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LG DLP PROJECTOR

Please read this manual carefully before operating your set.

Retain it for future reference.

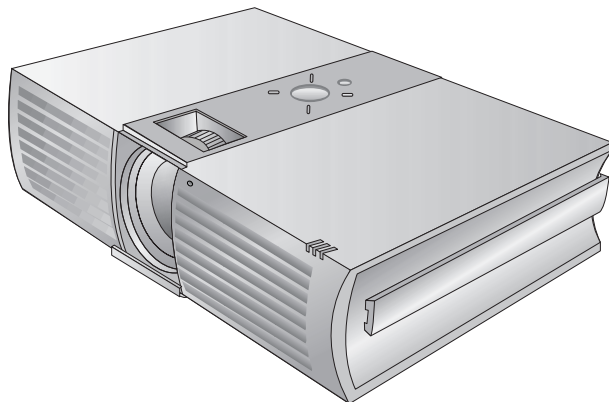
Record model number and serial number of the set.

See the label attached on the bottom of the set and quote this information to your dealer when you require service.

Model number :

Serial number :

**RD-JT91
RD-JT92
OWNER'S MANUAL**



DLP PROJECTOR

RD-JT91

FCC NOTICE

• A Class A digital device

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning

This is a class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

RD-JT92

FCC NOTICE

• A Class B digital device

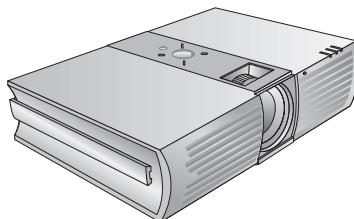
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

- **Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

Warning

This is a class B product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.




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Safety Instructions


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


→ Safety Instructions are given in two forms as detailed below.

 **WARNING** : The violation of this instruction may cause serious injuries and even death.

 **NOTES** : The violation of this instruction may cause light injuries or damage to the projector.


→ After reading this manual, keep it in the place that the user always can contact easily.


Indoor Installation	 WARNING	
<p>Do not place the Projector in direct sunlight or near heat sources such as radiators, fires and stove etc.</p> <p>This may cause a fire hazard !</p>	<p>Do not place inflammable materials beside the projector</p> <p>This may cause a fire hazard !</p>	<p>Do not allow children to hang on the installed projector.</p> <p>It may cause the projector to fall, causing injury or death.</p>

Indoor Installation	 NOTES	
<p>Disconnect from the mains and remove all connections before moving.</p>	<p>Do not place the projector close to sources of steam or oil such as a humidifier.</p> <p>This may create a fire hazard or an electric shock hazard !</p>	<p>Do not place the projector where it might be exposed to dust.</p> <p>This may cause a fire hazard !</p>

<p>When installing the projector on a table, be careful not to place it near the edge.</p> <p>This may cause the projector to fall causing serious injury to a child or adult and serious damage to the projector.</p> <p>Only use a suitable stand.</p>	<p>Only use the projector on a level and stable surface.</p> <p>It may become unstable and affect operation.</p>	<p>Ensure good ventilation around the projector. The distance between the projector and the wall should be more than 20cm/8 inches.</p> <p>An excessive increase in its internal temperature may cause a fire hazard!</p>
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<p>Do not block the vents of the projector or restrict air-flow in any way.</p> <p>This would cause the internal temperature to increase and could cause a fire hazard!</p>	<p>Do not place the projector directly on a carpet, rug or place where ventilation is restricted.</p> <p>This would cause its internal temperature to increase and might create a fire hazard !</p>
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Outdoor Installation	 WARNING	
<p>Do not use the projector in a damp place such as a bathroom where it is likely to get wet.</p> <p>This may cause a fire or an electric shock hazard !</p>		

Power	 WARNING	
<p>Earth wire should be connected.</p> <p>If the earth wire is not connected, there is a possible danger of electric shock caused by the current leakage.</p> <p>If grounding methods are not possible, a separate circuit breaker should be employed and installed by a qualified electrician.</p> <p>Do not connect ground to telephone wires, lightning rods or gas pipe.</p>	<p>The mains plug should be inserted fully into the power outlet to avoid a fire hazard !</p> <p>This may cause a fire hazard !</p>	<p>Do not place heavy objects on the power cord</p> <p>This may cause a fire or an electric shock hazard !</p>

Power

 **WARNING**

Do not use too many plugs on the Mains multi-outlet.
It may result in overheating of the outlet and causes a fire hazard !

Power

 **NOTES**

Never touch the power plug with a wet hand

This may cause an electric shock hazard !

Hold the plug firmly when unplugging. If you pull the cord the cord may be damaged.

This may cause a fire hazard !

Prevent dust collecting on the power plug pins or outlet.

This may cause a fire hazard !

Do not plug when the power cord or the plug is damaged or the connecting part of the power outlet is loose.

This may cause a fire or an electric shock hazard !

Ensure the power cord does not come into contact with sharp or hot objects such as a heater.

This may cause a fire or an electric shock hazard !

Place the projector where people will not trip or tread on the power lead.

This may cause a fire or an electric shock hazard !

Do not turn the projector On/Off by plugging-in or unplugging the power plug to the wall outlet.
(Do not use the power plug for switch.)

It may cause mechanical failure or could give an electric shock.

Using

 **WARNING**

Do not place anything containing liquid on top of the projector such as flowerpot, cup, cosmetics or candle.

This may cause a fire hazard !

In case of impact shock or damage to the projector switch it off and unplug it from the mains outlet and contact your service center.

This may cause a fire or an electric shock hazard !

Do not allow any objects to fall into the projector.

This may cause an electric shock hazard !

If water is spilt into the projector unplug it from the mains supply outlet immediately and consult your Service Agent.

This may cause an electric shock hazard !

Dispose of used batteries carefully and safely.

In the case of a battery being swallowed by a child please consult a doctor immediately.

In the event that an image does not appear on the screen please switch it off and unplug it from the mains supply and contact your Service Agent.

This may cause a fire or an electric shock hazard !

Do not remove any covers (except lens cover). High risk of Electric Shock!

Don't look directly onto the lens when the projector is in use. Eye damage may occur!

Do not touch metal parts during or soon after operation since the vents and lamp cover will remain very hot!

Using

 WARNING

Never touch the wall outlet when there is leakage of gas, open the windows and ventilate.

It can cause a fire or a burn by a spark.

Do not drop the projector or allow impact shock.
This may cause mechanical failure or personal injury !

Using

 NOTES

Do not place heavy objects on top of projector.

