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Canon

MULTIMEDIA PROJECTOR

LV-7245 / LV-7240 / LV-X5

User's Manual



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THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

E
English

Important Information

Safety Cautions

Precautions

Please read this manual carefully before using your Canon LV-7245/LV-7240/LV-X5 projector and keep the manual handy for future reference. Your serial number is located on the bottom of your projector. Record it here:

CAUTION



To turn off main power, be sure to remove the plug from power outlet.
The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.

CAUTION



TO PREVENT SHOCK, DO NOT OPEN THE CABINET.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns the user that uninsulated voltage within the unit may be sufficient to cause electrical shock. Therefore, it is dangerous to make any kind of contact with any part inside of the unit.



This symbol alerts the user that important information concerning the operation and maintenance of this unit has been provided.
The information should be read carefully to avoid problems.

WARNING: TO PREVENT FIRE OR SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.
DO NOT USE THIS UNIT'S PLUG WITH AN EXTENSION CORD OR IN AN OUTLET UNLESS ALL THE PRONGS CAN BE FULLY INSERTED.
DO NOT OPEN THE CABINET. THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. ALL SERVICING MUST BE DONE BY QUALIFIED SERVICE PERSONNEL.

Acoustic Noise Information Ordinance-3. GSGV (for Germany only):

The sound pressure level is less than 70 dB (A) according to ISO 3744 or ISO 7779.

CAUTION



Avoid displaying stationary images for a prolonged period of time.
Doing so can result in these images being temporarily sustained on the surface of the LCD panel.
If this should happen, continue to use your projector. The static background from previous images will disappear.

CAUTION



Do not put the projector on its side when the lamp is turned on.
Doing so may cause damage to the projector.

WARNING TO CALIFORNIA RESIDENTS:

Handling the cables supplied with this product, will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

NOTE FOR CUSTOMERS IN THE US

(Hg) LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RE-CYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS.

Federal Communication Commission Notice

Multimedia Projector, Model : LV-7245E, LV-7245U, LV-7240E, LV-7240U, LV-X5E and LV-X5U

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

The cable with the ferrite core provided with the projector must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A., Inc.

One Canon Plaza, Lake Success, NY 11042, U.S.A.

Tel No. (516)328-5600

Canadian Radio Interference Regulations

This Class B digital apparatus complies with Canadian ICES-003.

Réglementation canadienne sur les interférences radio

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



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LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure mercury lamp which must be handled carefully and properly as mentioned below.

- A lamp may explode with a loud sound or burn out due to a shock, scratch, or expiration of lifetime.
- The lamp life may differ from lamp to lamp and according to the environment of use. There is not guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.
- A lamp gradually becomes darker with time of use.
- If the projector indicates that the lamp should be replaced (i.e., the LAMP REPLACE indicator blinks red rapidly), chances of explosion become higher. Replace the lamp with a new one immediately.
- Always keep your face away from the exhaust vent so that you do not suffer from the gas and broken shards of the lamp.



IF A LAMP EXPLODES

If a lamp explodes, the gas and broken shards may scatter inside the projector and they may come out of the exhaust vent. The gas contains toxic mercury.

Open windows and doors for ventilation.

If you inhale the gas or the shards of the broken lamp enter your eyes or mouth, consult the doctor immediately.

If a lamp explodes, its shards may scatter inside the projector. Ask the Canon service representative to clean and check the inside of the projector and replace the lamp.



DISPOSAL OF WASTE LAMP

Dispose of the mercury lamp of the projector according to the local regulation just like the fluorescent lamp.

For UK only: In UK, a BS approved power cord with moulded plug has a Black (five Amps) fuse installed for use with this equipment. If a power cord is not supplied with this equipment please contact your supplier.

Important Safeguards

These safety instructions are to ensure the long life of your projector and to prevent fire and shock. Please read them carefully and heed all warnings.

Installation

1. For best results, use your projector in a darkened room.
2. Place the projector on a flat, level surface in a dry area away from dust and moisture.
3. Do not place your projector in direct sunlight, near heaters or heat radiating appliances.
4. Exposure to direct sunlight, smoke or steam can harm internal components.
5. Handle your projector carefully. Dropping or jarring can damage internal components.
6. Do not place heavy objects on top of the projector.
7. If you wish to have the projector installed on the ceiling:
 - a. Do not attempt to install the projector yourself.
 - b. The projector must be installed by qualified technicians in order to ensure proper operation and reduce the risk of bodily injury.
 - c. In addition, the ceiling must be strong enough to support the projector and the installation must be in accordance with any local building codes.
 - d. Please consult your dealer for more information.

Do Not Use in the Following Environments

Do not install the projector in a humid or dusty place or a place where there is much oily smoke or cigarette smoke. Optical parts such as a lens and mirror are stained, resulting in poor picture.

Do not use the projector in a place where the temperature becomes very high or low.

Operating temperature: +5°C to +35°C Storage temperature: -10°C to +50°C

Place the projector in a horizontal position

The tilt angle of the projector should not exceed 10 degrees, nor should the projector be installed in any way other than the desktop and ceiling mount, otherwise lamp life could decrease dramatically.



Fire and Shock Precautions

Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the build-up of heat inside your projector. Allow at least 1 m (3.3') of space between your projector and a wall.

2. Prevent foreign objects such as paper clips and bits of paper from falling into your projector.

Do not attempt to retrieve any objects that might fall into your projector. Do not insert any metal objects such as a wire or screwdriver into your projector. If something should fall into your projector, disconnect it immediately and have the object removed by a qualified service personnel.
3. Do not place any liquids on top of your projector.
4. Do not look into the lens while the projector is on. Serious damage to your eyes could result.
5. Keep any items such as magnifying glass out of the light path of the projector. The light being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause unpredictable outcome such as fire or injury to the eyes.

6. Do not cover the lens with the supplied lens cap or equivalent while the projector is on. Doing so can lead to melting of the cap and possibly burning your hands due to the heat emitted from the light output.
7. Do not place any objects, which are easily affected by heat, in front of the projector lens or a projector exhaust vent.
Doing so could lead to the object melting or getting your hands burned from the heat that is emitted from the light output and exhaust.
8. The projector is designed to operate on a power supply of 100-240V AC 50/60 Hz. Ensure that your power supply fits this requirement before attempting to use your projector.
9. Handle the power cord carefully and avoid excessive bending.
A damaged cord can cause electric shock or fire.
10. If the projector is not to be used for an extended period of time, disconnect the plug from the power outlet.
11. Do not touch the power plug during a thunderstorm. Doing so can cause electrical shock or fire.
12. Do not handle the power plug with wet hands.
13. Remote Control Precautions
 - Handle the remote control carefully.
 - If the remote control gets wet, wipe it dry immediately.
 - Avoid excessive heat and humidity.
 - If you will not be using the remote control for a long time, remove the batteries.
 - Do not place the batteries upside down.
 - Do not use new and old batteries together, or use different types of batteries together.
 - Dispose of used batteries according to your local regulations.

CAUTION

- Do not try to touch the ventilation outlet on the left side (when seen from the front) as it can become heated while the projector is turned on.
- Do not use the tilt-foot for purposes other than originally intended. Misuses such as gripping the tilt-foot or hanging on the wall can cause damage to the projector.
- When carrying the projector by the carrying handle, make sure the two screws that attach the carrying handle to the projector cabinet are tight. (LV-7245/LV-7240 only)
Insufficient tightening of the two screws could result in the projector falling and causing injury.
- Do not send the projector in the soft carrying case by parcel delivery service or cargo shipment. The projector inside the soft carrying case could be damaged.
- Select [High] in Fan mode if you continue to use the projector for consecutive days. (From the menu, select [Advanced settings] → [Fan mode] → [High].) Fan noise increases noticeably in High mode.
- Do not unplug the power cord from the wall outlet under any one of the following circumstances.
Doing so can cause damage to the projector:
 - * While the Hour Glass icon appears.
 - * While the cooling fans are running. (The cooling fans continue to work for 30 seconds after the projector is turned off).

While the lamp is lit.

Lamp Replacement

- To replace the lamp, follow all instructions provided on page 49.
- Be sure to replace the lamp when the message **"Replace with the new lamp."** appears. If you continue to use the lamp after the lamp has reached the end of its usable life, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury.
If this happens, contact your dealer for lamp replacement.
- Allow a minimum of 30 seconds to elapse after turning off the projector. Then turn off the main power switch, disconnect the power cord and allow 60 minutes to cool the projector before replacing the lamp.

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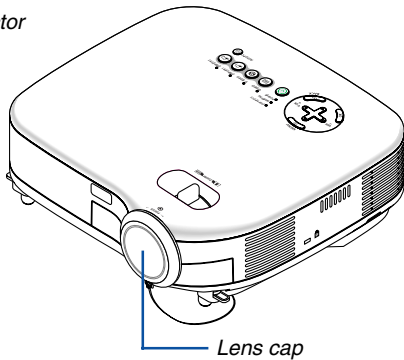
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1. Introduction

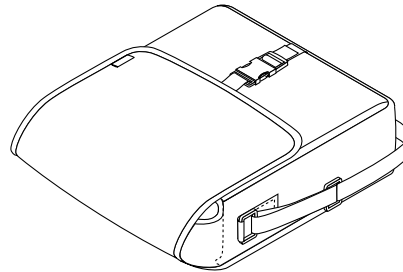
① What's in the Box?

Make sure your box contains everything listed. If any pieces are missing, contact your dealer.
Please save the original box and packing materials if you ever need to ship your projector.

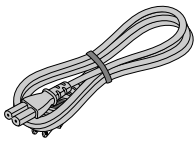
Projector



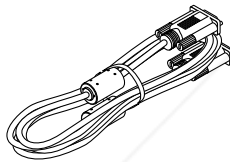
Lens cap



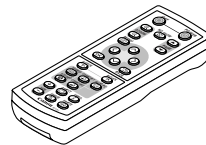
Soft case



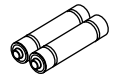
AC power cord



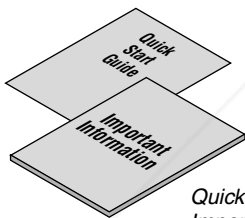
VGA cable



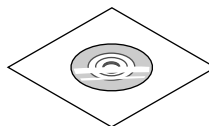
Remote control



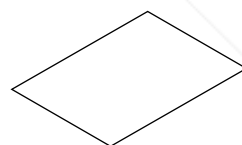
Batteries (AAA×2)



Quick Start Guide
Important Information



CD-ROM
User's manual



Warranty

For LV-7245/LV-7240 only



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Remote mouse receiver

Carrying handle
Screw (M4×2)
Flathead screwdriver

② Introduction to the Projector

This section introduces you to your new projector and describes the features and controls.

Congratulations on Your Purchase of The Projector

The LV-7245/LV-7240/LV-X5 is one of the very best projectors available today. The projector enables you to project precise images up to 300 inches across (measured diagonally) from your PC or Macintosh computer (desktop or notebook), VCR, DVD player, document camera, or a laser disc player.

You can use the projector on a tabletop or cart, from behind a screen, or permanently mounted on a ceiling*¹. The remote control can be used wirelessly.

*¹ Do not attempt to mount the projector on a ceiling yourself.

The projector must be installed by qualified technicians in order to ensure proper operation and reduce the risk of bodily injury.

In addition, the ceiling must be strong enough to support the projector and the installation must be in accordance with any local building codes. Please consult your dealer for more information.

Features you'll enjoy:

- Auto vertical keystone correction up to ± 30 degrees
- Built-in Screen color presets provide for adaptive color correction when projecting onto non-white screen material
- Quick Start & Quick Shutoff

The quick start & quick shutoff function means you can set up or put away the projector without delay.

Nine seconds after turning on the power, the projector is ready to display PC or video images.

When you're finished, the fans stop in 30 seconds after turning off the power, so you can put away the projector quickly after the conference or class.

- Low level operation noise
- Short focal length lens
- 130W lamp (110W Quiet mode) : LV-X5
180W lamp (150W Quiet mode) : LV-7240
190W lamp (150W Quiet mode) : LV-7245
- Direct keys for source selection
- New Color Management system
- New menu design improves operation
- Safety protect by Password function
Password feature prevents the projector from being used by unauthorized individuals.
Password prevents unauthorized individuals from changing projector settings or adjustments.
- Intelligent pixel blending technology - an extremely accurate image compression technology - offers a crisp image with UXGA (1600 \times 1200) resolution*²

Supports most IBM VGA, SVGA, XGA, SXGA/UXGA (with scaling technology)*², Macintosh, component signal (YCbCr/YPbPr) or any other RGB signals within a horizontal frequency range of 24 to 100 kHz and a vertical frequency range of 50 to 120 Hz. This includes NTSC, PAL, PAL-N, PAL-M, PAL60, SECAM and NTSC4.43 standard video signals.

*² A UXGA (1600 \times 1200) and SXGA image (1280 \times 1024) are displayed with scaling technology.

NOTE: Composite video standards are as follows:

NTSC: U.S. TV standard for video in U.S. and Canada.

PAL: TV standard used in Western Europe.

PAL-N: TV standard used in Argentina, Paraguay and Uruguay.

PAL-M: TV standard used in Brazil.

PAL60: TV standard used for NTSC playback on PAL TVs.

SECAM: TV standard used in France and Eastern Europe.

NTSC4.43: TV standard used in Middle East countries.

- You can use the supplied wireless remote control and remote mouse receiver to operate your PC mouse wireless from across the room. The remote mouse receiver supports almost any PC using a USB connection (LV-7245/LV-7240).
- You can control the projector with a PC or control system using the PC Control port.
- The contemporary cabinet design is light, compact, easy to carry, and complements any office, boardroom or auditorium.

About this user's manual

The fastest way to get started is to take your time and do everything right the first time. Take a few minutes now to review the user's manual. This may save you time later on. At the beginning of each section of the manual you'll find an overview. If the section doesn't apply, you can skip it.

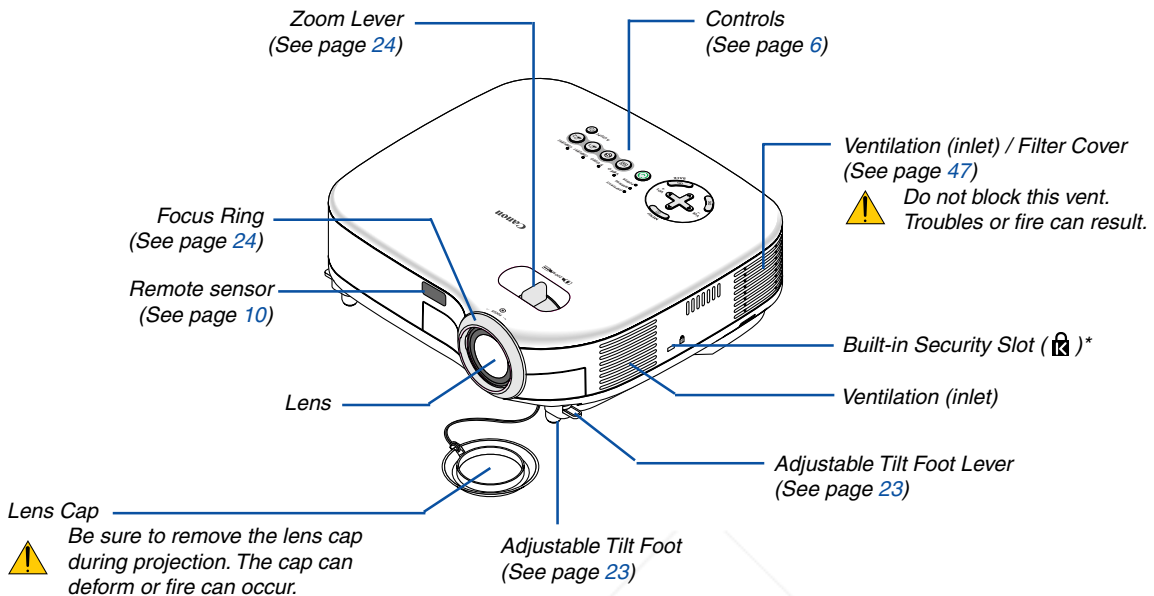
- IBM is a trademark or registered trademark of International Business Machines Corporation.
- Mac and PowerBook are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.
- Windows, Windows 98, Windows Me, Windows XP or Windows 2000 are trademarks or registered trademarks of Microsoft Corporation.
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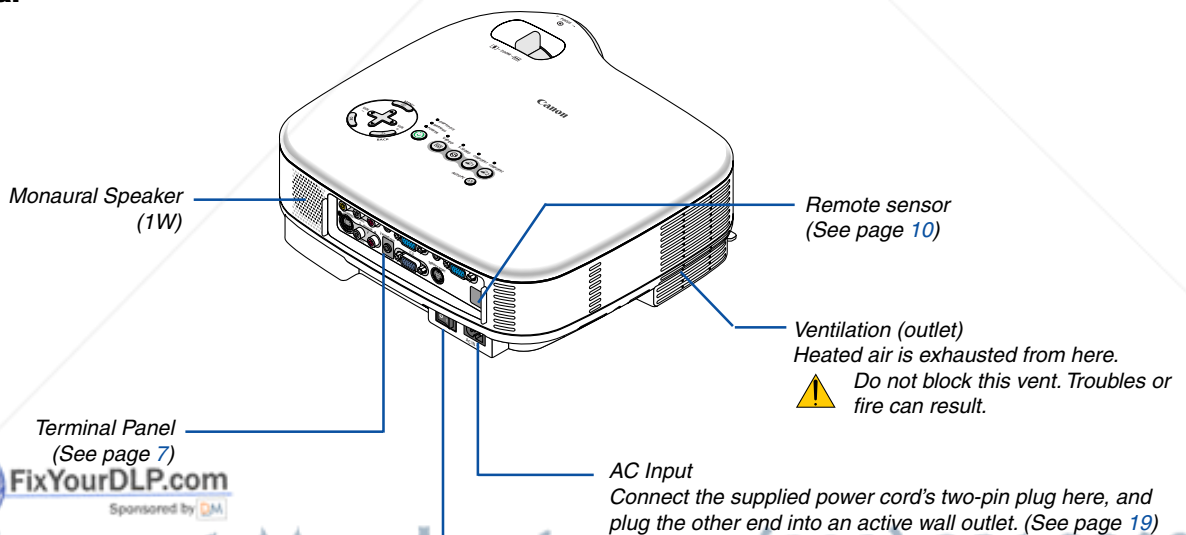
③ Part Names of the Projector

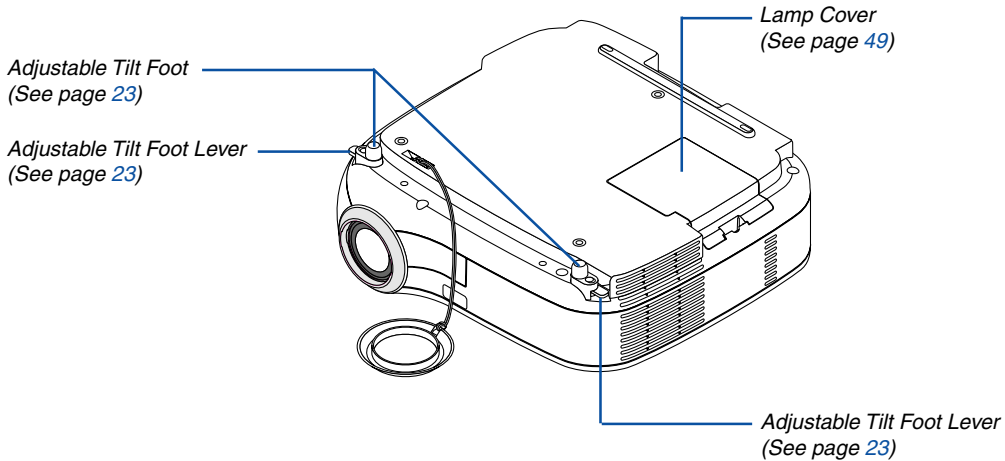
Front/Top



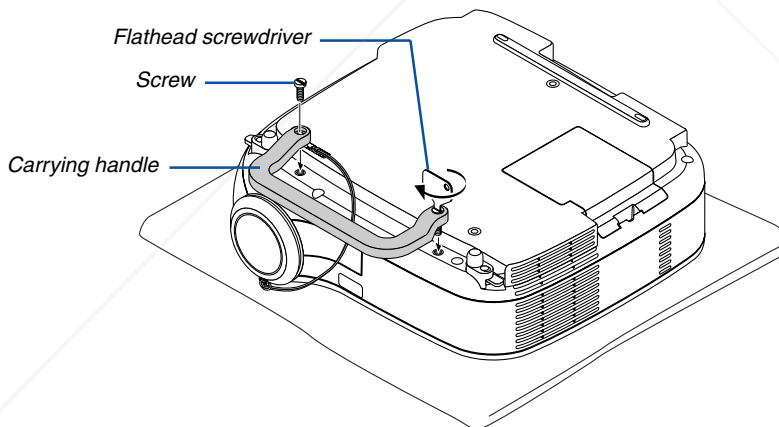
* This security slot supports the MicroSaver® Security System. MicroSaver® is a registered trademark of Kensington Microware Inc. The logo is trademarked and owned by Kensington Microware Inc.

