connecting to a Dynamic IP (DHCP) Network

You can attach the projector to your network through a modem that uses DHCP (Dynamic Host Configuration Protocol). When you use a DHCP modem, the modem automatically provides the IP address, subnet mask, and gateway values that the projector needs to access the network.



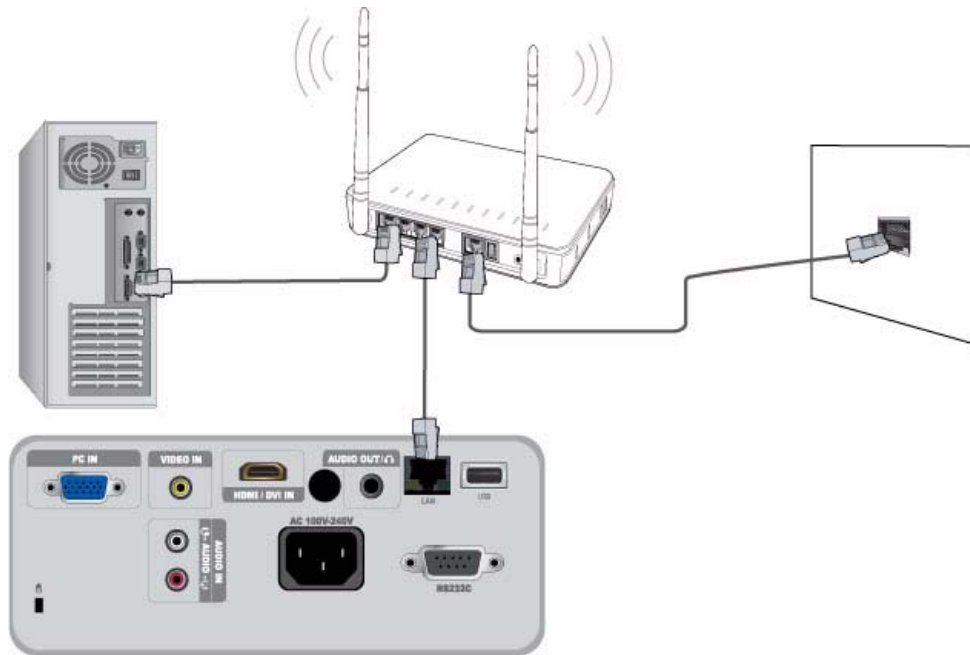
To connect to a DHCP network, follow these steps :

1. Connect the modem cable between the modem port on the wall and the external modem.
2. Connect a LAN cable between the external modem and the wired or wireless IP router.
3. Connect a LAN cable between the [LAN] port on the back of the projector and the wired or wireless IP router.
4. Turn the projector on and press the [MENU] button.
5. Select <Setup> → <Network> → <IP Setting> → <Automatic>.
6. The projector automatically acquires the IP address, Subnet mask and Gateway.

-  • To use the network function, <Network> must be set to <On>.
- If the IP address allotment from the DHCP server fails, turn off the external modem for more than 10 seconds, restart the modem, and then retry the connection.
- For instructions on the setup and connection of the external modem and router, refer to the user manual for each product.
- You can connect the LAN cable from the modem directly to the projector, You do not need a router.
- You can not use a manual connection-type ADSL modem because it is not a DHCP-type device. Make sure to use an automatic connection DHCP ADSL modem.

2-17-2. Connecting to a Static IP Network

You can attach the projector to a network that uses a Static IP address, which corresponds to using a dedicated lease line. If your network uses Static IP addresses, you must get the IP address, subnet mask, and gateway values from your Internet Service Provider (ISP), turn on the Network function in the projector's Menu, and then enter the values into the Network function manually.

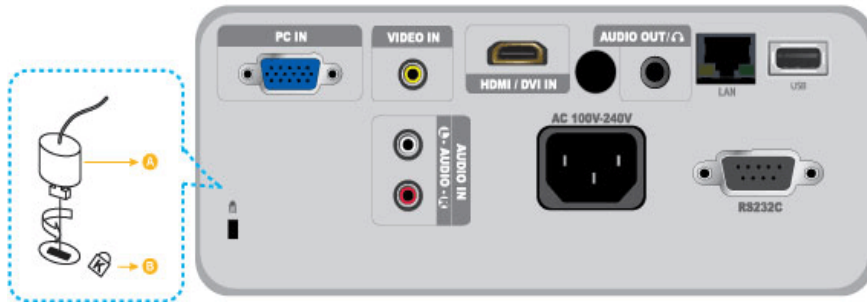


To connect to a Static IP address network, follow these steps :

1. Connect a LAN cable between the LAN port on the wall and a wired or wireless IP router.
 2. Connect a LAN cable between the [LAN] port on the back of the projector and the wired or wireless IP router.
 3. Turn on the projector, and then press the [MENU] button.
 4. Select <Setup> → <Network> → <IP Setting> → <Manual>.
 5. Select <IP Address> and press the [OK] button. Use the ◀/▶ buttons to navigate between each IP Address entry field and the ▲/▼ buttons to enter values.
 6. When done entering all the values for IP Address, press the [OK] button and then repeat the steps for Subnet mask and Gateway.
 7. When all values have been filled in, press the [MENU] or [RETURN] button to exit the setup menu.
- To use the network function, <Network> must be set to <On>.
 - If you use a static IP, your ISP will inform you of your IP address, subnet mask and gateway. These values must be entered to complete your network setup. If you do not know your static IP address, consult your network administrator.
 - For instructions on the setup and connection of the router, refer to the router's user manual.
 - You can connect the LAN cable directly to the projector without using a router.
 - If you use an IP Router which supports the DHCP function, you can set the router to either DHCP or static IP.
 - For instructions on the use of a static IP, consult your Internet service provider.

2-18 Kensington Lock slot

The Kensington Lock slot allows you to lock your projector, providing a sense of security when you use it in a public place. Because the shape and usage of the lock may differ depending on the model and the manufacturer, see the User Manual supplied with the locking device for more information.



Locking the product

1. Loop the Kensington lock cable around an immovable part of desk or heavy object as directed in the Kensington lock user manual.
2. Insert the locking part of the locking device into the Kensington lock hole in the projector.
3. Insert the Kensington lock key into the locking mechanism and turn it in the locking direction.

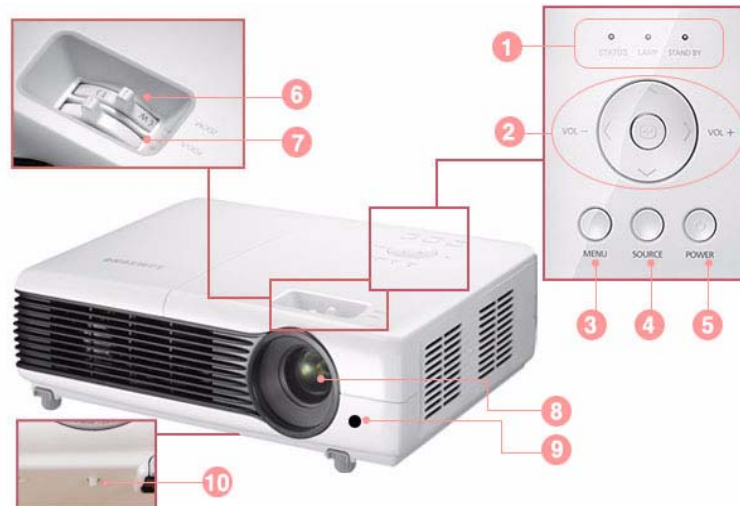
 You can purchase a locking device from an electronics store or an online shop.

3 Using

3-1 Product Features

1. An optical engine adopting new LCD technology
 - 1024 x 768 resolution.
 - 3P-LCD panel.
 - SP-M205 : Provides a bright, 2000 **ANSI** lumen screen.
 - SP-M225 : Provides a bright, 2200 **ANSI** lumen screen.
 - SP-M255 : Provides a bright, 2500 **ANSI** lumen screen.
 - SP-M275 : Provides a bright, 2700 **ANSI** lumen screen.
 - SP-M305 : Provides a bright, 3000 **ANSI** lumen screen.
2. Minimized fan noise
 - Minimizes fan noise through optimized internal air flow and the fan installation structure.
3. Multiple input terminals
 - Increases the connectivity to peripheral devices such as D-Sub 15P, Video, HDMI(DVI PC signal, supported), etc.
4. Audio Output
 - Equipped with an internal 7W (mono) speaker.
5. User adjustments
 - Allows adjustment of each input port.
 - Equipped with an internal Test Pattern that can be used to install and adjust the projector.
 - Compact size, lightweight, and portable.
6. Convenient Network Function
 - The projector can be monitored and controlled from a PC using the network function.
7. Multimedia Function
 - You can enjoy video, photos, and music, and view documents stored on a USB device, without connecting to a PC.
8. Security Function
 - Security password can be set to prevent unauthorized adjustments and access to the projector.

3-2 Front, Upper



ICON	NAME	DESCRIPTION
1	Indicators	<ul style="list-style-type: none"> - STANDBY (Blue LED) - LAMP (Blue LED) - STATUS (Green/Red/Yellow LED) <p> Refer to the LED Indications.</p>
2	Move / Select Volume button	/ : Use to move or to select an item within a menu. : Use to adjust the volume.
3	MENU button	Use to display the Menu Screen.
4	SOURCE button	Use to select the external device signal.
5	POWER button	Use to turn the projector on or off.
6	Zoom Knob	Use to enlarge or reduce image size.
7	Focus Ring	Use for Focus Adjustment.
8	Lens	
9	Remote Control Signal Receiver	
10	Hole for attaching lens cap string	

3-3 Remote Control

Using your projector with another remote control device nearby may result in improper functioning due to remote control code (frequency) interference.

1 POWER (⏻) Button
Use this button to turn the projector on and off.

2 P.MODE Button
Use to select Picture Mode.

3 P.SIZE Button
Use to adjust the size of picture screen.

4 Rewind Button
Rewind video in <Media Play> mode.

5 Play button
Play video in <Media Play> mode.

6 KEYSTONE button
Correct a tilted image.

7 Pause button
Pause video in <Media Play> mode.

8 VOL (+/-) Button
Use to control the volume.

9 MENU (☰) Button
Use to display the Menu Screen.

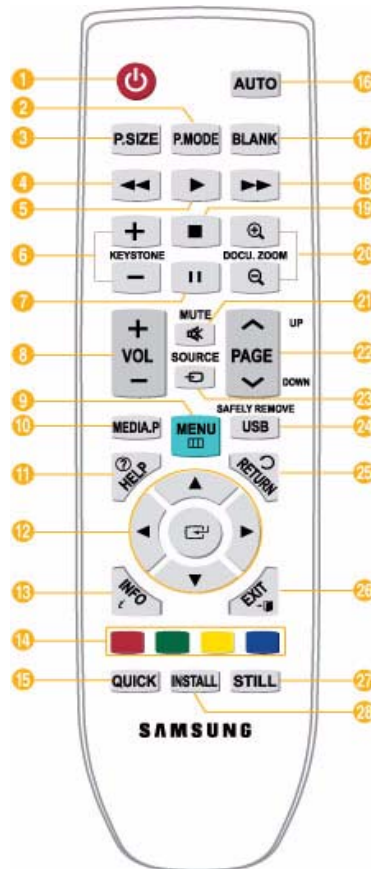
10 MEDIA.P Button
Go directly to <Media Play> mode.
Display the menu items while in <Media Play> mode.

11 HELP Button
Display the button information menu at the bottom of the screen when a document is being viewed in <Media Play> mode.

12 Move (▼▲◀▶) / (⏪) Buttons
Used to move to or select each menu item.

13 INFO Button
Use to check source signals, picture setup, PC screen adjustment, and lamp lifespan.

14 Colored buttons (Only available in <Media Play>)
Red : Use to view subtitle while playing a video file.
Green : Use to set <SlideShow Settings> while playing a photo file.
Yellow : Use to set <Zoom> in document view.
Blue : Use to move pages using <Page Navigation> Menu in document view.



15 QUICK Button
Use to quickly return to the last menu used.

16 AUTO Button
Automatically adjust the screen. (Only enabled in <PC> mode.)

17 BLANK Button
Use to turn off the screen and sound temporarily.
The video and audio will come back on when any button other than the [POWER] button is pressed.

18 Fast forward button
Fast forward video in <Media Play> mode.

19 Stop button
Stop video in <Media Play> mode.

20 DOCU. ZOOM button
Enlarge or reduce a document in the <Document> menu under <Media Play> mode.

21 MUTE (🔇) Button
Press to mute the sound temporarily.
Press the MUTE button again or the [VOL] button (+/-) when the sound is muted to hear sound again.

22 PAGE Button (⏪/⏩)
Use to move to the previous or next page, one page at a time.

23 SOURCE Button
Switch the external input signal.

24 USB SAFELY REMOVE Button
Use to remove a [USB] device safely.

25 RETURN (⏪) Button
Returns to the previous menu.

26 EXIT (+) Button
Use to make the Menu Screen disappear.

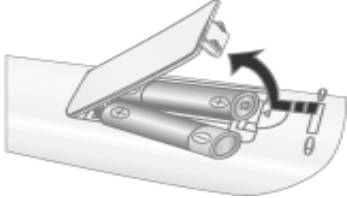
27 STILL Button
Use to see still images.