This may cause mechanical failure or personal injury!

Take care not to cause impact to the lens particularly when moving the projector.

Do not touch the lens of the projector. It is delicate and easily damaged.

Do not use any sharp tools on the projector as this will damage the casing.

Cleaning

 WARNING

Do not use water while cleaning the projector

This may cause damage to the projector or an electric shock hazard.

In the unlikely event of smoke or a strange smell from the projector, switch it off , unplug it from the wall outlet and contact your dealer or service centre.

This may cause a fire or an electric shock hazard !

Use an air spray or soft cloth that is moist with a neutral detergent and water for removing dust or stains on the projection lens.

Cleaning

 NOTES

Contact the Service Center once a year to clean the internal parts of the projector.

Accumulated dust can cause mechanical failure.

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

This may cause damage to the Projector or cause an electric shock hazard !

Others

 WARNING

Do not attempt to service the projector yourself. Contact your dealer or service centre.

This may cause damage to the projector and could give an electric Shock as well as invalidating the warranty !

Others

 NOTES

Be sure to unplug if the projector is not to be used for a long period.

Accumulated dust may cause a fire hazard!

Refer lamp servicing to qualified service personnel.

Do not mix new batteries with old batteries.

This may cause the batteries to over-heat and leak.

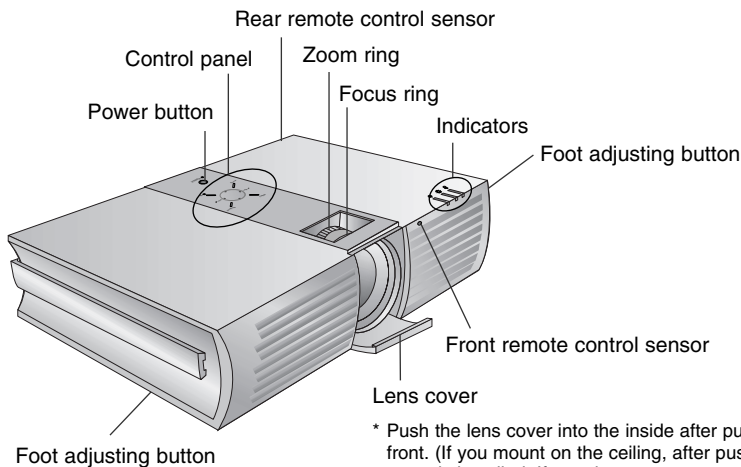
Only use the specified type of battery.

This could cause damage to the remote control.

Names of parts

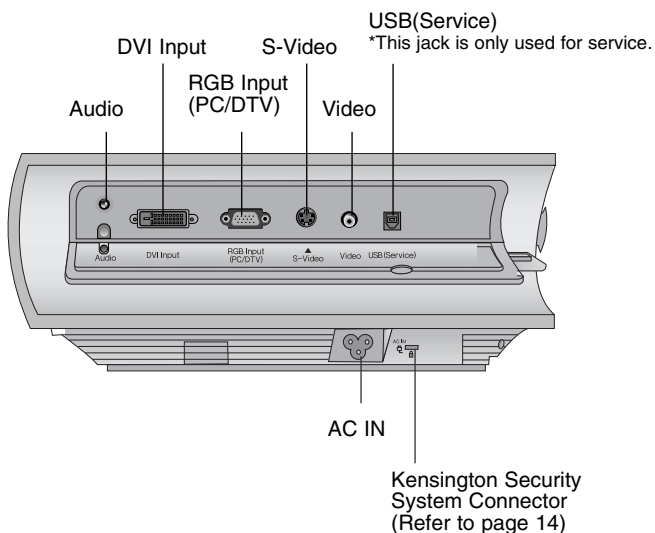
Main Body

* The projector is manufactured using high-precision technology. You may, however, see on the Projector screen tiny black points and/or bright points (red, blue, or green). This can be a normal result of the manufacturing process and does not always indicate a malfunction.

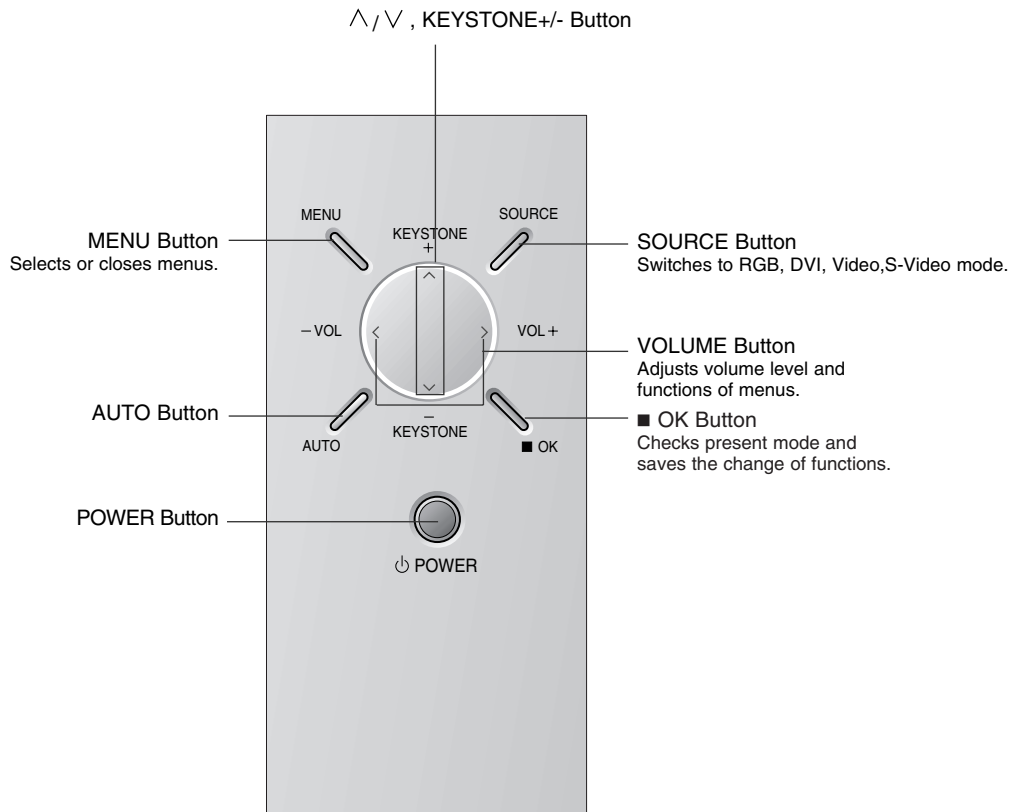


* Push the lens cover into the inside after pulling it open into the front. (If you mount on the ceiling, after pushing the cover, the lens cover is installed. If not, the cover may overlap projecting lens.)