Rear



Bottom**For LV-7245/LV-7240 only****Attaching the supplied carrying handle**

You can carry the projector by attaching the supplied carrying handle securely to the projector. To attach the supplied carrying handle, use the supplied flathead screwdriver and two screws. Place a soft cloth on the working surface before turning the projector over to prevent scratching the top cover. Make sure that the carrying handle is attached with correct orientation as shown below.

**CAUTION**

When carrying the projector by the carrying handle, make sure the two screws that attach the carrying handle to the projector cabinet are tight.

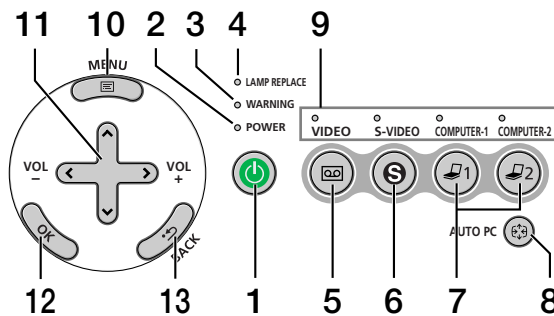


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Top Features



1. POWER Button ()

Use this button to turn the power on and off when the main power is supplied and the projector is in standby mode.

To turn on the projector, press and hold this button for a minimum of two seconds. To turn off the projector, press this button twice.

2. POWER Indicator

When this indicator is green, the projector is on; when this indicator is orange, it is in standby mode. See the Power Indicator section on page 52 for more details.

3. WARNING Indicator

If this light blinks red rapidly, it indicates that an error has occurred, the lamp cover is not attached properly or the projector has overheated. If this light remains orange, it indicates that you have pressed a cabinet key while the Key lock is enabled. See the WARNING Indicator section on page 52 for more details.

4. LAMP REPLACE Indicator

If this light blinks red rapidly, it's warning you that the lamp has reached the end of its usable life. After this light appears, replace the lamp as soon as possible (See page 49). If this is lit green continually, it indicates that the lamp mode is set to Quiet. See the Lamp Indicator section on page 52 for more details.

5. VIDEO Button

Press this button to select a video source from a VCR, DVD player, laser disc player or document camera.

6. S-VIDEO Button

Press this button to select an S-Video source from a VCR, DVD player, laser disc player or document camera.

7. COMPUTER-1 and -2 Buttons

Press this button to select an RGB source from computer or component equipment connected to your ANALOG IN-1 or -2 port.

8. AUTO PC Button

Use this button to adjust an RGB source for an optimal picture (See page 27).

9. Source Indicators

When one of the ANALOG IN-1/-2, VIDEO or S-VIDEO input is selected, the corresponding source indicator lights.

10. MENU Button

Displays the menu.

11. SELECT () / VOL (+/-) Buttons

◀▶ : Use these buttons to select the menu of the item you wish to adjust.

⏏ : Use these buttons to change the level of a selected menu item. A press of the ⏏ button executes the selection. When no menus appear, these buttons work as a volume control.

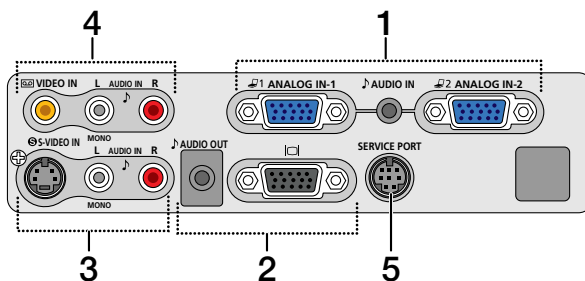
12. OK Button

Executes your menu selection and activates items selected from the menu.

13. BACK Button

Pressing this button will return to the previous menu. While you are in the main menu, pressing this button will close the menu.

Terminal Panel Features



1. ANALOG IN-1 and -2 / Component Input Connector (Mini D-Sub 15 Pin)

Connect your computer or other analog RGB equipment such as IBM compatible or Macintosh computers. Use the supplied RGB cable to connect to your computer. This also serves as a component input connector that allows you to connect a component video output of component equipment such as a DVD player. This connector also supports Scart output signal. See page 15 for more details.

AUDIO IN Mini Jack (Stereo Mini)

This is where you connect the audio output from your computer or DVD player when connected to the COMPUTER input. A commercially available audio cable is required.

2. MONITOR OUT Connector (Mini D-Sub 15 Pin)

You can use this connector to loop your computer image to an external monitor from the RGB input source.

This connector outputs RGB signal in standby mode.

AUDIO OUT Mini Jack (Stereo Mini)

You can use this jack to output sound from the currently selected source (COMPUTER, VIDEO or S-VIDEO). Output sound level can be adjusted in accordance with the sound level of the internal speaker.

Note that this cannot be used as a headphone jack. (When audio equipment is connected, the projector speaker is disabled.)

When a cable mini-plug is inserted into this jack, both the right and left audio signals are not mixed, but separate.

For example, when a cable mini-plug is inserted into the left AUDIO IN jack only, only left sound is output.

3. S-VIDEO IN Connector (Mini DIN 4 Pin)

Here is where you connect the S-Video input from an external source like a VCR.

NOTE: S-Video provides more vivid color and higher resolution than the traditional composite video format.

S-VIDEO AUDIO Input Jacks L/R (RCA)

These are your left and right channel audio inputs for stereo sound from an S-Video source.

4. VIDEO IN Connector (RCA)

Connect a VCR, DVD player, laser disc player, or document camera here to project video.

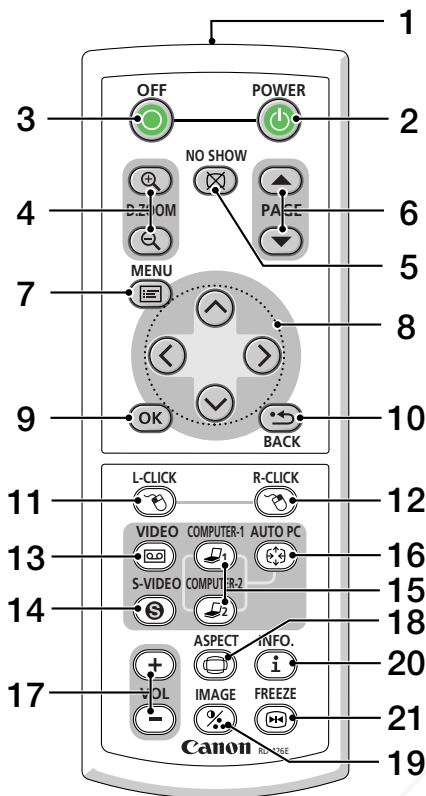
VIDEO AUDIO Input Jacks L/R (RCA)

These are your left and right channel audio inputs for stereo sound from a Video source.

5. SERVICE PORT (DIN 8 Pin)

Use this port to connect a PC or control system to control the projector via an optional RS-232C serial cable (LV-CA34). If you are writing your own program, typical PC control codes are on page 60.

4 Part Names of the Remote Control



NOTE: If you are using a Macintosh computer, you can click either the MOUSE R-CLICK or MOUSE L-CLICK button to activate the mouse.

1. Infrared Transmitter

Direct the remote control toward the remote sensor on the projector cabinet.

2. POWER Button

When the main power is on, you can use this button to turn your projector on.

NOTE: To turn on the projector, press and hold the POWER button for a minimum of two seconds.

OFF Button

You can use this button to turn your projector off.

NOTE: To turn off the projector, press the OFF button twice.

4. D. ZOOM (+) (-) Button

Use this button to adjust the image size up to 400%. The image is magnified about the center of the screen. See page 29.

5. NO SHOW Button

This button turns off the image and sound for a short period of time. Press again to restore the image and sound.

6. PAGE ▲/▼ Button (Not available on LV-X5)

Use these buttons to operate your computer with the supplied remote mouse receiver. See page 30. You can use these buttons to scroll the viewing area of the window or to move to the previous or next slide in PowerPoint on your computer.

7. MENU Button

Displays the menu for various settings and adjustments.

8. SELECT (four arrows) (Mouse) Button

◀▶: Use these buttons to select the menu of the item you wish to adjust.

◂◃: Use these buttons to change the level of a selected menu item. A press of the ▶ button executes the selection.

When an image is magnified, the SELECT (four arrows) button moves the image. See page 29.

9. OK Button

Use this button to enter your menu selection. It works the same way as the OK button on the cabinet. See page 6.

10. BACK Button

It works the same way as the BACK button on the cabinet. See page 6.

11. MOUSE L-CLICK Button (Not available on LV-X5)

This button works as the mouse left button when the supplied remote mouse receiver is connected with your computer. See page 30.

12. MOUSE R-CLICK Button (Not available on LV-X5)

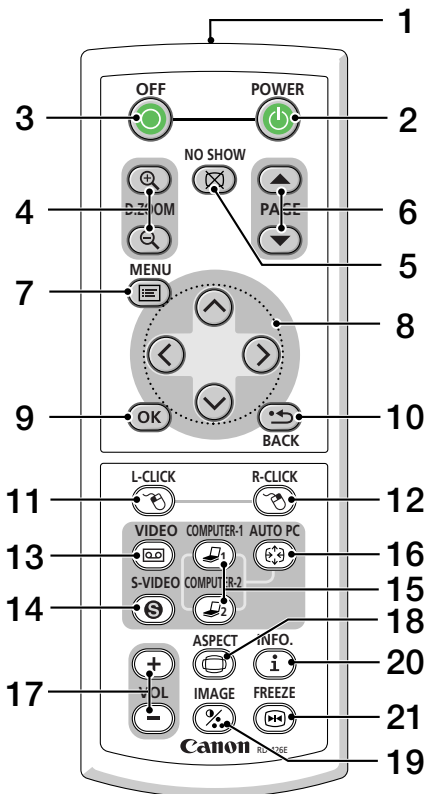
This button works as the mouse right button when the supplied remote mouse receiver is connected with your computer. See page 30.

13. VIDEO Button

Press this button to select a video source from a VCR, DVD player, laser disc player or document camera.

14. S-VIDEO Button

Press this button to select an S-Video source from a VCR or DVD player.



20. INFO. Button

Provides the information on the current signal and projector settings. See page 45.

21. FREEZE Button

This button will freeze a picture. Press again to resume motion.

15. COMPUTER-1/-2 Button

Press this button to select COMPUTER-1 or -2 (or Component) input.

16. AUTO PC Button

Use this button to adjust an RGB source for an optimal picture.
See page 27.

17. VOL (+) (-) Button

Press (+) to increase the volume and (-) to decrease it.

18. ASPECT Button

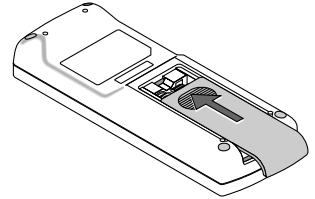
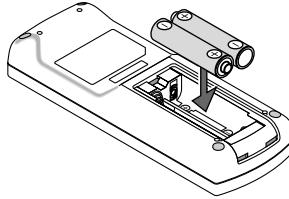
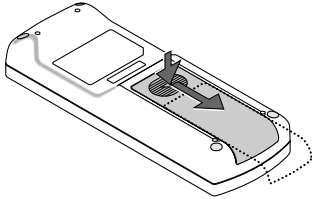
Press this button once to display the Aspect select menu. Keep pressing will change aspect ratios. See page 38.

19. IMAGE Button

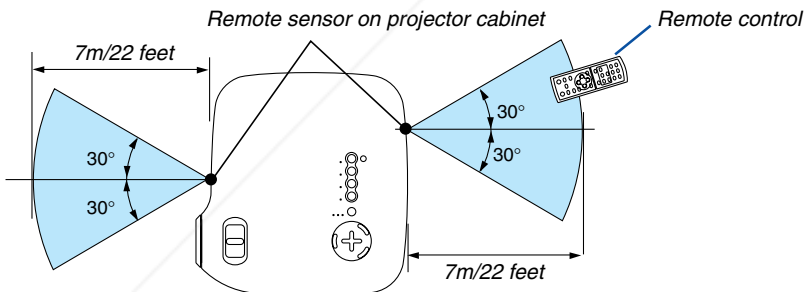
Press this button to display the Image adjustment menu to adjust Screen color, Image mode, Brightness, Contrast, Sharpness, Color and Color balance. See pages 36 to 37.

Battery Installation

- 1** Press firmly and slide the battery cover off.
- 2** Remove both old batteries and install new ones (AAA). Ensure that you have the batteries' polarity (+/-) aligned correctly.
- 3** Slip the cover back over the batteries until it snaps into place. Do not mix different types of batteries or new and old batteries.

**Remote Control Precautions**

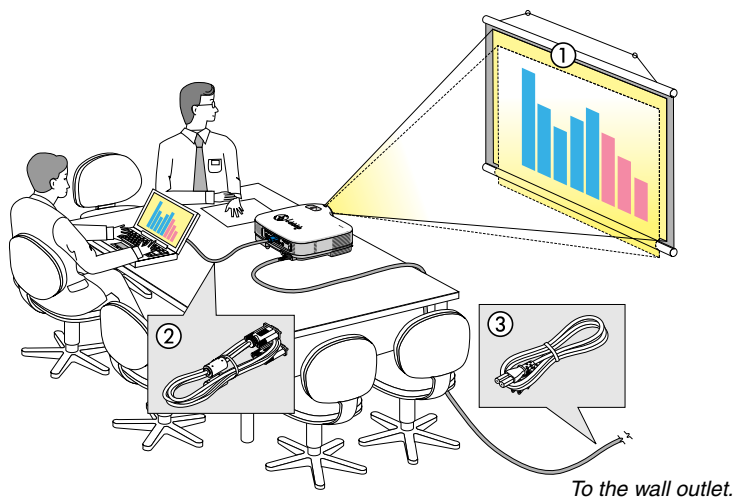
- Handle the remote control carefully.
- If the remote control gets wet, wipe it dry immediately.
- Avoid excessive heat and humidity.
- If you will not be using the remote control for a long time, remove the batteries.
- Do not place the batteries upside down.
- Do not use new and old batteries together, or use different types of batteries together.
- Dispose of used batteries according to your local regulations.

Operating Range for Wireless Remote Control

- The infrared signal operates by line-of-sight up to a distance of about 7 m (22 feet) and within a 60-degree angle of the remote sensor on the projector cabinet.
- The projector will not respond if there are objects between the remote control and the sensor, or if strong light falls on the sensor. Weak batteries will also prevent the remote control from properly operating the projector.

2. Installation and Connections

This section describes how to set up your projector and how to connect video and audio sources.



Your projector is simple to set up and use. But before you get started, you must first:

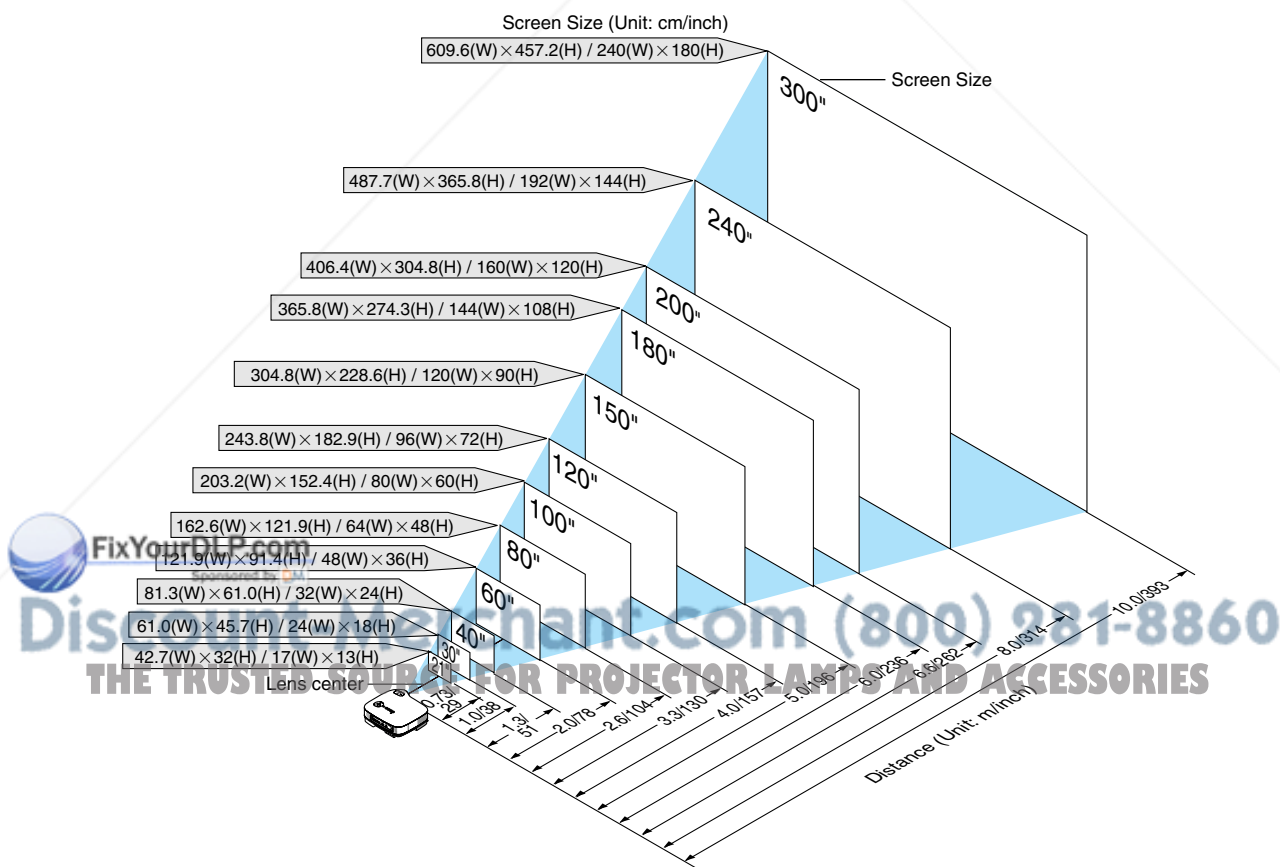
- 1 Set up a screen and the projector.
- 2 Connect your computer or video equipment to the projector. See pages 14 to 18.
- 3 Connect the supplied power cord. See page 19.

NOTE: Ensure that the power cord and any other cables are disconnected before moving the projector. When moving the projector or when it is not in use, cover the lens with the lens cap.

1 Setting Up the Screen and the Projector

Selecting a Location

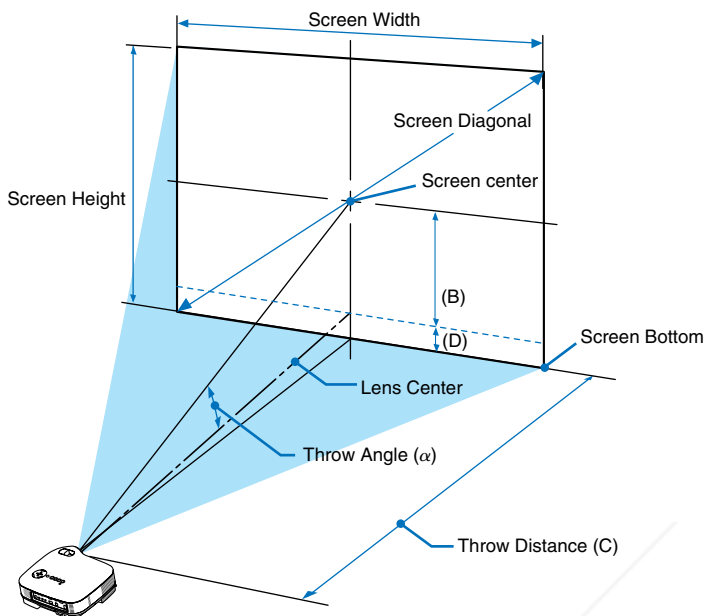
The further your projector is from the screen or wall, the larger the image. The minimum size the image can be is approximately 21" measured diagonally when the projector is roughly 0.73 m (29 inches) from the wall or screen. The largest the image can be is 300" when the projector is about 10 m (393 inches) from the wall or screen. Use the drawing below as a guide.