28 INSTALL Button
Use to adjust the image so that it is appropriate for the projector's installation location (In front of the screen and hanging from the ceiling, behind the screen and hanging from the ceiling, etc.)

- 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 damage the remote.
- You can use the remote control up to a distance of about 32.8 feet (10 m) from the product.

Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.



2. Insert two AAA size batteries.
3. Close the cover.

3-4 LED Indications


LED Indications

●:Light is On ●:Light is Blinking ○:Light is Off

STATUS	LAMP	STAND BY	STATUS
○	○	●	If you press the [POWER] button on the remote control or projector, the screen appears within 30 seconds.
○	●	●	The projector is operating normally.
○	●	●	The projector is preparing an operation after the [POWER] button on the projector or the remote control has been pressed.
○	●	○	The [POWER] button has been pressed to turn off the projector, and the cooling system is in operation to cool off the inside of the projector. (Operates for about 3 seconds.)
●	○	●	The cooling fan inside the projector is not operating normally. Refer to Action 1 in Clearing Indicator Problems below.
●	○	●	The lamp cover protecting the lamp unit is not closed properly. Refer to Action 2 in Clearing Indicator Problems below.
●	○	●	The projector has changed to Cooling mode because its internal temperature has increased beyond the maintenance limit. Refer to Action 3 in Clearing Indicator Problems below.
●	○	●	The projector has turned itself off automatically because its internal temperature has increased beyond the maintenance limit. Refer to Action 4 in Clearing Indicator Problems below.
●	●	●	A problem has occurred with the operation of the lamp. Refer to Action 5 below.

Clearing Indicator Problems





CLASSIFICATION	STATE	MEASURES
Action 1	The cooling fan system is not operating normally.	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 service center.
Action 2	The lamp cover protecting the lamp unit is not properly closed or the sensor system is not operating normally.	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 our service center.
Action 3	The projector has changed to the Cooling mode because the internal temperature of the projector has increased beyond the maintenance limit.	<p>If the internal temperature of the projector has increased beyond the maintenance limit, the projector changes to the Cooling mode before turning off automatically.</p> <p>In Cooling mode, the fan speed is increased and the projector's lamp is changed to <ECO> mode.</p> <p>Check whether the ventilation hole of the projector is blocked.</p> <p>Check the air filter and clean if blocked.</p> <p>Check whether the surrounding temperature of the projector is higher than the standard temperature range of the projector.</p> <p>Cool the projector sufficiently and operate it again.</p>
Action 4	The internal temperature of the projector has risen higher than the limit, and the projector has turned off automatically.	<p>Check whether the ventilation hole of the projector is blocked.</p> <p>Check the air filter and clean if blocked.</p> <p>Check whether the surrounding temperature of the projector is higher than the standard temperature range of the projector.</p> <p>Cool the projector sufficiently and operate it again.</p> <p>If the same problem occurs continually, contact your product distributor or service center.</p>
Action 5	The lamp has malfunctioned after power turns off abnormally or after the projector is powered on right after turning off.	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 a Samsung service center.

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

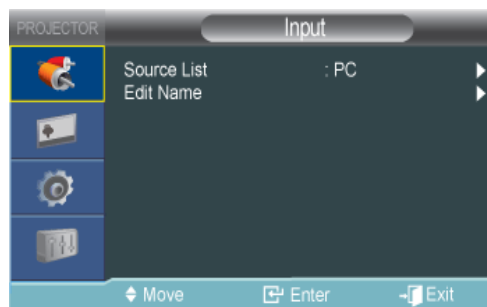
3-5 Using the Screen Adjustment Menu (OSD: On Screen Display)

The Screen Adjustment Menu (OSD: On Screen Display) Structure

To access the Menu, press the Menu button on the product or on the remote. To move in the menu, press the arrow buttons. Menu selections with an arrow on the far right have sub-menus. Press the right arrow button to access the sub-menu. Directions for navigating and selecting items in a menu are at the bottom of each menu screen.

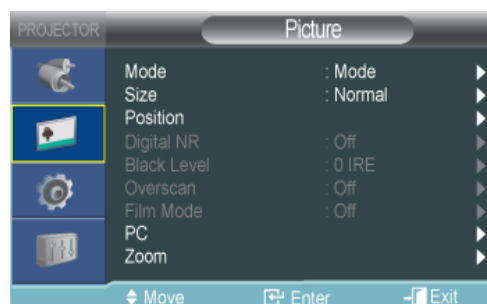
MENU	SUB-MENU				
 Input	Source List	Edit Name			
 Picture	Mode	Size	Position	Digital NR	Black Level
	Overscan	Film Mode	PC	Zoom	
 Setup	Install	Lamp Mode	Auto Keystone	V-Keystone	Background
	Test Pattern	Video Type	Caption	Network	Reset
 Option	Language	Menu Option	Sound	Filter Check Time	Auto Power On
	Sleep Timer	Melody	Security	Panel Lock	Information







3-5-1. Input










MENU	DESCRIPTION
Source List	You can select a device connected to the projector to display. <ul style="list-style-type: none"> <PC>-<AV>-<HDMI> - <Media Play>
Edit Name	You can edit the names of devices connected to the projector. <ul style="list-style-type: none"> <VCR>-<DVD>-<Cable STB>-<Satellite STB>-<PVR STB>-<AV Receiver>-<Game>-<Camcorder>-<PC>-<DVI Devices>-<TV>-<IPTV>-<Blu-ray>-<HD DVD>-<DMA>

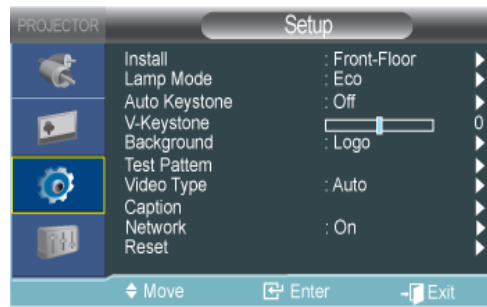
3-5-2. Picture





MENU	DESCRIPTION
Mode	<p>Select a screen mode to match the environment, the kind of images you are projecting, or select a customized mode you have created based on your requirements.</p> <p><Mode></p> <ul style="list-style-type: none"> • <Dynamic> : Selects the picture for increased definition in a bright room. • <Standard> : Selects the picture for the optimum display in a normal environment. • <Presentation> : This mode is suitable for presentations. • <Text> : 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. <p> In <Game> mode, the text in still pictures will appear unnatural.</p> <ul style="list-style-type: none"> • <User> : This is a customized mode you create using the <Mode>→<Save> function. <p> The <Presentation> and <Text> modes are only enabled when the input signal is PC Timing(D-Sub/HDMI) or <Media Play>.</p> <p><Contrast> : Used to adjust the contrast between the object and the background.</p> <p><Brightness> : Used to adjust the brightness of the entire picture.</p> <p><Sharpness> : Used to adjust the sharpness of the picture.</p> <p> <Sharpness> is disabled when the input signal is PC Timing(D-Sub/HDMI) or <Media Play>.</p> <p><Color> : Used to adjust color lighter or darker.</p> <p> <Color> is disabled when the input signal is PC Timing(D-Sub/HDMI) or <Media Play>.</p> <p><Tint> : Used to obtain more natural color by enhancing the amount of green or red in images.</p> <p> <Tint> is disabled when the input signal is PC Timing (D-Sub/HDMI) , AV Timing(VIDEO)'s PAL and SECAM signal, or <Media Play> modes.</p> <p><Color Tone> : The tone of the color can be changed.</p> <ul style="list-style-type: none"> • Factory defaults: <Cool2>, <Cool1>, <Warm1>, <Warm2> • You can select the color temperature for the items below according to your preferences. <R-Gain>, <G-Gain>, <B-Gain> : Adjusts the color temperature of the White level. <R-Offset>, <G-Offset>, <B-Offset> : Adjusts the color temperature of the Black level. • <Color Tone>-<R-Gain>-<G-Gain>-<B-Gain>-<R-Offset>-<G-Offset>-<B-Offset> <p><Gamma> : Changes the brightness characteristic for each color tone of an image.</p> <ul style="list-style-type: none"> • The larger (+) the value, the greater the contrast of the bright and dark parts. The smaller (-) the value, the darker the dark parts. • Adjustable range: -3 to +3 <p><Save> : You can save the status of a screen you adjusted according to your preferences using the <Mode>→<User> OSD.</p> <p><Reset> : Restores the mode settings to the factory defaults.</p>
Size	<p>Using this function, you select a screen size.</p> <p> <Zoom1> and <Zoom2> are disabled when the input signal is PC Timing(D-Sub/HDMI) or <Media Play>.</p> <ul style="list-style-type: none"> • <Normal>-<Zoom1>-<Zoom2>-<16 : 9>





MENU	DESCRIPTION
Position	<p>Using this function, you can adjust the screen position if it is not aligned.</p> <p>To adjust, select the direction you want to move the screen, and then press the arrow button pointing in that direction repeatedly.</p> <p> This function does not work in <Media Play> mode.</p>
Digital NR	<p>If dotted lines appear in an image or the screen shakes, enabling Digital NR (Noise Reduction) can improve the quality of the picture.</p> <p> When the input signal is a PC Timing (D-Sub/HDMI) signal, <Digital NR> does not operate.</p>
Black Level	<p>If the black level is unsuitable for the input signal, the dark parts of an image may look unclear or dim. Using this function, you can select a black level that can improve the visibility of the dark parts.</p> <p> The <Black level> can only be set for the [AV], 480i and 576i in AV Timing (D-Sub), and RGB signals in the [HDMI] input.</p> <p>For [AV], and the 480i and 576i signals of AV Timing (D-Sub).</p> <ul style="list-style-type: none"> • <0 IRE> : Sets the black level to <0 IRE>. • <7.5 IRE> : Sets the black level to <7.5 IRE>. <p>For the RGB signal of <HDMI> mode.</p> <ul style="list-style-type: none"> • <Normal> : Used in a normal environment. • <Low> : Used when the dark parts of an image are too bright.
Overscan	<p>Using this function, you can cut off edge of the a picture when unnecessary information or images appear on the edge of the picture.</p> <p> • Disabled in <AV> and <Media Play> modes.</p> <ul style="list-style-type: none"> • Overscan is supported only when the input signal is an AV Timing (D-Sub) or AV Timing (HDMI) signal. • If <Overscan> is turned off, unnecessary extra parts at the edges of an image may be shown. In this case, turn <Overscan> on.
Film Mode	<p>Using this function, you can set the display mode so that it is optimized for playing movies.</p> <ul style="list-style-type: none"> • <Off>-<Auto> <p> • <Film Mode> is only be supported for the [AV], 480i and 576i of AV Timing (D-Sub) signals.</p> <ul style="list-style-type: none"> • This function does not work in <Media Play> mode.
PC	<p>For PC signals, the four PC functions eliminate or reduce noise that can cause unstable screen quality, such as screen shaking. If the noise is not removed using Fine Adjustment, adjust the frequency to the maximum and then perform Fine Adjustment again.</p> <p> • These functions are only enabled for the PC Timing (D-Sub/HDMI) input of the D-Sub terminal.</p> <ul style="list-style-type: none"> • Refer to PC Timing (D-Sub/HDMI). <ul style="list-style-type: none"> • <Auto Adjustment> : Used to adjust the frequency and phase of PC screen automatically. • <Coarse> : Used to adjust the frequency when vertical lines appear on the PC screen. • <Fine> : Used to fine tune the PC screen. • <Reset> : Using this function, you can reset the PC menu settings to the factory default settings.
Zoom	<p>You can magnify the screen to a size you want.</p> <ul style="list-style-type: none"> • <x1> - <x2> - <x4> - <x8> <p> This function is only enabled when the input signal is a PC Timing (D-Sub/HDMI) signal.</p>

3-5-3. Setup

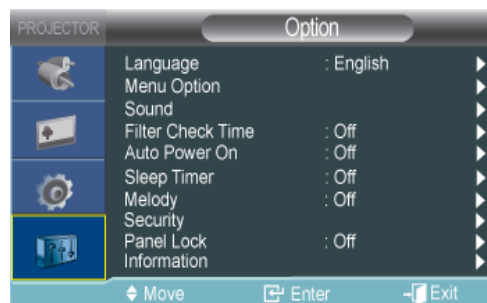





MENU	DESCRIPTION
Install	<p>To tailor the picture to the installation location, (for example, behind a semi-transparent screen, hanging from the ceiling), you can invert the projected images vertically / horizontally.</p> <ul style="list-style-type: none"> • <Front-Floor> : Normal Image • <Front-Ceiling> : Horizontal/Vertical Reversed Image • <Rear-Floor> : Horizontally Reversed Image • <Rear-Ceiling> : Vertically Reversed Image
Lamp Mode	<p>Using this function, you can set the image brightness by adjusting the amount of light generated by the lamp.</p> <ul style="list-style-type: none"> • <Eco> : This mode is optimized for screens smaller than 100 inches. This mode decreases the lamp brightness and power consumption in order to extend the lamp lifetime and reduce noise and power consumption. • <Bright> : This mode maximizes the lamp brightness when the ambient illumination is bright. As the brightness of the lamp increases, the lamp lifetime may be reduced and the noise and power consumption may increase.
Auto Keystone	<p>If video scenes are distorted or tilted, you can compensate for this by setting the <Auto Keystone> function to <On> so that the <V-Keystone> function automatically starts.</p> <ul style="list-style-type: none"> • <Off>-<On>
V-Keystone	<p>If video scenes are distorted or tilted, you can compensate for this using the vertical Keystone function.</p> <ul style="list-style-type: none"> • The sound output of your projector is temporarily stopped while the keystone is being changed. • Keystone does not compensate for distortion in the On Screen Display (OSD) menu.
Background	<p>You can select an image or screen which will appear when there is no signal from the external device connected to the projector.</p> <p><Logo>-<Custom Logo>-<Blue>-<Black></p> <ul style="list-style-type: none"> • The recommended resolution for a picture to be set as the user logo is 600x300.
Test Pattern	<p>A default test pattern built into the projector. You can use it as a reference picture to optimize the installation of the projector and to optimize images.</p> <ul style="list-style-type: none"> • <Crosshatch> : You can check whether the picture is distorted or not. • <Screen Size> : You can reference and display picture format sizes such as 1.33 : 1 or 1.78 : 1.

