



**APPENDIX G**  
**: USER'S MANUAL**



**LG**

Life's Good

# OWNER'S MANUAL LCOS PROJECTOR

Please read this manual carefully before operating your set and retain it for future reference.

CF3D

# LCOS PROJECTOR

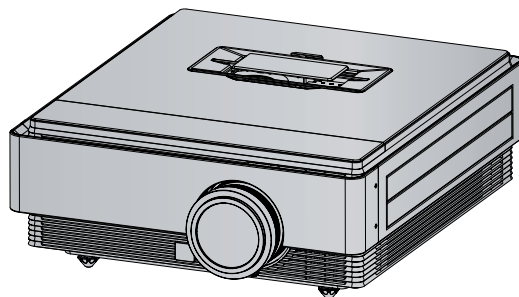


## Warning - Class B

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

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

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



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**Disposal of your old appliance**



1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream through designated collection facilities appointed by your government or your local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.
5. The fluorescent lamp used in this product contains a small amount of mercury. Do not dispose of this product with general household waste. Disposal of this product must be carried out in accordance to the regulations of your local authority.

# 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 injuries or damage to the projector.

- After reading this manual, keep it in the place that you can access easily.

## Indoor Installation

## WARNING

Do not place the Projector in direct sunlight or near heat sources such as radiators, fires, stove etc.

This may cause a fire hazard!

Do not place flammable materials in, on or near the projector.

This may cause a fire hazard!

Do not hang on the installed projector.

It may cause the projector to fall, causing injury or death.

Do not block the vents of the projector or restrict air-flow in any way.

This would cause the internal temperature to increase and could cause a fire hazard or damage to the unit!

Do not place the projector close to sources of steam or oil such as a humidifier.

This may create a fire hazard or an electric shock hazard!

Do not place the projector where it might be exposed to dust.

This may cause a fire hazard or damage to the unit!

Do not use the projector in a damp place such as a bathroom where it is likely to get wet.

This may cause a fire or an electric shock hazard!

Do not place the projector directly on a carpet, rug or place where ventilation is restricted.

This would cause its internal temperature to increase and might create a fire hazard or damage the unit.

Ensure good ventilation around the projector. The distance between the projector and the wall should be more than 30 cm.

An excessive increase in its internal temperature may cause a fire hazard or damage to the unit!

## Indoor Installation

## NOTES

When installing the projector on a table, be careful not to place it near the edge.

The projector could fall causing injury and damage to the projector.

**Only use a suitable stand.**

Disconnect from the power supply and remove all connections before moving, or cleaning.

Only use the projector on a level and stable surface.

It may fall and cause injury and/or damage to the unit.

## Power

## WARNING

Earth wire should be connected.

Ensure that you connect the earth ground wire to prevent possible electric shock (That is a Projector with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet). If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightning rods, or gas pipes.

The power cord should be inserted fully into the power outlet to avoid a fire hazard!


This may cause a fire hazard or damage the unit.

Do not place heavy objects on the power cord.

This may cause a fire or an electric shock hazard!

**Power**  **WARNING**

Never touch the power plug with a wet hand.  This may cause an electric shock hazard!	Do not plug-in too many items into one power outlet.  It may result in overheating of the outlet and create a fire hazard!	Prevent dust from collecting on the power plug pins or outlet.  This may cause a fire hazard!
---	--	---

**Power**  **NOTES**

Hold the plug firmly when unplugging. If you pull the cord, it may be damaged.  This may cause a fire hazard!	Do not use if the power cord or the plug is damaged or any part of the power outlet is loose.  This may cause a fire or an electric shock hazard or damage to the unit!	Ensure the power cord does not come into contact with sharp or hot objects.  This may cause a fire or an electric shock hazard or damage to the unit!
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Place the projector where people will not trip or tread on the power cord.  This may cause a fire or an electric shock hazard or damage to the unit!	Do not turn the projector On/Off by plugging-in or unplugging the power plug to the wall outlet. (Allow the unit to cool before removing power.)  It may cause mechanical failure or could cause 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 or damage to the unit!	In case of impact shock or damage to the projector switch it off and unplug it from the power outlet and contact an authorized service center.  This may cause a fire or an electric shock hazard or damage to the unit!	Do not allow any objects to fall into the projector.  This may cause an electric shock hazard or damage to the unit!
---	--	--


If water is spilt into the projector unplug it from the power supply immediately and consult your Service Agent.  This may cause an electric shock hazard or damage to the unit!	Dispose of used batteries carefully and safely.  In the case of a battery being swallowed by a child please consult a doctor immediately.
--	---


Do not remove any covers. High risk of Electric Shock!	Don't look directly into 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 will remain very hot!
--	---	---


**CAUTION concerning the Power Cord**  
It is recommend that most appliances be placed on a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.


Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by authorized service personnel.


Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.


<b>Using</b>	 <b>WARNING</b>	
<p>If the projector is in a room that experiences a gas leak, do not touch the projector.</p> <p>It can cause a fire or a burn by a spark.</p>	<p>Always open the lens door or remove the lens cap when the projector lamp is on.</p>	

<b>Using</b>	 <b>NOTES</b>	
<p>Do not place heavy objects on top of projector.</p> <p>This may cause mechanical failure or personal injury!</p>	<p>Take care not to impact the lens particularly when moving the projector.</p>	<p>Do not touch the lens of the projector. It is delicate and easily damaged.</p>
<p>Do not use any sharp tools on the projector as this will damage the casing.</p>	<p>In the event that an image does not appear on the screen please switch it off and unplug it from the power outlet and contact your Service Agent.</p> <p>This may cause a fire or an electric shock hazard or damage to the unit!</p>	<p>Do not drop the projector or allow impact shock.</p> <p>This may cause mechanical failure or personal injury!</p>

<b>Cleaning</b>	 <b>WARNING</b>	
<p>Do not use water while cleaning the projector.</p> <p>This may cause damage to the projector or an electric shock hazard.</p>	<p>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 center.</p> <p>This may cause a fire or an electric shock hazard or damage to the unit!</p>	<p>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.</p>

<b>Cleaning</b>	 <b>NOTES</b>	
<p>Contact the Service Center once a year to clean the internal parts of the projector.</p> <p>Accumulated dust can cause mechanical failure.</p>	<p>When cleaning the plastic parts such as projector case, unplug the power and wipe it with a soft cloth. Do not use cleanser, spray water or wipe with a wet cloth. Especially, never use cleanser (glass cleaner), automobile or industrial shiner, abrasive or wax, benzene, alcohol etc., which can damage the product. 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.</p> <p>It can cause fire, electric shock or product damage (deformation, corrosion and damage).</p>	

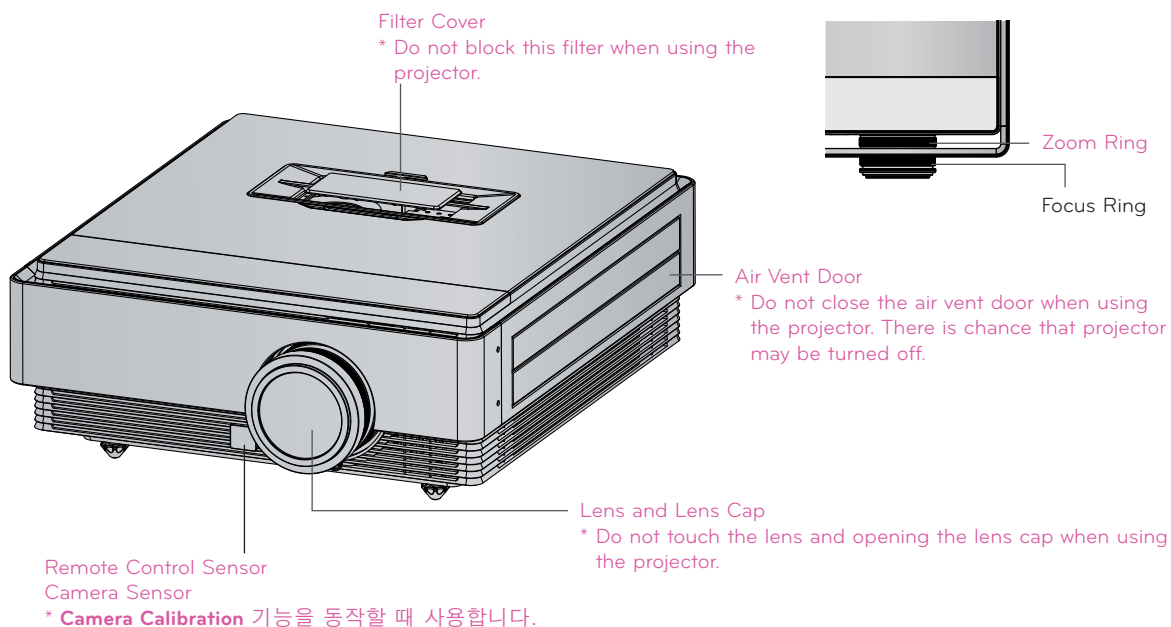
<b>Others</b>	 <b>WARNING</b>	
<p>Do not attempt to service the projector yourself. Contact your dealer or service center.</p> <p>This may cause damage to the projector and could give an electric Shock as well as invalidating the warranty!</p>		

<b>Others</b>	 <b>NOTES</b>	
<p>Do not mix new batteries with old batteries.</p> <p>This may cause the batteries to over-heat and leak.</p>	<p>Be sure to unplug if the projector is not to be used for a long period.</p> <p>Accumulated dust may cause a fire hazard or damage to the unit!</p>	<p>Only use the specified type of battery.</p> <p>This could cause damage to the remote control.</p>