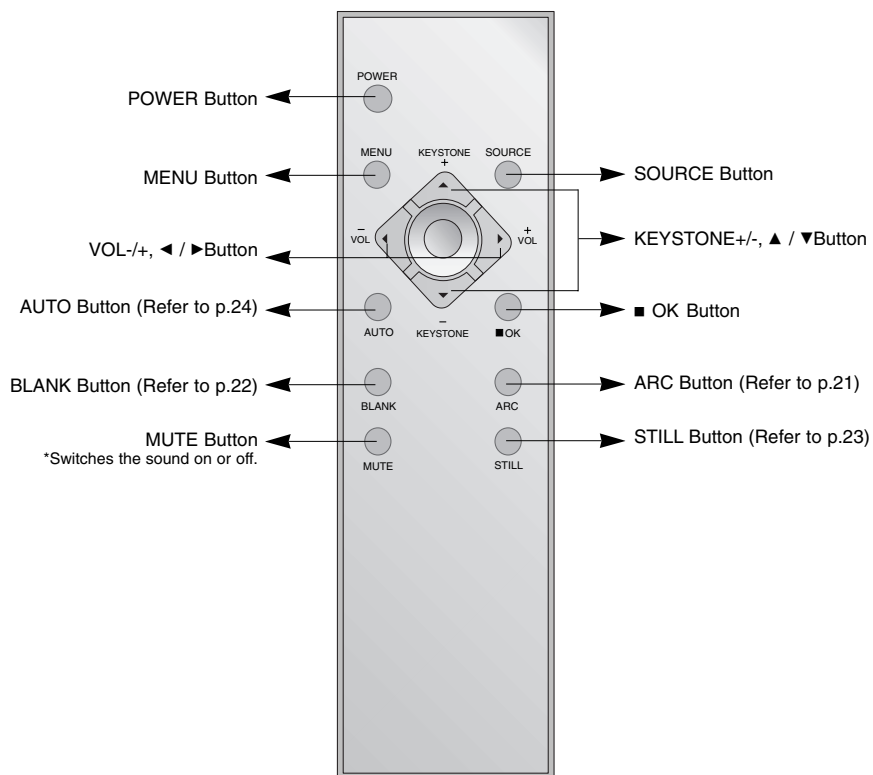
Connecting Part



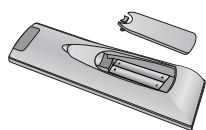
Control Panel



Remote Control



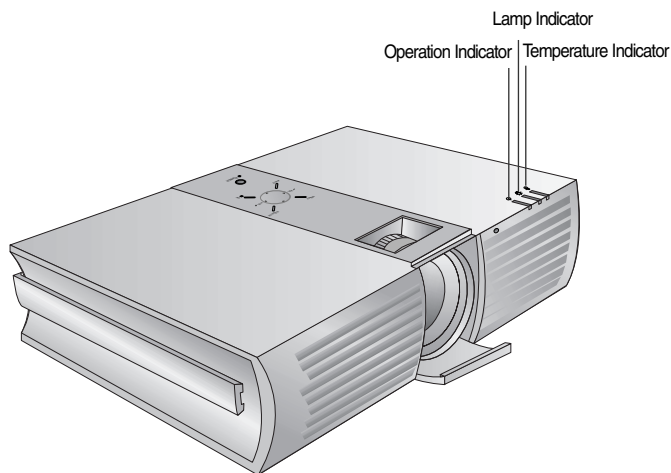
Installing Batteries



- Open the battery compartment cover on the back of the remote control and insert the batteries with correct polarity, match "+" with "+", and match "-" with "-".
- Install two 1.5V "AAA" batteries.
Don't mix used batteries with new batteries.

Projector Status Indicators

* Lamp Indicator, operation indicator and temperature indicator at the top of the projector show the user the operating status of the projector.

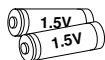


Operation Indicator	Orange	Standby.
	Green(flashing)	Lamp cooling until the lamp turn on.
	Green	On operation. (Turn on the lamp)
	Orange(flashing)	Projector lamp is cooling as power out (2 minutes)
	Off	Power off.
Lamp Indicator	Red	Projector lamp is reaching the end of its life and needs to be replaced with a new lamp. (over 2000 hours)
	Red(flashing)	The projector has trouble in the lamp or around it at power-on. Retry Power On again later. If lamp indicator is red (flashing) again, contact the service center.
	Green(flashing)	The lamp cover is not closed.
Temperature Indicator	Orange	This projector is in high temperature. Turn the power of projector off and check the ventilator.
	Red	The projector is turned off as its high temperature.
	Red (flashing)	Power has turned off due to problem with the internal cooling fan. Contact your service center.

Accessories



Remote Control



2 Batteries (size AAA)



Power Cord



Video Cable



Computer Cable



DVI-D Cable



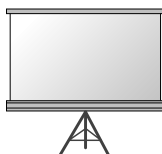
RCA to D-Sub Cable



Operating guide

Optional Extras

- * Contact your dealer to purchase these items.
- * When applying a ceiling installer, use only the ceiling installer for projector.
- * Contact your service personnel for replacing a new lamp.
- * Projector lamp is reaching the end of its life and needs to be replaced with a new lamp.



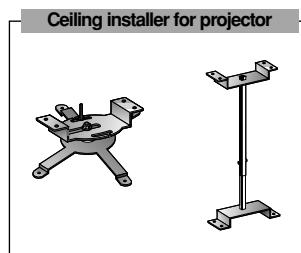
Projection Screen



Lamp



SCART to RCA jack (option)



Audio Cable



RCA to PC Audio Cable



Portable Bag



S-Video Cable

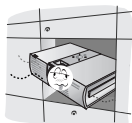
Installation and Composition

Installation Instructions

* Don't place the projector in the following conditions. It may cause malfunction or product damage.

● Provide proper ventilation for this projector.

●The projector is equipped with ventilation holes(intake) on the bottom and ventilation holes(exhaust) on the front. do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.



●Do not place the projector on a carpet, rug or other similar surface. It may prevent a adequate ventilation of the projector bottom. This product should be mounted to a wall or ceiling only.



●Never push projector or spill liquid of any kind into the projector.