MENU	DESCRIPTION																																			
Video Type	<p>If the screen quality is abnormal as a result of the projector not identifying the input signal type automatically in <PC> or <HDMI> mode, Video Type lets you manually set the input signal.</p> <p> This function does not work in <Media Play> mode.</p> <ul style="list-style-type: none"> In <PC> mode, the menu is only enabled for AV Timing (D-Sub) input signals. For separate H/V sync, it is only enabled for a 1280 x 720p 59.94Hz/60Hz signal. <ul style="list-style-type: none"> <Auto>-<RGB(PC)>-<RGB(AV)>-<YPbPr(AV)> In <HDMI> mode, <Video Type> is only enabled for the 640x480p 59.94Hz/60 Hz and 1280x720p 59.94Hz/60 Hz signals. <ul style="list-style-type: none"> <Auto>-<PC>-<AV> <table border="1" data-bbox="445 564 1449 1144"> <thead> <tr> <th colspan="2">Usage</th> <th>Color, Sharpness, Tint</th> <th>PC menu</th> <th>zoom</th> </tr> </thead> <tbody> <tr> <td>RGB(PC)</td> <td>When connecting the RGB output of a PC to the D-Sub terminal</td> <td>Disabled</td> <td>Enabled</td> <td>Enabled</td> </tr> <tr> <td>RGB(AV)</td> <td>When connecting the RGB output of an AV device (STB, DVD, etc...) to the D-Sub terminal</td> <td>Enabled</td> <td>Disabled</td> <td>Disabled</td> </tr> <tr> <td>YPbPr(AV)</td> <td>When connecting the YPbPr output of an AV device (STB, DVD, etc...) to the D-Sub terminal</td> <td>Enabled</td> <td>Disabled</td> <td>Disabled</td> </tr> <tr> <td>PC</td> <td>When connecting a PC to the HDMI terminal</td> <td>Disabled</td> <td>Disabled</td> <td>Enabled</td> </tr> <tr> <td>AV</td> <td>When connecting an AV device (STB, DVD, etc...) to the HDMI terminal</td> <td>Enabled</td> <td>Disabled</td> <td>Disabled</td> </tr> <tr> <td>Auto</td> <td>Auto settings</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Usage		Color, Sharpness, Tint	PC menu	zoom	RGB(PC)	When connecting the RGB output of a PC to the D-Sub terminal	Disabled	Enabled	Enabled	RGB(AV)	When connecting the RGB output of an AV device (STB, DVD, etc...) to the D-Sub terminal	Enabled	Disabled	Disabled	YPbPr(AV)	When connecting the YPbPr output of an AV device (STB, DVD, etc...) to the D-Sub terminal	Enabled	Disabled	Disabled	PC	When connecting a PC to the HDMI terminal	Disabled	Disabled	Enabled	AV	When connecting an AV device (STB, DVD, etc...) to the HDMI terminal	Enabled	Disabled	Disabled	Auto	Auto settings	-	-	-
Usage		Color, Sharpness, Tint	PC menu	zoom																																
RGB(PC)	When connecting the RGB output of a PC to the D-Sub terminal	Disabled	Enabled	Enabled																																
RGB(AV)	When connecting the RGB output of an AV device (STB, DVD, etc...) to the D-Sub terminal	Enabled	Disabled	Disabled																																
YPbPr(AV)	When connecting the YPbPr output of an AV device (STB, DVD, etc...) to the D-Sub terminal	Enabled	Disabled	Disabled																																
PC	When connecting a PC to the HDMI terminal	Disabled	Disabled	Enabled																																
AV	When connecting an AV device (STB, DVD, etc...) to the HDMI terminal	Enabled	Disabled	Disabled																																
Auto	Auto settings	-	-	-																																
Caption	<p>The <Caption> function is supported when the external analog signal from the Video input contains subtitles.</p> <ul style="list-style-type: none"> <Caption> : <Off>-<On> <Mode> : <Caption>-<Text> <Channel> : <1>-<2> <Field> : <1>-<2> <p> <ul style="list-style-type: none"> Activated only in <AV> Mode. Depending on the external signal, a change to the channel or <Field> settings may be required. Each <Channel> and <Field> contains different information. <Field><2> carries additional information to supplement information contained in <Field><1>. (e.g. If English subtitles are provided on <Channel><1>, Spanish subtitles will be provided on <Channel><2>.) </p>																																			

MENU	DESCRIPTION
Network	<p>By connecting a LAN cable between the PC and projector, you can use the following supplementary functions on your PC.</p> <p>On your PC, you can check the projector's condition (lifespan of the lamp, operation error, temperature) and remotely control the projector's power On/Off, brightness, and sound On/Off .</p> <p><Network> : <On> - <Off></p> <p><IP Setting></p> <ul style="list-style-type: none"> • <Automatic> : Automatically allots the IP address, Subnet mask and Gateway. • <Manual> : Allows you to manually enter the IP address, Subnet mask and Gateway manually. <p> After pressing the [OK] button to enter values, change the values using the ▲/▼ buttons and move using the ◀/▶ buttons. Once the values are filled in, press the [OK] button.</p> <p><Server IP Setting> : Allows you to enter the server PC's IP address.</p> <p> • To use the network function, <Network> must be set to <On>.</p> <p>• If the network connection fails, enter the IP address of the server PC under <Server IP Setting>.</p>
Reset	<p>Using this function, you can reset various settings to the factory default settings.</p> <ul style="list-style-type: none"> • <Factory Default> : Changes the settings to the factory defaults. • <Reset Filter Time> : Resets the filter time. • <Media Play> : The following functions are activated only when the projector fails to enter the <Media Play> mode due to a <Media Play> mode error. <p> Activated only in <Media Play> Mode.</p> <ul style="list-style-type: none"> • <Recovery Mode>: When the projector is turned off during a firmware update, use this function to continue the update. <ul style="list-style-type: none"> • <OK> - <Cancel> <p> Under normal usage, update by selecting <Setup>→<Update/Reset>→<Firmware Update> in the <Media Play> menu.</p> <ul style="list-style-type: none"> • <System Reset>: When the <Media Play> operation suddenly freezes, use this function to restart <Media Play>. <ul style="list-style-type: none"> • <OK> - <Cancel>

3-5-4. Option



MENU	DESCRIPTION
Language	Using this function, you can select the language used for the menu screen.
Menu Option	<ul style="list-style-type: none"> • <Position> : You can move Menu Position up/down/left/right. • <Transparency> : You can set the translucency of the menu. <ul style="list-style-type: none"> • <High>-<Medium>-<Low>-<Opaque> • <Display Time> : You can set the display time of the menu. <ul style="list-style-type: none"> • <5 sec>-<10 sec>-<30 sec>-<60 sec>-<90 sec>-<120 sec>-<Stay On>
Sound	<p>The projector comes with an internal 7W (mono) speaker. Use the settings below to tailor the sound as desired.</p> <ul style="list-style-type: none"> • <100Hz>-<300Hz>-<1kHz>-<3kHz>-<10kHz>
Filter Check Time	<p>Sets the check period for the filter. (Unit: hours)</p> <ul style="list-style-type: none"> • <Off>-<100>-<200>-<400>-<800> <p> If the filter usage time is larger than the filter check period, the filter check message is displayed for 1 minute whenever the projector is turned on.</p> <p>Filter check message: "<Check the filter, and if necessary, clean or replace it.>".</p>
Auto Power On	<p>With Auto Power On, if power is supplied to the projector, it turns on automatically without your pressing the Power button.</p> <ul style="list-style-type: none"> • <Off>-<On>
Sleep Timer	<p>With Sleep Timer on, if there is no input signal for the specified time, the projector turns off automatically.</p> <p>(There must be no button input from the remote control or the top of the projector for the specified time)</p> <ul style="list-style-type: none"> • <Off>-<10 min>-<20 min>-<30 min> <p> This function does not work in <Media Play> mode.</p>
Melody	<p>Set so that a melody plays when the Projector is turned on or off.</p> <ul style="list-style-type: none"> • <Off> - <Low> - <Medium> - <High>
Security	<p>To deter theft, you can set a password that users must enter when the projector powers on. When you set a password, the projector will not work without it.</p> <ul style="list-style-type: none"> • <Power On Protection> <ul style="list-style-type: none"> • <Off> : Enter your current password and set the protection function to off. • <On> : Enter a new password and set the protection function to on. • <Change Password> : Change your current password. <p> • Use the displayed number keys to enter or change the password.</p> <p>• If you forgot your password, contact a Samsung Service Center.</p>
Panel Lock	<p>You can disable the buttons on the projector body so that the projector can only be operated by the remote control.</p> <ul style="list-style-type: none"> • <Off> - <On>
Information	You can check external source signals, picture setup, and PC picture adjustment.

3-6 Network Management

3-6-1. Management using the Web Browser

The Web Browser lets you monitor and control one projector from a PC without installing any software. Before you can use the Web Browser, you must connect your projector to your local area network. For directions explaining how to connect to a network, see section 2-17, Connecting to a Network.

To control multiple projectors from a single PC, install and run Samsung Projector Manager.

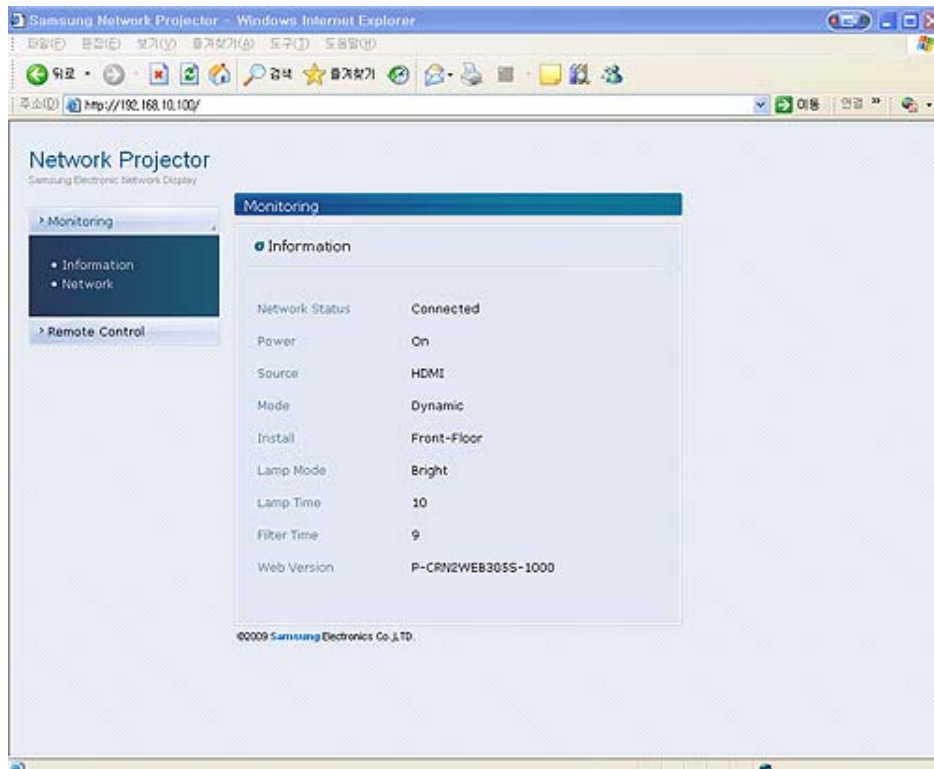
For information about Samsung Projector Manager, go to 3-6-2.