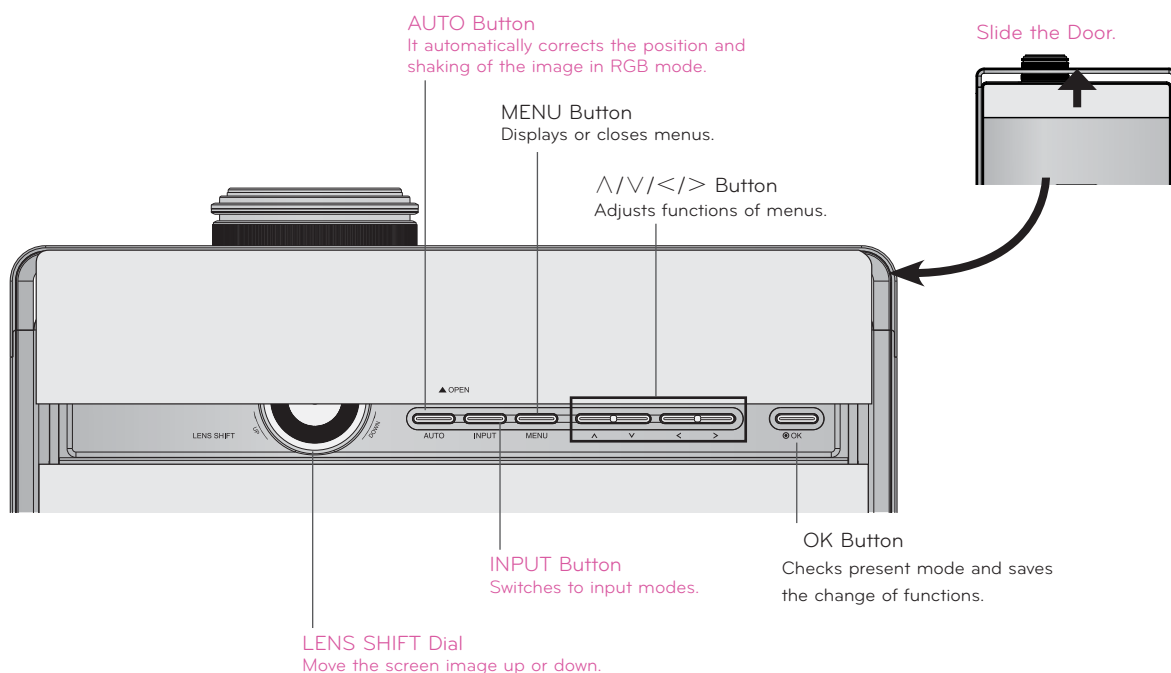
## Names of parts

### 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.

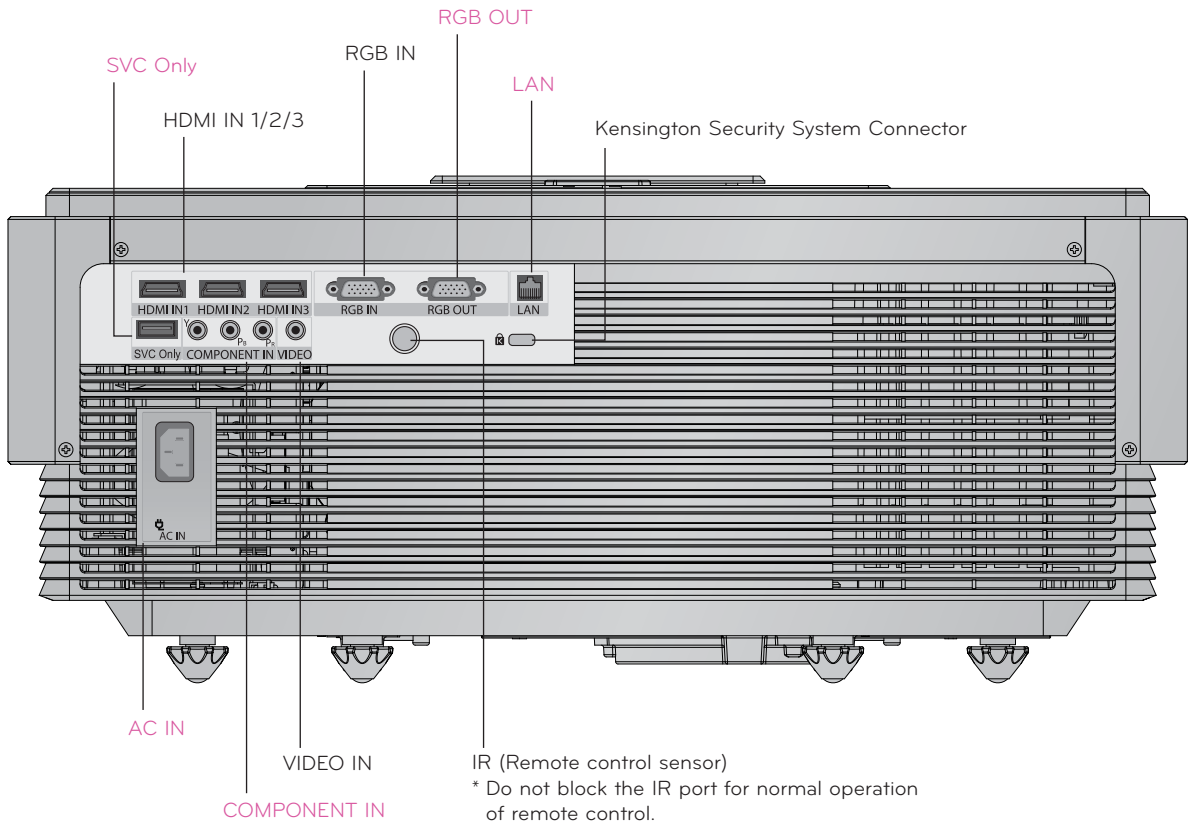


### Control Panel



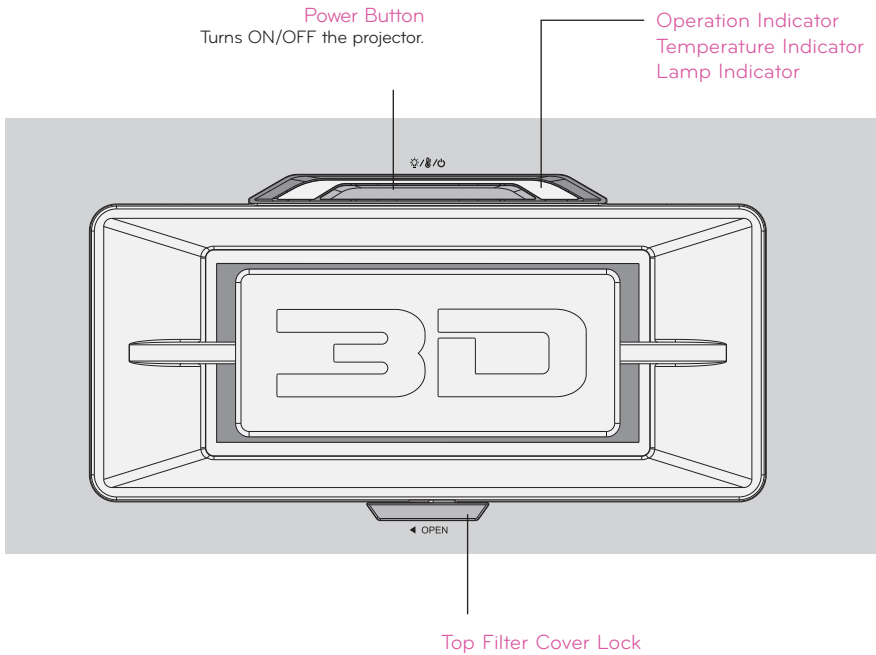


Connecting Part



### 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	Blue	Standby.
	Green (Blinking)	Power on.
	Green	Using the Projector.
	Cyan (Blinking)	Power off (lamp is cooling for 90 seconds).
Temperature	Red (Blinking)	An error has occurred in the internal cooling fan.
	Yellow	High temperature warning.
	Yellow (Blinking)	Turned off due to excessive heat.
Lamp	Magenta	The lamp is reaching the end of its life and needs to be replaced with a new lamp.
	Magenta (Blinking)	An error has occurred in the lamp.
	Red	The lamp cover is opened.
Air Vein Door	Cyan	An error has occurred in the air vein.
Filter	Blue (Blinking)	The filter cover is opened.

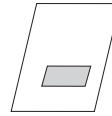
Accessories



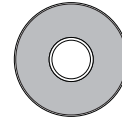
Remote Control



AAA Battery



Owner's manual



CD Owner's manual



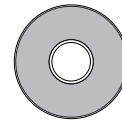
Power Cord



Polishing Cloth



3D Glasses



eZ-Net Manager CD



Top Filter



Bottom Filter

Optional Extras

\* Contact your dealer to purchase these items.

\* Optional parts can be changed without notice to improve the quality of the product, and new optional parts can be added.



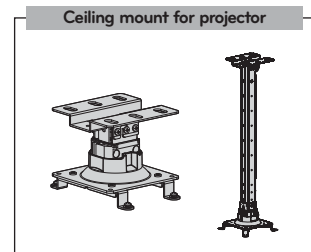
Projection Screen



Computer Cable



HDMI Cable



Video Cable



Audio Cable



Component Cable



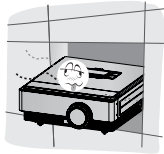
LAN Cable

# Installing and Composition

## Installation Precautions

### 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. 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 any kind of liquid into the projector.
- Leave an adequate distance (30 cm 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 to page 38)

### 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.

This 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.

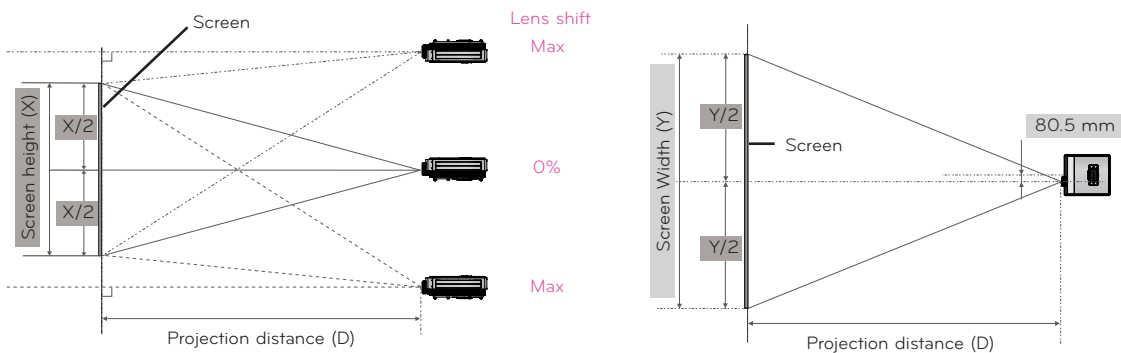
To display DTV programs, it is necessary to purchase a DTV receiver (Set-top Box) and connect it to the projector.

The remote control may not work when a lamp equipped with electronic ballast or a three-wavelength lamp is installed. Replace those lamps with international standard products to use the remote control normally.

### Positioning the Projector

1. Place the projector on a sturdy and horizontal surface with the PC or AV source.
2. Place the projector with the desired 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. Although, slight angles can be counteracted using the Keystone adjustment. (Refer to page 26.)
4. Connect the power cable to the projector and the wall outlet after placing the projector in its desired location.

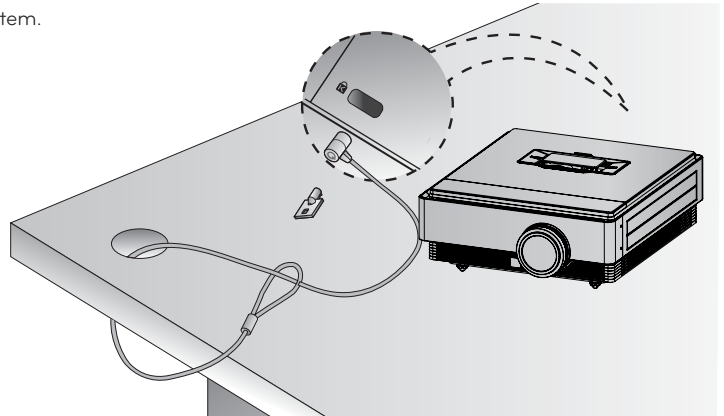
#### < Projection Distance Based on the Picture Format >



16 : 9 Scale				
Diagonal Size (mm)	Screen		Projection Distance	
	Screen Width (Y) (mm)	Screen height (X) (mm)	Minimum Projection Distance (D1) (m)	Maximum Projection Distance (D2) (m)
762	664	374	0.87	1.15
1016	886	498	1.17	1.54
1270	1107	623	1.48	1.94
1524	1328	747	1.78	2.33
1778	1550	872	2.09	2.73
2032	1771	996	2.39	3.13
2286	1992	1121	2.70	3.52
2540	2214	1245	3.00	3.92
2794	2435	1370	3.31	4.32
3048	2657	1494	3.61	4.72
3302	2878	1619	3.92	5.11
3556	3099	1743	4.22	5.51
3810	3321	1868	4.53	5.91
4064	3542	1992	4.83	6.30
4318	3763	2117	5.13	6.70
4572	3985	2241	5.44	7.10
4826	4206	2366	5.74	7.49
5080	4428	2491	6.04	7.89
5334	4649	2615	6.35	8.29
5588	4870	2740	6.66	8.68
5842	5092	2864	6.96	9.08
6096	5313	2989	7.27	9.48
6350	5535	3113	7.57	9.87
6604	5756	3238	7.88	10.27
6858	5977	3362	8.18	10.67
7112	6199	3487	8.49	11.06
7366	6420	3611	8.79	11.46
7620	6641	3736	9.10	11.86

## Kensington Security System

- This projector has a Kensington Security System Connector on the side 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 included with 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 equipment such as notebook PCs or projectors.
- The Kensington Security System is an optional item.

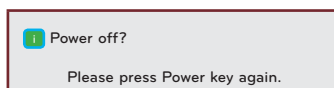


## Turning on the Projector

1. Make sure the power cord is connected correctly.
2. Press the **POWER** button. The operation indicator is blinking green.
  - 3D Projector의 특성상 Power on time이 길니다.
  - Press the **INPUT** button to select the input signal you want.
  - There will be short sound when the projector is being turned on.
  - Check if the lens cap is open before turning on the power.

## Turning off the Projector

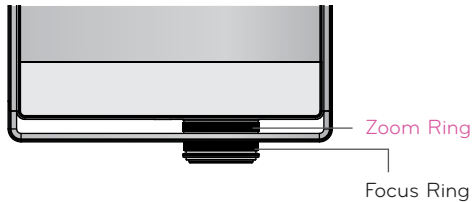
1. Press the **POWER** button.



2. Press the **POWER** button again to turn off the power. If the operation indicator is blinking cyan, in other words the fan is working (90 seconds), do not disconnect the projector. When the indicator turns blue, you may remove the power cord (Refer to page 10).

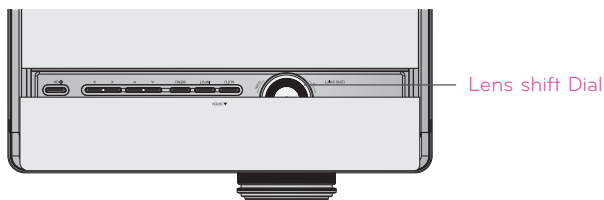
## Focus and Position of the Screen Image

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



- To adjust the focus of the image, rotate the focus ring.
- To adjust the size of the image, rotate the zoom ring.