Throw Distance and Screen Size

The following shows the proper relative positions of the projector and screen. Refer to the table to determine the position of installation.

Distance Chart



B = Vertical distance between lens center and screen center

C = Throw distance

D = Vertical distance between lens center and bottom of screen (top of screen for ceiling application)

α = Throw angle

NOTE: Distances may vary +/-5%.

Screen Size			B	C	D	α
Diagonal	Width	Height		Wide – Tele		Wide – Tele
inch	inch	inch	inch	inch	inch	degree
21	17	13	5	— – 29	-1	— – 9.9
25	20	15	6	28 – 34	-2	12.0 – 9.8
30	24	18	7	34 – 42	-2	11.9 – 9.8
40	32	24	10	46 – 56	-2	11.7 – 9.7
60	48	36	14	70 – 85	-4	11.6 – 9.6
72	58	43	17	84 – 102	-4	11.6 – 9.6
80	64	48	19	93 – 113	-5	11.6 – 9.6
84	67	50	20	98 – 119	-5	11.6 – 9.6
90	72	54	22	105 – 128	-6	11.5 – 9.6
100	80	60	24	117 – 142	-6	11.5 – 9.6
120	96	72	29	141 – 171	-7	11.5 – 9.5
150	120	90	36	176 – 214	-9	11.5 – 9.5
180	144	108	43	212 – 257	-11	11.5 – 9.5
200	160	120	48	236 – 285	-12	11.5 – 9.5
210	168	126	50	247 – 300	-13	11.5 – 9.5
240	192	144	57	283 – 343	-15	11.5 – 9.5
270	216	162	65	319 – 386	-17	11.4 – 9.5
300	240	180	72	354 – 429	-18	11.4 – 9.5

Screen Size			B	C	D	α
Diagonal	Width	Height		Wide – Tele		Wide – Tele
mm	mm	mm	mm	mm	mm	degree
533	427	320	130	— – 730	-30	— – 9.9
635	508	381	150	720 – 870	-40	12.0 – 9.8
762	610	457	180	870 – 1060	-50	11.9 – 9.8
1016	813	610	240	1170 – 1420	-60	11.7 – 9.7
1524	1219	914	360	1770 – 2150	-90	11.6 – 9.6
1829	1463	1097	440	2130 – 2590	-110	11.6 – 9.6
2032	1626	1219	490	2370 – 2880	-120	11.6 – 9.6
2134	1707	1280	510	2490 – 3020	-130	11.6 – 9.6
2286	1829	1372	550	2670 – 3240	-140	11.5 – 9.6
2540	2032	1524	610	2970 – 3600	-160	11.5 – 9.6
3048	2438	1829	730	3580 – 4330	-190	11.5 – 9.5
3810	3048	2286	910	4480 – 5420	-230	11.5 – 9.5
4572	3658	2743	1090	5380 – 6520	-280	11.5 – 9.5
5080	4064	3048	1210	5980 – 7240	-310	11.5 – 9.5
5334	4267	3200	1270	6280 – 7610	-330	11.5 – 9.5
6096	4877	3658	1460	7190 – 8700	-370	11.5 – 9.5
6858	5486	4115	1640	8090 – 9790	-420	11.4 – 9.5
7620	6096	4572	1820	8990 – 10880	-470	11.4 – 9.5

This projector can be hung from the ceiling (Ceiling mounted) with it turned up side down.

When a translucent screen is used, the projector can project an image from behind the screen (Rear).

When the projector is hung from the ceiling or projector projects an image from behind the screen, the image must be inverted vertically or horizontally. See page 40.


• When hanging the projector from the ceiling, optional brackets (part No. LV-CL10) are required.

WARNING

- * Installing your projector on the ceiling must be done by a qualified technician. Contact your dealer for more information.
- * Do not attempt to install the projector yourself.
- Only use your projector on a solid, level surface. If the projector falls to the ground, you can be injured and the projector severely damaged.
- Do not use the projector where temperatures vary greatly. The projector must be used at temperatures between 41°F (5°C) and 95°F (35°C).
- Do not expose the projector to moisture, dust, or smoke. This will harm the screen image.

- Ensure that you have adequate ventilation around your projector so heat can dissipate. Do not cover the vents on the side or the front of the projector.

Reflecting the Image

Using a mirror to reflect your projector's image enables you to enjoy a much larger image. Contact your dealer if you need a mirror system. If you're using a mirror system and your image is inverted, use the MENU and SELECT  buttons on your projector cabinet or your remote control to correct the orientation. See page 40.



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② Making Connections

NOTE: When using with a notebook PC, be sure to connect between the projector and the notebook PC before turning on the power to the notebook PC. In most cases signal cannot be output from RGB output unless the notebook PC is turned on after connecting with the projector.

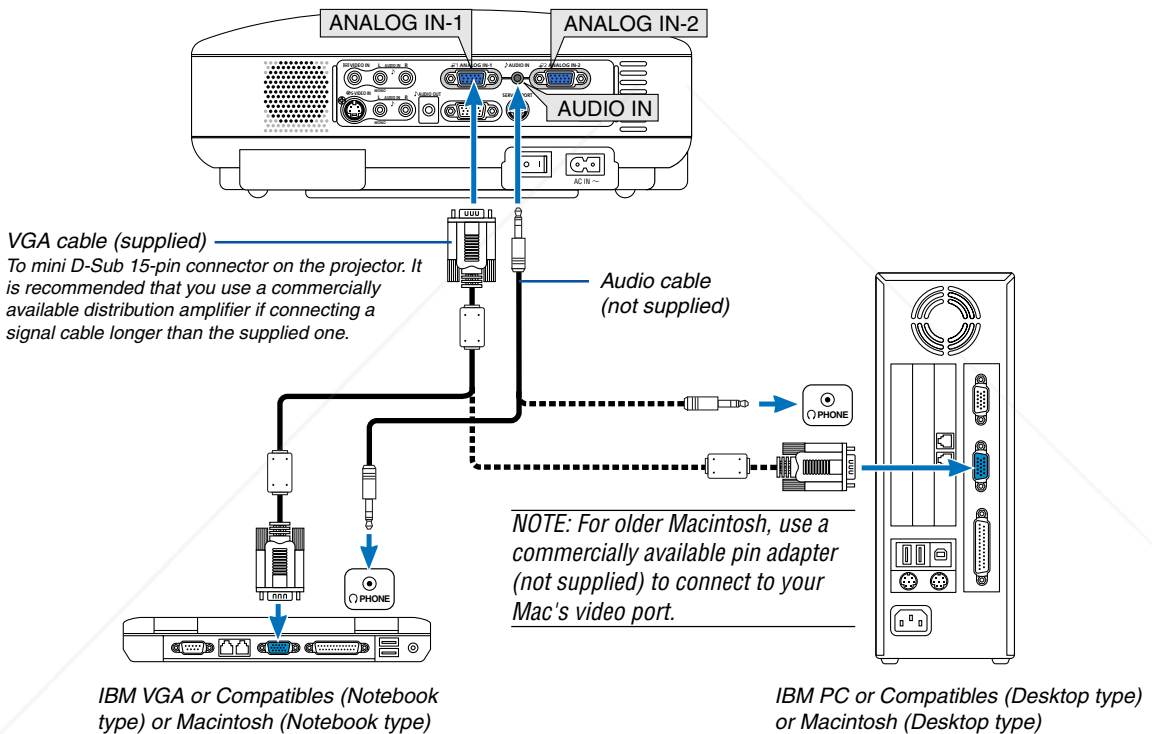
* If the screen goes blank while using your remote control, it may be the result of the computer's screen-saver or power management software.

Enabling the computer's external display

Displaying an image on the notebook PC's screen does not necessarily mean it outputs a signal to the projector. When using a PC compatible laptop, a combination of function keys will enable/disable the external display. Usually, the combination of the 'Fn' key along with one of the 12 function keys gets the external display to come on or off. For more details, refer to your computer's owner's manual.

Connecting Your PC or Macintosh Computer

NOTE: The COMPUTER 1 connector supports Plug & Play (DDC2).



Connecting your PC or Macintosh computer to your projector will enable you to project your computer's screen image for an impressive presentation.

To connect to a PC or Macintosh, simply:

1. Turn off the power to your projector and computer.
2. Use the supplied VGA cable to connect your PC or Macintosh to the projector.
3. Connect the supplied power cord. See page 19.
4. Turn on the projector and the computer.
5. If the projector goes blank after a period of inactivity, it may be caused by a screen saver installed on the computer you've connected to the projector.

NOTE: Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor turns down the sound.

2. Installation and Connections

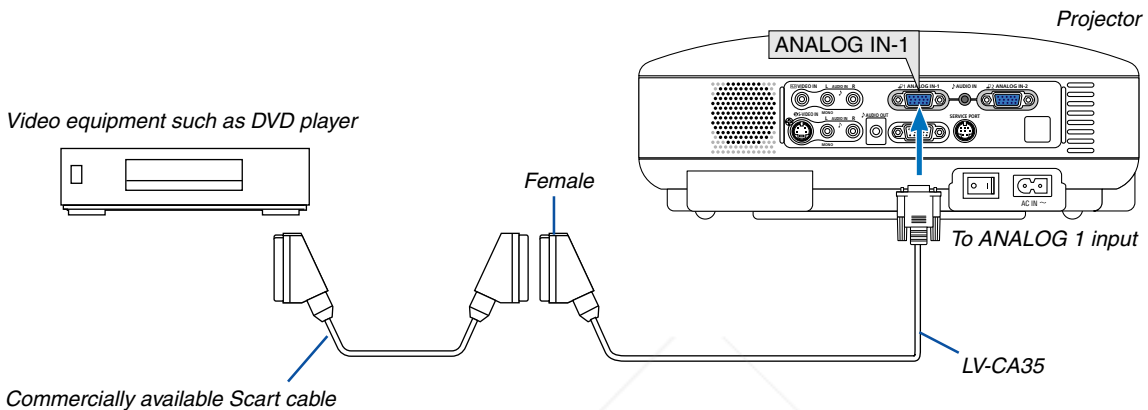
NOTE: An image may not be displayed correctly when a Video or S-Video source is played back via a commercially available scan converter.

This is because the projector will process a video signal as a computer signal at the default setting. In that case, do the following.

* When an image is displayed with the lower and upper black portion of the screen or a dark image is not displayed correctly:

Project an image to fill the screen and then press the AUTO PC button on the remote control or the projector cabinet.

To connect Scart output (RGB)



Before connections: An exclusive Scart adapter (LV-CA35) and a commercially available Scart cable are required for this connection.

NOTE: Audio signal is not available for this connection.

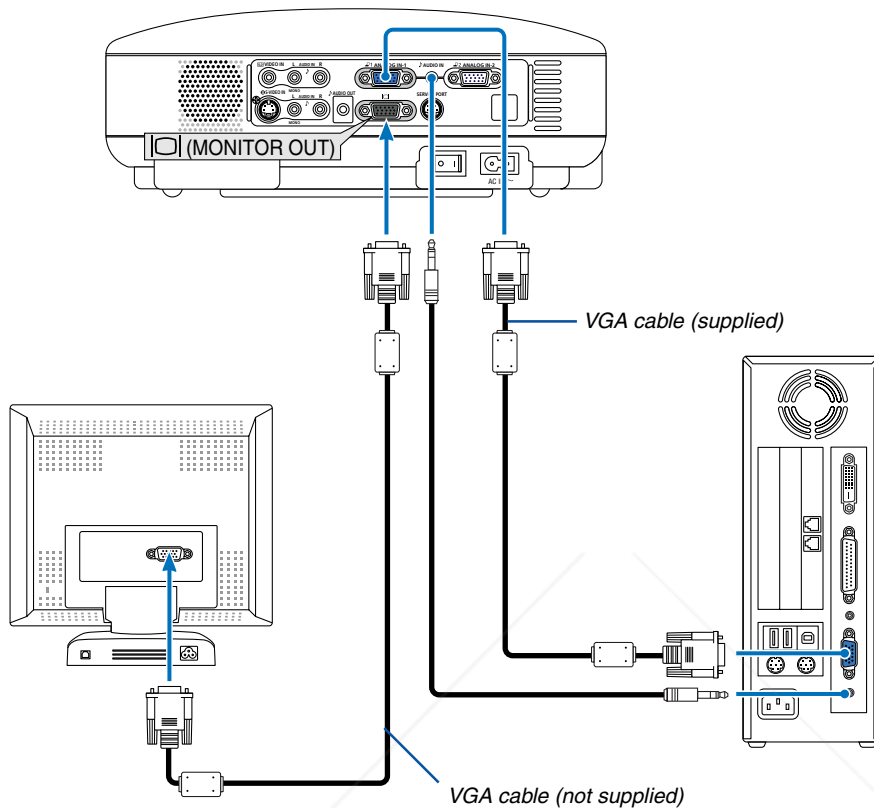
1. Turn off the power to the projector and your video equipment.
2. Use the LV-CA35 Scart adapter and a commercially available Scart cable to connect the RGB input of your projector and a Scart output (RGB) of your video equipment.
3. Connect the supplied power cord. See page 19.
4. Turn on the power to the projector and your video equipment.
5. Use the COMPUTER-1 button on the projector cabinet to select the ANALOG IN-1 input.
6. Press the MENU button on the projector cabinet to display the menu.
7. From the menu, select [Advanced settings] → [Signal select] → [Computer-1] → [Scart].
Scart is a standard European audio-visual connector for TVs, VCRs and DVD players. It is also referred to as Euro-connector.

If the LV-CA35 Scart adapter is obtainable from your dealer in Europe. Contact your dealer in Europe for more information.

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Connecting an External Monitor



You can connect a separate, external monitor to your projector to simultaneously view on a monitor the RGB analog image you're projecting.

To do so:

1. Turn off the power to your projector, monitor and computer.
2. Use an VGA cable to connect your monitor to the MONITOR OUT (Mini D-Sub 15 pin) connector on your projector.
3. Connect the supplied power cord. See page 19.
4. Turn on the projector, monitor and the computer.

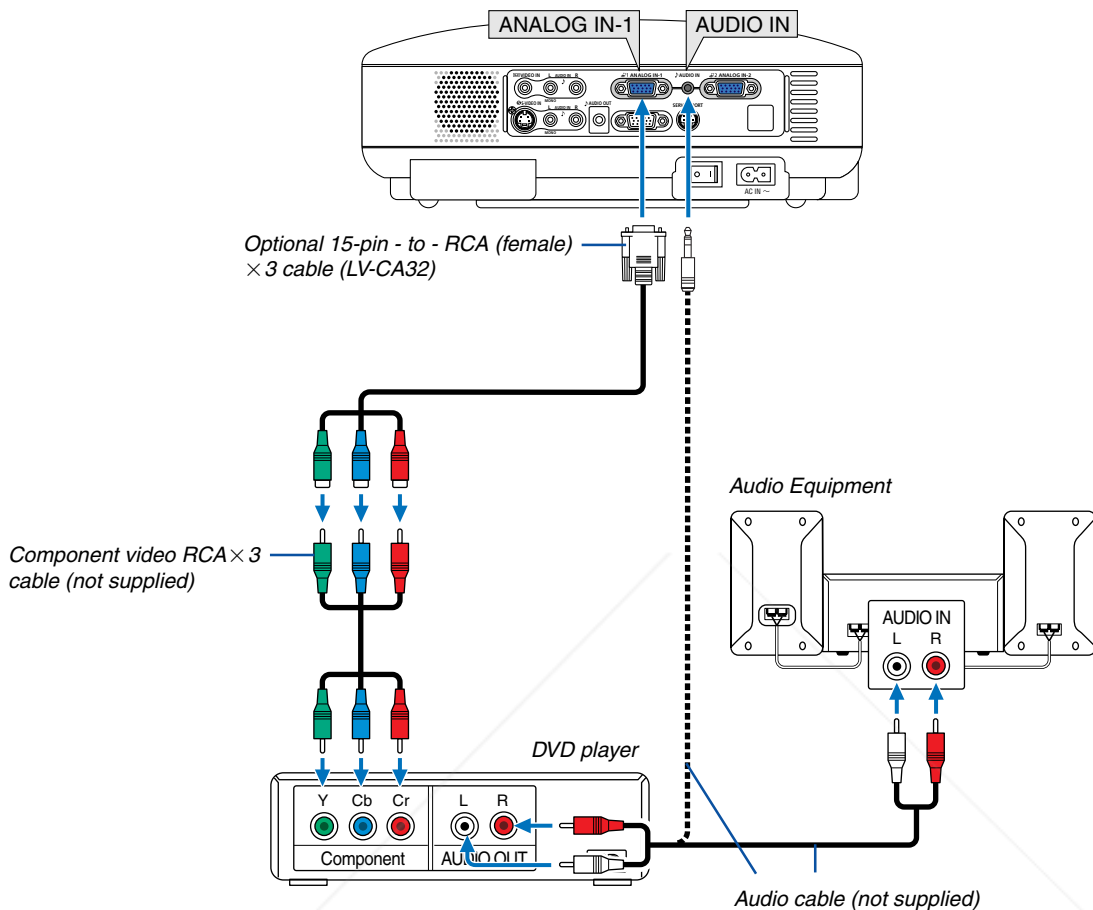
~~Display connection is not possible.~~

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NOTE: Use an audio cable without a built-in resistor. Using an audio cable with a built-in resistor turns down the sound.

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Connecting Your DVD Player with Component Output



You can connect your projector to a DVD player with component or composite video output. To do so, simply:

1. Turn off the power to your projector and DVD player.
2. If your DVD player has the component video (Y,Cb,Cr) output, use a commercially available component video cable (RCA × 3) and the optional 15-pin-to-RCA (female) × 3 cable to connect your DVD player to the ANALOG IN connector on the projector.

For a DVD player without component video (Y,Cb,Cr) output, use common RCA cables (not provided) to connect a composite VIDEO output of the DVD player to the Video Input of the projector.

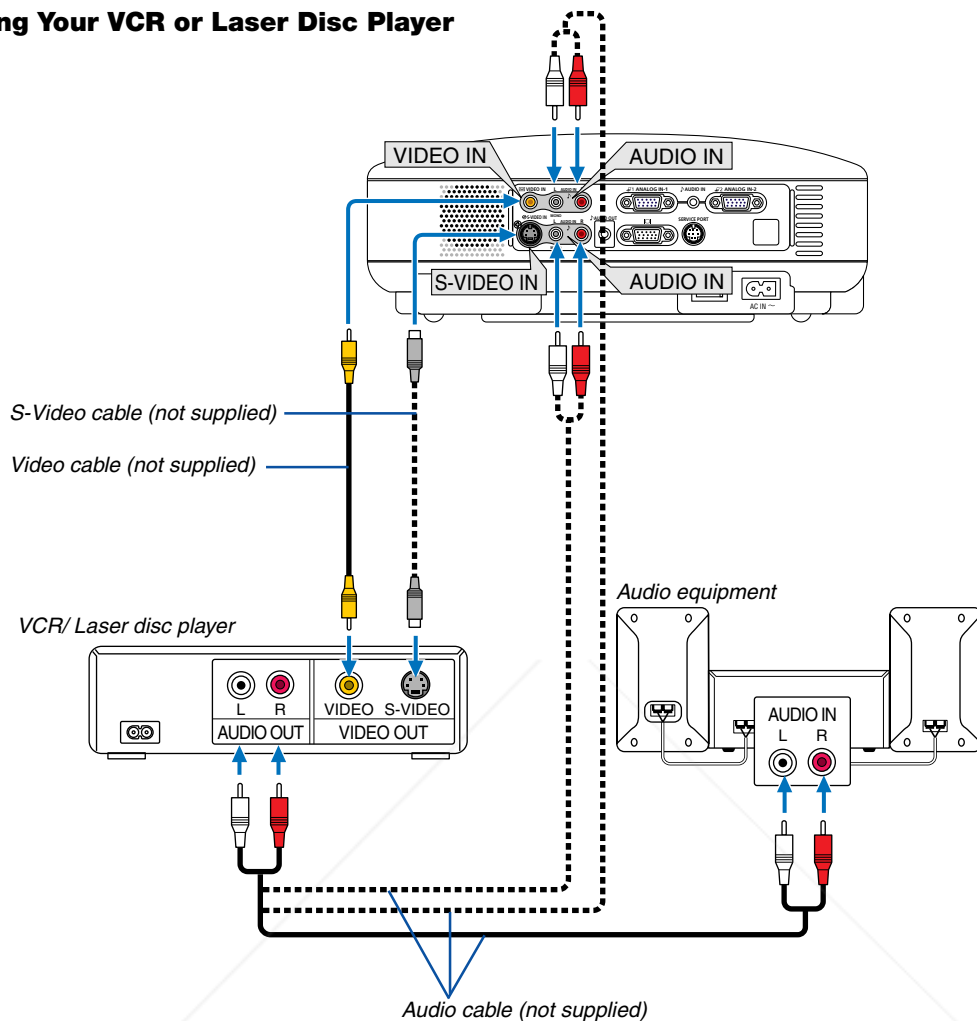
Connect the supplied power cord. See page 19.