●Leave an adequate distance(30cm/12 inches or more) around the projector.



● Place this projector in adequate temperature and humidity conditions.

● Install this projector only in a location where adequate temperature and humidity is available. (refer p.27)

● Don't place the projector where it can be covered with dust.

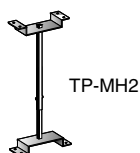
● This may cause overheating of the projector.

● Do not obstruct the slots and openings of the projector. This may cause overheating and create a fire hazard.

● The projector is manufactured using high-precision technology. You may, however, see tiny black points and/or bright points (red, blue, or green) that continuously appear on the projector Screen. This is a normal result of the manufacturing process and does not indicate a malfunction.

● This product should be used adequate length bolt(within 5mm) when installing it.

● When applying a ceiling installer, use only the fixing bolt and ceiling installer for projector. Contact your dealer for purchase or installation.

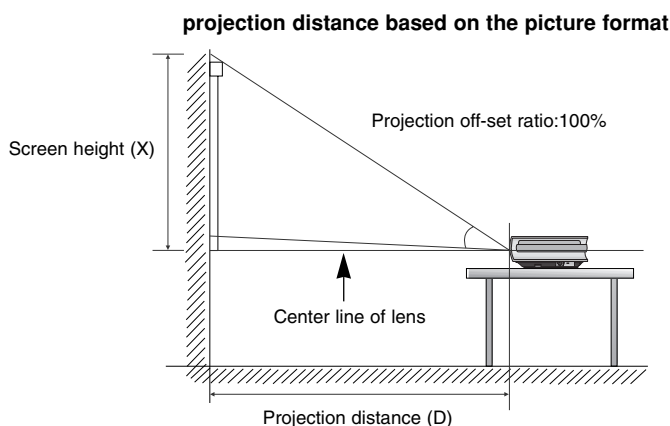


● To display DTV programs, it is necessary to connect a DTV receiver (Set-top Box) and connect it to the projector.

● If there is no input signal, the Menu will not be displayed on screen.

Basic Operation of the Projector

1. Place the projector on a sturdy and horizontal surface with the PC or AV source.
2. Place the projector the correct distance from the screen. The distance between the projector and the screen determines the actual size of the image.
3. Position the projector so that the lens is set at a right angle to the screen. If the projector is not set at a right angle, the screen image will be crooked. If this is so then the keystone adjustment may correct this (Refer to page 22.)
4. Connect the cables of the projector to a wall power socket and other connected sources.



RD-JT91

		4:3 picture format								mm / inches
screen size		40"	60"	80"	90"	100"	110"	120"	150"	200"
screen height (X)		610/24.0	914/36.0	1219/48.0	1372/54.0	1524/60.0	1676/66.0	1829/72.0	2286/90.0	3048/120.0
The shortest distance (D)		1400/55.1	2100/82.7	2800/110.2	3150/124.0	3500/137.8	3850/151.6	4200/165.4	5250/206.7	7000/275.6
The longest distance (D)		1680/66.1	2520/99.2	3360/132.3	3780/148.8	4200/165.4	4620/181.9	5040/198.4	6300/248.0	8400/330.7

* The longest/shortest distance show status when adjusted by the zoom function.

		16:9 picture format								mm / inches
screen size		40"	60"	80"	90"	100"	110"	120"	150"	200"
screen height (X)		498/19.6	747/29.4	996/39.2	1121/44.1	1245/49.0	1370/53.9	1494/58.8	1868/73.5	2491/98.1
The shortest distance (D)		1525/60.0	2288/90.1	3051/120.1	3432/135.1	3813/150.1	4194/165.1	4576/180.2	5720/225.2	7626/300.2
The longest distance (D)		1830/72.0	2745/108.1	3661/144.1	4118/162.1	4576/180.2	5033/198.1	5491/216.2	6864/270.2	9152/360.3

RD-JT92

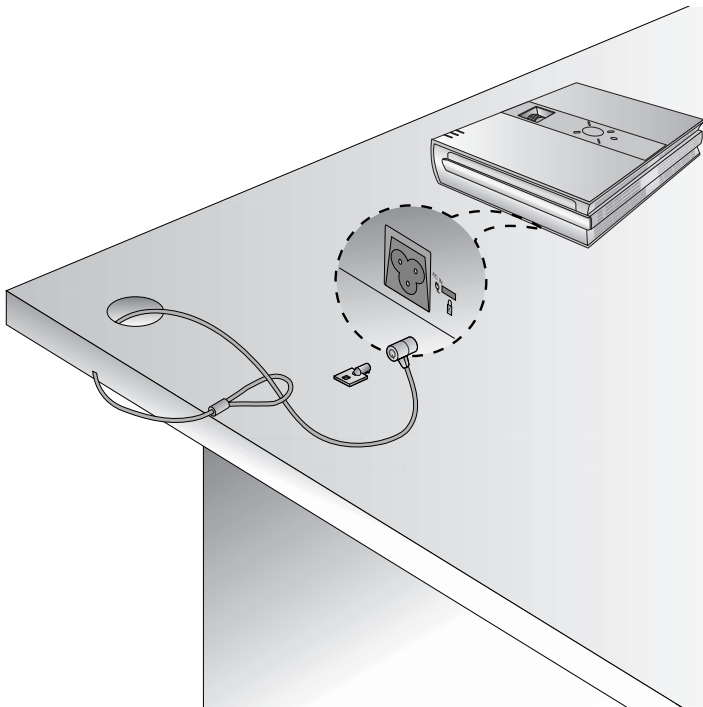
		16:9 picture format								mm / inches
screen size		40"	60"	80"	90"	100"	110"	120"	150"	200"
screen height (X)		498/19.6	747/29.4	996/39.2	1121/44.1	1245/49.0	1370/53.9	1494/58.8	1868/73.5	2490/98.0
The shortest distance (D)		1450/57.1	2190/86.2	2920/115	3290/129.5	3660/144.1	4030/158.7	4390/172.8	5500/216.5	7340/289
The longest distance (D)		1740/68.5	2620/103.1	3510/138.2	3950/155.5	4390/172.8	4830/190.2	5270/207.5	6600/259.8	8800/346.5

* The longest/shortest distance show status when adjusted by the zoom function.