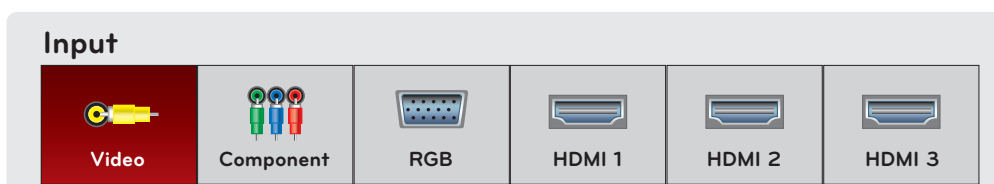
When you need to move the screen image up or down, use the zoom ring on the projector to adjust the height as shown below.



- Turn the Lens shift dial left or right to adjust the projector image up or down.
- Turning the Lens shift dial with excessive power may cause damage to the projector.

## Selecting Input Mode

1. Press the **INPUT** button.
2. Selecting an input signal with the **INPUT** button will only change the projector only to connected inputs. You can change it to any inputs with the <, > button.



- Selecting an input signal with the **VIDEO**, **COMP**, **RGB**, **HDMI1**, **HDMI2** and **HDMI3** buttons.

# Connection

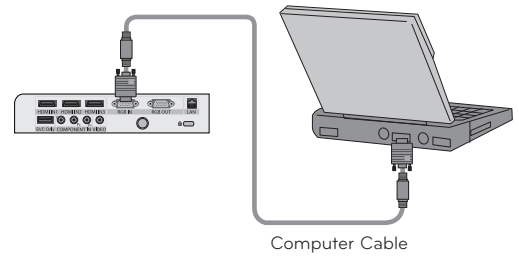
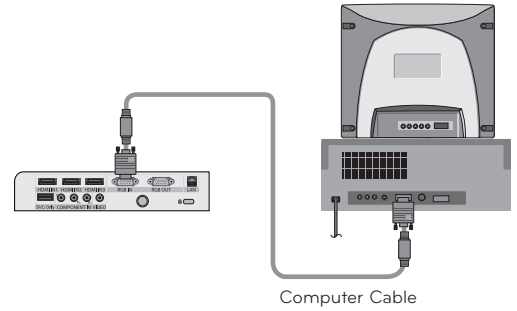
## Connecting to a Desktop PC

- \* You can connect the projector to a computer with VGA, SVGA, XGA, SXGA output.
- \* Refer to page 33 for resolutions the projector supports.

### < How to connect >

Connect the **RGB IN** of the projector and the RGB output port of the computer with a computer cable.

- \* You may have to change the resolution that your PC exports to one supported by the projector. Refer to page 33. This projector may not support output from laptops when the laptop screen is on.

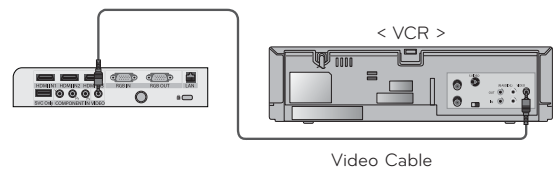


## Connecting to a Video Source

- \* You can connect a VCR, a camcorder or any other compatible video image source to the projector.

### < How to connect >

Connect the **VIDEO** of the projector to the output jack of the video source with a video cable.



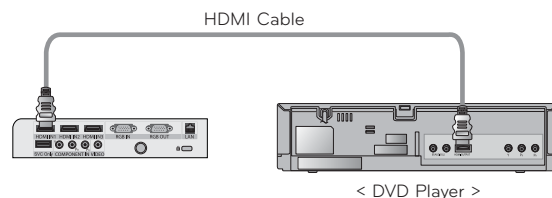


## Connecting to a DVD Player

\* Depending on the equipment, the component output jacks (Y, Pb, Pr) of the DVD Player may be labeled as Y, Pb, Pr/Y, B-Y, R-Y/Y, Cb, Cr.

### < How to connect a HDMI source >

1. Connect the **HDMI IN 1** (or **HDMI IN 2/3**) of the projector and the HDMI output port of the DVD Player with an HDMI cable.
2. Set the DVD Player's resolution to one of the following: 480p(576p)/720p/1080i/1080p mode.



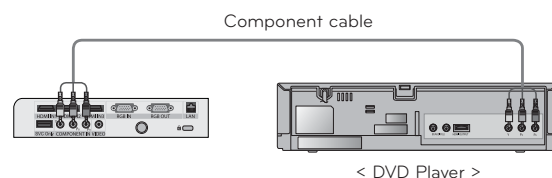
### < How to use a HDMI source >

Projector를 먼저 켜 후, HDMI 기기를 켜세요.

### < How to connect a Component source >

Connect the **COMPONENT IN** of the projector and the component output port of the DVD Player with a component cable.

\* When connecting the component cable, match the jack colors with the component cable.(Y=green, Pb=blue, Pr=red)



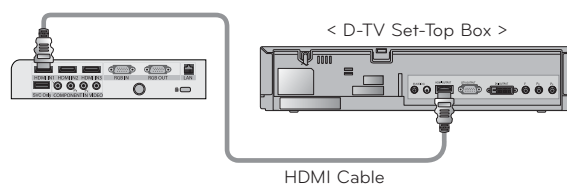
## Connecting to a D-TV Set-Top Box

\* To receive Digital TV (D-TV) programs, 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 the projector and D-TV Set-Top Box.

### < How to connect a HDMI source >

1. Connect the **HDMI IN 1** (or **HDMI IN 2/3**) of the projector and the HDMI output port of the DTV set-top box with an HDMI cable.
2. Set the DTV receiver's resolution to one of the following: 480p(576p)/720p/1080i/1080p mode.



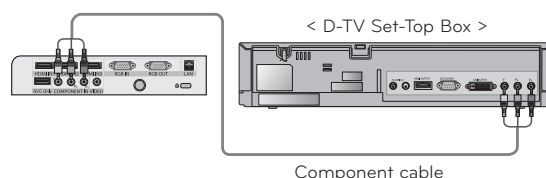
### < How to use a HDMI source >

Projector를 먼저 켜 후, HDMI 기기를 켜세요.

### < How to connect a Component source >

Connect the **COMPONENT IN** of the projector and the component output port of the D-TV Set-Top Box with a component cable.

\* When connecting the component cable, match the jack colors with the component cable.(Y=green, Pb=blue, Pr=red)



# Function

\* The On-Screen Display (OSD) in this manual may be slightly different from your projector.

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

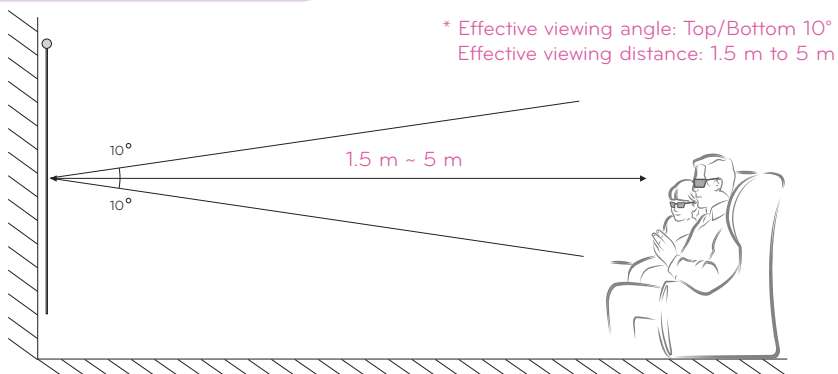
## To Use The 3D Video

\* 3D video is the technology of using the different view between the two eyes to make the screen on the screen to look as a 3D space.

### Caution When Viewing 3D Video

- ▶ When viewing 3D video, watch the projector within effective viewing angle and distance.
  - If you exceed the viewing angle or distance, you may not be able to view the 3D video.
- ▶ If you watch the 3D video too closely for a long period of time, it may hurt you eyesight.
- ▶ Watching screen with the 3D video glasses for a long period of time can cause drowsiness or fatigue to your eyes.
  - If you feel headache, fatigue or drowsiness, stop watching screen and take a rest.
- ▶ Pregnant woman, senior, person with heart problem or frequent drowsiness should refrain from watching 3D video.
  - Viewers can confuse 3D video as reality to be surprised or excited.
- ▶ When watching 3D video, do not leave any fragile or dangerous objects nearby.
  - You can confuse the 3D video as reality and suddenly move to cause an injury.
- ▶ Do not use the 3D glasses to replace the general glasses, sunglasses or protective goggles. It can cause an injury.
- ▶ Do not store the 3D glasses in hot or cold location. It can be deformed. Do not use deformed glasses.
- ▶ Because the lens (Polarized film) of 3D glasses is sensitive to scratches, always use a soft and clean cloth to wipe the product.
  - Because any alien particle on the cloth can result in scratches, be cautious.
- ▶ Do not scratch the surface of the lens (Polarized film) of 3D glasses with a sharp tool or wipe the lens with chemicals.
  - The polarized film can be scratched and the video may not look normal when viewing the 3D image.
- ▶ The lens of the 3D glasses is different from those of general glasses, and is very thin. Therefore be careful with the glasses as the lens can be popped out easily.
- ▶ Warning for photosensitization seizure: Specific image from the video game and light or specific pattern from the video can cause a seizure to some individuals. If you or anybody from your family has a history of epilepsy or seizure, please consult your doctor before watching 3D video. Also the following symptoms can occur in unspecified conditions without any previous history.
  - If you experience dizziness, visual transition, visual or facial instability, unconscious action, convulsion, loss of consciousness, confusion, loss of directional sense or nausea during or after watching the 3D video, immediately stop watching the 3D video and consult the doctor. Especially special care is required for children watching the 3D video. Risk of photosensitization seizure can be reduced with the following actions.
  - Do not watch the 3D video when sleepy, tired or sick, and avoid watching the 3D video for a long period of time.

### When Viewing 3D Video



### Note!

- Specific menus may not work while watching the 3D video.
- 3D video does not work during external input transition and editing naming of external device.
- 3D effect can be seen when 3D Mode is selected appropriately for the 3D input signal supplied to the Projector.
- HDMI/DVI-PC input does not support 3D Mode.

How to Watch 3D Video

1. Play the title produced in 3D video. Refer to the following for 3D video input format supported.

	Signal	Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	Playable 3D video format
HDMI	720p	1280x720	45.00	60	Top & Bottom, Side by Side
			37.50	50	
	1080i	1920x1080	33.75	60	
			28.125	50	
	1080p		27.00	24	Top & Bottom, Side by Side, Checker Board, Frame Sequential
			33.75	30	Top & Bottom, Side by Side, Checker Board, Frame Sequential
		67.50	60		
		56.25	50		

2. Press the **3D** button on the remote control.

3. Press the **<, >** button to selecting the shape as shown in the screen, wear the 3D glasses.



4. Press the **L/R** button, the left/right video switches. Select the screen with 3D video with better visibility.

- Press the 3D button to return to normal screen viewing.

< 3D Mode 일 때 동작가능한 리모컨 기능 >

3D Mode	Top & Bottom	Side by Side	Checker Board	Frame Sequential
Resolution	720p, 1080i, 1080p	1080p	720p	1080p
Vertical Frequency	24 Hz, 30 Hz, 50 Hz, 60 Hz	24 Hz, 30 Hz, 50 Hz, 60 Hz	50 Hz, 60 Hz	24 Hz (1080p only)
Power	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Input	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
L/R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PATTERN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
KEYS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BLANK	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
RATIO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SLEEP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MENU	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AUTO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Q.MENU	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PICTURE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
STILL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BACK	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OK	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
VIDEO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
COMP	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
RGB	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HDMI1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HDMI2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HDMI3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

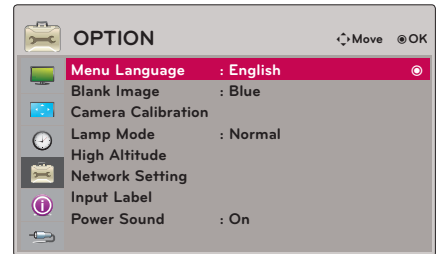
\* 입력신호, 영상설정 등에 따라 설정할 수 있는 항목이 달라집니다.