☞ Check the network connection between the PC and projector before connecting the Web Browser. If the network connection has failed, the Web browser window may not be available for use.

- To use the Web Browser, your PC must meet the following minimum system requirement :
 - RAM: More than 10MB
 - Hard Disk capacity: More than 10MB
 - Display resolution: More than 640 x 480
 - Supported OS : Microsoft Windows XP, Windows Vista
 - Web browser : Microsoft Internet Explorer 6 or later version, Netscape Navigator 9 or later version, Mozilla FireFox 3.0.x or later version, Google Chrome.

1. Connecting

- Enter the projector's IP address into the web browser address bar.
 - ☞ Find the projector's IP address by pressing the [MENU] button and selecting <Setup> -> <Network> -> <IP Setting>.
- The Network Projector window appears. For information about control items in the Network Projector window, refer to the items under Section 3-5, Using the Screen Adjustment Menu.
- Some functions listed in 'Using the Screen Adjustment Menu' cannot be used in the web browser because of limitations in remote control by the network.



3-6-2. Projector Management using PC Software

You can monitor and control more than one projector using Samsung Projector Manager.

When installing or using Samsung Projector Manager in PC, you must log in as Administrator.

If you log in using your personal login, that login must have full administrator privileges.

- To use Samsung Projector Manager, your PC must meet the following minimum system requirement :
 - RAM: More than 10MB
 - Hard Disk capacity: More than 10MB
 - Display resolution: More than 640 x 480
 - Supported OS : Microsoft Windows XP, Windows Vista

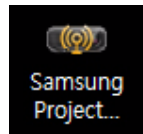
1. Installing the Samsung Projector Manager

- Click 'Samsung Projector Manager' on the CD supplied.
- Install according to the instructions displayed on the PC screen.

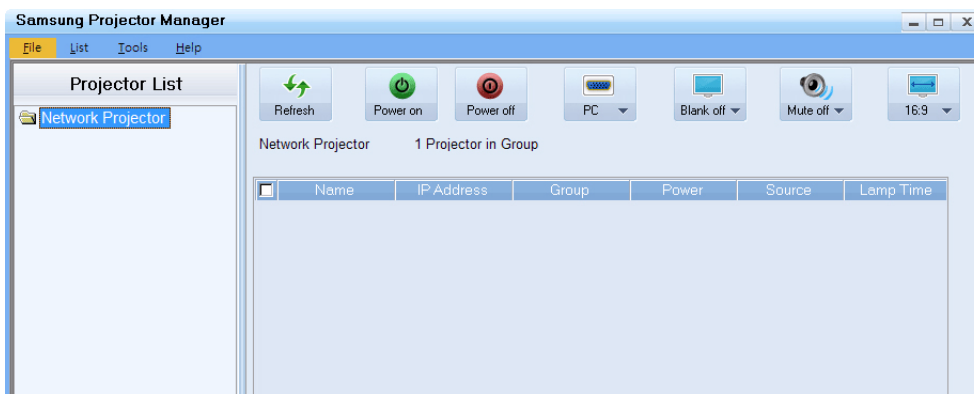
2. Running the Samsung Projector Manager

When the installation of Samsung Projector Manager and the network setup for the projector have been completed, the Samsung Projector Manager will be available for use.

- Click Start > Samsung Projector > Samsung Projector Manager



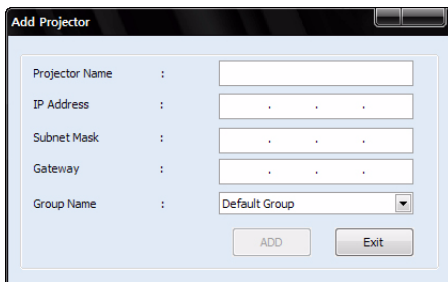
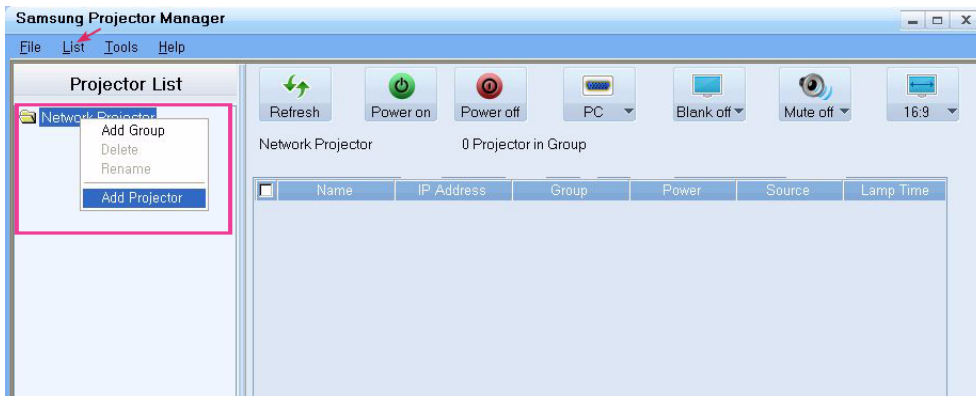
- The <Samsung Projector Manager> window appears.



3. Using the Samsung Projector Manager

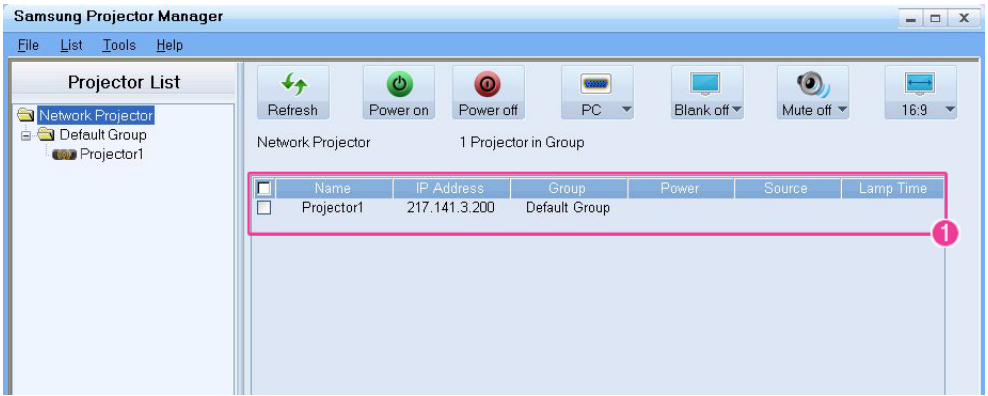
- Projector Grouping and Registering
 - To browse projectors connected to the PC automatically, press <Tools>→<Auto Search>
 - To group or directly register the projectors, select <List>→<Projector>, right-click over <Network Projector> under

<Projector List>, and then select <Add Projector>.




- Specify the <Projector Name>, <IP Address> and <Group Name> to register, and then press <ADD>.
 - 📌 Any group whose name is not specified will automatically be named <Default Group>. To remove and / or rename a registered projector, right-click and then select <Delete> and / or <Rename> respectively.
 - 📌 If a projector is not displayed on the <Projector List >after registration, check if the network connection and the network settings are properly configured. See section 2-17, Connecting to a Network and section 3-5-3, <Setup>→<Network> for information and instructions.
 - 📌 To save or load the registered projector's information, select <File>→<Export Config>.

- Projector Management
 - You can check a projector's lamp condition, temperature, operation, errors, etc in real time.






1 : You can view a projector's Name, IP Address, Group, Power On/Off status, LAMP lifespan, operation errors (represented by icons), etc. in real time.







 Samsung Projector Manager displays icons that indicate a projector's status. The icons are listed in the tables below. If the icons indicate a problem with your projector, see "Clearing Indicator Problems" in section 3-4, LED Indications.

Warning and Error status icons

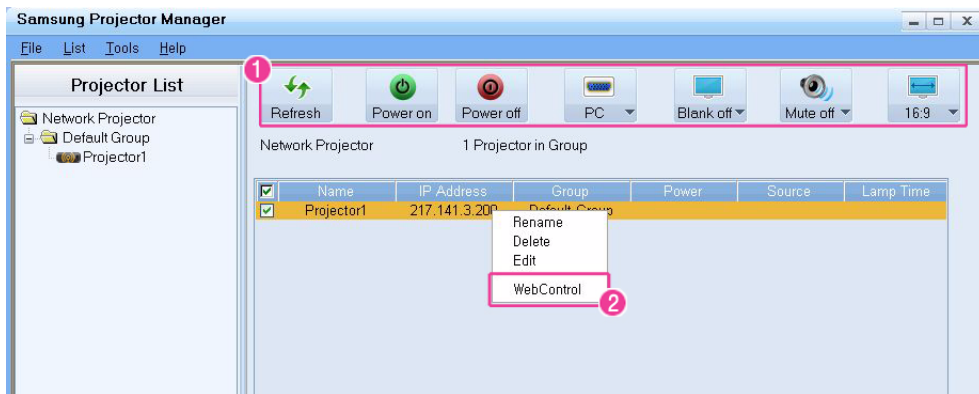
ICONS	STATUS	STATE	ACTION
	Error	The lamp cover protecting the lamp unit is not properly closed.	Refer to Action 2 in Clearing Indicator Problems.
	Error	The lamp is not operating normally.	Refer to Action 5 in Clearing Indicator Problems.
	Error	The lamp has reached the end of its life.	The lamp needs to be replaced.
	Error	The cooling fan 1 is not operating normally.	Refer to Action 1 in Clearing Indicator Problems.
	Error	The cooling fan 2 is not operating normally.	
	Error	The cooling fan 3 is not operating normally.	
	Error	The cooling fan 4 is not operating normally.	
	Error	The cooling fan 5 is not operating normally.	
	Error	The cooling fan 6 is not operating normally.	
	Warning	The internal temperature of the projector has risen higher than the limit.	Refer to Action 4 in Clearing Indicator Problems.
	Error	The internal temperature of the projector has risen higher than the limit.	Refer to Action 4 in Clearing Indicator Problems.
	Error	The internal temperature of the projector has risen higher than the limit.	Refer to Action 4 in Clearing Indicator Problems.

ICONS	STATUS	STATE	ACTION
	Warning	The air filter has reached the end of its life.	The air filter needs to be replaced.
	Warning	The air filter has been blocked by dust.	The air filter needs to be cleaned.
	Error	The air filter has been blocked by dust.	The air filter needs to be cleaned.

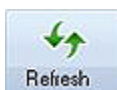
Temperature Level Status Icons

ICONS	STATUS	STATE	ACTION
	Temperature status	The projector's internal temperature is normal.(standby mode)	None. It's normal.
	Temperature status	The projector's internal temperature is normal.(low)	None. It's normal.
	Temperature status	The projector's internal temperature is normal.(medium)	None. It's normal.
	Temperature status	The projector's internal temperature is normal.(little bit high)	None. It's normal.
	Temperature status	The projector's internal temperature is higher than the limit.	Refer to Action 3 in Clearing Indicator Problems.
	Temperature status	The projector's internal temperature is too high. The projector is turned off automatically.	Refer to Action 4 in Clearing Indicator Problems.

- Managing the Projectors



- 1 : Using the icons in the <Projector List> (only applicable to 'V'-marked projectors in the monitoring window)



(Refresh): Updates the status of the projector.



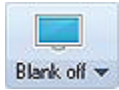
(Power On): Turns on the power of the projector.



(Power Off): Turns off the power of the projector.



PC (Switch Source): Selects a source from HDMI, S-VIDEO, AV, PC, MP.



Blank off (Blank Off/Blank On): Turns the screen of the projector on or off.



Mute off (Mute Off/Mute On): Mutes the sound of a projector on/ off.



16:9 (Adjust Aspect Ratio): Adjusts the aspect ratio of the projector to either 16:9 or Normal.

- If the connected source does not have the <Media Play> feature, <MP> is not available in the Source list.
- If the projector does not have an [S-VIDEO IN] terminal, the <S-VIDEO> source is unusable.

2 : Connecting the Web browser from Samsung Projector Manager

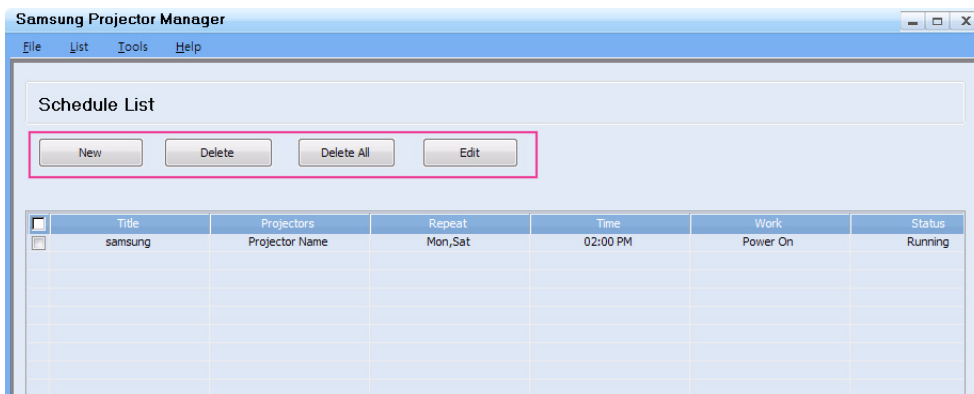
By connecting to the Web Browser in Samsung Projector Manager, you can use more diverse functions. To perform the Web browser connection, select a Projector to connect to, and then right-click to select <WebControl>.