4. Turn on the projector and DVD player.

A component signal will be automatically displayed. If not, from the menu, select [Advanced settings] → [Input signal select] → [Computer], and then place a check mark in the COMPONENT radio button.

NOTE: Refer to your DVD player's owner's manual for more information about your DVD player's video output requirements.

Connecting Your VCR or Laser Disc Player



Use an RCA or S-Video cable (not provided) to connect the video and use RCA cables (not provided) to connect the audio from your VCR, laser disc player or document camera to your projector.

To make these connections, simply:

1. Turn off the power to the projector and VCR, laser disc player or document camera.
2. Connect one end of an RCA cable to the video output (or one end of an S-Video cable to the S-Video output connector) on the back of your VCR or laser disc player, connect the other end to the appropriate video input on your projector. Connect one end of a pair RCA cables (not supplied) to the audio output on the back of your VCR or laser disc player, connect the other end to your audio equipment or to the appropriate audio input on the projector. Be careful to keep the right and left channel connections correct for stereo sound.
3. Connect the supplied power cord. See page 19.
4. Turn on the projector and the VCR or laser disc player.

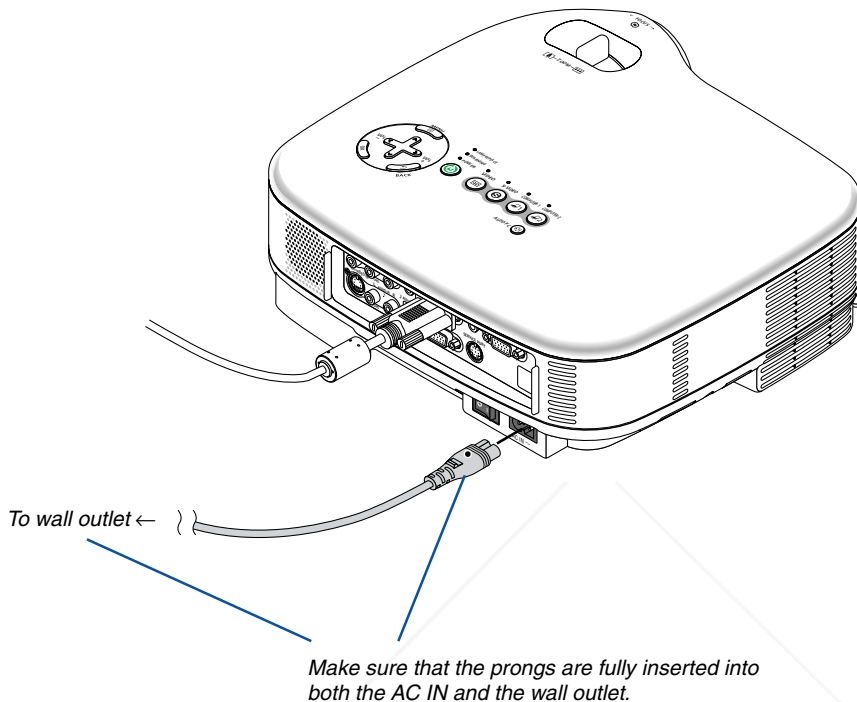
NOTE: Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.

NOTE: An image may not be displayed correctly when a Video or S-Video source is played back in fast-forward or fast-rewind via a scan converter.

Connecting the Supplied Power Cord

Connect the supplied power cord to the projector.

First connect the supplied power cord's two-pin plug to the AC IN of the projector, and then connect the other plug of the supplied power cord in the wall outlet.



CAUTION:

Do not unplug the power cord from the wall outlet under any one of the following circumstances. Doing so can cause damage to the projector:

- While the Hour Glass icon appears.
- While the cooling fans are running. The cooling fans continue to work for 30 seconds after the projector is turned off.
- While the lamp is lighted.

3. Projecting an Image (Basic Operation)

This section describes how to turn on the projector and to project a picture onto the screen.

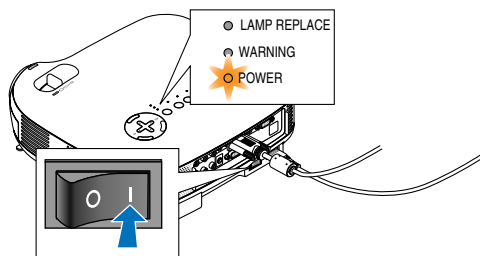
1 Turning on the Projector

NOTE:

- The projector has two power switches: a main power switch and a POWER button.
- When plugging in or unplugging the supplied power cord, make sure that the main power switch is pushed to the off (O) position. Failure to do so may cause damage to the projector.

1. To turn on the main power to the projector, press the Main Power switch to the on position (I).

- The POWER indicator will light orange.
See the Power Indicator section on page 52 for more details.



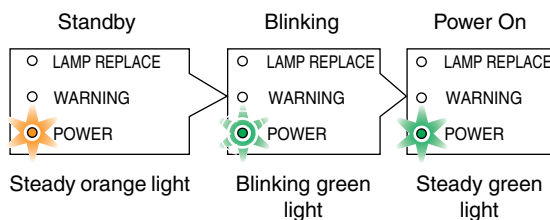
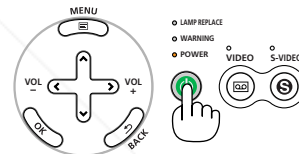
2. Press the POWER button on the projector cabinet or the POWER button on the remote control for a minimum of 2 seconds. The POWER indicator will turn to green and the projector will become ready to use.

After you turn on your projector, ensure that the computer or video source is turned on and that your lens cap is removed.

NOTE: When no signal is available, a blue, black or logo screen is displayed.

When the projector displays a blue or a black screen (not logo), the Quiet mode will be automatically selected in "Lamp Mode."

NOTE: If you turn on the projector immediately after the lamp is turned off or when the temperature is high, the fans runs without displaying an image for some time and then the projector will display the image.



See page 52 for more details.

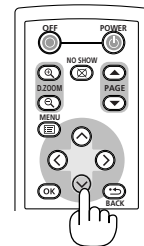
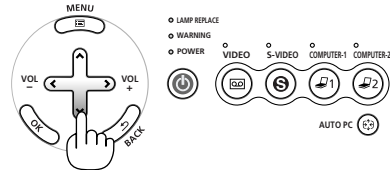
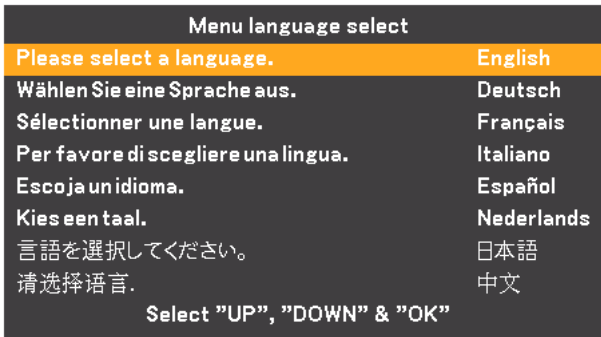
3. Projecting an Image (Basic Operation)

Note on Startup screen (Menu Language Select screen)

When you first turn on the projector, you will get the Startup menu. This menu gives you the opportunity to select one of the 8 menu languages.

To select a menu language, follow these steps:

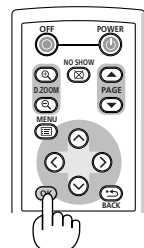
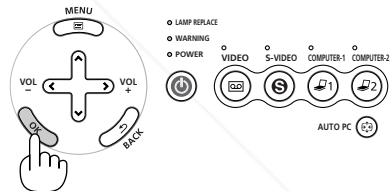
1. Use the **SELECT** (UP) or (DOWN) button to select one of the 8 languages for the menu.



2. Press the **OK** button to execute the selection.

After this has been done, you can proceed to the menu operation.

If you want, you can select the menu language later. See "Language" on pages 34 and 40.



NOTE: Immediately after turning on the projector, screen flicker may occur. This is normal. Wait 3 to 5 minutes until the lamp lighting is stabilized.

When the Lamp mode is set to Quiet, the LAMP REPLACE indicator will light green. If one of the following things happens, the projector will not turn on.

- If the internal temperature of the projector is too high, the projector will not turn on to protect the internal system. Please wait for the projector's internal components to cool down.
- When the lamp reaches its end of usable life, the projector will not turn on. If this happens, replace the lamp.
- If the lamp fails to light, and if the WARNING indicator flashes on and off in a cycle of six times, wait a full minute and then turn on the power.

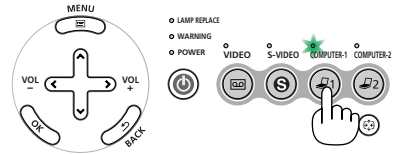
② Selecting a Source

Selecting the computer or video source

NOTE: Turn on the computer or VCR connected to the projector.

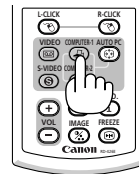
Using the cabinet buttons

Press any one of the COMPUTER-1/-2, VIDEO and S-VIDEO buttons. The corresponding indicator will light green.



Using the Remote Control

Press any one of the COMPUTER-1/-2, VIDEO or S-VIDEO buttons.

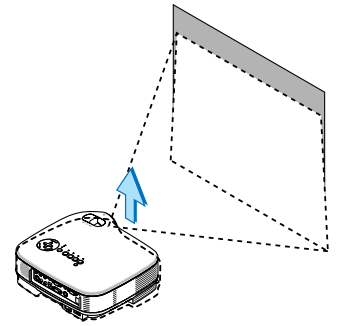


③ Adjusting the Picture Size and Position

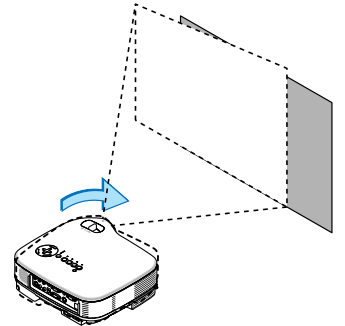
Place your projector on a flat level surface and ensure that the projector is square to the screen.

Lift the front edge of the projector to center the image vertically.

- * If the projected image does not appear square to the screen then use the Keystone feature for proper adjustment. See page 25 to 26.

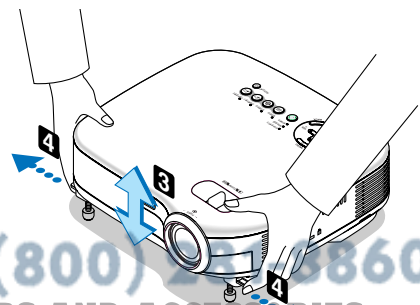
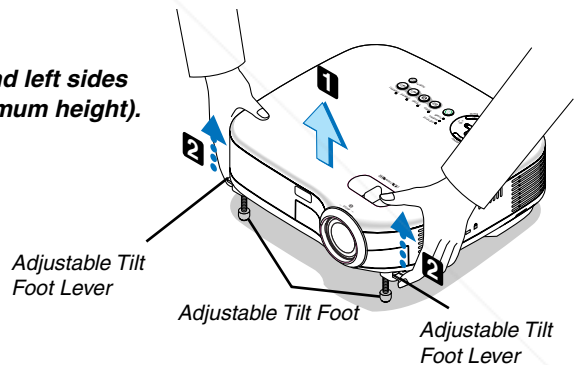


Move the projector left to center the image horizontally on the screen.



Adjust the Tilt Foot

1. Lift the front edge of the projector.
2. Push up the Adjustable Tilt Foot Levers on the right and left sides of the projector to extend the adjustable tilt feet (maximum height).
3. Push down the Adjustable Tilt Foot Levers.
4. Lower the front of the projector to the desired height and release the Adjustable Tilt Foot Lever to lock the Adjustable tilt foot. There is approximately 10 degrees of up and down adjustment for the front of the projector.



CAUTION

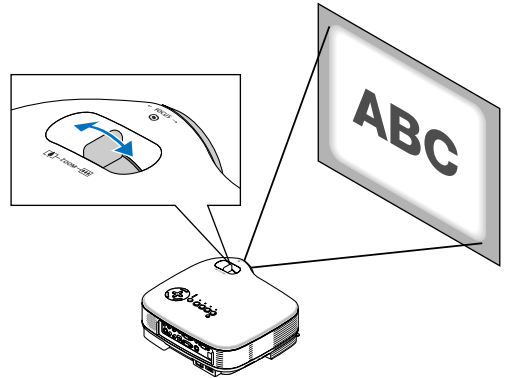
Do not use the tilt-foot for purposes other than originally intended. Misuses such as gripping the tilt-foot or hanging on the wall can cause damage to the projector.

3. Projecting an Image (Basic Operation)

Zoom

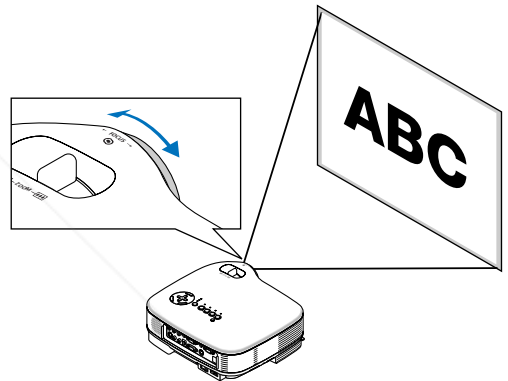
Use the ZOOM lever to finely adjust the image size on the screen.

NOTE: Digital Zoom can cause result in a blurry image because zooming is made electronically.



Focus

Use the FOCUS ring to obtain the best focus.



④ Correcting Keystone Distortion

Auto Keystone Correction

The Auto keystone correction feature will correct the vertical distortion of a projected image on the screen. No special operation required. Just put the projector on a flat surface.

Note that the vertical keystone angle can be corrected between 30 degrees upward and 30 degrees downward of projector tilt from level.



NOTE: Auto and Manual keystone correction angle could be less than 30 degrees depending on some kinds of signal and aspect ratios.

NOTE: The Auto keystone correction feature can cause an image to be slightly blurred because the correction is made electronically.

Manual Keystone Correction

You can also correct the vertical keystone distortion manually.

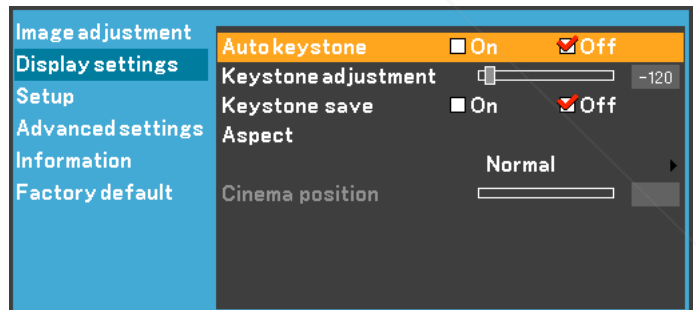
To do so:

1. Press the MENU button.

The menu will be displayed.

2. Turn off the Auto keystone function.

Use the SELECT ⏺ button to select "Display settings" and then press OK or the SELECT ⏻ button. The "Auto keystone" will be displayed. Press the SELECT ⏺ to select "Off".



3. Select the Keystone function.

Use the SELECT ⏺ button to select "Keystone adjustment".



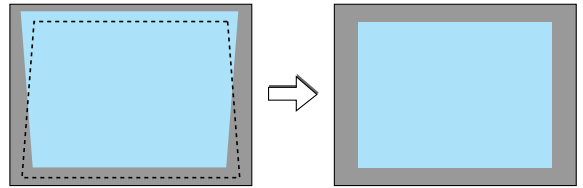
4. Correct the vertical distortion.

Use the SELECT ⏻ or ⏺ button to correct the vertical keystone distortion.

NOTE: The Keystone correction feature can cause an image to be slightly blurred because the correction is made electronically.

3. Projecting an Image (Basic Operation)

5. Press the **MENU** button to close the menu.



NOTE: You can save the changes using the Keystone Save feature when you turn off the projector. See page 38.

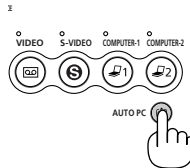
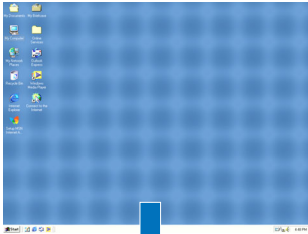
⑤ Automatically Optimizing on RGB Image

Adjusting the Image Using Auto PC adjustment

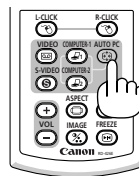
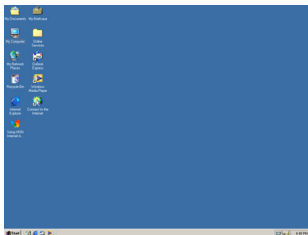
Optimizing an RGB image automatically.

Press the AUTO PC button to optimize an RGB image automatically.

[Poor picture]



[Normal picture]



Press the AUTO PC button to fine-tune the computer image or to remove any vertical banding that might appear and to reduce video noise, dot interference or cross talk (this is evident when part of your image appears to be shimmering). This function adjusts the clock frequencies that eliminate the horizontal banding in the image. This function also adjusts the clock phase to reduce video noise, dot interference or cross talk. (This is evident when part of your image appears to be shimmering.)

This adjustment may be necessary when you connect your computer for the first time.

NOTE:

Some signals may not be displayed correctly or take time.

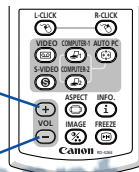
- The Auto PC adjustment function does not work for component, composite and S-video signals.
- If the Auto PC adjustment operation cannot optimize the RGB signal, try to adjust Horizontal/Vertical Position Clock and Tracking manually. See pages 44 and 45.

⑥ Turning Up or Down Volume



Increase volume

Decrease volume



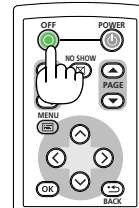
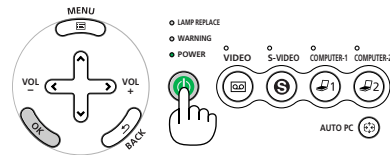
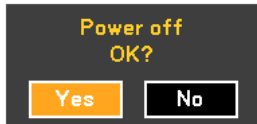
Sound level from the speaker and the AUDIO OUT jack (Stereo mini) on the projector can be adjusted.

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7 Turning off the Projector

To turn off the projector:

First, press the **POWER** button on the projector cabinet or the **OFF** button on the remote control. The “Power Off / OK?” message will appear.

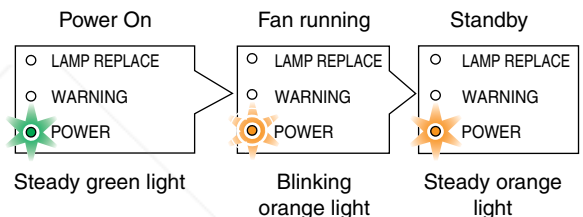


Secondly, press the **OK** button or press the **POWER** or the **OFF** button again.

The **POWER** indicator will glow orange. After the projector turns off, the cooling fans keep operating for 30 seconds (Cooling-off time).

Immediately after turning on the projector and displaying an image, you cannot turn off the projector for 60 seconds.

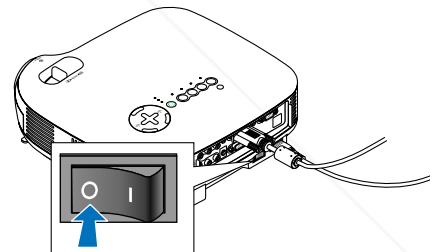
Finally, turn off the Main Power switch. The power indicator will go out.



CAUTION

Do not unplug the power cord from the wall outlet or do not turn off the main power under any one of the following circumstances. Doing so can cause damage to the projector:

- While the Hour Glass icon appears.
- While the cooling fans are running. (The cooling fans continue to work for 30 seconds after the projector is turned off)
- While the lamp is lighted.