Color Temperature	<ul style="list-style-type: none"> <li>- This function enables <b>Vivid/Standard/Natural/Cinema/Sport/Game</b>.</li> <li>• Set to warm to enhance hotter colors such as red, or set to cool to make picture bluish.</li> </ul>
Noise Reduction	<ul style="list-style-type: none"> <li>• Reduces screen noise without compromising video quality.</li> </ul>
Gamma	<ul style="list-style-type: none"> <li><b>Low</b> : Make dark and middle gray level area of the picture brighter.</li> <li><b>Medium</b>: Express original picture levels.</li> <li><b>High</b>: Make dark and middle gray level area of the picture darker.</li> <li>• You can adjust brightness of dark area and middle gray level area of the picture.</li> </ul>
Black Level	<ul style="list-style-type: none"> <li><b>Low</b>: The reflection of the screen gets darker.</li> <li><b>High</b>: The reflection of the screen gets brighter.</li> <li>• Set black level of the screen to proper level.</li> <li>• <b>This function disables RGB input.</b></li> </ul>
Real Cinema	<ul style="list-style-type: none"> <li>• Makes video clips recorded in film look more natural by eliminating judder effect.</li> <li>• DVD and Blu-ray movies are filmed at 24 frames per second.</li> </ul>
TruMotion	<ul style="list-style-type: none"> <li>• Advance video technology that provides clearer, smoother images, even during fast action scenes creating a more stable structure for a crisper picture.</li> <li><b>Off</b>: Turn off TruMotion operation.</li> <li><b>Low</b>: Provides smooth picture movement. Use this setting for standard use.</li> <li><b>High</b>: Provides smoother picture movement.</li> <li>• TruMotion works with all inputs except PC mode.</li> <li>• If you enable <b>TruMotion</b>, noise may appear on the screen. If this occurs, set to <b>Off</b>.</li> <li>• If you select <b>Picture mode - Game</b> set <b>TruMotion</b> to <b>Off</b>.</li> </ul>
White Balance	<ul style="list-style-type: none"> <li>- This function enables <b>Expert 1/2</b>.</li> <li>• This is the function to adjust the overall color of the screen to the feeling you want. <ul style="list-style-type: none"> <li>a. <b>Method : 2 Points</b> <ul style="list-style-type: none"> <li>- <b>Pattern: Inner, Outer</b></li> <li>- <b>Red/Green/Blue Contrast, Red/Green/Blue Brightness</b>: The adjustment range is <b>-50 ~ +50</b>.</li> </ul> </li> <li>b. <b>Method : 20 Points IRE</b> <ul style="list-style-type: none"> <li>- <b>Pattern: Inner, Outer</b></li> <li>- <b>IRE</b> (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among <b>5, 10, 15 - 95, 100</b>. You can adjust <b>Red, Green</b> or <b>Blue</b> according to each setting.</li> <li>- <b>Red/Green/Blue</b>: The adjustment range is <b>-50 - +50</b>.</li> </ul> </li> </ul> </li> </ul>
Color Management System	<ul style="list-style-type: none"> <li>- This function enables <b>Expert 1/2</b>.</li> <li>• As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colors but can be used to selectively adjust the 6 color areas (Red/Green/Blue/Cyan/Mgt/Yellow).</li> <li>Color difference may not be distinctive even when you make the adjustments for the general video.</li> <li>Adjusts Red/Green/Blue/Yellow/Cyan, Magenta. <ul style="list-style-type: none"> <li>- <b>Red/Green/Blue/Yellow/Cyan, Magenta Color</b>: The adjustment range is <b>-30 ~ +30</b>.</li> <li>- <b>Red/Green/Blue/Yellow/Cyan, Magenta Tint</b>: The adjustment range is <b>-30 ~ +30</b>.</li> <li>- <b>This function disables RGB input.</b></li> </ul> </li> </ul>

## OPTION Menu Options

### Selecting Language

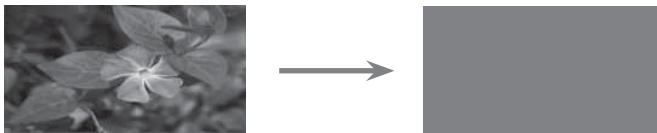
1. Press the **MENU** button. Then, move to **OPTION** with the  $\wedge$ ,  $\vee$ ,  $<$ ,  $>$  buttons and press the **OK** button.
2. Press the  $\wedge$ ,  $\vee$  buttons to move to **Menu Language** and press the **OK** button.
3. Move to a desired item with the  $\wedge$ ,  $\vee$ ,  $<$ ,  $>$  buttons and then press the **OK** button.
  - On-Screen-Display (OSD) is displayed in the selected language.
  - Press the **BACK** button to exit the menu screen.



### Using Blank Function

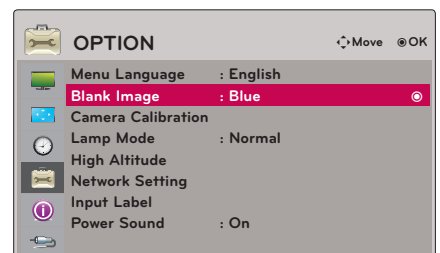
\* This function may be effective if you need to get the attention of the audience during presentations, meetings or briefings.

1. Press the **BLANK** button on the remote control.
  - The screen turns off to a background color.
  - You can choose the background color. (Refer to 'Selecting Blank image')
2. Press any button to cancel the blank function.
  - To temporarily turn off the lamp, press **BLANK** on the remote control. Do not block the projection lens with any objects when the projector is under operation as this could cause the objects to become heated and deformed or even cause a fire.



### Selecting Blank image

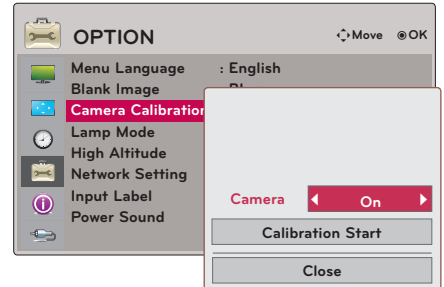
1. Press the **MENU** button. Then, move to **OPTION** with the  $\wedge$ ,  $\vee$ ,  $<$ ,  $>$  buttons and press the **OK** button.
2. Press the  $\wedge$ ,  $\vee$  buttons to move to **Blank Image** and press the **OK** button.
3. Move to a desired item with the  $\wedge$ ,  $\vee$  buttons and then press the **OK** button.
  - Background image will be altered to the selected Blank function image.
  - Press the **BACK** button to exit the menu screen.



### To Calibrate the Camera

\* 2 엔진을 적용한 3D projector에서 3D 영상 시청시 좌/우의 밝기를 자동으로 맞추어 주는 기능으로 시청시 눈의 피로도를 감소시켜 편안한 3D 영상 시청을 가능하게 합니다.

1. Press the **MENU** button. Then, move to **OPTION** with the  $\wedge$ ,  $\vee$ ,  $<$ ,  $>$  buttons and press the **OK** button.
2. Press the  $\wedge$ ,  $\vee$  buttons to move to **Camera Calibration** and press the **OK** button.
3. Press the  $<$ ,  $>$  buttons to move to **On**.
4. Press the  $\wedge$ ,  $\vee$  buttons to move to **Calibration Start** and press the **OK** button.

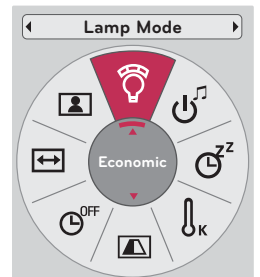


- 이 프로젝터는 3D 구현을 위해 프로젝터 내부에 2개의 엔진으로 구성되어 있습니다. 3D 영상 시청시 눈의 피로도를 줄이기 위해서는 좌/우안의 밝기가 유사해야 합니다.
- Camera Calibration (자동 밝기 조정) 기능은 3D 영상 시청시에만 적용되는 기능으로 2D 영상 시청시에는 화면에 변화가 없습니다.
- 주위 조명이 너무 밝거나 40인치 이하에서 조정하는 경우에는 자동 밝기 조정이 되지 않을 수 있습니다. 이때는 화면에 나타나는 경고 문구를 참고해 주시기 바랍니다.
- 전원을 켜고 5분이 지난 후 동작됩니다.
- Press the **BACK** button to exit the menu screen.

### To Adjust the Brightness of the Lamp

1. Press the **Q.MENU** button on the remote control.
2. Press the  $<$ ,  $>$  buttons to move to **Lamp Mode**.
3. Move to a desired item with the  $<$ ,  $>$  buttons.

- Lamp의 온도가 35°C이상이거나 3D mode 동작시에는 선택되지 않습니다.
- You can use this function through the **MENU** button.
- Press the **BACK** button to exit the menu screen.

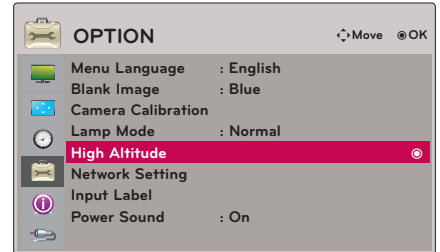


## High Altitude Mode

\* High Altitude mode is used when the environment is higher than 3200 feet.

1. Press the **MENU** button. Then, move to **OPTION** with the  $\wedge$ ,  $\vee$ ,  $<$ ,  $>$  buttons and press the **OK** button.
2. Press the  $\wedge$ ,  $\vee$  buttons to move to **High Altitude** and press the **OK** button.
3. Press the  $<$ ,  $>$  buttons to move to **On** and press the **OK** button.

- Press the **BACK** button to exit the menu screen.



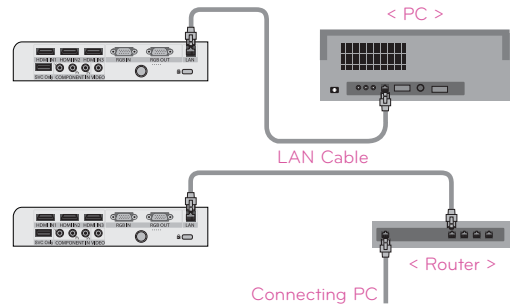
## Network Setup

### < NOTICE >

- Use a standard LAN cable with this Projector. Cat5 or better with a RJ45 connector.
- Many network connection problems during set up can often be fixed by re-setting the router or modem. After connecting the player to the home network, quickly power off and/or disconnect the power cable of the home network router or cable modem. Then power on and/or connect the power cable again.
- A 10 Base-T or 100 Base-TX LAN port is required for connection to this Projector. If your internet service does not allow for such a connection, you will not be able to connect the Projector.
- 무선 공유기 연결을 위해서는 무선 연결을 지원하는 공유기가 필요하며, 해당 공유기의 무선 연결 기능이 활성화 되어 있어야 합니다. 공유기의 무선 연결 가능 여부는 해당 공유기 업체에 문의하세요.
- 무선 공유기 연결을 위해서는 무선 공유기의 SSID와 보안 설정을 확인하시기 바랍니다. 무선 공유기의 SSID와 보안 설정에 대해서는 해당 공유기의 설명서를 참조하세요.
- 네트워크 장비(유/무선 공유기, 허브등)의 잘못된 설정으로 인해 Projector가 오동작 할 수 있습니다. 해당 기기의 설명서를 참조하여 올바르게 설치한 후 네트워크 설정을 하세요.
- Ad-hoc 사용시 접속하는 디바이스(예 : 노트북)에 따라서 연결이 안 될 수 있습니다.
- 무선 공유기 제조사에 따라서 접속방법에 차이가 있을 수 있습니다.

< How to connect >

Connect the **LAN** of the projector and the LAN port of the PC or network.



< How to use >

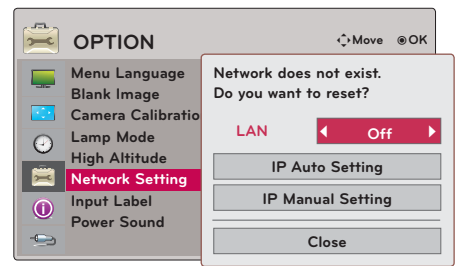
1. Press the **MENU** button. Then, move to **OPTION** with the  $\wedge$ ,  $\vee$ ,  $\leftarrow$ ,  $\rightarrow$  buttons and press the **OK** button.
2. Press the  $\wedge$ ,  $\vee$  buttons to move to **Network Setting** and press the **OK** button.
3. Press the  $\leftarrow$ ,  $\rightarrow$  buttons to move to **On** of **LAN** option.
4. Press the  $\wedge$ ,  $\vee$  buttons to move to **IP Auto Setting** or **IP Manual Setting** press the **OK** button.

- 서버용 PC는 **IP Auto Setting** 을 선택합니다.
- 일반 PC는 **IP Manual Setting** 을 선택합니다.
  - Setting PC PC의 인터넷 프로토콜(TCP/IP)을 임의로 설정합니다.  
Setting Projector: **IP Address**에는 PC의 Gateway를 **Gateway**에는 PC의 IP Address를 입력한 후 **Close**를 선택하세요.