		4:3 picture format								mm / inches
screen size		40"	60"	80"	90"	100"	110"	120"	150"	200"
screen height (X)		610/24.0	914/36.0	1219/48.0	1372/54.0	1524/60.0	1676/66.0	1829/72.0	2286/90.0	3048/120.0
The shortest distance (D)		1780/70.1	2680/105.5	3580/140.9	4030/158.7	4480/176.4	4931/194.1	5380/211.8	6730/265	8980/353.5
The longest distance (D)		2140/84.3	3220/126.8	4300/169.3	4840/190.6	5380/211.8	5920/233.1	6460/254.3	8080/318.1	10780/424.4

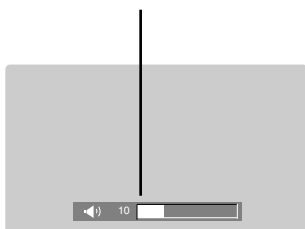
Using Kensington Security System

- The projector has a 'Kensington' Security System Connector on the back panel. Connect the 'Kensington' Security system cable as below.
- For the detailed installation and use of the Kensington Security System, refer to the user's guide attached to the Kensington Security System set.
And for further information, contact <http://www.kensington.com>, the internet homepage of the Kensington company that deals with expensive electronic equipments such as notebook PCs or projectors.
- Kensington Security System is an optional item.



Turning on the Projector

1. Connect power cord correctly.
2. Remove the lens cover of the projector.
3. Press the **POWER** button on the remote control or top cover.
(Green operation indicator flashes during cooling of the lamp.)
 - It will take about 5 second to display the picture after power on because the projector lamp has to warm up.
 - An image will appear after the operation indicator light turns (Green).
 - Select the source mode with the SOURCE button.
 - Leave the projector plugged in for at least 2 minutes after switching off the projector, as this will allow the lamp cooling to continue which will help to preserve the lamp life.
4. Adjust volume level.
 - If you press **VOLUME** ► button, sound and volume level number are increased.
 - If you press **VOLUME** ◀ button, sound and volume level number are decreased.

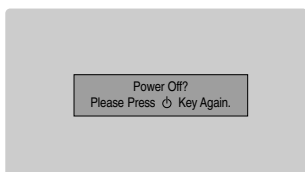


Note!

* Don't unplug the power cord while the ventilation fan (inlet/outlet) is working. If so, you take longer time by lamp on.

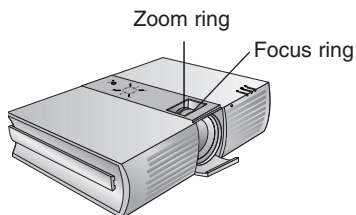
Turning off the Projector

1. Press the **POWER** button on the top cover or remote control.
2. Press the **POWER** button on the top cover or remote control again to cut off the power.
3. If the operation indicator LED is orange and blinking, do not disconnect the mains supply until the operation indicator LED is lit up constantly (orange).
 - If the operation indicator LED is orange and blinking, the power button on the top cover or on the remote control will not operate.



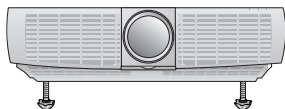
Focus and Position of the Screen Image

When an image appears on the screen, check if it is in focus and fits well to the screen.



- To adjust the focus of the image, rotate the focus ring which is the outer ring on the lens.
- To adjust the size of the image, rotate the zoom ring which is the inner ring on the lens.

To raise or lower the image on the screen, extend or retract the foot at the bottom of the projector by pushing foot adjuster button as below.



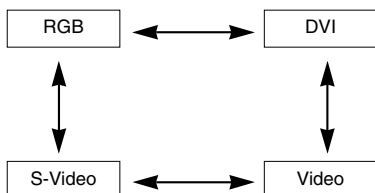
1. While pressing the foot adjuster button, raise or lower the projector to place the screen image in the proper position.
2. Release the button to lock the foot in its new position.
3. To fine-tune the height of the projector, rotate the front foot to raise or lower it.
After raising the front foot, do not press down on the projector.

Selecting source mode

1. Press the **SOURCE** button.



2. Each press of the ◀, ▶ button changes the display as below.



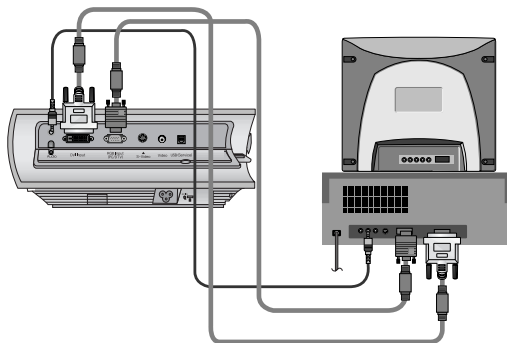
Connection

Connecting to a Desktop PC

- * You can connect the projector to a computer of VGA, SVGA, XGA and SXGA output.
- * You can use ARC function for the RGB signals of the Aspect Ratio 4:3. (For HD wide input signals, you cannot use ARC function.)
- * Fundamentally, HD wide input signal is not included in the Spec, so the set may not support HD signal perfectly.
- * Refer to page 25 for the supported pc graphic card displays of the projector.

< How to connect >

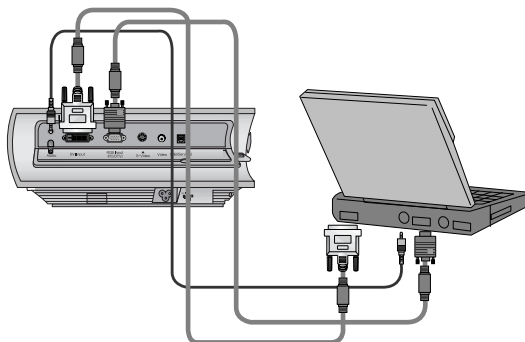
- a. Connect computer cable to **RGB Input (PC/DTV)** of the projector.
- b. If the PC has DVI output, connect DVI cable to **DVI Input** of the projector.
- c. Connect the audio cable of PC (LINE OUT sound port) to **Audio** of the projector.
 - * If the PC has two audio out ports of SPEAKER OUT and LINE OUT, connect the LINE OUT port to get better sound quality.



Connecting to a Notebook PC

< How to connect >

- a. Connect computer cable to **RGB Input (PC/DTV)** of the projector.
 - * If you set your computer, such as a notebook type IBM PC/AT compatible, to output the signal to both the display of your computer and the external monitor, the picture of the external monitor may not appear properly. In such cases, set the output mode of your computer to output the signal only to the external monitor. For details, refer to the operating instructions supplied with your computer.
- b. If the PC has DVI output, connect DVI cable to **DVI Input** of the projector.
- c. Connect the audio cable of PC (LINE OUT sound port) to **Audio** input of the projector.