- If the Web browser connection fails, check whether the network connection (see section 2-17, Connecting to a Network) and network settings (see 3-5-3, Setup > Network) are correctly configured.
- Operating one projector using both Samsung Projector Manager and the Web browser at the same time may cause a slowdown in PC operation or an error.

• Using the <Schedule> Function

Using the <Schedule> function, you can manage your projectors more efficiently.

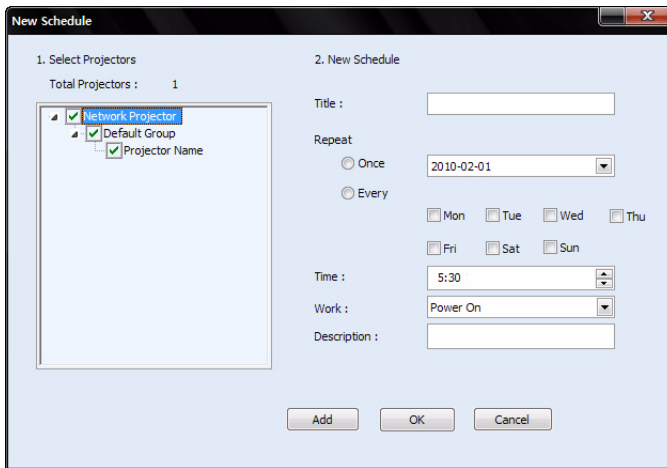
If you select <List>→<Schedule>, the following window appears.



The screen has four buttons:

- <New>: Adds a projector to make a Schedule for.
 - <Delete >: Deletes the Schedule for a selected projector.
 - <Delete All> : Deletes the Schedule for all of the projectors.
 - <Edit> : Edits the Schedule for a selected projector.
- Registering a New Schedule
To register a new schedule, follow these steps:

1. Press the <New> button. The New Schedule screen appears.



2. Select the projectors to apply the new schedule to from the <Select Projectors> field. When you select a projector, a check mark appears in the check box to its left.

3. Set the <new schedule> <Title>, <Repeat>, <Time>, and <Work>, and enter a <Description> of the Schedule. Explanations for each of these terms is below.

-<Title> : Sets the name of a Schedule.

-<Repeat> : Sets the schedule repetition (<Once>- Executes only once, <Every> - Specifies a repetition date).

-<Time> : Determines the time at which a schedule will be executed.

-<Work >: Sets Source switch or <Power On>/<Power Off>

-<Description> : Shows a detailed description of a Schedule.

4. After you have entered all the information, press <ADD>.

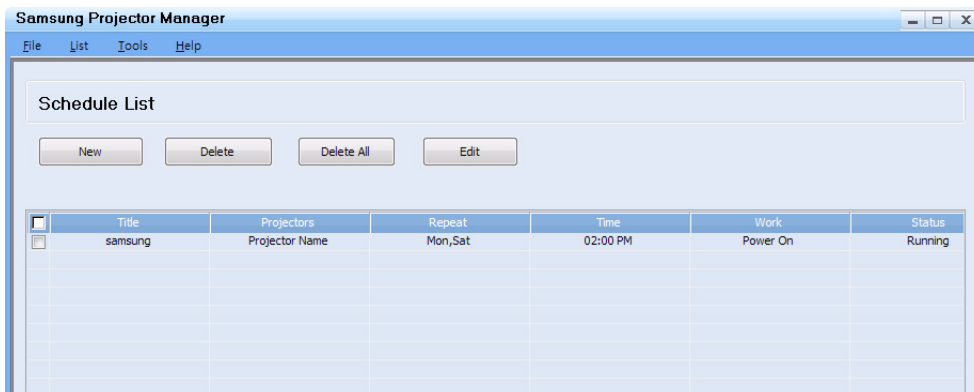
You can view the registration history of a Schedule. You can also view the status of a Schedule. The Status codes are below:

-<Complete>: Schedule complete.

-<Waiting>: Schedule still awaiting execution.

-<Running>: Repetitive schedule is running.

- To save or load the registered schedule, select <File>→<Export Config>.
- If you want to operate a Schedule loaded by <Import Config>, load the projector's information in advance.



- Other settings

The <Tools> selection in the Menu Bar contains two menu items, <Configure Monitoring Items> and <Options>.

- <Configure Monitoring Items>

<Configure Monitoring Item> lets you select an item to be displayed in the monitoring window display. After you select the item, you set the display priority of the item by moving it up or down in the list of items you have selected for display.

- <Options>

<Automatically Run> – When a PC is turned on, Samsung Projector Manager will be turned on automatically.

<Minimize to system tray> – Samsung Projector Manager will be minimized to the system tray.

<File> contains two selections.

- <File> →<Export Config>: Saves all of the configured settings under Samsung Projector Manager in the desired file names to the corresponding folders.

- <File> →<Import Config>: Imports a saved Configuration file. Sets the Samsung Projector Manager to the saved settings.

4 Media Play Function

4-1 Connecting a USB Storage Device and Precautions

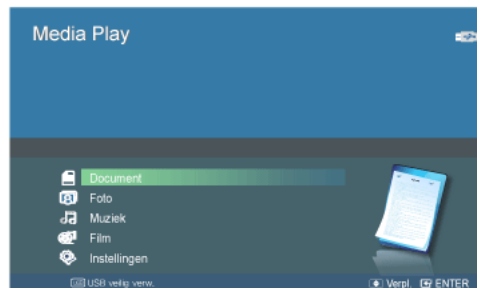
4-1-1. Connecting a USB Device



1. Connect your USB storage device to the USB port on the back of the projector.

- The main page of the <Media Play> menu appears.

- The main page of <Media Play> can also be opened by pressing the [MENU] button and selecting <Input>→<Source List>→<Media Play>
- Supported file systems: FAT, FAT32 (NTFS is not supported.)
- Multi Partition is not supported.
- This projector is not compatible with a multi-card reader or USB hub.



[Selecting a Device]

2. Move to the kind of media you want to view using the ▲/▼ buttons, press the [OK] button.
3. Move to <Internal Memory> or <USB> using the ▲/▼ buttons, and then press the [OK] button.

[Selecting a File]

4. Move to the file or folder you want to view or open using the ▲/▼ buttons, and then press the [OK] button.

- For Document, Music, and Movie folders, a number appears next to each folder, indicating the number of document, music, or movie files in the folder. For Photo folders, the screen displays the number of photo files when you move to the folder.

5. Move to the file you want to view using the ▲/▼ buttons, and then press the [OK] button.

4-1-2. Precautions for using a USB storage device

- This product does not support multi-card readers.
- This product does not work if the USB storage device is connected by a USB HUB.

- Some products which do not comply with standard USB specifications might not operate normally.
- A USB storage device with automatic recognition application or its own driver might not operate normally.
- A USB storage device that uses only a designated driver might not be recognized.
- Recognition speed for USB storage device may vary by device.
- Do not turn off the product or pull a connected USB storage device out while a USB storage device is in use. Doing so may result in damage to the USB storage device or stored file.
- Use a USB storage device which contains normal files. Abnormal files can cause a malfunction or the files may not play.
- USB storage devices must be formatted with the FAT or FAT32 (recommended) file systems supported by Windows. <Media Play> may not work normally if the USB storage device is formatted with another file system.
- If the USB storage device uses external power, please connect the USB storage device to its external power source.
- Use the USB cable provided with the USB device when connecting to the projector. (For more information on purchasing cable and external devices, contact the respective manufacturer.)
- We do not guarantee <Media Play> will operate if a malfunction occurs in any external device caused by your using a cable that does not comply with designated standards.
- As the data in USB storage device can be damaged, please back up important data to avoid loss.
- When using a USB storage device with the projector, subfolders with a maximum depth of 4 from the top folder are supported. Also, if the number of files (including folders) in the same folder exceeds 2,900, it will not be recognized. In addition, if there are a large number of files on a USB device, individual files may take a long time to display.
- If an external memory device does not operate after you've connected it to the projector, try to connect it to a PC. If it still does not operate normally, contact the memory device's manufacturer service center or related customer center.

4-2 Documents

You can view document files in various formats saved on a USB memory device or in the projector's internal memory.

Menu displayed from the Documents screen



The Documents screen.

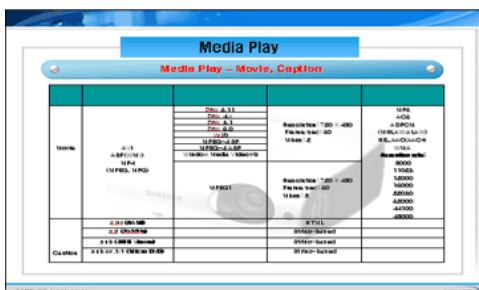
The Menu below appears when you press the [MEDIA.P] button while displaying the Documents screen.

- If you are displaying a screen or item, and then press the [MEDIA.P] button, the menu corresponding to the selected item appears.
- Depending on the current language setting, folder names, file names, or text in a document may appear corrupted. If that is the case, press the [MENU] button and change the language setting in <Language> under <Option>.

MENU ITEM	DESCRIPTION
View	View a document.
Copy	If an external memory device (USB memory device) is connected, files on the external memory device can be copied to the projector's internal memory and vice versa.
Copy All Files	Copy all files to internal and external memory.
Delete	Delete the selected file.
Delete All Files	Delete all files in a folder.

Menu displayed when you are viewing a document








Select the file you want using the ▲/▼ buttons on the projector or remote control.




Using the remote control while viewing a document

- **MEDIA.P** : Open the document menu
- **^ PAGE v** : Move to the previous or next page
Move to the previous or next sheet in a Excel file
- **▲/▼/◀/▶** : Direction buttons
- **🔍** : Enlarge a document
- **↶** : Return to the previous stage
- **ℹ** : View information about the available buttons

If you press the [MEDIA.P] button when viewing a document, the following menu appears.

MENU ITEM	DESCRIPTION
Zoom	<p>Enlarge or reduce a document.</p> <ul style="list-style-type: none"> • <Zoom In> : Enlarge a document (25% increments within the range of 100% ~ 500%). • <Zoom Out> : Reduce a document. • <Custom> : Enlarge or reduce the screen by a specific percentage. <ul style="list-style-type: none"> • <100%> - <200%> - <300%> - <400%> - <500%> <p> Enlarge or reduce a document view using the  or  button on the remote control.</p>
Page Navigation	<p>Go directly to a specific page.</p> <ul style="list-style-type: none"> • Enter a page number using the ◀/▶ and ▲/▼ buttons, check the page number in the preview window on the upper right corner of the screen, and then select <Go> to move to that page.
Page Map	<p>Display the zoom area.</p> <ul style="list-style-type: none"> • <Off> - <On> <p> • If a page is zoomed in, the enlarged area is displayed in the <Page Map> window on the upper right corner.</p> <ul style="list-style-type: none"> • If a page is not zoomed in, the <Page Map> window does not appear.
Aspect Ratio	<ul style="list-style-type: none"> • <Fit to Screen> : Display a document to fit the screen size. • <Original Fit> : Display a document at its original size. • <Fit to Width> : Display a document to fit the screen width. • <Fit to Height> : Display a document to fit the screen height.
Rotate	<p>Rotate a document by a specified angle.</p> <p>Select the angle you want using the ◀/▶ buttons, and then press the [Ⓜ] button.</p> <ul style="list-style-type: none"> • <0 °> - <90 °> - <180 °> - <270 °> <p> Supported in PDF format only.</p>
Encoding	<p>To view a text (.TXT) file without any character corruption, you must select the original language that was used to create the file.</p> <p>Select the language using the direction keys.</p> <ul style="list-style-type: none"> • <Korean> - <Central Europe> - <Cyrillic> - <Baltic> - <Greek> - <Turkish> - <Hebrew> - <Arabic> - <Latin> - <Vietnam> - <Germany> - <Français> - <Norway> - <Thai> - <Japanese> - <Simplified Chinese GBK> - <Traditional Chinese Big5> <p>(e.g.: To view a text file created in German, select <Germany>)</p> <p> • For some of the European countries whose languages are not found on the list, select <Central Europe>.</p> <ul style="list-style-type: none"> • Files created in English do not require encoding.
Video Clip	<p>This feature is used to play a video linked to a PowerPoint document (.ppt). Select the video file you want to play from the presentation slide.</p> <p> • Only enabled for presentation slides with a video clip linked to them.</p> <ul style="list-style-type: none"> • The linked video file must be in the same folder as the corresponding document file. • For supported file formats, refer to the '4-7 Supported File Formats' section.

-  • Loading time may be longer for large files.
- This product may not work properly when a file does not comply with standards or it is damaged.
- This product may not work when a file contains too much data to display on a screen.