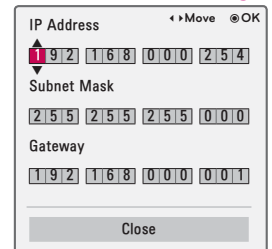
:: example ::

	IP Address	Subnet Mask	Gateway
PC	192.168.0.1	255.255.255.0	192.168.0.254
Projector	192.168.0.254	255.255.255.0	192.168.0.1

- If **Network Setting** is not working, check your network conditions. Check the LAN cable connection.
- If the **Network Setting** is not completed, network may not operate normally.
- **IP Auto Setting**: Select it if there is a DHCP (Dynamic Host Configuration Protocol) server on the local area network (LAN) via wired connection, the Projector will automatically be allocated an IP address. The IP address will automatically be determined. 방화벽이 설치되어 있는 경우나 컴퓨터의 기종에 따라 DHCP 서버와 연결되지 않을 수 있습니다.
- **IP Manual Setting**: Select it if there is no DHCP server on the network and you want to set the IP address manually.
- Press the **BACK** button to exit the menu screen.



< When select IP Manual Setting >



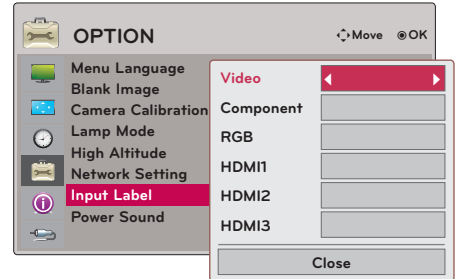


### Setting Input Label

\* This indicates which device is connected to which input port.

1. Press the **MENU** button. Then, move to **OPTION** with the  $\wedge$ ,  $\vee$ ,  $<$ ,  $>$  buttons and press the **OK** button.
2. Press the  $\wedge$ ,  $\vee$  buttons to move to **Input Label** and press the **OK** button.
3. Press the  $\wedge$ ,  $\vee$  buttons to move a desired input.
4. Press the  $<$ ,  $>$  buttons to selete a desired input label.
5. Press the  $\wedge$ ,  $\vee$  buttons to move to **Close** and press the **OK** button.

- Press the **BACK** button to exit the menu screen.

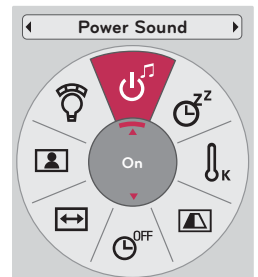


### Setting Power Sound

\* 시작음을 켜고 끌 수 있습니다.

1. Press the **Q.MENU** button on the remote control.
2. Press the  $<$ ,  $>$  buttons to move to **Power Sound**.
3. Move to a desired item with the  $\wedge$ ,  $\vee$  buttons.

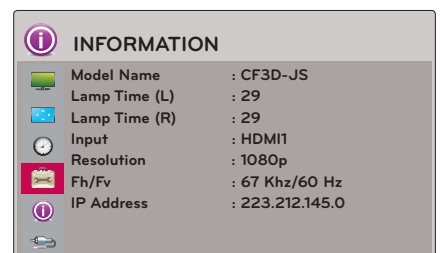
- You can use this function through the **MENU** button.
- Press the **BACK** button to exit the menu screen.



## INFORMATION Menu Options

### To See The Projector Information

1. Press the **MENU** button. Then, move to **INFORMATION** with the  $\wedge$ ,  $\vee$ ,  $<$ ,  $>$  buttons and press the **OK** button.
2. You can see the current information of the projector.
  - Press the **BACK** button to exit the menu screen.



# Information

## Supported Monitor Display

\* The following table lists the display formats supported by the projector.

Format	Vertical Freq.(Hz)	Horizontal Freq.(kHz)
720X400	70.080	31.469
640X480	59.940	31.469
800X600	60.310	37.879
1024X768	60.000	48.363
1152X864	60.053	54.348
1280X768	59.870	47.776
1360X768	60.015	47.712
1280X960	60.000	60.000
1280X1024	60.020	63.981
1400X1050	59.979	65.317
1680X1050	60.000	65.300
1920X1080	60.000	67.500

\* If the projector does not support the input signal, "**Invalid Format**" message appears on the screen.

\* The projector supports DDC1/2B type as Plug & Play function. (Auto recognition of PC monitor)

\* PC synchronization signal types supported :Separate type synchronization.

\* To get the the best picture quality, adjust the PC graphics card to 1920x1080.

### < DVD/DTV Input >

Signal	Component-*1	HDMI-*2
NTSC (60 Hz)	480i	O
	480p	O
	720p	O
	1080i	O
	1080p	O
PAL (50 Hz)	576i	O
	576p	O
	720p	O
	1080i	O
	1080p	O
24 / 30 Hz	1080p	O

\* Cable type  
1- Component Cable  
2- HDMI 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

If there is any dust or stain on the surface of the lens, you must always clean the lens. Use an air spray or cleaning cloth for product exterior, provided with the product, to lightly clean the product. Please use a recommended air spray or lens cleaning product. To clean lens, small amount of cleaning agent on a swab or a soft cloth and rub on the lens. Please be aware that liquid may flow pass through the lens if the product is sprayed on lens directly.

### Cleaning the Projector Case

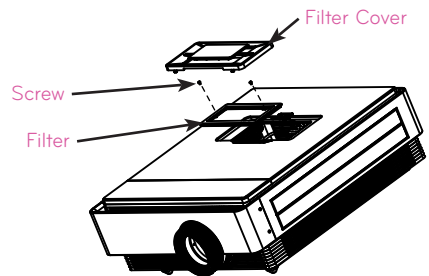
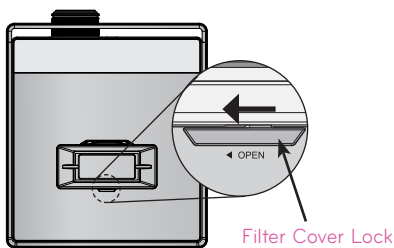
To clean the projector case, first unplug the power cable. To remove dirt or dust, wipe the casing with polish cloth provided. When you want to remove the dust or stain on the lens, use the cloth for product exterior, provided with the product. Do not use alcohol, benzene, thinners or other chemical detergents as these can cause the casing to be warped or discolored.

### Cleaning the Filter

When prompted to clean the filter while using the projector, take the following steps to clean it.

#### < Cleaning the top filter >

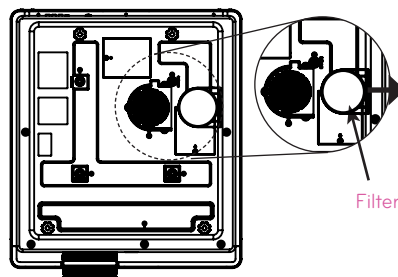
1. Turn off the projector and unplug the power cable. Place it on a table or flat surface.
2. 그림과 같이 filter cover lock을 화살표 방향으로 밀어 filter cover를 여세요.
3. filter cover를 분리한 후 filter를 고정된 볼트를 푸세요.



- 4 filter를 꺼내 가볍게 먼지를 털어줍니다. (When the filter is damaged, use additionally provided new filter.)
- 5 filter와 filter cover를 장착한 후 filter cover lock을 화살표 반대 방향으로 밀어 고정하세요.

#### < Cleaning the bottom filter >

1. Turn off the projector and unplug the power cable. Turn it upside down and place it on a table or flat surface.
2. 그림과 같이 bottom filter를 화살표 방향으로 당겨 filter를 빼세요.
3. filter의 먼지를 가볍게 털어줍니다. (When the filter is damaged, use additionally provided new filter.)
4. 2와 반대 순서로 filter를 장착하세요.

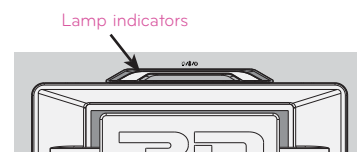


## Replacing the Lamp

### Lamp Replacement

The change interval of lamp may depend on the use environment of Projector. You can see the used lamp time in the **Lamp Time** of **INFORMATION** section (page.32). You must replace the lamp when:

- The projected image gets darker or starts to deteriorate.
- The lamp indicator is magenta.
- The message "Replace the lamp" appears on the screen when turning the projector on.



< Top panel of the Projector >

### Be careful when replacing lamp

- Press the POWER button on the control panel or remote control to turn off power.
- If the operation indicator LED is cyan and blinking, do not disconnect the main supply until the operation indicator LED is lit up constantly (blue).
- Allow the lamp to cool for 1 hour before replacing it.
- Replace only with the same type lamp from an LG Electronics Service Center. Using another manufacturer's lamp may cause damage to the Projector and lamp.
- Pull out the lamp only when replacing the lamp.
- Keep the lamp unit out of reach of children. Keep the Lamp away from heat sources such as radiators, stoves etc.
- To reduce the risk of fire do not expose the lamp to liquids or foreign materials.
- Do not place the lamp near any heat source.
- Make sure the new lamp is securely tightened with screws. If not, the image may be dark or there could be an increased risk of fire.
- Never touch the glass on the lamp. Image quality may be compromised or lamp life maybe reduced.

### To obtain a replacement Lamp unit

Lamp model number is on page 38. Check the lamp model and then purchase it from an LG Electronics Service Center. Using another manufacturers lamp may cause damage to the projector.

### Lamp unit disposal

Dispose of the used lamp by returning it to the LG Electronics Service Center.

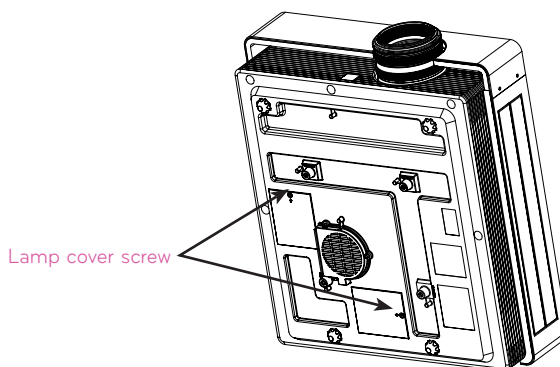
### Regarding the projector lamp control

#### WARNING

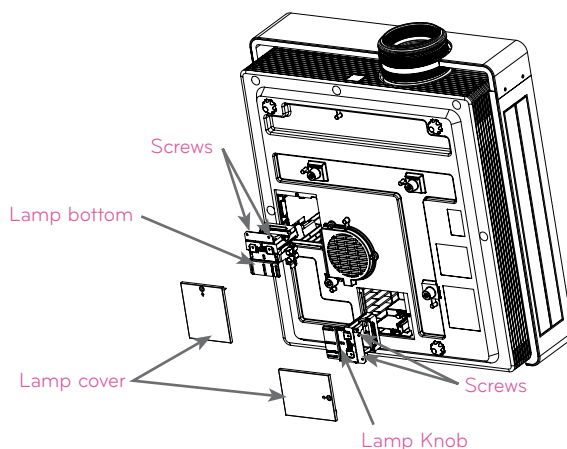
- Don't turn off the projector at least in 5 minutes after activating it.
  - The frequent On/Off changes may cause the lamp to deteriorate.
- Don't pull out the power cord while the projector or the cooling fan are running.
  - It may shorten the life of the lamp.
- The life-span of depends on the environment its used in and how well its treated.
- The projector uses a high pressure mercury lamp. Shock or abuse to the projector can cause the lamp to burst.
- Continuing to use a lamp the projector has indicated needs replacement may burst.
- If the lamp burst, perform the following:
  - Remove the power cord immediately.
  - Let some fresh air in immediately (Ventilation).
  - Have a service center check the projector's condition and replace the lamp.
  - Do not disassemble the projector.

## Replacing the Lamp

1. Turn off the projector and unplug the power cable. Carefully place on a cushioned surface. (Allow the lamp to cool for 1 hour before removing the used lamp from the projector.)
2. Unscrew the screw from the lamp cover using a screwdriver.



3. After lifting the lamp cover off, remove the two retaining screws on the lamp case with a screwdriver. Lift the lamp up from the projector.



4. Pull out the handle slowly and remove the lamp case.
5. Insert the new lamp gently into the correct position. Push the lamp bottom to check if it is correctly installed.
6. Tighten the screws you removed in step 3. (Make sure they are fixed firmly.)
7. Close the lamp cover and install the screws from step 2 to install the cover. (If the lamp cover is not installed correctly the unit will not power on.)

### Note!

Using another manufacturer's lamp may cause damage to the projector or lamp. Make sure the lamp cover is securely fastened. If the lamp cover is not installed correctly the unit will not power on. If this fault persists contact an LG Authorized Service Center.