8 After Use

Preparation: Make sure that the projector is turned off.

1. **Unplug the power cord.**

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Disconnect any other cables.

3. **Retract adjustable tilt feet if extended.**

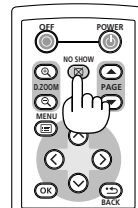
4. **Cover the lens with the lens cap.**

5. **Put the projector and its accessories in the supplied soft case.**

4. Convenient Features

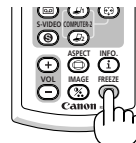
① Turning off the Image and Sound

Press the NO SHOW button to turn off the image and sound for a short period of time. Press again to restore the image and sound.



② Freezing a Picture

Press the FREEZE button to freeze a picture. Press again to resume motion.



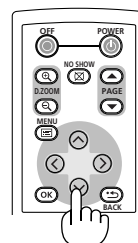
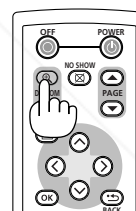
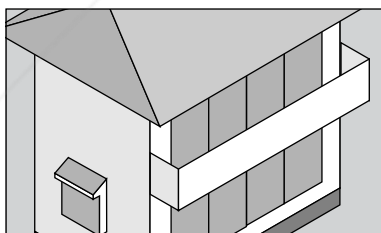
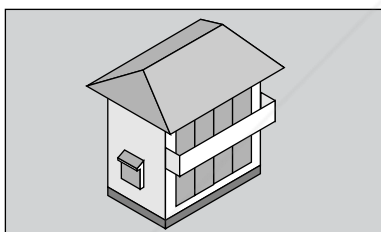
③ Enlarging and Moving a Picture

You can enlarge the picture up to 400 percent.

To do so:

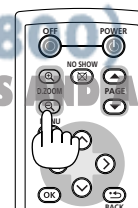
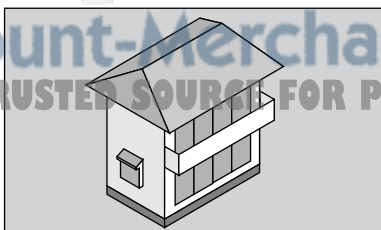
1. Press the D. ZOOM (+) button to magnify the picture.

To move the magnified image, use the SELECT (⏮⏭⏪⏩) button.



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return the image to the original size.



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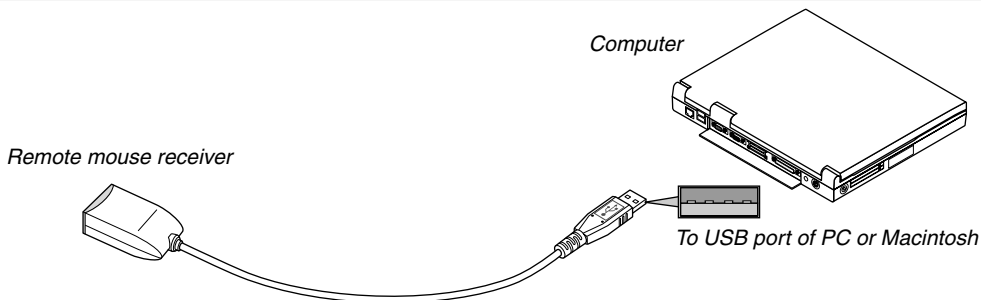
④ Using the Remote Mouse Receiver (LV-7245/LV-7240 only)

The remote mouse receiver enables you to operate your computer's mouse functions from the remote control. It is a great convenience for clicking through your computer-generated presentations.

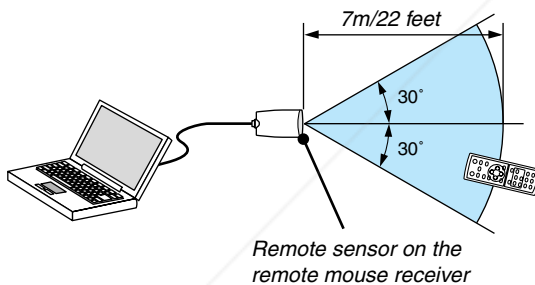
Connecting the remote mouse receiver to your computer

If you wish to use the remote mouse function, connect the mouse receiver and computer. The mouse receiver can be connected directly to the computer's USB port (type A).

NOTE: Depending on the type of connection or OS installed on your computer, you may have to restart your computer or change your computer settings.



When operating a computer via the remote mouse receiver



When connecting using the USB terminal

For PC, the mouse receiver can only be used with a Windows 98/Me/XP*, Windows 2000 or Mac OS X 10.0.0 or later operating system.

** NOTE: In Windows XP, if the mouse cursor will not move correctly, do the following: Clear the Enhance pointer precision check box underneath the mouse speed slider in the Mouse Properties dialog box [Pointer Options tab].*

NOTE: Wait at least 5 seconds after disconnecting the mouse receiver before reconnecting it and vice versa. The computer may identify the mouse receiver if it is repeatedly connected and disconnected in rapid intervals.

Operating your computer's mouse from the remote control

You can operate your computer's mouse from the remote control.

PAGE ▲/▼ Button: scrolls the viewing area of the window or to move to the previous or next slide in PowerPoint on your computer.

⏏ / Mouse Buttons: moves the mouse cursor on your computer.

MOUSE L-CLICK Button: works as the mouse left button.

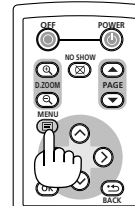
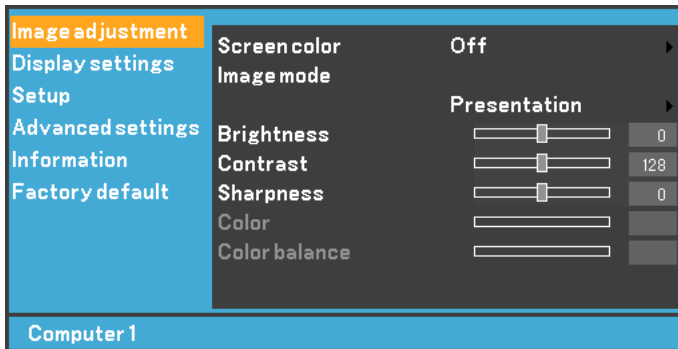
MOUSE R-CLICK Button: works as the mouse right button.

5. Using On-Screen Menu

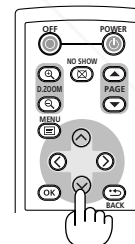
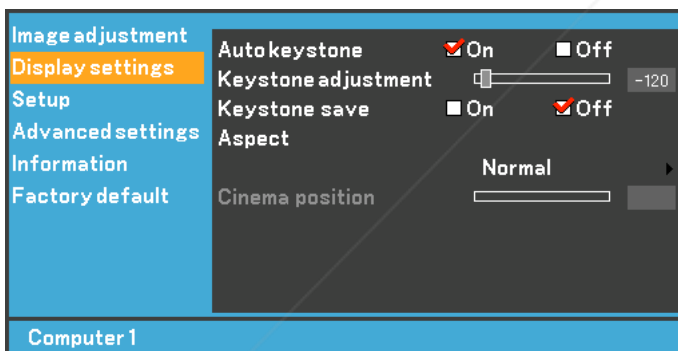
① Using the Menus

NOTE: The on-screen menu may not be displayed correctly while interlaced motion video image is projected.

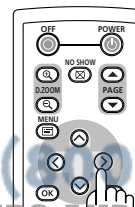
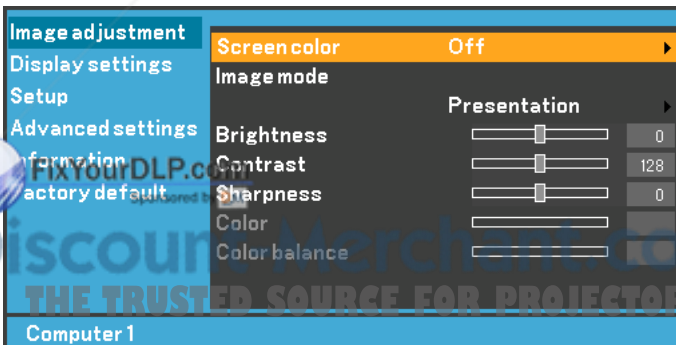
1. Press the **MENU** button on the remote control or projector cabinet to display the Menu.



2. Press the **SELECT** (⊙) or (⊙) button on the remote control or the projector cabinet to highlight the menu for the item you want to adjust or set.

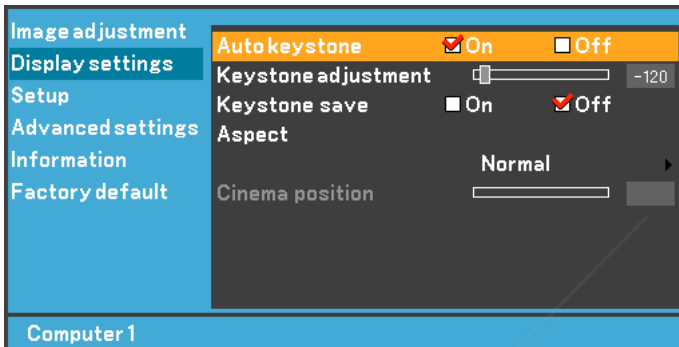
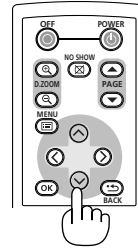
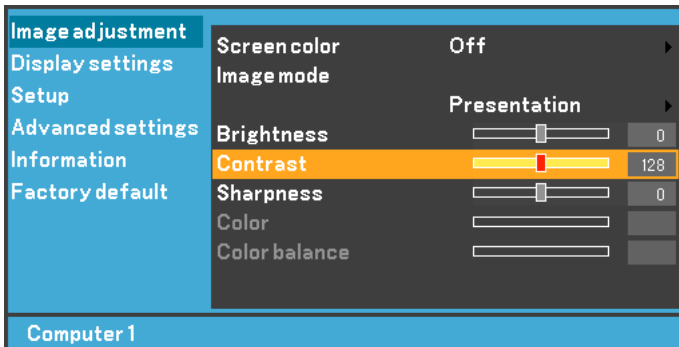


3. Press the **SELECT** (⊙) button or the **OK** button on the remote control or the projector cabinet to select a submenu or item.



5. Using On-Screen Menu

4. Use the **SELECT** ⏏ or ⏏ button on the remote control or the projector cabinet to select the item you want to adjust or set.

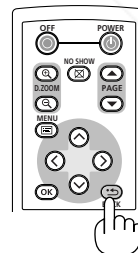


5. Adjust the level or turn the selected item on or off by using **SELECT** ⏏ or ⏏ button on the remote control or the projector cabinet.

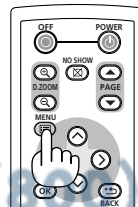
The on-screen slide bar will show you the amount of increase or decrease.

Changes are stored until you adjust it again.

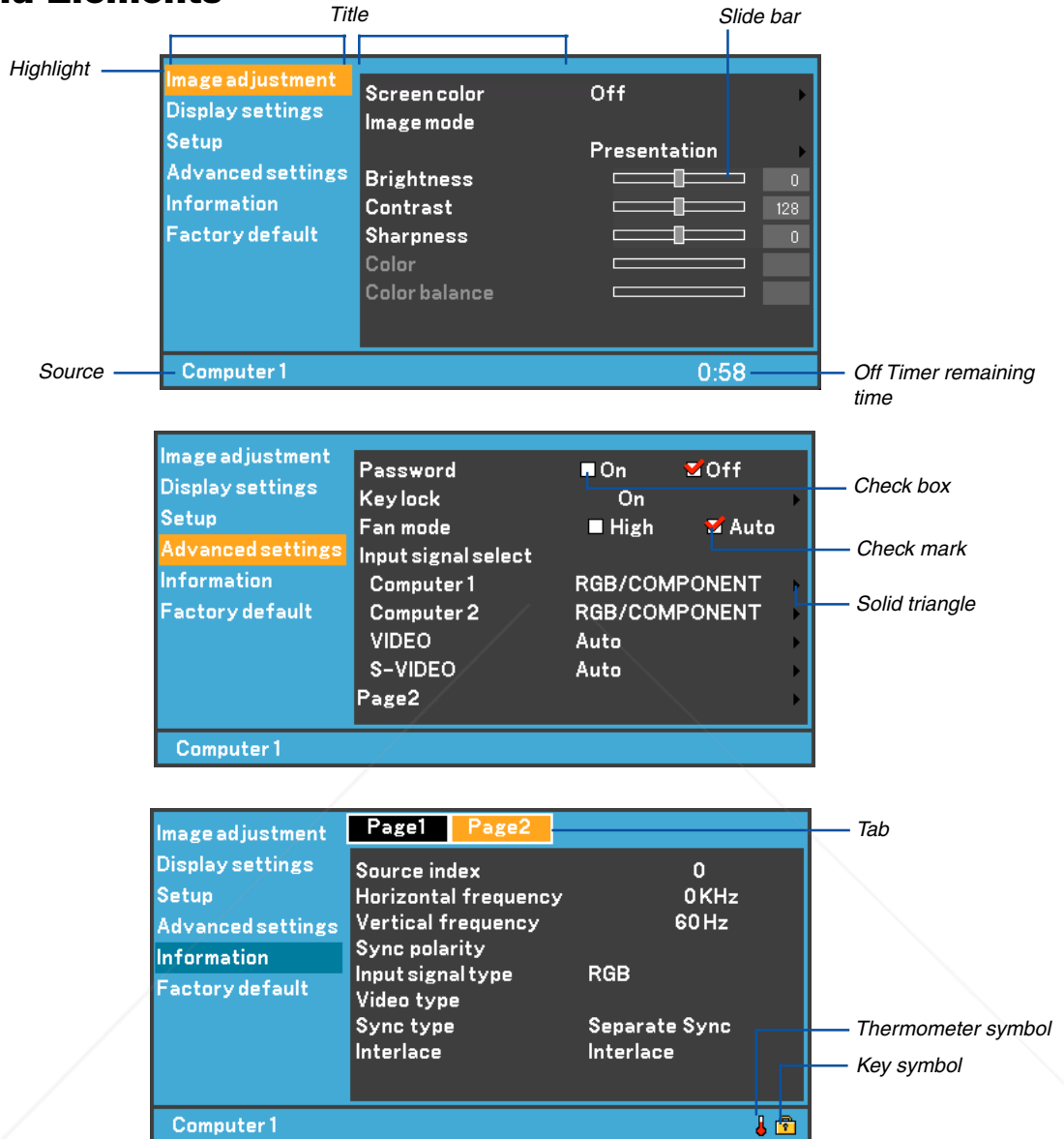
BACK Return to the previous menu.



6. Repeat steps 2-5 to adjust an additional item, or press the **MENU** button to close the menu.




2 Menu Elements



Menu windows or dialog boxes typically have the following elements:

- Title Indicates the menu title.
- Highlight Indicates the selected menu or item.
- Source Indicates the currently selected source.
- Remaining countdown time Indicates the remaining countdown time when the Off Timer is preset.
- Solid triangle Indicates further choices are available. A highlighted triangle indicates the item is active.
- Tab Indicates a group of features in a dialog box. Selecting on any tab brings its page to the front.
- Check box Place a checkmark in the square box to turn the option On.
- Check mark Indicates the item is selected.
- Slide bar Indicates settings or the direction of adjustment.
- Key symbol Indicates the Key Lock is enabled.
- Thermometer symbol Indicates the lamp is forcibly being cooled down because the internal temperature is too high.

③ List of Menu Items

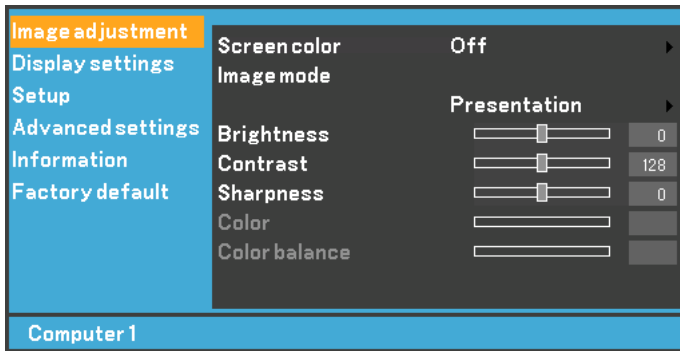
Image adjustment Screen color Image mode Brightness Contrast Sharpness Color Color balance	Off, Greenboard, Light yellow, Light green, Light blue, Sky blue, Light rose, Pink Standard, Presentation, Cinema, Video, sRGB User Base setting Standard, Presentation, Cinema, Video, sRGB Gamma Black detail, Dynamic, Natural Brightness R,G,B Contrast R,G,B
Display settings Auto keystone Keystone adjustment Keystone save Aspect Cinema position	On, Off On, Off Normal, Wide zoom, Cinema, True size
Setup Off timer Lamp mode Language Menu color select Menu display time No signal screen Image flip H/V Beep	Off, 0:30, 1:00, 2:00, 3:00, 4:00, 6:00, 8:00 Normal, Quiet Language-1 English, Deutsch, Français, Italiano, Español, Português, Nederlands Language-2 Svenska, Norsk, Suomi, Česky, Magyar, Polski, Türkçe Language-3 Русский, Ελληνικά, 日本語, 中文, 한국어, عربي, Dansk Color, Monochrome Manual, 5 sec, 15sec, 45 sec Blue, Black, Canon logo None / Rear, Ceiling mounted / Rear / Ceiling mounted On, Off
Advanced settings Password Key lock Fan mode Input signal select Computer 1 Computer 2 VIDEO S-VIDEO Page 2 Sponsored by 	On, Off On, Off High, Auto RGB/COMPONENT, RGB, COMPONENT, Scart RGB/COMPONENT, RGB, COMPONENT Auto, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM Auto, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM Power management On, Off Noise reduction On, Off Flicker reduction On, Off Auto PC adjustment Off, Normal, Fine Horizontal position Vertical position Clock Tracking Communication speed 4800, 9600, 19200

5. Using On-Screen Menu

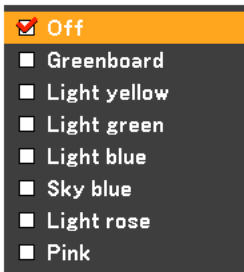
Information	
Page1	Remaining lamp time, Lamp counter, Filter usage, Projector usage, BIOS version, Firmware version, Data version
Page2	Source index, Horizontal frequency, Vertical frequency, Sync polarity Input signal type, Video type, Sync type, Interlace
Factory default	
Factory default	Current signal All data
Clear filter usage	
Lamp counter	

NOTE: Some menu items are not available depending on the input source.

④ Menu Descriptions & Functions [Image adjustment]



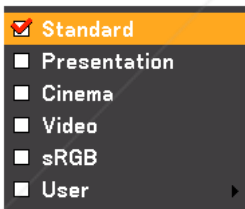
Using the Screen color correction [Screen color]



This function allows for quick adaptive color correction in applications where the screen material is not white. The following eight options are available.

- OFF
- Light yellow
- Light blue
- Light rose
- Greenboard
- Light green
- Sky blue
- Pink

Using Image mode [Image mode]



This option allows you to adjust neutral tint for yellow, cyan or magenta. There are 5 factory presets optimized for various types of images, or you can set user adjustable settings.

Standard Select this to project an image with a similar quality to that of the original image. An image is projected with a high regard for reproduction of white.

Presentation Select this to project an image with a similar quality to that of the original image. A bright and high-contrast image is projected.

Cinema Select this to project a moving picture. A picture is projected with a high regard for color tone reproduction.

Video Select this to project a regular picture such as TV program

sRGB Select this when you want to project an image from a sRGB compatible digital camera. An image is projected in the display mode conforming to the sRGB Standard.

User User adjustable

NOTE: When "sRGB", "Standard", "Video" or "Cinema" is selected, the brightness decreases slightly when compared to "Presentation". This is not a malfunction.

User Adjust (when using User)

When selecting user adjustable presetting (User), the submenu will be displayed.

You can customize each gamma or color. To do so, first select "User" and press the OK button, and then proceed the following steps.

Selecting Base Setting [Base setting]

This feature allows you to use white balance or gamma values as reference data to optimize for various types of images. You can select one of the following five settings.