Connecting to a Video Source

* You can connect a VTR, a camcorder, a LDP or any other compatible video image source to the projector.

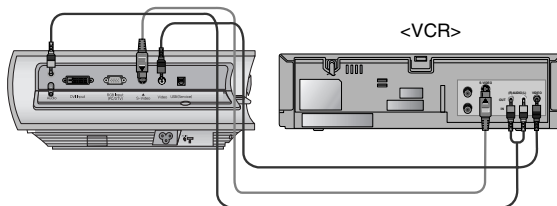
< How to connect 1 >

- a. Connect the Audio and Video input jacks of the projector to the output jacks of the A/V source with RCA to PC Audio cable, Video cable.

< How to connect 2 >

- b. Connect the S-Video input jack of the projector to the S-Video output jack of an A/V source with an S-Video cable. Connect the Audio input jacks of the projector to the output jacks of the A/V source with an RCA to PC Audio cable.

* You can get better picture quality when connecting S-Video source to the projector.

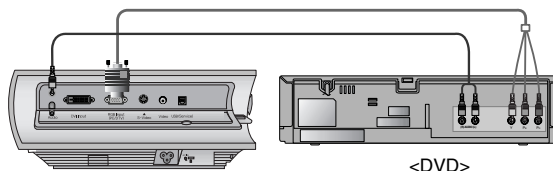


Connecting to a DVD

* The output jacks (Y, Pb, Pr) of the DVD might be labelled as Y, Pb, Pr / Y, B-Y, R-Y / Y, Cb, Cr according to the equipment.

< How to connect >

- a. Connect RCA to D-Sub Cable to **RGB Input (PC/DTV)** of the projector.
 - * When connecting the DVD, match the jack colors with the DVD. (Y=green, Pb=blue, Pr=red)
- b. Connect the **Audio** port of the projector to the Audio output port (R, L) of the DVD.
- c. Use a DVD with Component 480i(576i)/480p(576p) mode.



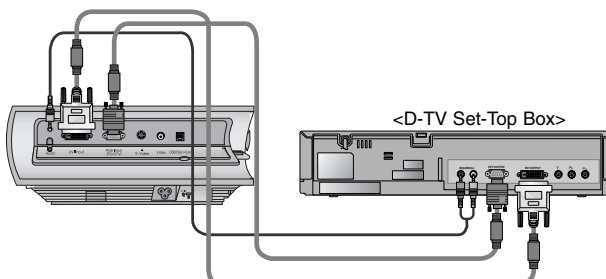
Connecting to a D-TV Set-Top Box

* **To receive D-TV programmes, it is necessary to purchase a D-TV receiver (Set-Top Box) and connect it to the projector.**

* **Please refer to the owner's manual of the D-TV Set-Top Box for the connection between projector and D-TV Set-Top Box.**

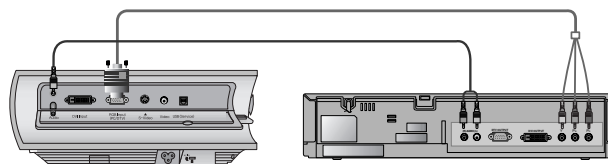
< How to connect an RGB source >

- a. Connect computer cable to **RGB Input (PC/DTV)** of the projector.
 - * If the Set-Top Box has DVI output, use DVI cable.
- b. Connect the **Audio** port of the projector to the Audio output port (R, L) of the D-TV Set-Top Box.
- c. Use a DTV receiver with DTV 480p(576p)/720p/1080i mode.
 - * It can be supported the DVI/HDCP.



< How to connect a Component source >

- a. Connect RCA to D-Sub Cable to **RGB Input (PC/DTV)** of the projector.
 - * When connecting the D-TV Set-Top Box, match the jack colors with the D-TV Set-Top Box. (Y=green, Pb=blue, Pr=red)
- b. Connect the **Audio** port of the projector to the Audio output port (R, L) of the D-TV Set-Top Box.
- c. Use a DTV receiver with DTV 480p(576p)/720p/1080i mode.



Function




* In this manual, the OSD(On Screen Display) may be different from your Projector's because it is just example to help with the Projector operation.

* If there is no input signal present, the Menu will not be displayed on the screen.

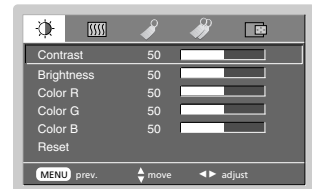
* This operating guide explains operation of RGB(PC) mode mainly.

Video Menu Options

Adjusting Video

1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
2. Press the **OK** (■) button and then use ▲, ▼ button to select a video item you want to adjust.
3. Press the ◀, ▶ button to adjust the screen condition as you want.
 - Each adjustment of  menu options will not affect other input source. As required, re-adjust  menu options for the following input source : Video/S-Video/Component (480i(576i)), Component (480p(576p), 720p, 1080i)
 - To restore the original image condition after changing it, press **OK** (■) button after selecting [**Reset**] item.
 - In the broadcasting system NTSC, the picture item **Tint** is displayed and can be adjusted.
 - To exit the menu display, repeatedly, press the **MENU** button.

< RGB mode >




< Video mode >

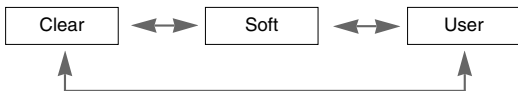


APC (Auto Picture Control)

* Use APC to set the projector for the best picture appearance.

* This function will not work in RGB mode.


1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
2. Press the **OK** (■) button and then use ▲, ▼ button to select **APC** item.
3. Press the ◀, ▶ button to adjust the screen condition as you want.
 - Each press of the ◀, ▶ button changes the screen as shown below.



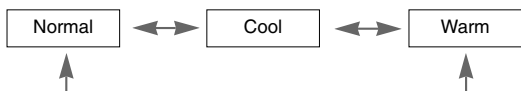
- To exit the menu display, repeatedly, press the **MENU** button.

Video Menu Options

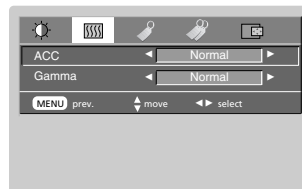
Auto Color Temperature Control

1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
2. Press the **OK** (■) button and then use ▲, ▼ button to select **ACC** item.
3. Press the ◀, ▶ button to make appropriate adjustments.


- Each press of the ◀, ▶ button changes the screen as shown below.