Specifications

MODEL	CF3D (CF3D-JS)
Resolution	1920 (Horizontal) x 1080 (Vertical) pixel
Horizontal / Vertical Ratio	16:9 (horizontal:vertical)
Panel size (mm)	15.4
Projection distance (Screen size)	Wide: 0.88 m ~ 9.08 m (76.2 cm ~ 762.0 cm) Tele: 1.14 m ~ 11.8 m (76.2 cm ~ 762.0 cm)
Projection Offset	100 %
Remote control distance	12 m
Video compatibility	NTSC/PAL/SECAM/NTSC4.43/PAL-M/PAL-N/PAL-60
Power	AC 110 V - 240 V ~ 50/60 Hz, 6.37 A-2.8 A
Height (mm)	190
Width (mm)	501
Length (mm)	560
Weight (kg)	20.1

Operating Condition

Projector Lamp

Temperature

Lamp model

In operation : 0°C ~ 35°C  
In storage and transit : -20°C ~ 60°C

AJ-LCF3

Humidity

Lamp power consumption

In operation : 0 % ~ 80% relative humidity  
Not in operation : 0 % ~ 85% relative humidity

220 W (2 ea)

## Open Source Software Notice

The following GPL executables and LGPL, MPL libraries used in this product are subject to the GPL2.0/LGPL2.1/MPL1.1 License Agreements:

### GPL EXECUTABLES:

Linux kernel 2.6, busybox, lzo, u-boot

### LGPL LIBRARIES:

uClibc

### MPL LIBRARIES:

nanox

LG Electronics offers to provide source code to you on CD-ROM for a charge covering the cost of performing such distribution, such as the cost of media, shipping and handling upon e-mail request to LG Electronics at: [opensource@lge.com](mailto:opensource@lge.com)

This offer is valid for a period of three (3) years from the date of the distribution of this product by LG Electronics.

You can obtain a copy of the GPL, LGPL and MPL licenses on the CD-ROM provided with this product.

Also you can obtain the translation of GPL, LGPL licenses from

<http://www.gnu.org/licenses/old-licenses/gpl-2.0-translations.html>,

<http://www.gnu.org/licenses/old-licenses/lgpl-2.1-translations.html>.

This product includes

- ▶ jpeg: Independent JPEG Group, copyright © 1991 – 1998, Thomas G. Lane.
- ▶ libpng : copyright © 2004 Glenn Randers-Pehrson
- ▶ tinyxml : copyright © 2000-2006 Lee Thomason
- ▶ zlib : copyright © 1995-2002 Jean-loup Gailly and Mark Adler.

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THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.





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

MODEL \_\_\_\_\_

SERIAL \_\_\_\_\_

## ■ ■ ■ Regulatory Information cont.

### :: FCC Compliance Statement

This equipment has been tested and found to comply within the limits of 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 on and off), the user is encouraged to try to correct the interference by using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's (or your) authority to operate the equipment. Only peripherals (digital input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this monitor. Operation with non-certified peripherals is likely to result in interference to radio and TV reception. Only shielded signal cables may be used with this System.

#### NOTICE

The regulations are applied only to the products with the ID LABEL indicating specific requirements.

### :: Canadian DOC Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B

respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

#### NOTICE

The regulations are applied only to the products with the ID LABEL indicating specific requirements.

### :: CE Conformity Notice (for Europe)

Products with the "CE" Marking comply with the EMC Directive(89/336/EEC) and LOW VOLTAGE Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms :

- EN 55022 ; Radio Frequency Interference
- EN 55024 ; Electromagnetic Immunity
- EN 61000-3-2 ; Power Line Harmonics
- EN 61000-3-3 ; Voltage Fluctuations
- EN 60950-1 ; Product Safety

#### NOTICE

The regulations are applied only to the products with the ID LABEL indicating specific requirements.

### :: Low Radiation Compliance (MPR II)

This monitor meets one of the strictest guidelines available today for low radiation emissions, offering the user extra shielding and an antistatic screen coating. These guidelines, set forth by a government agency in Sweden, limit the amount of emission allowed in the Extremely Low Frequency (ELF) and Very Low Frequency (VLF) electromagnetic range.

### :: TCO'99 (TCO'99 applied model only)



#### Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

## ■ ■ ■ Regulatory Information cont.

### **Why do we have environmentally labelled computers?**

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. With the growing manufacture and usage of electronic equipment throughout the world, there is a recognized concern for the materials and substances used by electronic products with regards to their eventual recycling and disposal. By proper selection of these materials and substances, the impact on the environment can be minimized.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Electronic equipment in offices is often left running continuously, resulting in unnecessary consumption of large amounts of energy and additional power generation. From the standpoint of carbon dioxide emissions alone, it is vital to save energy.

### **What does labelling involve?**

The product meets the requirements for the TCO'99 scheme which provides for international and environmental labelling of personal computers and/or displays.

The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: ecology, ergonomics, emission of electrical and magnetical fields, energy consumption and electrical safety.

Ecological criteria impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, and other substances. The product must be prepared for recycling and the manufacturing site(s) shall be certified according to ISO14001 or EMAS registered.

Energy requirements include a demand that the system unit and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the system unit shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example, in respect of the reduction of electrical and magnetical fields as well as work load and

visual ergonomics.

Below you will find a brief summary of the ecological requirements met by this product. The complete ecological criteria document can be found at TCO Development's website <http://www.tcodevelopment.com> or may be ordered from:

#### **TCO Development**

SE-114 94 STOCKHOLM, Sweden

Fax: +46 8 782 92 07

Email : [development@tco.se](mailto:development@tco.se)

Information regarding TCO'99 approved and labelled products may also be obtained at <http://www.tcodevelopment.com>

### **Ecological requirements**

#### **Flame retardants**

Flame retardants may be present in printed wiring board laminates, cables, and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% by weight of the plastic in a computer casing can consist of flame retardant substances. Many flame retardants contain bromine or chlorine, and these flame retardants are chemically related to PCBs (polychlorinated biphenyls). Both the flame retardants containing bromine or chlorine and the PCBs are suspected of giving rise to health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative\* processes when not disposed of in accordance with strict standards for disposal.

TCO'99 requires that plastic components weighing more than 25 grams shall not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed wiring board laminates due to the lack of commercially available alternatives.

#### **Cadmium\*\***

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. TCO'99 requires that batteries, the colour-generating layers of display screens, and the electrical or electronics components shall not contain any cadmium.

#### **Mercury\*\***

Mercury is sometimes found in batteries, relays and switches. TCO'99 requires that batteries shall not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one

## ■ ■ ■ Regulatory Information cont.

exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as there today is no commercially available alternative. TCO aims on removing this exception when a mercury free alternative is available.

### Lead\*\*

Lead can be found in picture tubes, display screens, solders and capacitors. TCO'99 permits the use of lead due to the lack of commercially available alternatives, but in future requirements TCO Development aims at restricting the use of lead.

\* **Bio-accumulative is defined as substances which accumulate in living organisms.**

\*\* **Lead, Cadmium and Mercury are heavy metals which are bio-accumulative.**

## :: TCO'03 (TCO'03 applied model only)



### Congratulations!

The display you have just purchased carries the TCO'03 Displays label.

This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment. Some of the features of the TCO'03 Display requirements:

### Ergonomics

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

### Energy

- Energy-saving mode after a certain time – beneficial both for the user and the environment
- Electrical safety

### Emissions

- Electromagnetic fields

- Noise emissions

### Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 001
- Restrictions on
  - chlorinated and brominated flame retardants and polymers
  - heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in co-operation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit  
[www.tcodevelopment.com](http://www.tcodevelopment.com)

## English

### Information for Environmental Preservation

LGE. announced the 'LG Declaration for a Cleaner Environment' in 1994, and this ideal has served as a guiding managerial principle ever since. The Declaration is a foundation that has allowed us to undertake environmentally friendly activities in careful consideration of economic, environmental, and social aspects.

We promote activities for environmental preservation, and we specifically develop our products to embrace the concept of environment-friendly.

We minimize the hazardous materials contained in our products. For example, there is no cadmium to be found in our monitors.

### Information for recycling

This monitor may contain parts which could be hazardous to the environment. It is important that this monitor be recycled after use.

LGE. handles all waste monitors through an environmentally acceptable recycling method. There are several take-back and recycling systems currently in

## ■■■ Regulatory Information cont.

operation worldwide. Many parts will be reused and recycled, while harmful substances and heavy metals are treated by an environmentally friendly method.

If you want to find out more information about our recycling program, please contact your local LG vendor or a corporate representative of LG.

We set our vision and policies on a cleaner world by selecting the issue of the global environment as a task for corporate improvement. Please visit our website for more information about our 'green' policies.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### Deutsch

#### Informationen zur Erhaltung der Umwelt

Im Jahr 1994 verkündete LGE die 'LG Declaration for a Cleaner Environment' (LG Erklärung für eine sauberere Umwelt). Seitdem dient dieses Ideal als führendes Prinzip des Unternehmens. Diese Erklärung war die Basis für die Durchführung von umweltfreundlichen Aktivitäten, wobei wirtschaftliche, umweltbezogene und soziale Aspekte in die Überlegungen mit einbezogen wurden.

Wir fördern Aktivitäten zum Schutz der Umwelt und die Entwicklung unserer Produkte ist darauf ausgerichtet, unserem Konzept bezüglich Umweltfreundlichkeit gerecht zu werden.

Wir sind darauf bedacht, den Anteil der in unseren Produkten enthaltenen schädlichen Materialien zu minimieren. So ist in unseren Monitoren beispielsweise kein Kadmium zu finden.

#### Informationen zum Thema Recycling

Dieser Monitor enthält Teile, die umweltschädlich sein können. Es ist unbedingt erforderlich, dass der Monitor recycelt wird, nachdem er außer Dienst gestellt wurde.

Bei LGE werden alle ausrangierten Monitore in einem unter umweltbezogenen Aspekten geeigneten Verfahren recycelt. Augenblicklich sind weltweit mehrere Rücknahme- und Recyclingsysteme im Einsatz. Viele Teile werden wieder verwendet und recycelt. Schädliche Substanzen und Schwermetalle werden durch umweltverträgliche Verfahren behandelt.

Falls Sie mehr über unser Recyclingprogramm erfahren möchten, wenden Sie sich bitte an Ihren lokalen LG-Händler oder einen Unternehmensvertreter von LG.

Wir richten unsere Firmenpolitik auf eine sauberere Umwelt hin aus, indem wir umweltspezifische Aspekte als wichtigen Punkt in die Weiterentwicklung unseres Unternehmens einfließen lassen. Zusätzliche Informationen über unsere 'grüne' Firmenpolitik erhalten Sie auf unserer Website.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### Français

#### Information sur la protection de l'environnement

LGE a publié sa 'Déclaration en faveur d'un environnement plus propre' en 1994 et celle-ci est restée, depuis lors, un principe directeur de notre entreprise. Cette déclaration a servi de base à notre réflexion et nous a permis de prendre en compte à la fois les aspects économiques et sociaux de nos activités, tout en respectant l'environnement.

Nous encourageons les activités en faveur de la préservation de l'environnement et c'est dans cet esprit que nous développons nos produits : nous réduisons au minimum les matières dangereuses qui entrent dans leur composition et l'on ne trouve pas de cadmium, par exemple, dans nos moniteurs.

#### Information sur le recyclage

Ce moniteur peut contenir des composants qui présentent un risque pour l'environnement. Il est donc important que celui-ci soit recyclé après usage.

LGE traite les moniteurs en fin de cycle conformément à une méthode de recyclage respectueuse de l'environnement. Nous reprenons nos produits et les recyclons dans plusieurs sites répartis dans le monde entier. De nombreux composants sont réutilisés et recyclés, et les matières dangereuses, ainsi que les métaux lourds, sont traités selon un procédé écologique.

Si vous souhaitez plus de renseignements sur notre programme de recyclage, veuillez contacter votre revendeur LG ou un l'un de nos représentants.

Nous voulons agir pour un monde plus propre et croyons au rôle de notre entreprise dans l'amélioration de l'environnement. Pour plus de renseignements sur notre politique "verte", rendez visite à notre site :

<http://www.lge.com/about/environment/html/Recycling.jsp>

## Regulatory Information cont.

### Italiano

#### Informazioni per la tutela dell'ambiente

La LGE. ha annunciato nel 1994 la cosiddetta 'LG Declaration for a Cleaner Environment' (Dichiarazione di LG a favore di un ambiente più pulito), un ideale che da allora funge da principio ispiratore della gestione aziendale. La dichiarazione rappresenta il fondamento che consente di intraprendere attività a favore dell'ambiente tenendo conto degli aspetti economici, ambientali e sociali. Noi della LG, promuoviamo attività a favore della tutela dell'ambiente sviluppando appositamente i nostri prodotti per cogliere il concetto del rispetto dell'ambiente riducendo i materiali dannosi presenti nei nostri prodotti. Ad esempio nei nostri monitor non è presente il cadmio.