- Standard
- Presentation
- Cinema
- Video
- sRGB

Selecting Gamma Mode [Gamma]

Each mode is recommended for :

- Black detail Emphasizes detail in dark areas of the picture
- Dynamic Creates a high-contrast picture
- Natural Natural reproduction of the picture

Adjusting White Balance [Brightness RGB/Contrast RGB]

This allows you to adjust the white balance. Brightness for each color (RGB) is used to adjust the black level of the screen; Contrast for each color (RGB) to adjust the white level of the screen.

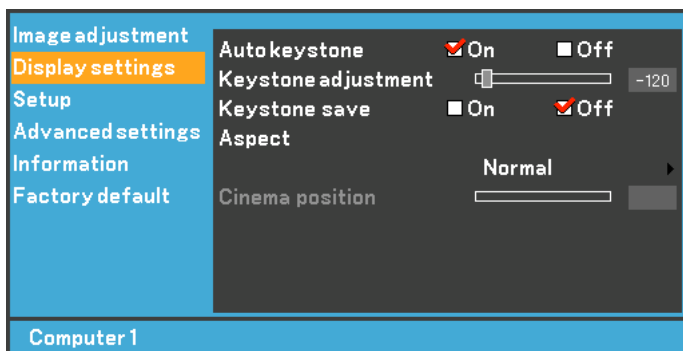
Adjusting Brightness, Contrast, Sharpness, Color and Color balance

- Brightness Adjusts the brightness level.
- Contrast Adjusts the intensity of the image according to the incoming signal.
- Sharpness Controls the detail of the image for Video.
- Color Increases or decreases the color saturation level (not valid for RGB).
- Color balance Varies the color level from +/- green to +/- blue. The red level is used as reference. This adjustment is only valid for Video and Component inputs (not valid for RGB).



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⑤ Menu Descriptions & Functions [Display settings]



Enabling Auto Keystone [Auto keystone]

This feature allows the projector to detect its tilt and correct vertical distortion automatically. To turn on the Auto keystone feature, select “On”.

Correcting Vertical Keystone Distortion Manually [Keystone adjustment]

You can correct vertical distortion manually from the menu when “Auto keystone” is turned off. You can save the changes using the Keystone save feature when you turn off the projector.

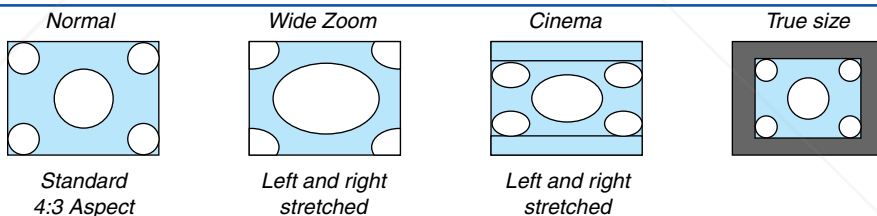
Saving Vertical Keystone Correction [Keystone save]

This option enables you to save your current keystone settings. Saving your change once affects all sources. The changes are saved when the projector is off.

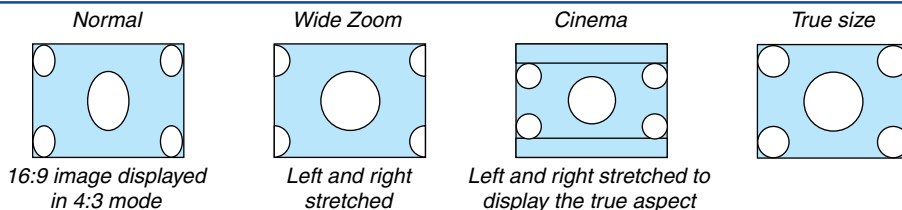
Selecting Aspect Ratio [Aspect]

Aspect allows you to select the best Aspect mode to display your source image. You can also display the Aspect menu by pressing the “ASPECT” button on the remote control.

When 4:3 is selected from the source (i.e. DVD player), the following selections will display:



When 16:9 is selected from the source (i.e. DVD player), the following selections will display:



True size (RGB only): Turns off the scaling technology feature. The projector displays the current image in its true resolution.

NOTE:

- While you are displaying an image at the projector's native resolution or higher, “True size” is not available.
- You can adjust the image position for Cinema aspect. See “Cinema position” for setting the image position.

Copyright

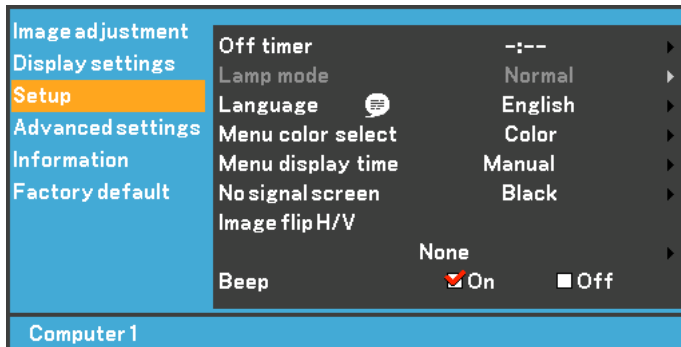
Please note that using this projector for the purpose of commercial gain or the attraction of public attention in a venue such as a coffee shop or hotel and employing compression or expansion of the screen image with a “Aspect” setting may raise concern about the infringement of copyrights which are protected by copyright law.

Adjusting the Vertical Position of Image [Cinema position] (for Cinema only)

This feature adjusts the vertical position of the image when viewing video with Cinema aspect selected. When "Cinema" is selected in "Aspect", the image is displayed with black borders on the top and bottom. You can adjust the vertical position between top and bottom.

NOTE: This option is available only when "Cinema" is selected in Aspect.

6 Menu Descriptions & Functions [Setup]



Using Off Timer [Off timer]

You can set the timer so that the projector turns itself off at the preset time.

1. Use the **SELECT** or button to select your desired time between 30 minutes and 8 hours: Off, 0:30, 1:00, 2:00, 3:00, 4:00, 6:00 and 8:00.
2. Press the **OK** button.
3. The **Off Timer** starts counting down the remaining time.
4. The projector turns off after the countdown is complete.

NOTE:

- To cancel the preset time, select "Off" for the preset time or turn off the power.
- When the remaining time reaches 3 minutes before the projector is turned off, the "Power off within 3 minutes." message will be displayed on the bottom of the screen.

Selecting Lamp Mode [Lamp mode]

This feature enables you to select two brightness modes of the lamp: Normal and Quiet modes. The lamp life can be extended by using the Quiet mode.

Normal mode This is the default setting (100% Brightness).

Quiet mode Select this mode to increase the lamp life (80% Brightness).

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NOTE: If the projector is overheated in Normal mode, there may be a case where the Lamp mode automatically changes to Quiet mode to protect the projector. When the projector is in Quiet mode, the picture brightness decreases. When the projector comes back to normal temperature, the Lamp mode returns to Normal mode.

NOTE: Thermometer symbol indicates the lamp is forcibly being cooled down because the internal temperature is too high.

Selecting Menu Language [Language]

You can choose one of 21 languages for on-screen instructions.

Selecting Menu Color [Menu color select]

You can choose between two color modes for menu color: color and monochrome.

Selecting Menu Display Time [Menu display time]

This option allows you to select how long the projector waits after the last touch of a button to turn off the menu. The preset choices are "Manual", "5 sec", "15 sec", and "45 sec". The "45 sec" is the factory preset.

Selecting a Color or Logo for No signal screen [No signal screen]

Use this feature to display a black/ blue screen or logo when no signal is available.

Selecting Projector Orientation [Image flip H/V]

This sets your image for your type of projection. The options are: Front projection, Rear projection, and Ceiling mounted projection.

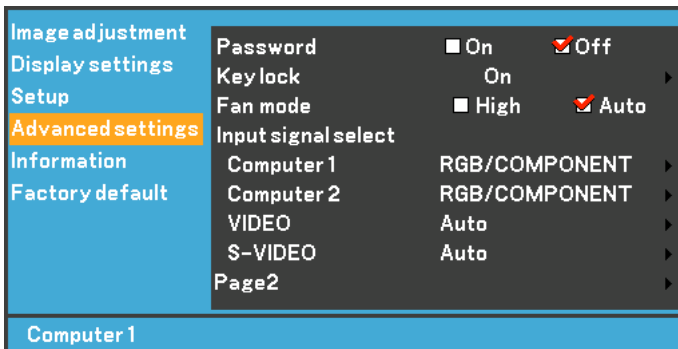
Enabling Key Sound and Error Sound [Beep]

This feature turns on or off the keypad sound or alarm when a button on the cabinet and the remote control is pressed or an error occurs.



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7 Menu Descriptions & Functions [Advanced settings]

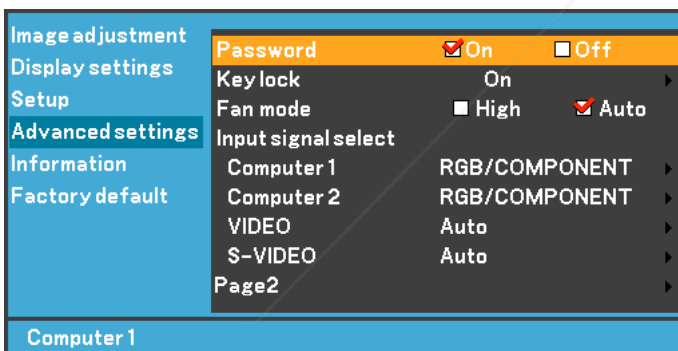


Password

A password can be set for your projector to avoid operation by an unauthorized user using the Menu. When a password is set, turning on the projector will display the password input screen. Unless the correct password is entered, the projector cannot project an image.

To enable the Password function:

1. Select [Advanced settings] → [Password] and press the button to select "On".



The [Password] screen will be displayed.

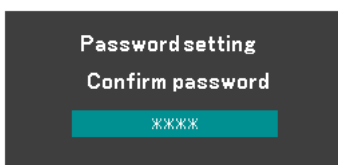
2. Type in a combination of the four SELECT buttons and press the OK button.

NOTE:

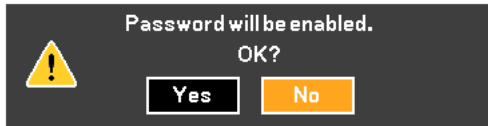
- A password must be four to 10 digits in length.
- When you want to cancel registering the password, press the MENU button without entering the password.



The [Confirm password] screen will be displayed.



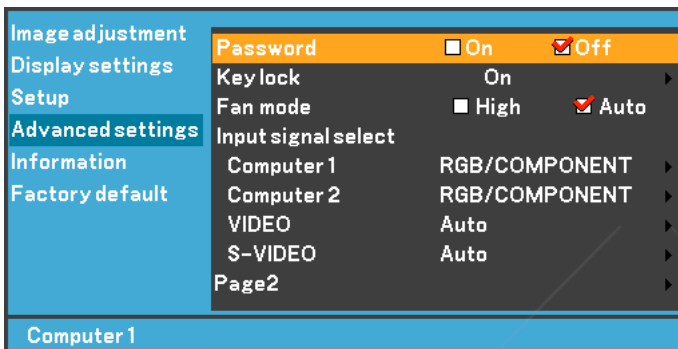
3. Type in the same combination of **SELECT** buttons $\odot \checkmark \odot \odot$ and press the **OK** button.
The confirmation screen will be displayed.



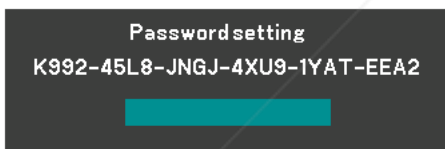
4. Select “Yes” and press the **OK** button.
The Password function has been enabled.

To disable the Password function:

1. Select [Advanced settings] → [Password] and press the \odot button to select “Off”.



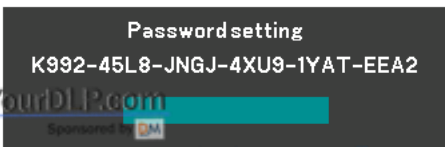
The Password confirmation screen will be displayed.



2. Type in your password and press the **OK** button.
When the correct password is entered, the Password function will be disabled.

When the Password function is enabled and the projector is turned on, the projector will display a blue background.

To display an image at this time, press the **MENU** button to display the Password input screen.



Type in the correct password and press the **OK** button. The projector will display an image.

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NOTE:

- The password disable mode is maintained until the main power is turned off (by setting the main power switch to “0” or unplugging the power cord).
- If you forget your password, contact your dealer.

Disabling the Key lock [Key lock]

This option turns on or off the Key lock function.

NOTE:

- This Key lock does not affect the remote control and the PC Control functions.
 - When the Key Lock is Off, pressing and holding the BACK button for about 10 seconds will change the setting to enable.
 - Key symbol  indicates the Key lock is On.
-

Enabling High Speed Fan Mode [Fan mode]

This option allows you to select two modes for fan speed: High speed mode and Auto mode.

High The built-in fans run at a fixed high speed.

Auto The built-in fans automatically run at a variable speed according to the internal temperature.

When you wish to cool down the temperature inside the projector quickly, select “High”.

NOTE: Select “High” if you continue to use the projector for consecutive days.

Selecting Signal Format [Input signal select]

[Computer]

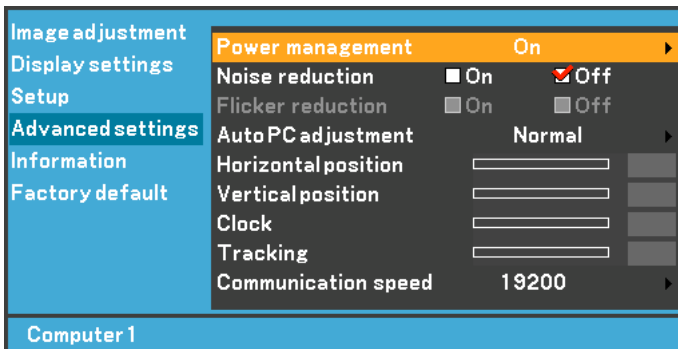
Allows you to choose “Computer” for an RGB source such as a computer, or “COMPONENT” for a component video source such as a DVD player. Normally select “RGB/COMPONENT” and the projector automatically detects a component signal. However there may be some component signals that the projector is unable to detect. If this is the case, select “COMPONENT”. Select “Scart” in Computer 1 for the European Scart signal.

[VIDEO & S-VIDEO system select]

This feature enables you to select composite video standards manually. Normally select “Auto”.

When you select the video standard for VIDEO and S-VIDEO, select the video standard from the pull-down menu. This must be done for VIDEO and S-VIDEO respectively.

(Advanced settings Page 2)



Enabling Power Management [Power management]

When this option is on and there is no signal or no menu operation for five minutes or more, the projector will automatically turn itself off.

Turning On Noise Reduction [Noise reduction] (not available for Video and S-Video signals)

Reduces video noise. Select "On" to enable the Noise Reduction feature.

Turning On Flicker Reduction [Flicker reduction]

Reduces flicker which can occur in an interlaced signal. This feature is not available for RGB and HDTV signals.

NOTE: When the Flicker reduction is ON, jagged lines can be visible depending on the signal. In that case, select OFF.

NOTE: This feature may not be available depending on your video equipment connected to the projector.

Setting Auto PC adjustment [Auto PC adjustment]

This feature sets the Auto PC adjustment mode so that the RGB image can be automatically or manually adjusted for noise and stability. You can automatically make adjustment in two ways: Normal and Fine

Off The RGB image will not be automatically adjusted.

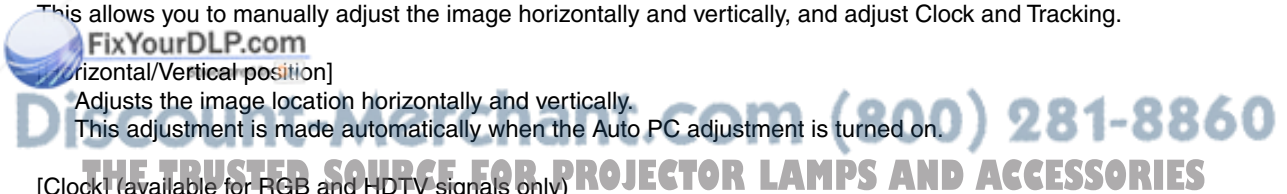
You can manually optimize the RGB image.

Normal Default setting. The RGB image will be automatically adjusted. Normally select this option.

Fine Select this option if fine adjustment is needed. It takes more time to switch to the source than when "Normal" is selected.

Adjusting Position/Clock (when Auto PC adjustment is off)

This allows you to manually adjust the image horizontally and vertically, and adjust Clock and Tracking.



[Clock] (available for RGB and HDTV signals only)

Use this item with the "Auto PC adjustment off" to fine tune the computer image or to remove any vertical banding that might appear. This function adjusts the clock frequencies that eliminate the horizontal banding in the image. This adjustment may be necessary when you connect your computer for the first time. This adjustment is made automatically when the Auto PC adjustment is turned on.

[Tracking] (available for RGB and HDTV signals only)

Use this item to adjust the clock phase or to reduce video noise, dot interference or cross talk. (This is evident when part of your image appears to be shimmering.)

Use "Tracking" only after the "Clock" is complete.

This adjustment is made automatically when the Auto PC adjustment is turned on.

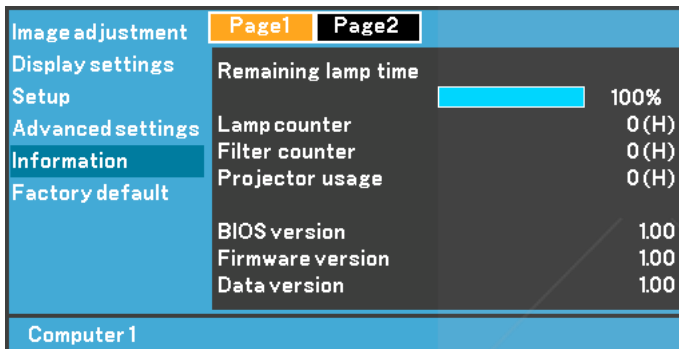
Selecting Communication Speed [Communication speed]

This feature sets the baud rate of the SERVICE PORT (DIN 8 Pin). It supports data rates from 4800 to 19200 bps.

The default is 19200 bps.

Select the appropriate baud rate for your equipment to be connected (depending on the equipment, a lower baud rate may be recommended for long cable runs).

8 Menu Descriptions & Functions [Information]



Displays the status of the current signal, Remaining lamp time (%), Lamp/Filter/Projector usage time (hours) and version information. The Information has two pages. The Information included is as follows:

[Page 1]

Remaining lamp time (%)*

Lamp counter (H)

Filter counter

Projector usage

- * The progress indicator shows the percentage of remaining bulb life. The value informs you of the amount of lamp usage. When the remaining lamp time reaches 0, the Remaining lamp time bar indicator changes from 0% to 100 Hours and starts counting down.

If the Remaining lamp time reaches 0 hours, the projector will not turn on regardless of whether the lamp mode is set to Normal or Quiet.

BIOS version

Firmware version

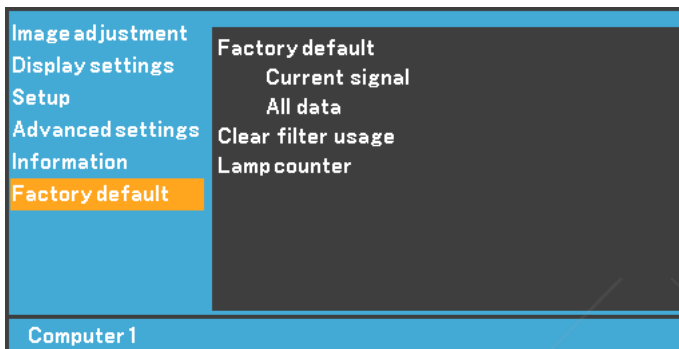
Data version

Model	Lamp life(H)		Replacement lamp
	Normal	Quiet	
LV-7245/LV-7240	2000	3000	LV-LP24
LV-X5	3000	4000	LV-LP25

[Page 2]

Source index
Horizontal frequency
Vertical frequency
Sync polarity
Input signal type
Video type
Sync type
Interlace

⑨ Menu Descriptions & Functions [Factory default]



Returning to Factory Default [Factory default]

The Factory default feature allows you to change adjustments and settings to the factory presets.

[Current signal]

Resets the adjustments for the current signal to the factory preset levels.

The items that can be reset are: Brightness, Contrast, Color, Color balance, Sharpness, Noise reduction, Aspect, Horizontal position, Vertical position, Clock, Tracking and Image mode.

[All data]

Resets all the adjustments and settings for all the signals to the factory preset for source except the following: Language, Password, Communication speed, Remaining lamp time, Lamp counter, Filter usage and Projector usage. To reset the lamp and filter usage time, see “Lamp counter” and “Clear filter usage”.