- To exit the menu display, repeatedly, press the **MENU** button.



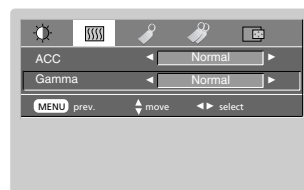
Gamma Function

1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
2. Press the **OK** (■) button and then use ▲, ▼ button to select **Gamma** item.
3. Press the ◀, ▶ button to adjust the screen condition as you want.

- Each press of the ◀, ▶ button changes the screen as shown below.




- To exit the menu display, repeatedly, press the **MENU** button.



Special Menu Options


Selecting language

1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
2. Press the **OK** (■) button and then use ▲, ▼ button to select **Language** item.
3. Press the ◀, ▶ button to select the language you want to use.
 - On-Screen-Display (OSD) is marked in the selected language from this point.
 - To exit the menu display, repeatedly, press the **MENU** button.



Flip Horizontal Function


* This function reverses the projected image horizontally. Use this function when rear projecting an image.

1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
2. Press the **OK** (■) button and then use ▲, ▼ button to select **Flip Horizontal** item.
3. Press the **OK** (■) button to see reversed image.
 - Each time you press the button, the image will be reversed.
 - To exit the menu display, repeatedly, press the **MENU** button..



Flip Vertical Function

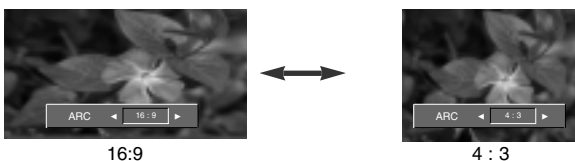
* This function reverses the projected image vertically.
 * When you hang the projector upside down from the ceiling, you will need to reverse the image vertically and horizontally.

1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
2. Press the **OK** (■) button and then use ▲, ▼ button to select **Flip Vertical** item.
3. Press the **OK** (■) button to see reversed image.
 - Each time you press the button, the image will be reversed.
 - To exit the menu display, repeatedly, press the **MENU** button.



Using ARC Function

1. Press the **ARC** button.
 Each press of the button changes the display as below.



Note!

You can also use this function by using the **MENU** button.

Special Menu Options

Using Keystone function

* Use this function when the screen is not at a right angle to the projector and the image is a trapezoid shape.

* Only use the **Keystone** function when you can't get the best angle of projection, because it may cause a blazing fire of the screen.


1. Press the **KEYSTONE +** or **KEYSTONE -** button.
2. Press the **KEYSTONE +** or **KEYSTONE -** button to adjust the screen condition as you want.

- **Keystone** are adjusted from -50 to +50.
- You can also use this function by using the **MENU** button.

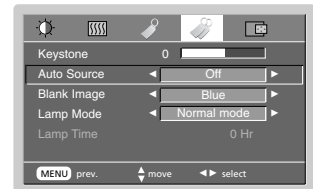


Auto Source Function

* Automatically detects the projector input signal.

1. Press the **MENU** button and then use **◀, ▶** button to select the  menu.
2. Press the **OK (■)** button and then use **▲, ▼** button to select **Auto Source** item.
3. Press the **◀, ▶** button to select **On** or **Off**.

- To exit the menu display, repeatedly, press the **MENU** button.



Using Blank function


* This function may be effective if you need to get attention of the audience during presentations, meetings or briefings.

1. Press the **BLANK** button.
 - The screen turns off to a background color and sound also turns off.
 - You can choose the background color.
(Refer to 'Selecting blank image color')

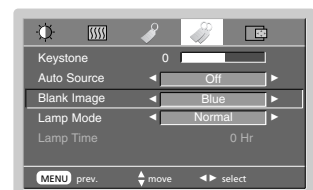


2. Press any button to cancel the blank function.
 - On exiting the blank status sound is also restored.


Selecting Blank Image color

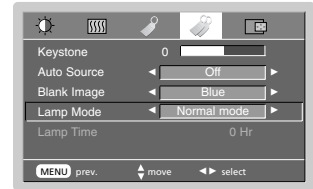
1. Press the **MENU** button and then use **◀, ▶** button to select the  menu.
2. Press the **OK (■)** button and then use **▲, ▼** button to select **Blank Image** item.
3. Press the **◀, ▶** button to select the color you want to use.

- Background color will be changed to the selected Blank function color from this point.
- To exit the menu display, repeatedly, press the **MENU** button.




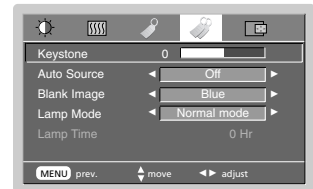
Lamp Mode Function

1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
2. Press the **OK** (■) button and then use ▲, ▼ button to select **Lamp Mode** item.
3. Press the ◀, ▶ button to select **Normal mode** or **Silent mode**.
 - To exit the menu display, repeatedly, press the **MENU** button.



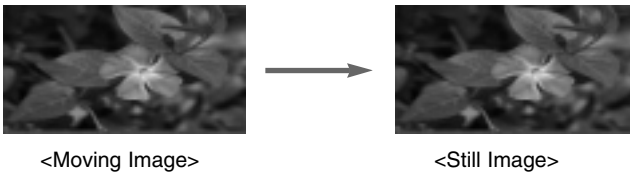
Checking lamp time

1. Press the **MENU** button and then use ◀, ▶ button to select the  menu.
 - The used lamp time is displayed.
 - When projector lamp is reaching the end of its life (over 2000 hours), the lamp indicator will be turned red.
 - The lamp warning LED illuminates red continuously in the case of excessive lamp time.



Using Still function

1. Press the **STILL** button.
- * You can freeze the input image.



2. To exit Pause, press any button .


* The STILL function would release automatically after about 10 minutes.

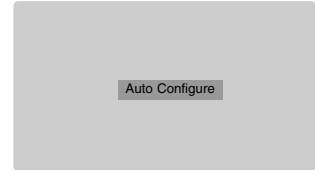
Screen Menu Options

Auto Tracking Function

*This function assures you of getting the best video quality by automatically adjusting the difference of horizontal size and synchronization of the image.

*Auto Tracking function works in RGB input only.

1. Press the **AUTO** button.
 - Image positioning and synchronization are automatically adjusted.
2. Adjust **Clock** or **Phase** in  menu after operation of **Auto Configure** if you want to get better picture quality in accordance with diverse RGB input modes. In certain circumstances, you can't get the best picture quality only with auto-correction.