#### Informazioni per il riciclaggio

Il monitor può presentare componenti che potrebbero risultare eventualmente dannosi per l'ambiente. È importante che il monitor sia riciclato al termine del suo utilizzo.

La LGE. gestisce tutti i monitor di rifiuto con un metodo di riciclaggio soddisfacente dal punto di vista ambientale. In tutto il mondo sono attualmente in funzione numerosi sistemi di riciclaggio e recupero. I diversi componenti sono riutilizzati e riciclati, mentre le sostanze dannose e i metalli pesanti vengono trattati con un metodo rispettoso dell'ambiente.

Se si desiderano maggiori informazioni in merito al programma di riciclaggio, è consigliabile rivolgersi al proprio rivenditore LG o ad un rappresentante aziendale della LG.

Noi della LG impostiamo la nostra visione e le nostre politiche a favore di un mondo più pulito ponendo la questione dell'ambiente dal punto di vista globale come una mansione rivolta al miglioramento della nostra azienda. Vi invitiamo a visitare il nostro sito internet per ulteriori informazioni sulla nostra politica "verde".  
<http://www.lge.com/about/environment/html/Recycling.jsp>

### Espanol

#### Información para la conservación medioambiental

LGE. presentó la 'Declaración para un entorno más limpio de LG' en 1994 y este ideal ha servido para guiar nuestros principios empresariales desde entonces. La Declaración es la base que nos ha permitido llevar a cabo tareas que

respetan el medio ambiente siempre teniendo en cuenta aspectos sociales, económicos y medioambientales.

Promocionamos actividades orientadas a la conservación del medio ambiente y desarrollamos nuestros productos específicamente para que se ajusten a la filosofía que protege el entorno.

Reducimos al máximo el uso de materiales de riesgo en nuestros productos. Un ejemplo de ello es la ausencia total de cadmio en nuestros monitores.

#### Información para el reciclaje

Este monitor puede contener piezas que entrañen riesgos medioambientales. Es importante reciclar este monitor después de su utilización.

LGE. trata todos los monitores usados siguiendo un método de reciclaje que no daña al entorno. Contamos con diversos sistemas de recuperación y reciclaje que funcionan a nivel mundial en la actualidad. Es posible reciclar y reutilizar muchas de las piezas, mientras que las sustancias dañinas y los metales pesados se tratan siguiendo un método que no perjudique al medio ambiente. Si desea obtener más información acerca del programa de reciclaje, póngase en contacto con su proveedor local de LG o con un representante empresarial de nuestra marca.

Basamos nuestra visión y nuestras políticas en un mundo más limpio y para ellos optamos por un entorno global como tarea principal de nuestra evolución como empresa. Visite nuestra página Web para obtener más información sobre nuestras políticas ecológicas.  
<http://www.lge.com/about/environment/html/Recycling.jsp>

### Português

#### Informações relacionadas à preservação ambiental

A LGE. anunciou a 'LG Declaration for a Cleaner Environment' (Declaração da LG para um ambiente mais limpo) em 1994 e esse ideal tem servido desde então como um princípio administrativo de orientação. A Declaração é a base que nos tem permitido realizar atividades favoráveis ao ambiente com consideração atenta aos aspectos econômicos, ambientais e sociais.

Promovemos atividades de preservação ambiental e desenvolvemos nossos produtos para englobar

## ■■■ Regulatory Information cont.

especificamente o conceito de favorável ao ambiente. Reduzimos os materiais perigosos contidos em nossos produtos. Por exemplo, não há cádmio em nossos monitores.

### Informações relacionadas à reciclagem

Este monitor pode conter peças que podem representar riscos ao ambiente. É importante que ele seja reciclado após o uso.

A LGE. cuida de todos os monitores descartados através de um método de reciclagem agradável ao ambiente. Há vários sistemas de devolução e reciclagem atualmente em operação no mundo. Muitas peças serão reutilizadas e recicladas e as substâncias nocivas e os metais pesados passarão por tratamento através de um método favorável ao ambiente.

Para obter mais informações sobre nosso programa de reciclagem, entre em contato com seu fornecedor LG local ou com um representante corporativo da LG.

Definimos nossa visão e nossas políticas relacionadas a um mundo mais limpo selecionando a questão do ambiente global como uma tarefa de aprimoramento corporativo. Visite nosso site para obter mais informações sobre nossas políticas de meio ambiente.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### ■■■ Nederlands

#### Informatie met betrekking tot het behoud van het milieu

LGE. publiceerde in 1994 de 'LG Declaration for a Cleaner Environment' (de LG-verklaring met betrekking tot een schoner milieu). Deze verklaring en het ideaal van een schoner milieu fungeren sindsdien als een bestuurlijke leidraad voor onze onderneming. Op basis van deze verklaring ontplooiën wij milieuvriendelijke activiteiten, waarbij er zowel met sociale en economische aspecten, als met milieuaspecten zorgvuldig rekening wordt gehouden.

Wij ondersteunen activiteiten die zijn gericht op het behoud van het milieu en wij houden bij het ontwikkelen onze producten specifiek rekening met de milieuvriendelijkheid van onze producten.

Wij minimaliseren het gebruik van schadelijke stoffen in onze producten. Er wordt bijvoorbeeld geen cadmium verwerkt in onze monitoren.

#### Informatie met betrekking tot recycling

Deze monitor bevat materialen die schadelijk zouden kunnen zijn voor het milieu. Het is belangrijk dat deze monitor aan het einde van zijn levensduur wordt gerecycled.

LGE. verwerkt alle afvalmonitoren via een milieuvriendelijke recyclingmethode. Hiervoor worden er momenteel wereldwijd verscheidene inname- en recyclingsystemen gehanteerd. Een groot aantal onderdelen wordt opnieuw gebruikt en gerecycled, waarbij schadelijke stoffen en zware metalen volgens een milieuvriendelijke methode worden verwerkt.

Voor meer informatie over ons recyclingprogramma kunt u contact opnemen met uw plaatselijke LG-vertegenwoordiger of een LG-vestiging.

Onze visie en ons beleid met betrekking tot een schonere wereld vloeien voort uit het feit dat wij het milieu hebben aangemerkt als een onderwerp dat speciale aandacht verdient binnen onze onderneming. Bezoek onze website voor meer informatie over ons 'groene' beleid.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### ■■■ Russian

#### Информация по охране окружающей среды

В 1994 году корпорация LGE опубликовала 'Декларацию LG по охране окружающей среды', которая с тех пор служит основным принципом управления. На основе этой декларации мы смогли предпринять действия, обеспечивающие безопасность окружающей среды, уделяя при этом должное внимание экономическим, экологическим и социальным аспектам.

Мы стимулируем деятельность по охране окружающей среды, уделяя особое внимание разработке нашей продукции в соответствии с концепцией экологической безопасности.

Мы сводим к минимуму содержание опасных веществ в нашей продукции. Например, в наших мониторах вы не найдете кадмия.

#### Информация по утилизации отходов

Этот монитор может содержать компоненты, которые могут нанести ущерб окружающей среде.

Regulatory Information cont.

Необходимо утилизировать монитор после использования.

Корпорация LGE перерабатывает все бракованные мониторы с помощью экологически приемлемого метода утилизации отходов. По всему миру действуют системы утилизации отходов и возврата использованной продукции. Многие компоненты будут вторично использованы и утилизированы, в то время как вредные вещества и тяжелые металлы будут обработаны с помощью экологически приемлемого метода.

За более подробной информацией по нашей программе утилизации отходов обращайтесь к местному поставщику или представителю корпорации LG.

Мы ориентируемся на обеспечение экологической безопасности, ставя себе целью глобальную защиту окружающей среды. Дополнительную информацию о нашей политике по охране окружающей среды вы можете найти на нашем сайте:  
<http://www.lge.com/about/environment/html/Recycling.jsp>

한국어

환경 보존 정보

LG 전자는 1994년 'LG 환경 선언문'을 발표한 후 현재까지 이를 기업 경영의 이념으로 삼아왔습니다. 이 선언문을 바탕으로 LG 전자는 모든 경영 활동에서 경제성뿐만 아니라 환경성 및 사회성을 주요 의사 결정의 기준으로 삼음으로써 지속적으로 환경 친화적인 경영을 전개하고 있습니다.

본사는 보다 활발한 환경 보존 활동과 더불어 환경 친화적 제품 개발에 주력해 왔습니다. 또한 제품에 포함되는 환경 위해 요소를 최소화하는 데에도 노력을 기울이지 않고 있습니다. LG 전자 모니터의 경우 카드를 전혀 사용하지 않는 것에서도 이러한 노력을 알 수 있습니다.

재활용 정보

본 모니터에는 환경에 위해를 주는 부품이 포함되어 있을 수도 있습니다. 따라서 사용이 끝난 모니터는 재활용하는 것이 좋습니다.

폐모니터는 모두 환경 친화적 방식으로 처리됩니다. 현재 세계적으로 운영되고 있는 회수 및 재활용 시스템에는

여러 가지가 있습니다. 대부분의 부품의 경우 재사용 또는 재활용되지만 환경 위해 물질과 중금속은 환경 친화적 방법으로 처리됩니다.

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LG 전자는 기업 개선 정책의 하나로 지구 환경 문제를 채택함으로써 보다 나은 환경을 만들어 나가기 위한 비전과 정책을 수립했습니다. 본사의 친환경 정책에 대한 자세한 정보를 보시려면 아래의 웹 사이트를 방문하십시오.

[http://www.lge.co.kr/ckr/about/environ/purity\\_\\_02.jsp](http://www.lge.co.kr/ckr/about/environ/purity__02.jsp)

ENERGY STAR (EPA applied model only)

ENERGY STAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency(EPA).



As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

NOM MARK (Mexico only)





## Regulatory Information cont.

### :: WEEE (for Europe )



#### English

##### Disposal of your old appliance

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

#### French

##### Élimination de votre ancien appareil

1. Ce symbole, représentant une poubelle sur roulettes barrée d'une croix, signifie que le produit est couvert par la directive européenne 2002/96/EC.
2. Les éléments électriques et électroniques doivent être jetés séparément, dans les vide-ordures prévus à cet effet par votre municipalité.
3. Une élimination conforme aux instructions aidera à réduire les conséquences négatives et risques éventuels pour l'environnement et la santé humaine.
4. Pour plus d'information concernant l'élimination de votre ancien appareil, veuillez contacter votre mairie, le service des ordures ménagères ou encore la magasin où vous avez acheté ce produit.

#### Italian

##### Smaltimento delle apparecchiature obsolete

1. Quando su un prodotto è riportato il simbolo di

un bidone della spazzatura barrato da una croce significa che il prodotto è coperto dalla direttiva europea 2002/96/EC.

2. Tutti i prodotti elettrici ed elettronici dovrebbero essere smaltiti separatamente rispetto alla raccolta differenziata municipale, mediante impianti di raccolta specifici designati dal governo o dalle autorità locali.
3. Il corretto smaltimento delle apparecchiature obsolete contribuisce a prevenire possibili conseguenze negative sulla salute umana e sull'ambiente.
4. Per informazioni più dettagliate sullo smaltimento delle apparecchiature obsolete, contattare il comune, il servizio di smaltimento rifiuti o il negozio in cui è stato acquistato il prodotto.

#### Swedish

##### Kassering av din gamla apparat

1. När den här symbolen med en överkryssad soptunna på hjul sitter på en produkt innebär det att den regleras av European Directive 2002/96/EC.
2. Alla elektriska och elektroniska produkter bör kasseras via andra vägar än de som finns för hushållsavfall, helst via för ändamålet avsedda uppsamlingsanläggningar som myndigheterna utser.
3. Om du kasserar din gamla apparat på rätt sätt så bidrar du till att förhindra negativa konsekvenser för miljön och människors hälsa.
4. Mer detaljerad information om kassering av din gamla apparat kan fås av kommunen, renhållningsverket eller den butik där du köpte produkten.