For example, too much data on one sheet in a Excel file.

- This product supports only one font. If a screen uses other fonts, the image Media Play displays may be different than the original screen.

(Ex)

1. The position of line breaks in a sentence might be dissimilar.
 2. The position of page breaks in a MS Word document might be changed.
 - In this case, the document might be shown incompletely according to the Layout properties for <Picture> or <Shapes> or <Object> in MS word . (Please refer to the manual of MS Word for more information on the Layout properties.)
- This product does not support some functions found in original files. For example, the animation function in a PowerPoint file.
 - This product does not support encrypted files (DRM).

4-3 Photo

Enjoy a slideshow of photos saved on a USB memory device or in the projector's internal memory.

Menu displayed from the Photo Thumbnails screen



The Photo Thumbnails screen.

The Menu below appears when you press the [MEDIA.P] while displaying the Photo Thumbnails screen.

- If you are displaying a screen or item, and then press the [MEDIA.P] button, the menu corresponding to that screen or item appears.
- Depending on the current language setting, folder or file names may appear corrupted.
If this occurs, press the [MENU] button and change the language setting in <Language> under <Option>.

MENU ITEM	DESCRIPTION
Start Slideshow	Start a slideshow.
Play Mode	<ul style="list-style-type: none"> • <All Photos>: Play photos in order of file name. • <Photo in Folder>: Play photos in a specific folder in order of file name. • <Shuffle All Photos>: Play photos found in a specific memory device randomly. • <Shuffle Photo in Folder>: Play photos in a specific folder randomly. • <Repeat One Photo>: Play only one specific photo repeatedly.
Copy	If a USB memory device is connected to the projector, you can copy files from the USB device to the projector's internal memory and from the internal memory to the USB device.
Copy All Files	Copy all files to internal memory or to a USB device.
Delete	Deletes a selected image.
Delete All Files	Deletes all image files in a USB storage device.
Set as Background	Set a specific picture as the background image of the main page of <Media Play>.
Set as Custom Logo	Sets the selected image as the projector logo. <ul style="list-style-type: none"> • To use this option, press [MENU] and go to <Setup>. Check that <Background> is set to <Custom Logo>. • The recommended resolution for a picture to be set as the user logo is 600x300.

- To use this function in your presentation, convert general word processor files to image files before saving them to a USB storage device.

For example, convert .ppt (Microsoft Powerpoint) files to → .jpg /.bmp /.gif

Convert .pdf (Adobe Acrobat) files to → .jpg

Caution: Make sure to save image files to your USB storage device in the order of presentation.

Slideshow

Select the file you want using the ▲/▼ buttons on the projector or remote control.



Using the remote control during a slideshow:

- **MEDIA.P** : Open the photo menu.
- ◀/▶ : View the previous or next photo.
- ⏸ : Pause or resume a slideshow.
- ↻ : Return to the previous stage.
- 📄 : Only enabled in the document and movie menu.

If you press the [MEDIA.P] button when viewing a slideshow, the following menu appears.

MENU ITEM	DESCRIPTION
Stop Slideshow / Start Slideshow	Stop or start a slideshow.
Slideshow Setting	<p><Transition> : Selects the slideshow mode.</p> <ul style="list-style-type: none"> • <No Effect> - <Wipe> - <Blind> - <Box In/Out> - <Silk> - <Circle> - <Plus> - <Random> <p><Speed> : Adjusts the slideshow playback rate.</p> <ul style="list-style-type: none"> • <Fast> - <Normal> - <Slow> <p><Mode> : Selects manual (view one by one) or auto (slideshow) play.</p> <ul style="list-style-type: none"> • <Auto> - <Manual> <p>📄 If you selected <Manual>, move between photos using the </> buttons on the projector or the ◀/▶ buttons on the remote control.</p>
Play Mode	<ul style="list-style-type: none"> • <All photos> : Plays all available image files. • <Photo in Folder> : Plays all image files in a selected folder. • <Shuffle all photos> : Randomly plays all available image files in a USB storage device. • <Shuffle photo in Folder> : Randomly plays all image files in a selected folder. • <Repeat one photo> : Displays an image file repeatedly.
Rotate	<p>Rotate a photo by a specified angle.</p> <p>Select the angle you want using the [📄] button.</p> <ul style="list-style-type: none"> • <90°> - <180°> - <270°> - <Original>
Aspect Ratio	<ul style="list-style-type: none"> • <Original Fit> : Display a photo smaller than the screen at the original size or reduce a photo larger than the screen in direct proportion to the screen size. • <Auto Fit> : Resize a photo to fit the screen, maintaining the original aspect ratio of the photo (the image may be cut off horizontally or vertically). • <Fit to Width> : Resize a photo to fit the screen width. • <Fit to Screen> : Enlarge or reduce the size of a photo, regardless of the aspect ratio of the photo, to fit the full screen.
Delete	Delete the selected file.
Set as Background	Set a specific picture as the background image of the main page of <Media Play>.

MENU ITEM	DESCRIPTION
Background Music	<ul style="list-style-type: none"> • <On> : Play music defined as background music in file name order. • <Off> : Stop the background music that is being played. • <Music Setting> : Define background music for a slideshow.
Set as Custom Logo	<p>Sets the selected image as the projector logo.</p> <ul style="list-style-type: none"> • To use this option, press [MENU] and go to <setup>. Check that <Background> is set to <Custom Logo>. • The recommended resolution for a picture to be set as the user logo is 600x300.

4-4 Music

Enjoy music files saved on a USB memory device or the projector's internal memory.

Menu displayed from the Music List screen.



The Music List screen.

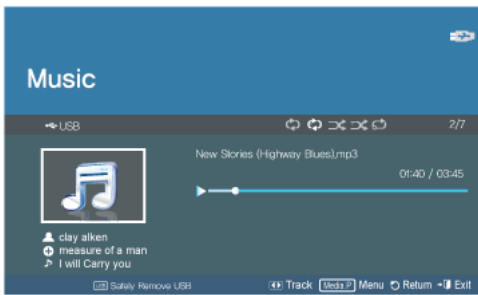
The Menu below appears when you press the [MEDIA.P] button while displaying the Music List screen.

- If you are displaying a screen or item, and then press the [MEDIA.P] button, the menu corresponding to that screen or item appears.
- Depending on the current language setting, folder or file names may appear corrupted. If this occurs, press the [MENU] button and change the language setting in <Language> under <Option>.

MENU ITEM	DESCRIPTION
Play Music	Plays music files.
Play Mode	<ul style="list-style-type: none"> • <All musics> : Play music in file name order. • <Music in Folder> : Play music in a specific folder in file name order. • <Shuffle all musics> : Play music in a specific memory device randomly. • <Shuffle music in Folder> : Play music in a specific folder randomly. • <Repeat one music> : Play only one specific music file repeatedly.
Copy	If an external USB memory device is connected to the projector, files on the external memory device can be copied to the projector's internal memory and vice versa.
Copy All Files	Copy all files to internal or external memory.
Delete	Deletes a selected music file.
Delete All Files	Deletes all music files in a USB storage device.

Menu displayed when playing music.

Select the file you want using the ▲/▼ buttons on the projector or remote control.



Using the remote control while playing music:

- **MEDIA.P** : Open the music menu.
- ◀▶ : Play the previous or next music file.
- ⏸ : Pause or resume playing music.
- ↺ : Return to the previous stage.
- 📄 : Only enabled in the document and movie menu.

If you press the [MEDIA.P] button when playing music, the following menu appears.

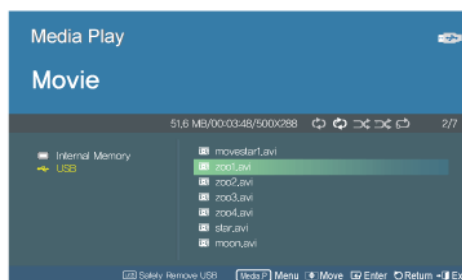
- 🔗 Depending on the current language setting, the music file information [👤🔊🎵] may appear corrupted. If that is the case, press the [MENU] button and change the language in <Language> under <Option>.

MENU ITEM	DESCRIPTION
Play Mode	<ul style="list-style-type: none"> • <All music> : Plays all available music files. • <Music in Folder> : Plays all music files in a selected folder. • <Shuffle all music> : Randomly plays all available music files. • <Shuffle music in Folder> : Randomly plays all music files in a selected folder. • <Repeat one music> : Plays a selected music file repeatedly.

4-5 Movie

Enjoy video files saved on a USB memory device or in the projector's internal memory.

Menu displayed from the Movie List screen



The Movie File screen.

The Menu below appears when you press the [MEDIA.P] button while displaying the Movie List screen.

- 🔗 If you are displaying a screen or item, and then press the [MEDIA.P] button, the menu corresponding to that screen or item appears.
- Depending on the current language setting, folder or file names may appear corrupted..
If this occurs, press the [MENU] button and change the language setting in <Language> under <Option>.

MENU ITEM	DESCRIPTION
Play Movie	Plays video files.
Play Mode	<ul style="list-style-type: none"> • <All Movies> : Play video files in order of file name. • <Movie in Folder> : Play video files in a specific folder in order of file name. • <Shuffle All Movies> : Play video files in a specific memory device randomly. • <Shuffle Movie in Folder> : Play video files in a specific folder randomly. • <Repeat One movie> : Play only one specific video file repeatedly.
Copy	If an external USB memory device is connected to the projector, files on the external memory device can be copied to the projector's internal memory and vice versa.
Copy All Files	Copy all files to internal or external memory.
Delete	Delete the selected file.
Delete All Files	Delete all files in a folder.

Menu displayed when playing a movie



Select the file you want using the ▲/▼ buttons on the projector or remote control.

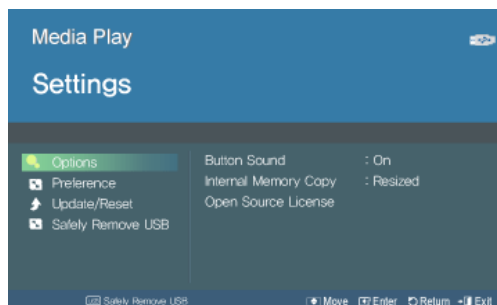


Using the remote control while playing video



- **MEDIA.P** :Open the video menu
- ◀▶ : Play the previous or next video file
- ⏸ : Pause or resume playing video
- ⏪ : Return to the previous stage
- ⓘ : View information about the available buttons

If you press the [MEDIA.P] button when playing a movie, the following menu appears.

MENU ITEM	DESCRIPTION
Play Mode	<ul style="list-style-type: none"> • <All Movies> : Plays all available video files. • <Movie in Folder> : Plays all video files in a selected folder. • <Shuffle all movies> : Randomly plays all available video files. • <Shuffle movie in Folder> : Randomly plays all video files in a selected folder. • <Repeat one movie> : Plays a selected video file repeatedly.
Subtitle Setting	<ul style="list-style-type: none"> • <Subtitle Setting>: Switch the subtitle function <On> or <Off> • <Language> : Select the subtitle language. • <Background> : Change the subtitle background settings. <ul style="list-style-type: none"> • <On> - <Off> • <Position> : Change the subtitle location settings. <ul style="list-style-type: none"> • <Down> - <Up> - <Reset> <ul style="list-style-type: none">  <ul style="list-style-type: none"> • The video must have external subtitles in order to view them with the Caption feature turned on. • See the table for supported subtitle file types. Refer to "4-7 Supported File Formats". • Subtitle files must be in same directory as the video file. • : Change the , and <Shadow Effect> settings for subtitles. <ul style="list-style-type: none"> • : <Small> - <Middle> - <Large> • : <White> - <Black> - <Red> - <Green> - <Blue> - <Yellow> • <Shadow Effect> : <Off> - <On> • <Sync> : Use in the occurrence of a mismatch between a video and subtitles. <ul style="list-style-type: none"> • <- 0.5Sec> - <+0.5Sec> - <Reset> <ul style="list-style-type: none">  <ul style="list-style-type: none"> • Not supported for video files with internal subtitles.
Aspect Ratio	<p>Change the screen aspect ratio settings.</p> <ul style="list-style-type: none"> • <4:3> - <16:9> - <Original Ratio>

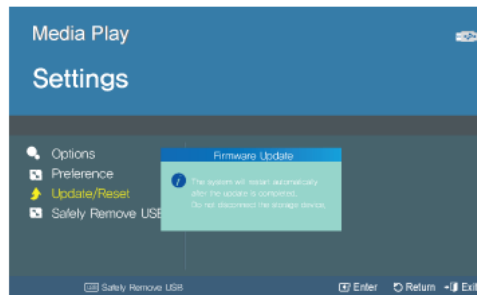


Use the ▲/▼/⏪ buttons to move to and access the Setting menus listed below.