Note!

You can also use this function by using the MENU button. (Only in RGB mode)

For best results, perform this function while displaying a still image.

Clock / Phase Function



* Clock Function

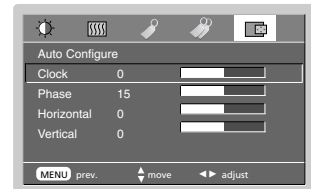
This function adjusts the horizontal width of the projected image to get the image to fit on the screen size.

* Phase Function

This function is for the detailed adjustment of the clock function.



* It's available to adjust [Clock], [Phase] in RGB mode only.

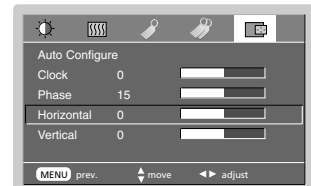
1. Press the **MENU** button and then use **◀, ▶** button to select the  menu.
2. Press the **OK** () button and then use **▲, ▼** button to select **Clock** or **Phase** item.
3. Press the **◀, ▶** button to adjust the screen condition.
 - To exit the menu display, repeatedly, press the **MENU** button.



Screen Position

*If the image size does not fit the screen in accordance with the input source, set the position of the image by selecting Horizontal / Vertical position. (For RGB)

1. Press the **MENU** button and then use **◀, ▶** button to select the  menu.
2. Press the **OK** () button and then use **▲, ▼** button to select **Horizontal** or **Vertical** item.
3. Press the **◀, ▶** button to adjust the screen condition as you want.
 - **Horizontal, Vertical** are adjusted from -50 to +50.
 - Based on the input mode, the adjustment range may be changed.
 - To exit the menu display, repeatedly, press the **MENU** button.



Supported Monitor Display

- * The projector displays the best image quality at a resolution of 800x600 pixels.
To display other resolution images, the projector compresses or expands it to 800x600.
The following table lists the display formats supported by the projector.

Sources	Format	Vertical Freq.(Hz)	Horizontal Freq. (kHz)
VGAEGA	640X350	70.090Hz	31.468kHz
	640X350	85.080Hz	37.861kHz
PC98 / VGA text	640X400	70.090Hz	31.468kHz
	640X400	85.080Hz	37.861kHz
	720X400	70.082Hz	31.469kHz
	720X400	85.039Hz	37.927kHz
VGA	640X480	59.940Hz	31.469kHz
	640X480	66.667Hz	35.00kHz
	640X480	72.800Hz	37.861kHz
	640X480	75.00Hz	37.500kHz
	640X480	85.008Hz	43.269kHz
SVGA	800X600	56.250Hz	35.156kHz
	800X600	60.317Hz	37.879kHz
	800X600	72.188Hz	48.077kHz
	800X600	75.00Hz	46.875kHz
	800X600	85.061Hz	53.674kHz
XGA	1024X768	60.004Hz	48.363kHz
	1024X768	70.069Hz	56.476kHz
	1024X768	75.029Hz	60.023kHz
	1024X768	84.99Hz	68.677kHz
SXGA	1152X864	60.053Hz	54.348kHz
	1152X864	70.01Hz	63.995kHz
	1152X864	75.00Hz	67.500kHz
	1280X960	60.00Hz	60.00kHz
	1280X1024	60.020Hz	63.981kHz

- * If the projector does not support the input signal, "Out of Range" message appears on the screen.
* The projector supports DDC1/2B type as Plug & Play function. (Auto recognition of PC monitor)
* The Synchronization input form for horizontal and vertical frequencies are Separate, Composite and SOG.
* According to PC, the optimum vertical frequency may not be displayed up to the optimum frequency of set in 'Registration information (Display registration information)'. (ex, The optimum vertical frequency may be displayed up to 75Hz or under in the resolution of 640X480 or 800X600.)

<DVD/DTV Input>

Signal	Component-*1	RGB(DTV)-*2
NTSC(60Hz)	480i	O
	480p	O
	720p	O
	1080i	O
PAL(50Hz)	576i	X
	576p	O
	1080i	O

- * Cable type
1- RCA to D-Sub Cable
2- Computer Cable

Maintenance

* The projector needs little maintenance. You should keep the lens clean because any dirt or stains may appear on the screen. If any parts need to be replaced, contact your dealer. When cleaning any part of the projector, always turn the power off and unplug the projector first.

Cleaning the lens

Clean the lens whenever you notice dirt or dust on the surface of it. Wipe the lens surface gently with an air spray or a soft, dry lint-free cloth.

To remove dirt or stains on the lens, moisten a soft cloth with water and a neutral detergent and wipe the lens surface gently.

Cleaning the Projector Case

To clean the projector case, first unplug the power cable. To remove dirt or dust, wipe the casing with a soft, dry, lint-free cloth. To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent and then wipe the casing.

Do not use alcohol, benzene, thinners or other chemical detergents as these can cause the casing to be warped or discolored.

Specifications

MODEL	RD-JT91	RD-JT92
resolution	800(Horizontal) x 600(Vertical)pixel	854(Horizontal) x 480(Vertical)pixel
horizontal / vertical ratio	4:3(horizontal:vertical)	16:9(horizontal:vertical)
DLP panel size	0.55 inches	
screen size	1.01~5.08m(40~200 inches)	
remote control distance	12m	
speaker system	1W(mono)	
zoom ratio	1:1.2	
Video compatibility	NTSC/PAL/SECAM/NTSC4.43/PAL-M/PAL-N	
Power	AC 100 - 240V~50/60Hz, 3A-1A, 260W	
height(mm/inches)	100.7/3.9	
breadth(mm/inches)	330/12.9	
length(mm/inches)	220.1/8.7	

Operating Condition

temperature

In operation : 32~104°F(0°C~40°C)
In storage and transit : -4~140°F(-20°C~60°C)

humidity

In operation : 0~ 80% relative humidity by dry hygrometer
Not in operation : 0 ~ 90% relative humidity by dry hygrometer

Projector Lamp

lamp model

AJ-LT91

lamp power consumption

200W

LAMP Replacement

⚠ WARNING : Lamp is no user replaceable part. Do not touch and open the lamp replace cover of bottom enclosure. It could cause injury and electric shock due to high temperature and voltage. Only service personnel can replace lamp after minimum 3 min. from disconnect mains plug to avoid injury cause by high temperature of lamp.
* Applicable Lamp: Manufactured by USHIO Inc., type NSH200LG

P/NO : 3828VA0482B (373-026H)