#### Dutch

##### Uw oude toestel wegdoen

1. Als het symbool met de doorgekruiste verrijdbare afvalbak op een product staat, betekent dit dat het product valt onder de Europese Richtlijn 2002/96/EC.
2. Elektrische en elektronische producten mogen niet worden meegegeven met het huishoudelijk afval, maar moeten worden ingeleverd bij speciale inzamelingspunten die door de lokale of landelijke overheid zijn aangewezen.
3. De correcte verwijdering van uw oude toestel helpt negatieve gevolgen voor het milieu en de menselijke gezondheid voorkomen.

## ■■■ Regulatory Information cont.

4. Wilt u meer informatie over de verwijdering van uw oude toestel? Neem dan contact op met uw gemeente, de afvalophaaldienst of de winkel waar u het product hebt gekocht.

### ■ ■ ■ Finnish

#### Vanhon laitteen hävittäminen

1. Tämä merkki tuotteessa tarkoittaa, että tuote kuuluu sähkö- ja elektroniikkalaiteromusta annetun EU-direktiivin 2002/96/EY soveltamisalaan.
2. Kaikki elektroniset laitteet ovat ongelmajätettä, joten ne on toimitettava paikalliseen keräyspisteeseen.
3. Vanhan laitteen asianmukainen hävittäminen ehkäisee mahdollisia ympäristöön ja terveyteen kohdistuvia haittavaikutuksia.
4. Lisätietoa vanhan laitteen hävittämisestä saat ottamalla yhteyden paikallisiin viranomaisiin, kierrätyskeskukseen tai myymälään, josta ostit laitteen.

### ■ ■ ■ German

#### Entsorgung von Altgeräten

1. Wenn dieses Symbol eines durchgestrichenen Abfallimers auf einem Produkt angebracht ist, unterliegt dieses Produkt der europäischen Richtlinie 2002/96/EC.
2. Alle Elektro- und Elektronik-Altgeräte müssen getrennt vom Hausmüll über dafür staatlich vorgesehenen Stellen entsorgt werden.
3. Mit der ordnungsgemäßen Entsorgung des alten Geräts vermeiden Sie Umweltschäden und eine Gefährdung der persönlichen Gesundheit.
4. Weitere Informationen zur Entsorgung des alten Geräts erhalten Sie bei der Stadtverwaltung, beim Entsorgungsamt oder in dem Geschäft, wo Sie das Produkt erworben haben.

### ■ ■ ■ Danish

#### Sådan smider du dit gamle apparat ud

1. Når der er et tegn med et kryds over en skraldespand, betyder det, at produktet er omfattet af EU-direktiv 2002/96/EC.
2. Alle elektriske og elektroniske produkter skal smides ud et andet sted end gennem den kommunale affaldsordning ved hjælp af specielle indsamlingsfaciliteter, der er organiseret af staten

eller de lokale myndigheder.

3. Korrekt bortskaffelse af dit gamle apparat er med til at forhindre mulige skadevirkninger på miljøet og menneskelig sundhed.
4. Mere detaljerede oplysninger om bortskaffelse af dit gamle apparat kan fås ved at kontakte dit lokale kommunekontor, renovationselskab eller den butik, hvor du købte produktet.

### ■ ■ ■ Greek

#### Απόρριψη της παλιάς σας συσκευής

1. Όταν ένα προϊόν διαθέτει το δýmβoλo ενός διαγραμμένου κάλαθου απορριμμάτων, τότε το προϊόν καλύπτεται από την Ευρωπαϊκή Οδηγία 2002/96/EOK.
2. Η απόρριψη όλων των ηλεκτρικών και ηλεκτρονικών προϊόντων πρέπει να γίνεται χωριστά από τα γενικά οικιακά απορρίμματα μέσω καθορισμένων εγκαταστάσεων συλλογής απορριμμάτων, οι οποίες έχουν δημιουργηθεί είτε από την κυβέρνηση ή από τις τοπικές αρχές.
3. Η σωστή απόρριψη της παλιάς σας συσκευής θα βοηθήσει στην αποτροπή πιθανών αρνητικών συνεπειών ως προς το περιβάλλον και την υγεία του ανθρώπου.
4. Για πιο λεπτομερείς πληροφορίες σχετικά με την απόρριψη της παλιάς σας συσκευής, επικοινωνήστε με το αρμόδιο τοπικό γραφείο, υπηρεσία διάθεσης οικιακών απορριμμάτων ή το μαγαζί από το οποίο αγοράσατε το προϊόν.

### ■ ■ ■ Spanish

#### Cómo deshacerse de aparatos eléctricos y electrónicos viejos

1. Si en un producto aparece el símbolo de un contenedor de basura tachado, significa que éste se acoge a la Directiva 2002/96/CE.
2. Todos los aparatos eléctricos o electrónicos se deben desechar de forma distinta del servicio municipal de recogida de basura, a través de puntos de recogida designados por el gobierno o las autoridades locales.
3. La correcta recogida y tratamiento de los dispositivos inservibles contribuye a evitar riesgos potenciales para el medio ambiente y la salud pública.
4. Para obtener más información sobre cómo deshacerse de sus aparatos eléctricos y electrónicos viejos, póngase en contacto con su ayuntamiento, el servicio de recogida de basuras o el establecimiento donde adquirió el producto.

## Regulatory Information cont.

### Portuguese

#### Eliminação do seu antigo aparelho

1. Quando este símbolo de latão cruzado estiver afixado a um produto, significa que o produto é abrangido pela Directiva Europeia 2002/96/EC.
2. Todos os produtos eléctricos e electrónicos devem ser eliminados separadamente do lixo doméstico através de pontos de recolha designados, facilitados pelo governo ou autoridades locais.
3. A eliminação correcta do seu aparelho antigo ajuda a evitar potenciais consequências negativas para o ambiente e para a saúde humana.
4. Para obter informações mais detalhadas acerca da eliminação do seu aparelho antigo, contacte as autoridades locais, um serviço de eliminação de resíduos ou a loja onde comprou o produto.

### Slovak

#### Likvidácia váš ho starého prístroja

1. Keď sa na produkte nachádza tento symbol prečiarknutej smetnej nádoby s kolieskami, znamená to, že daný produkt vyhovuje európskej Smernici č. 2002/96/EC.
2. Všetky elektrické a elektronické produkty by mali byť zlikvidované oddelene od komunálneho odpadu prostredníctvom na to určených zberných zariadení, ktoré boli ustanovené vládou alebo orgánmi miestnej správy.
3. Správnu likvidáciu starých zariadení pomôžete predchádzať potenciálnym negatívnym následkom pre prostredie a ľudské zdravie.
4. Podrobnejšie informácie o likvidácii starých zariadení nájdete na miestnom úrade, v službe na likvidáciu odpadu alebo u predajcu, kde ste tento produkt zakúpili.

### Czech

#### Likvidace starých spotřebičů

1. Pokud je u výrobku uveden symbol pojezdného kontejneru v přeškrtnutém poli, znamená to, že na výrobek se vztahuje směrnice Evropské unie číslo 2002/96/EC.
2. Všechny elektrické a elektronické výrobky by měly být likvidovány odděleně od běžného komunálního odpadu prostřednictvím sběrných zařízení zřízených za tímto účelem vládou nebo místní samosprávou.
3. Správný způsob likvidace starého elektrického spotřebiče pomáhá zamezit možným negativním dopadům na životní prostředí a zdraví.
4. Bližší informace o likvidaci starého spotřebiče získáte u místní samosprávy, ve sběrném zařízení nebo v obchodě, ve kterém jste výrobek zakoupili.

### Croatian

#### Uklanjanje starog aparata

1. Ako se na proizvodu nalazi simbol prekrizene kante za smeće, to znači da je proizvod pokriven europskom direk-

tivom 2002/96/EC.

2. Električni i elektronski proizvodi ne smiju se odlagati zajedno s komunalnim otpadom, već u posebna odlagališta koja je odredila vlada ili lokalne vlasti.
3. Pravilno odlaganje starog proizvoda sprečít će potencijalne negativne posljedice po okoliš i zdravlje ljudi.
4. Podrobnije informacije o odlaganju starog proizvoda potražite u gradskom uredu, službi za odlaganje otpada ili u trgovini u kojoj ste kupili proizvod.

### Hungarian

#### Régi eszközök ártalmatlanítása

1. A termékhez csatolt áthúzott, kerek szeméttároló jel jelöli, hogy a termék a 2002/96/EC EU-direktíva hatálya alá esik.
2. Minden elektromos és elektronikai terméket a lakossági hulladéktól elkülönítve kell begyűjteni, a kormány vagy az önkormányzatok által kijelölt begyűjtő eszközök használatával.
3. Régi eszközeinek megfelelő ártalmatlanítása segíthet megelőzni az esetleges egészségre vagy környezetre ártalmas hatásokat.
4. Ha több információra van szüksége régi eszközeinek ártalmatlanításával kapcsolatban, tanulmányozza a vonatkozó környezetvédelmi szabályokat, vagy lépjen kapcsolatba az üzlettel, ahol a terméket vásárolta.

### Polish

#### Utylizacja starych urządzeń

1. Kiedy do produktu dołączony jest niniejszy przekreślony symbol kołowego pojemnika na śmieci, oznacza to, że produkt jest objęty dyrektywą 2002/96/EC.
2. Wszystkie elektryczne i elektroniczne produkty powinny być utylizowane niezależnie od odpadów miejskich, z wykorzystaniem przeznaczonych do tego miejsc składowania wskazanych przez rząd lub miejscowe władze.
3. Właściwy sposób utylizacji starego urządzenia pomoże zapobiec potencjalnie negatywnemu wpływowi na zdrowie i środowisko.
4. Aby uzyskać więcej informacji o sposobach utylizacji starych urządzeń, należy skontaktować się z władzami lokalnymi, przedsiębiorstwem zajmującym się utylizacją odpadów lub sklepem, w którym produkt został kupiony.

## ■ ■ ■ Regulatory Information cont.

### ■ ■ ■ Estonian

#### Kasutuskõlbmatu seadme käitlemise kord

1. Kui seade on märgistatud selle elektri- ja elektroonikaseadmete lahuskogumist märgistava tähisega (ratastega prügikonteineri kujutis, millele on rist peale tõmmatud), tuleb toodet käidelda vastavalt Eurodirektiivile 2002/96/EÜ.
2. Elektri- ja elektroonikaseadmeid ei tohi visata tavalise prügi hulka. Nad kuuluvad lahuskogumisele selleks määratud kogumispunktides.
3. Kasutuskõlbmatu tervikseadme käitlemine tavaprügist lahus on korraldatud selleks, et vältida negatiivseid tagajärgi, mida põhjustaksid seadme osade purunemisel vabaneda võivad ohtlikud jäätmeloodused või inimorganismile.
4. Täpsemat informatsiooni selle kohta, kuhu ja millal saab ära anda oma kasutamiskõlbmatu elektri- ja elektroonikaseadme, küsige kohalikul omavalitsuselt, prügifirmalt või kaupluselt, kust seadme ostsite.

### ■ ■ ■ Latvian

#### Vecās elektroierīces nodošana

1. Ja uz produkta ir simbols ar pārsvītrotu atkritumu tvertni, tas nozīmē, ka produkts ir iekļauts Eiropas direktīvā 2002/96/EC.
2. Visi elektriskie un elektroniskie produkti ir jāutilizē, nododot pašvaldības īpaši noteiktās pieņemšanas vietās. Tos nedrīkst izmest parastās municipalitātes atkritumu urnās.
3. Ievērojot prasības veco elektroierīču utilizēšanā, jūs pasargāsiet apkārtni un cilvēku veselību no iespējami nelabvēlīgajām sekām, kādas varētu rasties, ierīcēm sadaloties nepiemērotā vietā.
4. Lai gūtu plašāku informāciju par veco ierīču utilizēšanas iespējām, sazinieties ar pilsētas pašvaldību, atkritumu savākšanas saimniecību vai veikalu, kurā ierīci iegādājāties.

### ■ ■ ■ Lithuanian

#### Senos įrangos atliekų tvarkymas

1. Užbrauktas konteinerio simbolis pritvirtintas ant prekės reiškia, kad įrangą saugo Europos direktyva 2002/96/EC.
2. Visos elektros ir elektroninės įrangos atliekos turi būti renkamos atskirai ir neišmetamos į atliekų konteinerį kartu su kitomis komunalinėmis atliekomis, taikant specialią atliekų surinkimo sistemą, patvirtintą vyriausybės ar vietos valdžios.
3. Teisingas senos įrangos atliekų tvarkymas, padės išvengti neigiamų pasekmių aplinkai ir žmonių sveikatai.
4. Dėl išsamesnės informacijos apie senos įrangos tvarkymą, prašome kreiptis į miesto valdžią, atliekų perdirbimo tarnybą arba parduotuvę, kurioje pirkote įrangą.