MENU ITEM	DESCRIPTION
<p>Options</p>	<p><Button Sound> : Change the button control sound settings for the <Media Play> menu.</p> <ul style="list-style-type: none"> • <Off> - <On> <p><Internal Memory Copy> : Change the size of photos you want to copy to internal memory.</p> <ul style="list-style-type: none"> • <Original Size> : Copy photos at the original size to internal memory. • <Resized> : Reduce the size of photos according to the optimal screen resolution and then copy. <p><Open Source License> : To send inquiries and requests for questions regarding open sources, contact Samsung via Email (vdsmanager@samsung.com).</p>
<p>Preference</p>	<p><Home Background> : Select the image that will be displayed on the main page of the <Media Play>.</p> <ul style="list-style-type: none"> • <Default> : Display the default image provided by the projector. • <Custom> : Display the image you selected as background image. <p><DivX(R)VOD> : You can view the certified registration code for the projector when you use the VOD (Video on Demand) service provided by DivX.</p> <p> DivX@VOD</p> <div data-bbox="496 790 756 887" style="text-align: center;">  </div> <p>ABOUT DIVX VIDEO:</p> <ul style="list-style-type: none"> • DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video. DivX Certified® to play DivX® video up to 320x240 May play DivX® video up to 720x480 <p>ABOUT DIVX VIDEO-ON-DEMAND:</p> <ul style="list-style-type: none"> • This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD. <p>Pat. 7,295,673</p>
<p>Update/Reset</p>	<ul style="list-style-type: none"> • <Firmware Update> : Update the firmware. Please see the '4-6-1 Firmware Update' section. • <Reset Settings> : Initialize the settings customized by the user • <Product Information> : Display the firmware version and copyright information of the projector.
<p>Safely Remove USB</p>	<p>Remove your USB device safely.</p> <p>If the <You can remove the USB.> message appears, remove the USB device.</p>

4-6-1. Firmware Update

Download the latest firmware version from the Samsung Electronics website (<http://www.samsung.com>) and install.



- As data saved in the internal memory can be deleted during an update, always back up your data.
- Do not remove the external memory (USB) device during the update.
- Do not operate any buttons during the update.
- Do not turn the projector off during the update.
- Once the update is complete, turn the projector off, remove the external memory (USB) device and turn the projector on again.
- Select <Settings>→<Update/Reset>→<Product Information> and see if the software version has been updated successfully.

Before Software Upgrade!

1. Prepare a USB memory device.
2. Download the latest firmware version from the Samsung Electronics website onto your PC.
3. Connect the USB memory device to the PC.
4. Copy the downloaded software to the USB memory device.

To upgrade software

1. Connect the USB memory device to the projector.
2. Open the main page of <Media Play>.
3. Move to <Settings> using the [▲/▼] buttons, and then press the [OK] button.
4. Move to <Update/Reset> using the [▲/▼] buttons, and then press the [OK] button.
5. Select <Firmware Update> using the [OK] button.
 - The update will start automatically.

4-7 Supported File Formats

Supported File Formats

ITEM	FILE EXTENSION
Document	MS Word 97 ~ 2007 (doc, docx)
	Adobe PDF 1.2 ~1.7 (pdf)
	MS PowerPoint 97 ~ 2007 (ppt, pptx)
	MS Excel 95 ~2007 (xls, xlsx)
	Text (txt)
Photo	JPEG <ul style="list-style-type: none"> The Progressive format is not supported. CYMK color is not supported (It is displayed Black and white) Crop function is not supported (resolution larger than 1024x768)
Music	MP3 (sample rate: 8~320Khz)
	WMA (sample rate: 8~384Khz)

ITEM	FILE EXTENSION	CODEC	REMARKS (MAXIMUM RESOLUTION/BIT RATE ETC.)	AUDIO CODEC
Movie	AVI ASF(WMV) MP4 (MPEG, MPG)	Divx 3.11	Resolution: 720 X 480 Frame/sec: 30 Mbps: 2	Supported Format MP3 AC3 ADPCM (MULAW,ALAW) AAC HE_AAC(AAC+) WMA Audio sampling rate : 8000 11025 12000 16000 22050 24000 32000 44100 48000
		Divx 4.x		
		Divx 5.1		
		Divx 6.0		
		XviD		
		MPEG-4 SP		
		MPEG-4 ASP		
		Windows Media Video 9		
		MPEG1	Resolution: 720 X 480 Frame/sec: 30 Mbps: 8	

Supported Subtitle formats

NAME	FILE EXTENSION	FORMAT
SAMI	.smi	HTML
SubRip	.srt	string-based
SubViewer	.sub	string-based
Micro DVD	.sub or .txt	string-based


5 Troubleshooting


5-1 Before Requesting Service

🔍 Please check the following before requesting After-Sales service. If the problem continues, please contact your nearest Samsung Electronics Service Center.

	Symptoms	Troubleshooting
Installation and Connection	No Power.	Check the power cable connections.
	I want to install my projector on the ceiling.	The ceiling installation bracket is sold separately. Contact your local product distributor.
	External Source can not be selected.	Be sure that the video cable or cables are properly connected to the correct jack or jacks on both ends. If the device is not connected properly, it can not be selected.
Menu and Remote Control	Remote control does not work.	Be sure that the proper external source is selected. Check the battery in the remote. If there is something wrong with it, replace it with a new battery of the recommended size. Be sure to aim the remote at sensor on the back of the unit and at a distance of no more than approximately 32.8 feet(10 m). Remove any obstacles between your remote control and the product. Direct light from 3-way light bulbs or other lighting devices on the remote sensor of the projector may affect the sensitivity and cause the remote control to malfunction. Check if the remote control battery compartment is empty. Check whether the LED indicator on the top of the projector is turned on.
		I cannot select a menu.

	Symptoms	Troubleshooting
Screen and External Source	Cannot see picture images.	<p>Be sure that the power cord of the projector is connected.</p> <p>Be sure that the proper input source is selected.</p> <p>Check that the connectors are properly connected to the ports at the back of the projector.</p> <p>Check the Remote Control batteries.</p> <p>Be sure that the <Color> and<Brightness> settings are not at their lower limit.</p>
	Poor color.	Adjust the <Tint> and <Contrast>.
	Images are not clear.	<p>Adjust the focus.</p> <p>Check if the projector is too far from or too near to the screen.</p>
	Strange noise.	If a strange sound continues, contact your Service Center.
	An operating LED is lit.	Refer to the LED Indications section.
	Lines appear on screen.	On-screen noise may occur when using your PC. Adjust the frequency (refresh rate) of the screen.
	No external device screen is displayed.	Check the operating status for the external device and check whether the adjustable menu items, such as <Brightness> and <Contrast> have been changed correctly in the <Mode> command screen of the Projector menu.
	Only a blue screen appears.	Be sure to properly connect the external devices. Check the connection cables again.
	Screen appears in black and white or in an odd color, or the screen is too dark or bright.	<p>As mentioned above, check the adjustable items such as <Brightness>, <Contrast>, or <Color> in the menu.</p> <p>If you want to restore various settings to their factory defaults, run <Factory Default> from the menu.</p>

	Symptoms	Troubleshooting
Network	The Web browser will not start up.	Check the system requirements for the PC to connect to the Web browser.
	The Web browser will not connect to the projector.	<ol style="list-style-type: none"> 1. Check whether the power cable is connected to the projector (See Section 2-9, Connecting the Power). 2. Check if the network environments for the PC and projector are correct (See Section 2-17, Connecting to a Network). 3. Check whether the correct network card in the PC has been selected when the PC (server) has more than two network cards.
	Installation of Samsung Projector Manager has failed.	Check Samsung Projector Manager's system requirements for PCs.
	The projector will not connect to Samsung Projector Manager.	<ol style="list-style-type: none"> 1. Check if the <IP Setting> and network connection between the PC and projector are correct. 2. If <IP Setting> for the projector is set to <Automatic>, check whether the PC and projector share the same network. If it is not the same network, configure the IP of the server PC using the <Server IP Setting> option. 3. Check if the projector's network access is blocked by the PC's Windows firewall. 4. If Samsung Projector Manager connection's failure persists, remove and retry installation.
	I want to remove Samsung Projector Manager.	<p>Samsung Projector Manager can be removed using the [Add or Remove Programs] option. To remove Samsung Projector Manager in Windows XP, follow these steps :</p> <ol style="list-style-type: none"> 1. Select [Control Panel] from the [Start] menu. (Windows XP) 2. Run [Add or Remove Programs]. 3. Select Samsung Projector Manager under [Add or Remove Programs], and then click [Change/Remove]. 4. Select "Yes" to start the removal. 5. Follow additional directions as they appear on your screen. <p> Other versions of Windows have a similar removal process.</p>

	Symptoms	Troubleshooting
Media Play Function	I hear no sound when playing a video file from my USB storage device.	<p>Check the audio format of the video file.</p> <p>Sound is not available for non-supported formats such as AC3, etc.</p> <p>Convert the audio format into a supported format using a video converter.</p>
	The subtitle is not displayed for video that is being played.	<p>Press the [MEDIA.P] button on the screen where video is being played and check if <Subtitle Setting> is set to <On>.</p> <p>To view video with the subtitle function on, the video file must contain an external subtitle file.</p> <p>For the subtitle file formats supported, please refer to the "4-7 Supported File Formats" section.</p> <p>The subtitle file must be located in the same folder as the video file.</p>
	The <Media Play> function doesn't work.	<p>Reset the <Media Play> mode by pressing the [MENU] button and selecting <Setup>→<Reset>→<Media Play>→<Recovery Mode>.</p> <p>If the problem persists, download the latest version of firmware onto your USB device, connect the USB device to the projector and run <Setup>→<Reset>→<Media Play>→<System Reset>.</p> <p> The latest version of firmware can be downloaded from "http://www.samsung.com/".</p>
	Name of a folder or a file and document contents are distorted.	<p>This can happen when the language of the folder or file differs from the language you selected as the display language for the product.</p> <p>Change to the proper language in <Option>→<Language> on the Screen Adjustment menu by pressing [MENU] button.</p>
	A file can not be opened.	<p>Files that have a format not supported by the product or that have security settings might not open. Check the file format in "4-7. Supported File Formats" or release the security settings.</p>
	The font of documents look different from the original one.	<p>This product supports one font. Documents written in other fonts are converted into the supported font and displayed.</p>
	The connected USB doesn't work.	<p>Check that USB is connected to USB jack properly. If the connection is good, the USB icon appears at the right upper part of <Media Play> screen.</p> <p>Damaged USB devices can not connect and will malfunction. Try the USB again after formatting or other USB device.</p> <p>Refer to "4-1. USB Connecting a USB Storage Device and Precautions" before operating the USB.</p>
	Files are not copied even though there is enough space in the internal memory.	<p>Available space could be smaller than the files you intend to copy, delete other files and try to copy.(Available storage capacity is 59MB)</p>

6 More Information

6-1 Specifications

6-1-1. SP-M205 / SP-M225 / SP-M255


MODEL		SP-M205	SP-M225	SP-M255
Panel	Size	0.63 inches 3P LCD		
	Resolution	XGA (1024 x 768)		
Aspect ratio		4 : 3		
Power	Power Consumption	240 W (Standby : under 1W)	240 W (Standby : under 1W)	260 W (Standby : under 1W)
	Voltage	100~240V AC, 50/60Hz		
Lamp	Power Consumption	180 W	180 W	200 W
	Life Time	3,000 Hours (Eco : 5,000 Hours)		
Dimension		279 x 229 x 79 mm / 10.98 x 9.02 x 3.11 inches		
Weight		2.5 Kg / 5.5lbs		
Key Features	Brightness	2,000 ANSI	2,200 ANSI	2,500 ANSI
	Contrast	500 : 1		
	Projection Range	1 m ~ 14 m / 39.37 inches ~ 551.18 inches		
	Keystone	Auto : Vertical(±20°) / Manual : Vertical (±20°)		
	Network	Wired LAN Port (RJ45), 10 Mbps		
	Zoom Adjustment	Manual		
	Focus Adjustment	Manual		
	Screen Size (Diagonal)	Diagonal 30 inches ~ 400 inches		
	Lens	F = 1.7 ~ 1.87, f = 19.2 mm ~ 23 mm		
	Zoom Ratio	1 : 1.2		
Input signal	D-Sub 15p	Analog RGB, analog YPbPr		
	HDMI	Digital RGB, digital YPbPr		
	RCA x 1	Composite video		
	Media Play	USB supports		
Speaker		7 W (Mono)		
User Environ- ment	Temperature and Humidity	Operating : Temperature 41 °F ~ 95 °F (5 °C ~ 35 °C), Humidity : 20 % ~ 80 % (Non-condensing)		
		Storage : Temperature 14 °F ~ 140 °F (-10 °C ~ 60 °C), Humidity : 10 % ~ 90 % (Non-condensing)		
Noise		Eco : 31 dB, Bright : 36 dB		

6-1-2. SP-M275 / SP-M305

MODEL		SP-M275	SP-M305
Panel	Size	0.63 inches 3P LCD	
	Resolution	XGA (1024 x 768)	
Aspect ratio		4 : 3	
Power	Power Consumption	280 W (Standby : under 1W)	295 W (Standby : under 1W)
	Voltage	100~240V AC, 50/60Hz	
Lamp	Power Consumption	230 W	
	Life Time	3,000 Hours (Eco : 5,000 Hours)	
Dimension		279 x 229 x 79 mm / 10.98 x 9.02 x 3.11 inches	
Weight		2.7 Kg / 6.0 lbs	
Key Features	Brightness	2,700 ANSI	3,000 ANSI
	Contrast	2000 : 1 (Only in Dynamic of picture mode)	
	Projection Range	1 m ~ 14 m / 39.37 inches ~ 551.18 inches	
	Keystone	Auto: Vertical(±20°) / Manual: Vertical (±20°)	
	Network	Wired LAN Port (RJ45), 10 Mbps	
	Zoom Adjustment	Manual	
	Focus Adjustment	Manual	
	Screen Size (Diagonal)	Diagonal 30 inches ~ 400 inches	
	Lens	F = 1.7 ~ 1.87, f = 19.2 mm ~ 23 mm	
	Zoom Ratio	1 : 1.2	
Input signal	D-Sub 15p	Analog RGB, analog YPbPr	
	HDMI	Digital RGB, digital YPbPr	
	RCA x 1	Composite video	
	Media Play	USB supports	
Speaker		7 W (Mono)	
User Environ- ment	Temperature and Humidity	Operating : Temperature 41 °F ~ 95 °F (5 °C ~ 35 °C), Humidity : 20 % ~ 80 % (Non-condensing)	
		Storage : Temperature 14 °F ~ 140 °F (-10 °C ~ 60 °C), Humidity : 10 % ~ 90 % (Non-condensing)	
Noise		Eco : 31 dB, Bright : 35 dB	

 **Class B (Information Communication equipment for residential use)**

This device is registered for EMC requirements for home use (Class B). It can be used in all areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

-  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.