Resetting the Filter Usage Hours [Clear filter usage]

Resets the filter usage back to zero. Selecting this option displays submenu for a confirmation. Select “Yes” and press the OK button.

NOTE: Reset the Filter usage after cleaning or replacing the filter.

Resetting Lamp counter [Lamp counter]

Resets the lamp clock back to zero. Selecting this option displays a submenu for a confirmation. Select “Yes” and press the OK button.

NOTE: Do not reset the lamp counter except when you have replaced the lamp. If reset, the lamp counter cannot indicate the correct timing of lamp replacement.

For the lamp replacement method, see page 49.

NOTE: The projector will turn off and go into standby mode after 2100 hours (up to 3100* hours in Quiet mode) of service. If this happens, press the INFO. button on the remote control for ten seconds to reset the lamp clock back to zero.*

When the lamp time clock is reset to zero, the LAMP REPLACE indicator goes out.

Do this only after replacing the lamp.

** LV-X5: 3100 hours (up to 4100 hours in Quiet mode).*

6. Maintenance

This section describes the simple maintenance procedures you should follow to clean the filter and replace the lamp.

① Cleaning or Replacing the Filter

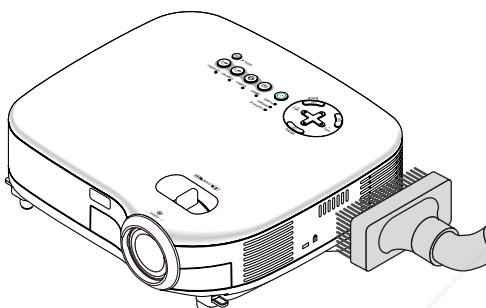
The air-filter sponge keeps dust and dirt from getting inside the projector and should be cleaned after every 100 hours of operation (more often in dusty conditions). If the filter is dirty or clogged, your projector may overheat.

CAUTION

- Turn off the projector, turn off the main power switch and unplug the projector before replacing the filter.
- Only clean the outside of the filter cover with a vacuum cleaner.
- Do not attempt to operate the projector without the filter cover.

To clean the air-filter:

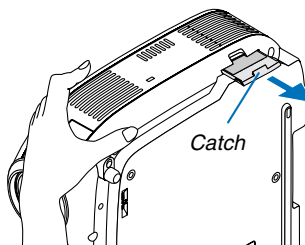
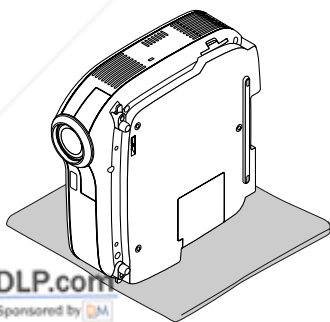
Vacuum the filter through the filter cover.



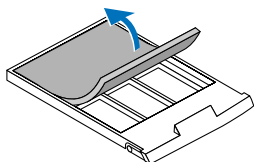
To reset the filter usage time, from the menu, select [Factory default] → [Clear filter usage]. See also page 46 for resetting the filter usage time.

To replace the filter (sponge):

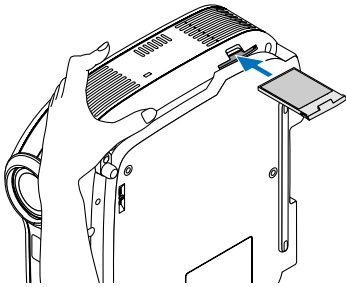
1. Remove the filter cover by pushing down on the catch of the cover until you feel it detach.



2. Gently peel off the filter (sponge) and replace it with the new one.



3. Reinstall the new filter cover.



NOTE: Do not wash the filter with soap and water. Soap and water will damage the filter membrane. Before replacing the filter, remove dust and dirt from the projector cabinet. Keep out dust and dirt during filter replacement.

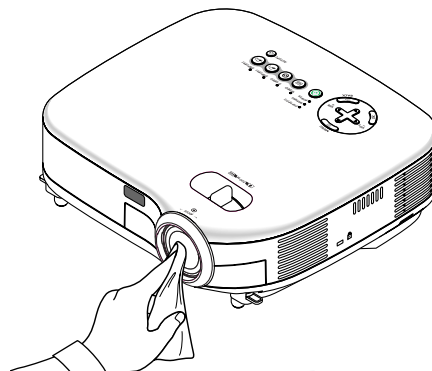
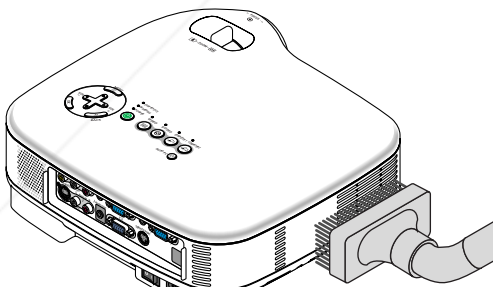
NOTE: When you replace the lamp, it is also wise to replace the filter. The filter comes in the same package with your replacement lamp.

4. Turn on the projector.

5. Reset the Filter counter. See page 46.

② Cleaning the Cabinet and the Lens

1. Turn off the projector before cleaning.
2. Clean the cabinet periodically with a damp cloth. If heavily soiled, use a mild detergent. Never use strong detergents or solvents such as alcohol or thinner.
3. Use a blower or lens paper to clean the lens, and be careful not to scratch or mar the lens.



③ Replacing the Lamp

After your lamp has been operating for 2000* hours (up to 3000* hours in Quiet mode) or longer, the LAMP REPLACE indicator in the cabinet will blink red and the message **"Replace with the new lamp."** will appear. Even though the lamp may still be working, replace it at 2000* (up to 3000* hours in Quiet mode) hours to maintain optimal projector performance. After replacing the lamp, be sure to clear the lamp counter. See page 46.

CAUTION

- DO NOT TOUCH THE LAMP immediately after it has been used. It will be extremely hot. Turn the projector off, wait 30 seconds, turn off the main power switch and then disconnect the power cord. Allow at least one hour for the lamp to cool before handling.
- DO NOT REMOVE ANY SCREWS except two lamp case screws. You could receive an electric shock.
- Do not break the glass on the lamp housing.
Keep finger prints off the glass surface on the lamp housing. Leaving finger prints in the glass surface might cause an unwanted shadow and poor picture quality.
- The projector will turn off and go into standby mode after 2100* (up to 3100* hours in Quiet mode) hours of service. If this happens, be sure to replace the lamp. If you continue to use the lamp after 2000* hours (up to 3000* hours in Quiet mode) of use, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury. If this happens, contact your dealer for lamp replacement.

**NOTE: Lamp life for LV-X5 is 3000 hours in Normal mode and 4000 hours in Quiet mode.*

The projector will turn off and go into standby mode after 3100 (up to 4100 hours in Quiet mode) hours of service.

A lamp may burn out before the LAMP REPLACE indicator blinks.

To replace the lamp:

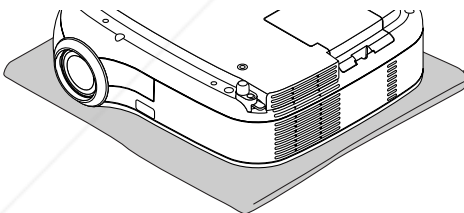
Optional lamp and tools needed for replacement:

- Replacement lamp LV-LP24 (LV-7245/LV-7240) or LV-LP25 (LV-X5)
- Phillips screwdriver or equivalent

NOTE: The two lamp houses are slightly different in appearance.

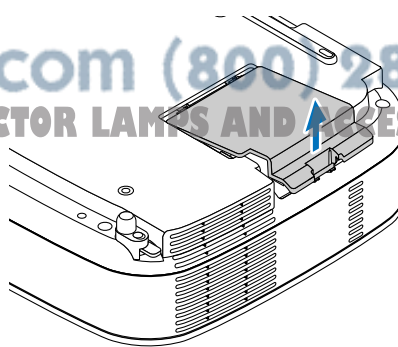
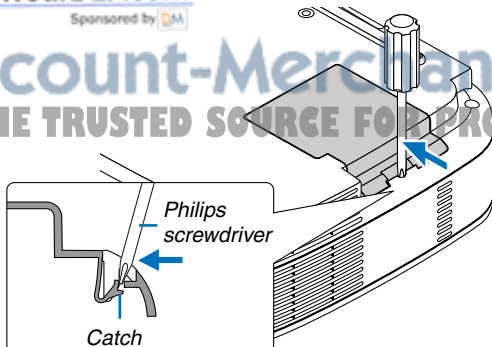
The following explanation uses drawings for the lamp LV-LP24.

1. Place the projector on a soft cloth and turn it over to access the lamp cover on the bottom.



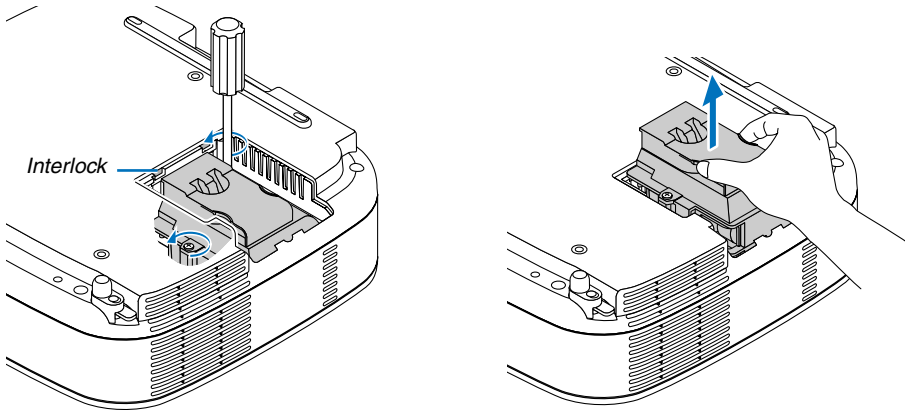
2. Use a Philips screwdriver to push and release the tab.

Push up and remove the lamp cover.



3. Loosen the two screws securing the lamp until the phillips screwdriver goes into a freewheeling condition. The two screws are not removable.

Remove the lamp by holding it.



NOTE: There is an interlock on this case to prevent the risk of electrical shock. Do not attempt to circumvent this interlock.

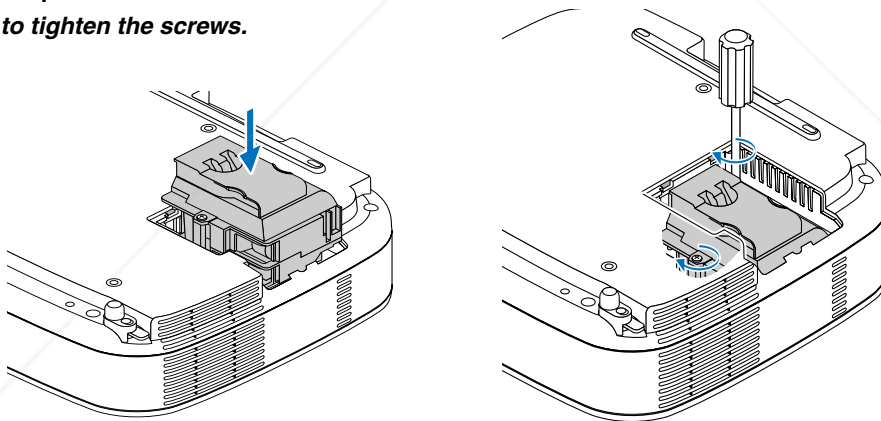
4. Insert a new lamp until the lamp is plugged into the socket.

CAUTION

Do not use a lamp other than the replacement lamp LV-LP24 (LV-7245/LV-7240) or LV-LP25 (LV-X5). This may be ordered from your dealer.

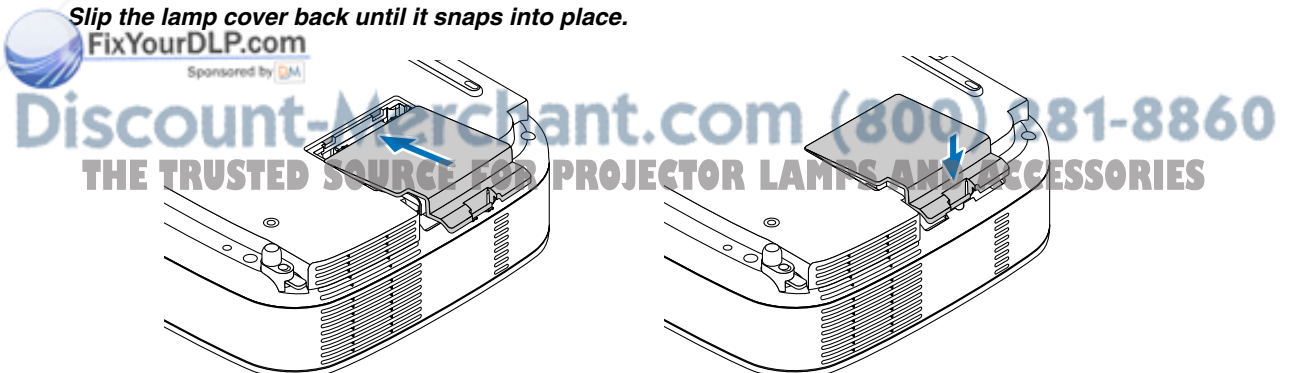
Secure it in place with the two screws.

Be sure to tighten the screws.



5. Reattach the lamp cover.

Slip the lamp cover back until it snaps into place.



6. Connect the supplied power cord, turn on the Main Power switch and turn on the projector.

7. Finally, select the menu → [Factory default] → [Lamp counter] to reset the lamp usage hours.

NOTE: When the lamp exceeds 2100 hours (up to 3100* hours in Quiet mode) of service, the projector cannot turn on and the menu is not displayed.*

If this happens, press the INFO. button on the remote control for ten seconds to reset the lamp clock back to zero.

When the lamp time clock is reset to zero, the LAMP REPLACE indicator goes out.

** LV-X5: 3100 hours (up to 4100 hours in Quiet mode).*



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7. Appendix

① Troubleshooting

This section helps you resolve problems you may encounter while setting up or using the projector.

Indicator Messages

POWER Indicator

Indicator Condition			Projector Condition	Note
Off			The main power is off	–
Blinking light	Green	0.5 sec On, 0.5 sec Off	The projector is getting ready to turn on.	Wait for a moment.
		2.5 sec On, 0.5 sec Off	Off Timer is enabled.	–
	Orange	0.5 sec On, 0.5 sec Off	The projector is cooling down.	Wait for a moment.
		0.5 sec On, 0.5 sec Off		
Steady light	Green		The projector is turned on.	–
	Orange		The projector is in Standby.	–

WARNING Indicator

Indicator Condition			Projector Condition	Note
Off			Normal	–
Blinking light	Red	1 cycle (0.5 sec On, 2.5 sec Off)	Lamp cover error or lamp housing error	Replace the lamp cover or lamp housing correctly.
		2 cycle (0.5 sec On, 0.5 sec Off)	Temperature error	The projector is overheated. Move the projector to a cooler location.
		4 cycle (0.5 sec On, 0.5 sec Off)	Fan error	Fans will not work correctly.
		6 cycle (0.5 sec On, 0.5 sec Off)	Lamp error	Lamp fails to light. Wait a full minute and then turn on again.
	Green		Re-firing the lamp (The projector is cooling down.)	The projector is re-firing. Wait for a moment.
Steady light	Orange		Key lock is On.	You have pressed cabinet button when Key lock is On.

LAMP REPLACE Indicator

Indicator Condition			Projector Condition	Note
Off			Normal	–
Blinking light	Red		Lamp has reached its end of life. Lamp replacement message will be displayed.	Replace the lamp.
Steady light	Red		Lamp has been used beyond its limit. The projector will not turn on until the lamp is replaced.	Replace the lamp.
	Green		Lamp mode is set to Quiet mode	–

Common Problems & Solutions (See also "POWER/WARNING/LAMP REPLACE Indicator" on page 52.)

Problem	Check These Items
Does not turn on	<ul style="list-style-type: none"> Check that the power cord is plugged in and that the power button on the projector cabinet or the remote control is on. See pages 19 and 20. Ensure that the lamp cover is installed correctly. See page 50. Check to see if the projector has overheated or the lamp usage exceeds 2100* hours (up to 3100* hours : Quiet mode). If there is insufficient ventilation around the projector or if the room where you're presenting is particularly warm, move the projector to a cooler location. <ul style="list-style-type: none"> * LV-X5: 3100 hours (up to 4100 hours in Quiet mode). The lamp may fail to light. Wait a full minute and then turn on the power again. The lamp has reached the end of its usable life. Replace the lamp.
Will turn off	<ul style="list-style-type: none"> Ensure that the Power Management is off. See page 44.
No picture	<ul style="list-style-type: none"> Use the VIDEO, the S-VIDEO or the COMPUTER button on the remote control to select your source (Computer, Video or S-Video). See page 22. If there is still no picture, press the button again. Ensure your cables are connected properly. Use menus to adjust the brightness and contrast. See page 37. Remove the lens cap. Reset the settings or adjustments to factory preset levels using the "Factory default" in the Menu. See page 46. Enter your registered Password if the Password function is enabled. See page 41. When using with a notebook PC, be sure to connect between the projector and the notebook PC before turning on the power to the notebook PC. In most cases signal cannot be output from RGB output unless the notebook PC is turned on after connecting with the projector. <ul style="list-style-type: none"> * If the screen goes blank while using your remote control, it may be the result of the computer's screen-saver or power management software. See also the next page.
Picture suddenly becomes dark	<ul style="list-style-type: none"> When one of the following happens, the Lamp mode automatically changes from Normal to Quiet. <ul style="list-style-type: none"> * When there are no signals (blue or black screen) → To return to the Normal mode, select another available source. * When the image is muted using the NO SHOW button on the remote control → Press the NO SHOW button again to return to the Normal mode. * When the room where you're presenting is particularly warm → Move the projector to a cooler location.
Color tone or Color balance is unusual	<ul style="list-style-type: none"> Check if an appropriate color is selected in "Screen color". If so, select an appropriate option. See page 36. Adjust "Color balance" in "Image adjustment". See page 37.
Image isn't square to the screen	<ul style="list-style-type: none"> Reposition the projector to improve its angle to the screen. See page 23. Use the Keystone correction function to correct the trapezoid distortion. See page 25.
Picture is blurred	<ul style="list-style-type: none"> Adjust the focus. See page 24. Reposition the projector to improve its angle to the screen. See page 23. Ensure that the distance between the projector and screen is within the adjustment range of the lens. See page 11. Condensation may form on the lens if the projector is cold, brought into a warm place and is then turned on. Should this happen, let the projector stand until there is no condensation on the lens.
Image is scrolling vertically, horizontally or both	<ul style="list-style-type: none"> Use the VIDEO, the S-VIDEO or the COMPUTER button on the remote control to select your source (Video, S-Video or Computer). See page 22. Adjust the computer image manually with the Horizontal/Vertical position in the "Advanced settings → Page 2". See page 44.
Remote control does not work	<ul style="list-style-type: none"> Install new batteries. See page 10. Make sure there are no obstacles between you and the projector. Stand within 7 m (22 feet) of the projector. See page 10.
Lamp indicator is lit or blinking	See the POWER/WARNING/LAMP REPLACE Indicator on page 52.
Cross color in RGB mode	<ul style="list-style-type: none"> Press the AUTO PC button on the projector cabinet or the remote control. See page 27. When "Off" is selected in Auto PC adjustment, adjust the computer image manually with Clock/Tracking in "Advanced settings → Page 2" in the menu. See pages 44 and 45.
Whenever the projector is turned on, a message prompting you to clean the filter will be displayed	<ul style="list-style-type: none"> Clean or replace the filter and then reset the Filter counter. See page 46.

For more information contact your dealer.

If there is no picture, or the picture is not displayed correctly.

- Power on process for the projector and the PC.

Be sure to connect the RGB cable between the projector and the computer before turning on the computer. There are some notebook PCs, which do not output signal unless there is a projector or monitor connected first.

NOTE: You can check the horizontal frequency of the current signal in the projector's menu under Information. If it reads "OkHz", this means there is no signal being output from the computer. See page 45 or go to next step.

- Enabling the computer's external display.

Displaying an image on the notebook PC's screen does not necessarily mean it outputs a signal to the projector. When using a PC compatible laptop, a combination of function keys will enable/disable the external display. Usually, the combination of the 'Fn' key along with one of the 12 function keys gets the external display to come on or off. For more details, refer to your computer's owner's manual.

- Non-standard signal output from the computer

If the output signal from a notebook PC is not an industry standard, the projected image may not be displayed correctly. Should this happen, deactivate the notebook PC's LCD screen when the projector display is in use. Each notebook PC has a different way of deactivate/reactivate the local LCD screens as described in the previous step. Refer to your computer's documentation for detailed information.

- Image displayed is incorrect when using a Macintosh

When using a Macintosh with the projector, set the DIPswitch of the Mac adapter (not supplied with the projector) according to your resolution. After setting, restart your Macintosh for the changes to take affect.

For setting display modes other than those supported by your Macintosh and the projector, changing the DIP switch on a Mac adapter may bounce an image slightly or may display nothing. Should this happen, set the DIP switch to the 13" fixed mode and then restart your Macintosh. After that, restore the DIP switches to a displayable mode and then restart the Macintosh again.

NOTE: A Video Adapter cable manufactured by Apple Computer is needed for a PowerBook which does not have a mini D-Sub 15-pin connector.

- Mirroring on a PowerBook

- * When using the projector with a Macintosh PowerBook, output may not be set to 1024 x 768 unless "mirroring" is off on your PowerBook. Refer to owner's manual supplied with your Macintosh computer for mirroring.

- Folders or icons are hidden on the Macintosh screen

Folders or icons may not be seen on the screen. Should this happen, select [View] → [Arrange] from the Apple menu and arrange icons.



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② Specifications

This section provides technical information about the projector's performance.

Model Number LV-7245/LV-7240/LV-X5

Optical

LCD Panel	0.7" p-Si TFT active-matrix with Micro Lens Array
Resolution	1024 × 768 pixels* native, up to UXGA with scaling technology
Lens	Manual zoom and manual focus F1.7 - 2.0 f=21.6 - 25.9 mm
Lamp	LV-7245 : 190W DC lamp (150W Quiet mode) LV-7240 : 180W DC lamp (150W Quiet mode) LV-X5 : 130W DC lamp (110W Quiet mode)
Brightness	LV-7245 : 2500 lm LV-7240 : 2100 lm LV-X5 : 1500 lm
Uniformity	85%
Image Size (Diagonal)	21" to 300"
Projection Distance	0.7 m to 10.9 m / 2.4' to 35.8'
Projection Angle	Tele: 9.5° - 9.9°/ Wide: 11.5° - 12.0°
Keystone Correction	+/- 30° Vertical (auto)

Electrical

Inputs	2 RGB/Component (D-Sub 15 Pin), 1 S-Video (DIN 4 Pin), 1 Video (RCA), 2 (L/R) RCA Audio, 1 Stereo Mini Audio, 1 Service Port (DIN 8 Pin)
Outputs	1 RGB (D-Sub 15 Pin), 1 Stereo Mini Audio
Video Compatibility	NTSC, NTSC4.43, PAL, PAL-60, PAL-N, PAL-M, SECAM, 1080p, 1080i, 720p, 480p, 480i / 60Hz 1080i, 576p, 576i / 50Hz
Scan Rate	Horizontal: 15 kHz to 100 kHz (RGB: 24 kHz or over) Vertical: 50 Hz to 120 Hz
Video Bandwidth	RGB: 80 MHz (-3dB)
Color Reproduction	16.7 million colors simultaneously, Full color
Horizontal Resolution	NTSC / NTSC4.43/PAL/PAL-M/PAL-N/PAL60/YCbCr: 540 TV lines SECAM: 300 TV lines RGB: 1024 dots (H) × 768 dots (V)
External Control	RS232, IR
Sync Compatibility	Separate Sync / Composite Sync / Sync on G
Internal Speaker	1W (monaural)
Voltage Requirement	100 - 240V AC, 50 / 60 Hz
Input Current	LV-7245/LV-7240 : 2.7 - 1.4A LV-X5 : 2.1 - 1.2A
Power Consumption	LV-7245/LV-7240 : 8W in Standby mode / 250W in Lamp Normal mode / 200W in Lamp Quiet mode LV-X5 : 8W in Standby mode / 190W in Lamp Normal mode / 155W in Lamp Quiet mode

* Effective pixels are more than 99.99%.

Mechanical

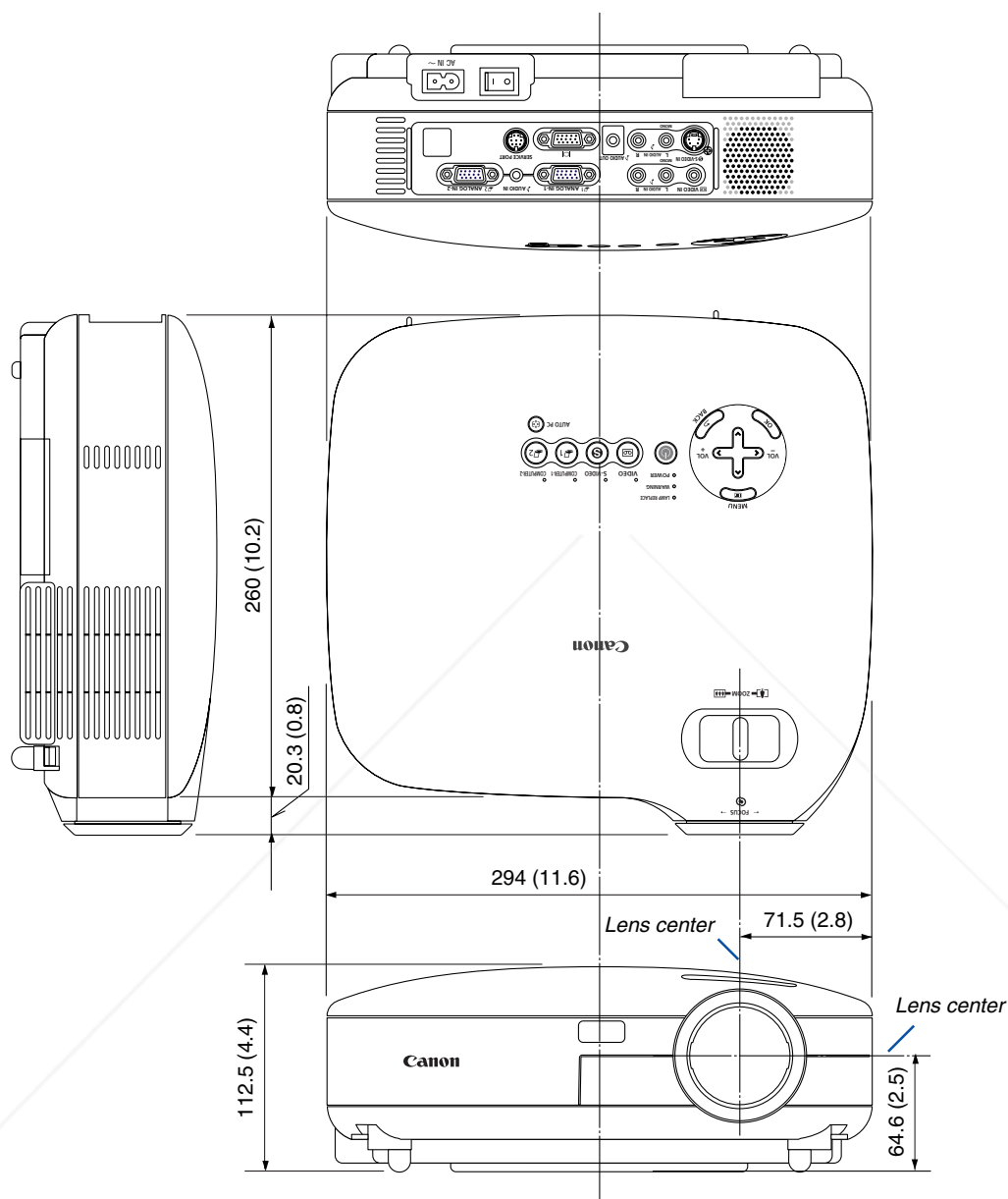
Installation Orientation	Front / Rear / Ceiling mounted / Rear, Ceiling mounted
Dimensions	11.6" (W) × 3.7" (H) × 10.2" (D) 294mm (W) × 93mm (H) × 260mm (D) (not including protrusions)
Weight	approx. 7 lbs / 3 kg
Fan Noise	LV-7245/LV-7240: 35 dB (Normal mode), 30dB (Quiet mode) LV-X5: 33 dB (Normal mode), 28dB (Quiet mode)
Environmental Considerations	Operational Temperatures : 41° to 95°F (5° to 35°C), 20% to 80% humidity (non-condensing) Storage Temperatures : 14° to 122°F (-10° to 50°C), 20% to 80% humidity (non-condensing)
Regulations	<i>For United States:</i> UL Approved (UL 60950) Meets FCC Class B requirements <i>For Canada:</i> UL Approved (CSA 60950) Meets DOC Canada Class B requirements <i>For Australia/New Zealand:</i> Meets AS/NZS CISPR.22 Class B <i>For Europe:</i> Meets EMC Directive (EN55022, EN55024, EN61000-3-2, EN61000-3-3) Meets Low Voltage Directive (EN60950) CE

The specifications are subject to change without notice.



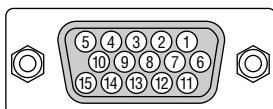
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3 Cabinet Dimensions



④ Pin Assignments of D-Sub ANALOG Input Connector

Mini D-Sub 15 Pin Connector



Signal Level

Video signal : 0.7Vp-p (Analog)

Sync signal : TTL level

Pin No.	RGB Signal (Analog)	YCbCr Signal
1	Red	Cr
2	Green or Sync on Green	Y
3	Blue	Cb
4	Ground	
5	Ground	
6	Red Ground	Cr Ground
7	Green Ground	Y Ground
8	Blue Ground	Cb Ground
9	No Connection	
10	Sync Signal Ground	
11	Scart Sync	
12	Bi-directional DATA (SDA)*	
13	Horizontal Sync or Composite Sync	
14	Vertical Sync	
15	Data Clock*	

* Only ANALOG-1 input connector supported.

5 Compatible Input Signal List

Signal	Resolution (Dots)	Frequency H. (kHz)	Refresh Rate (Hz)
NTSC	—	15.73	60
PAL	—	15.63	50
PAL60	—	15.73	60
SECAM	—	15.63	50
VESA	640 × 480	31.47	59.94
IBM	640 × 480	31.47	60
MAC	640 × 480	34.97	66.67
MAC	640 × 480	35	66.67
VESA	640 × 480	37.86	72.81
VESA	640 × 480	37.5	75
IBM	640 × 480	39.38	75
VESA	640 × 480	43.27	85.01
IBM	720 × 350	31.47	70.09
IBM	720 × 350	39.44	87.85
IBM	720 × 400	39.44	87.85
VESA	800 × 600	35.16	56.25
VESA	800 × 600	37.88	60.32
VESA	800 × 600	48.08	72.19
VESA	800 × 600	46.88	75
VESA	800 × 600	53.67	85.06
MAC	832 × 624	49.73	74.55
VESA	1024 × 768	35.5	43 Interlaced
VESA	1024 × 768	48.36	60
VESA	1024 × 768	56.47	70.07
MAC	1024 × 768	60.24	74.93
VESA	1024 × 768	60.02	75.03
VESA	1024 × 768	68.68	85
# VESA	1152 × 864	67.5	75
# MAC	1152 × 870	68.68	75.06
# SGI	1152 × 900	71.74	76.05
# VESA	1280 × 960	60	60
# VESA	1280 × 1024	63.98	60.02
# MAC	1280 × 1024	69.89	65.18
# VESA	1280 × 1024	79.98	75.03
# VESA	1280 × 1024	91.15	85.02
# SXGA+	1400 × 1050	65.32	59.98
# HDTV (1080p)	1920 × 1080	67.5	60 Progressive
# SDTV(576i)(625i)	—	15.6	50
# SDTV(576p)(625p)	—	31.5	50
# HDTV (1080i)(1125i)	1920 × 1080	33.75	60 Interlace
# HDTV (1080i)(1125i)	1920 × 1080	28.13	50 Interlace
# HDTV (720p)(750p)	1280 × 720	45	60 Progressive
# SDTV (480p)(525p)	—	31.47	59.94 Progressive
# VESA	1600 × 1200	75.0	60
# VESA	1600 × 1200	81.25	65
# VESA	1600 × 1200	87.5	70
# VESA	1600 × 1200	93.75	75
DVD YCbCr	—	15.73	59.94 Interlaced
DVD YCbCr	—	15.63	50 Interlaced

: Images in above flagged with # are compressed with scaling technology.

NOTE: Some composite sync signals may not be displayed correctly.

Signals other than those specified in the table above may not be displayed correctly. If this should happen, change the refresh rate or resolution on your PC. Refer to Display Properties help section of your PC for procedures.

UXGA (1600 x 1200) is supported for separate sync signal only.

⑥ PC Control Codes and Cable Connection

PC Control Codes

Function	Code Data							
POWER ON	02H	00H	00H	00H	00H	02H		
POWER OFF	02H	01H	00H	00H	00H	03H		
INPUT SELECT COMPUTER-1	02H	03H	00H	00H	02H	01H	01H	09H
INPUT SELECT COMPUTER-2	02H	03H	00H	00H	02H	01H	02H	0AH
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H	0BH	13H
NO SHOW ON	02H	10H	00H	00H	00H	12H		
NO SHOW OFF	02H	11H	00H	00H	00H	13H		
SOUND MUTE ON	02H	12H	00H	00H	00H	14H		
SOUND MUTE OFF	02H	13H	00H	00H	00H	15H		

NOTE: Contact your local dealer for a full list of the PC Control Codes if needed.

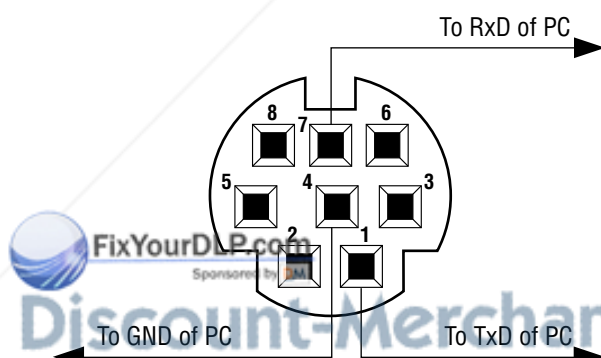
Cable Connection

Communication Protocol

Baud rate 19200 bps
 Data length 8 bits
 Parity No parity
 Stop bit One bit
 X on/off None
 Communications procedure Full duplex

NOTE: Depending on the equipment, a lower baud rate may be recommended for long cable runs.

PC Control Connector (DIN-8P)



NOTE: Pins 2, 3, 5, 6 and 8 are used inside the projector.

7 Troubleshooting Check List

Before contacting your dealer or service personnel, check the following list to be sure repairs are needed, you may also refer to the "Troubleshooting" section in your user's manual. This checklist below will help us solve your problem more efficiently.

* Print the following pages.

Frequency of occurrence ☐ always ☐ sometimes (How often? _____) ☐ other (_____)

Power

- ☐ No power (POWER indicator does not light green) See also "WARNING Indicator (WARNING)".
 - ☐ Power cord's plug is fully inserted into the wall outlet.
 - ☐ Main power switch is pressed to the ON position.
 - ☐ Lamp cover is installed correctly.
 - ☐ Lamp counter (lamp operation hours) was cleared after lamp replacement.
 - ☐ No power even though you press and hold the POWER button for a minimum of 2 seconds.
- ☐ Shut down during operation.
 - ☐ Power cord's plug is fully inserted into the wall outlet.
 - ☐ Lamp cover is installed correctly.
 - ☐ Power Management is turned off (only models with the Power Management function).
 - ☐ Sleep Timer is turned off (only models with the Sleep Timer function).

Video and Audio

- ☐ No image is displayed from your PC or video equipment to the projector.
 - ☐ Still no image even though you connect the projector to the PC first, then start the PC.
 - ☐ Enabling your notebook PC's signal output to the projector.
 - *A combination of function keys will enable/disable the external display. Usually, the combination of the "Fn" key along with one of the 12 function keys turns the external display on or off.*
 - ☐ No image (blue background, logo, no display).
 - ☐ Still no image even though you press the AUTO PC button.
 - ☐ Still no image even though you carry out "Factory default" in the projector's menu.
 - ☐ Signal cable's plug is fully inserted into the input connector
 - ☐ A message appears on the screen. (_____)
 - ☐ The source connected to the projector is active and available.
 - ☐ Still no image even though you adjust the brightness and/or the contrast.
 - ☐ Input source's resolution and frequency are supported by the projector.
- ☐ Image is too dark.
 - ☐ Remains unchanged even though you adjust the brightness and/or the contrast.
- ☐ Image is distorted.
 - ☐ Image appears to be trapezoidal (unchanged even though you carry out the "Keystone adjustment").
- ☐ Remote control does not work.
 - ☐ No obstacles between the sensor of the projector and the remote control.
 - ☐ Projector is placed near a fluorescent light that can disturb the infrared remote controls.
 - ☐ One or more remote sensors are enabled (only models with the Remote Sensor Selection function).
 - ☐ Batteries are new and are not reversed in installation.
 - ☐ If present on the remote control, projector selector switch is not used.
- ☐ Parts of the image are lost.
 - ☐ Still unchanged even though you press the AUTO PC button.
 - ☐ Still unchanged even though you carry out "Factory default" in the projector's menu.
- ☐ Image is shifted in the vertical or horizontal direction.
 - ☐ Horizontal and vertical positions are correctly adjusted on a computer signal.
 - ☐ Input source's resolution and frequency are supported by the projector.
 - ☐ Some pixels are lost.
- ☐ Image is flickering.
 - ☐ Still unchanged even though you press the AUTO PC button.
 - ☐ Still unchanged even though you carry out "Factory default" in the projector's menu.
 - ☐ Image shows flickering or color drift on a computer signal.
- ☐ Image appears blurry or out of focus.
 - ☐ Still unchanged even though you checked the signal's resolution on PC and changed it to projector's native resolution.
 - ☐ Still unchanged even though you adjusted the focus.
- ☐ No sound.
 - ☐ Audio cable is correctly connected to the audio input of the projector.
 - ☐ Still unchanged even though you adjusted the volume level.
 - ☐ AUDIO OUT is connected to your audio equipment (only models with the AUDIO OUT connector).
- ☐ Buttons on the projector cabinet do not work (only models with the Key lock function).
 - ☐ Key lock is not turned on or is disabled in the menu.
 - ☐ Still unchanged even though you press and hold the BACK button for a minimum of 10 seconds.

In the space below please describe your problem in detail.

Information on application and environment where your projector is used

Projector

Model number:

Serial No.:

Date of purchase:

Lamp operating time (hours):

Lamp Mode: ☐ Normal ☐ Quiet

Information on input signal:

Horizontal sync frequency [] kHz

Vertical sync frequency [] Hz

Sync polarity H ☐ (+) ☐ (-)

V ☐ (+) ☐ (-)

Sync type ☐ Separate ☐ Composite

☐ Sync on Green

WARNING Indicator:

Steady light ☐ Orange ☐ Green

Flashing light [] cycles

Remote control model number:

Installation environment

Screen size: inch

Screen type: ☐ White matte ☐ Beads ☐ Polarization

☐ Wide angle ☐ High contrast

Throw distance: feet/inch/m

Orientation: ☐ Ceiling mount ☐ Desktop

Power outlet connection:

☐ Connected directly to wall outlet

☐ Connected to power cord extender or other (the number of connected equipment _____)

☐ Connected to a power cord reel or other (the number of connected equipment _____)

Computer

Manufacturer:

Model number:

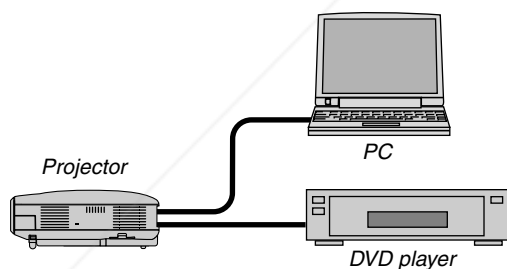
Notebook PC ☐ / Desktop ☐

Native resolution:

Refresh rate:

Video adapter:

Other:



Signal cable

Canon standard or other manufacturer's cable?

Model number: Length: inch/m

Distribution amplifier

Model number:

Switcher

Model number:

Adapter

Model number:

Video equipment

VCR, DVD player, Video camera, Video game or other

Manufacturer:

Model number:

Canon

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