Communication Format (Complies with the RS232C Standard)

- Baud rate : 9,600 bps
- parity : None
- Data bits : 8, stop bit : 1
- Flow Control : None

Serial Communication Protocol

1. Command Packet Structure [7bytes]

0x08	0x22	cmd1	cmd2	cmd3	value	CS
------	------	------	------	------	-------	----

- A command packet consists of 7 bytes in total.
 - The two bytes 0x08 and 0x22 signify that the packet is for serial communication.
 - The following 4 bytes represent a pre-defined command that can be defined by the user.
 - The last byte is the checksum which checks the validity of the current packet.
- Header [2 Byte]: Pre-defined values fixed to 0x08 and 0x22.
 - Cmd1 [1 Byte]: The first value of the code defined in the command list (Hexadecimal)
 - Cmd2 [1 Byte]: The second value of the code defined in the command list (Hexadecimal)
 - Cmd3 [1 Byte]: The third value of the code defined in the command list (Hexadecimal)
 - Value [1 Byte]: Input parameter for the command (Default: 0) (Hexadecimal)
 - CS [1 Byte]: Checksum (the 2's complement of the sum of all the values except for the CS value.)

2. Response Packet Structure [3 Bytes]

1. Success

0x03	0x0C	0xF1
------	------	------

2. Fail

0x03	0x0C	0xFF
------	------	------

- When the received packet from an external device has a valid value, a Success packet is sent. Otherwise, a Fail packet is sent.
- A Fail packet is sent if:
 - The received packet length is not equal to 7 bytes.
 - The 2 byte packet header value is not equal to 0x08, 0x22.
 - The check sum is incorrect.
- Failure detection by an external device
 - An external device classifies the packet as Fail if it does not receive a Success packet within 100ms.

Command Table

CONTROL ITEM				CMD1	CMD2	CMD3	VALUE	
General	Power	Power	Display OSD / Power On	0x00	0x00	0x00	0	
			OK				1	
			Cancel				2	
			Direct Power Off				3	
	Volume	Direct		0x01	0x00	0x00	(0~100)	
			Continuous				Up	0x01
			Down				0x02	0
	Mute		On	0x02	0x00	0x00	0	
			Off				1	
	Blank		On	0x03	0x00	0x00	0	
			Off				1	
	Still		On	0x04	0x00	0x00	0	
			Off				1	
	Power On Protection		(0~9) Keypad	0x05	0x00	0x00	(0~9)	
Input	Source List	AV	AV	0x0A	0x00	0x01	0	
		PC	PC			0x03	0	
		HDMI	HDMI			0x04	0	
		Media Play	Media Play			0x05	0	

CONTROL ITEM				CMD1	CMD2	CMD3	VALUE	
Picture	Mode	Dynamic		0x0B	0X00	0x00	0	
		Standard					1	
		Presentation					2	
		Text					3	
		Movie					4	
		Game					5	
		User					6	
	Contrast	0~100			0X02	0x00	(0~100)	
	Brightness	0~100			0X03	0x00	(0~100)	
	Sharpness	0~100			0X04	0x00	(0~100)	
	Color	0~100			0X05	0x00	(0~100)	
	Tint (G/R)	G50 / R50			0x06	0x00	(0~100)	
	Color Tone	Cool2			0x0A	0x00	1	
		Cool1					2	
		Warm1					3	
		Warm2					4	
	WB	R offset			0x0B	0x00	(0~100)	
		G offset					0x01	(0~100)
		B offset					0x02	(0~100)
		R gain					0x03	(0~100)
		G gain					0x04	(0~100)
B gain				0x05			(0~100)	

CONTROL ITEM				CMD1	CMD2	CMD3	VALUE
Picture	Gamma	-3~3		0x0B	0x0C	0x00	(0~6)
	Save	Display OSD			0x0D	0x00	0
		OK					1
		Cancel					2
		Direct Save					3
	Reset				0x0E	0x00	0
	Size	Normal			0x0F	0x00	0
		Zoom1					1
		Zoom2					2
		16:9					3
	Digital NR	Off			0x10	0x00	0
		On					1
	Black Level	0 IRE/NORMAL			0x11	0x00	0
		7.5 IRE/LOW					1
	Overscan	Off			0x12	0x00	0
		On					1
	Film Mode	Off			0x13	0x00	0
		Auto					1
	PC	Auto adjustment			0x14	0x00	0
		Coarse	UP		0x15	0x00	0
			DOWN				1
		fine	Up		0x16	0x00	0
			DOWN				1
		Reset	Display OSD		0x17	0x00	0
			OK				1
			Cancel				2
	Direct Reset		3				
	Zoom	x1			0x18	0x00	0
		x2					1
		x4					2
		x8					3
		LEFT			0x19	0x00	0
		RIGHT					1
		Up					2
		Down					3

CONTROL ITEM				CMD1	CMD2	CMD3	VALUE
Picture	Horizontal Position	Continuous	LEFT	0x0B	0x1A	0x00	0
			RIGHT				1
	Vertical Position	Continuous	DOWN		0x1B	0x00	0
			Up				1
Setup	Install	Front-Floor		0x0C	0x00	0x00	0
		Front-Ceiling					1
		Rear-Floor					2
		Rear-Ceiling					3
	Lamp Mode	ECO		0x01	0x00	0	
		Bright				2	
	Keystone	V-Keystone	-50~50	0x02	0x00	(0~100)	
		Auto Keystone	Off			0x02	0
			On				1
	Background	Logo		0x03	0x00	0	
		Blue				1	
		Black				2	
		Custom Logo				3	
	Test Pattern	Crosshatch		0x04	0x00	0	
		Screen size				1	
		Pattern Off				2	
	Video Type	Auto		0x05	0x00	0	
		RGB(PC)				1	
		RGB(AV)				2	
		YPbPr(AV)				3	
		PC				4	
		AV				5	
	Reset	Factory Default	Display OSD	0x06	0x00	0	
			Ok			1	
			Cancel			2	
			Direct Factory Default			3	
		Reset Filter Time	Display OSD			0x01	0
			Ok				1
Cancel			2				
Direct Reset Filter Time			3				

CONTROL ITEM				CMD1	CMD2	CMD3	VALUE		
Setup	Reset	Recovery Mode	Display OSD	0x0C	0x06	0x02	0		
			Ok				1		
			Cancel				2		
			Direct Factory Default				3		
		System Reset	Display OSD			0x03	0		
			Ok				1		
			Cancel				2		
			Direct Reset Filter Time				3		
	Caption	Caption	Off	0x07	0x00	0			
			On			1			
		Mode	Caption			0x01	0		
			Text				1		
		Channel	1			0x02	0		
			2				1		
		Field	1			0x03	0		
			2				1		
	Network	Network	Off	0x0E	0x01	0x00	0		
			On				1		
		IP Setting	Automatic				0x02	0x00	0
			Manual						1
			IP Address				0x03	0x00	0~255
								0x01	0~255
								0x02	0~255
								0x03	0~255
		Subnet Mask	0x04				0x00	0~255	
							0x01	0~255	
							0x02	0~255	
							0x03	0~255	
Gateway		0x05	0x00				0~255		
			0x01				0~255		
			0x02				0~255		
			0x03				0~255		
Server IP Setting		Server IP	0x06				0x00	0~255	
							0x01	0~255	
							0x02	0~255	
							0x03	0~255	

CONTROL ITEM				CMD1	CMD2	CMD3	VALUE
Option	Language	English		0x0D	0x00	0x00	0
		Deutsch					1
		Nederlands					2
		Español					3
		Français					4
		Italiano					5
		Svenska					6
		Português					7
		Русский					8
		中国語					9
		한국어					10
		Türkçe					11
	ไทย		12				
	Menu Option	Position	LEFT		0x01	0x00	0
			RIGHT				1
UP				2			
DOWN				3			
Transpar- ency		High		0x02	0x00	0	
		Medium				1	
		Low				2	
		Opaque				3	
Display Time		5 sec		0x03	0x00	0	
		10 sec				1	
		30 sec				2	
		60 sec				3	
		90 sec				4	
	120 sec		5				
	Stay On		6				

CONTROL ITEM				CMD1	CMD2	CMD3	VALUE	
Option	Sound	100Hz	Up	0x0D	0x04	0x01	0	
			Down				1	
		300Hz	Up			0x02	0	
			Down				1	
		1KHz	Up			0x03	0	
			Down				1	
		3KHz	Up			0x04	0	
			Down				1	
		10KHz	Up			0x05	0	
			Down				1	
		Filter Check Time	Off			0x05	0x00	0
			100					1
	200		2					
	400		3					
	800		4					
	Auto Power ON	Off	0x06	0x00	0			
		On			1			
	Sleep Timer	Off	0x07	0x00	0			
		10 min			1			
		20 min			2			
		30 min			3			
	Information		0x08	0x00	0			
	Panel Lock	Off	0x0A	0x00	0			
		On			1			
	Melody	Off	0x0B	0x00	0			
		Low			1			
		Medium			2			
		High			3			

6-3 Contact SAMSUNG WORLDWIDE

 If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

NORTH AMERICA		
U.S.A	1-800-SAMSUNG(726-7864)	http://www.samsung.com
CANADA	1-800-SAMSUNG(726-7864)	http://www.samsung.com
MEXICO	01-800-SAMSUNG(726-7864)	http://www.samsung.com
LATIN AMERICA		
ARGENTINA	0800-333-3733	http://www.samsung.com
BRAZIL	0800-124-421 4004-0000	http://www.samsung.com
CHILE	800-SAMSUNG(726-7864)	http://www.samsung.com
COLOMBIA	01-8000112112	http://www.samsung.com
COSTA RICA	0-800-507-7267	http://www.samsung.com
ECUADOR	1-800-10-7267	http://www.samsung.com
EL SALVADOR	800-6225	http://www.samsung.com
GUATEMALA	1-800-299-0013	http://www.samsung.com
HONDURAS	800-7919267	http://www.samsung.com
JAMAICA	1-800-234-7267	http://www.samsung.com
NICARAGUA	00-1800-5077267	http://www.samsung.com
PANAMA	800-7267	http://www.samsung.com
PUERTO RICO	1-800-682-3180	http://www.samsung.com
REP. DOMINICA	1-800-751-2676	http://www.samsung.com
TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	http://www.samsung.com
VENEZUELA	0-800-100-5303	http://www.samsung.com
EUROPE		
AUSTRIA	0810 - SAMSUNG(7267864,€ 0.07/min)	http://www.samsung.com
BELGIUM	02-201-24-18	http://www.samsung.com/be (Dutch) http://www.samsung.com/be_fr (French)
CZECH	800 - SAMSUNG (800-726786)	http://www.samsung.com
	Distributor pro Českou republiku: Samsung Zrt., česká organizační složka, Oasis Florenc, Sokolovská394/17, 180 00, Praha 8	
DENMARK	70 70 19 70	http://www.samsung.com
EIRE	0818 717100	http://www.samsung.com
ESTONIA	800-7267	http://www.samsung.com
FINLAND	030 - 6227 515	http://www.samsung.com
FRANCE	01 48 63 00 00	http://www.samsung.com

EUROPE		
GERMANY	01805 - SAMSUNG (726-7864,€ 0,14/Min)	http://www.samsung.com
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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 on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them 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 these items for environmentally safe recycling.

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

Correct disposal of batteries in this product - Europe only



(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.