

Portable Projector

User's Manual



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NOTES

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- (4) Notwithstanding article (3), NEC will not be responsible for any claims on loss of profit or other matters deemed to result from using the Projector.

Important Information

Safety Cautions

Precautions

Please read this manual carefully before using your NEC VT700 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. THERE ARE HIGH-VOLTAGE COMPONENTS 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.

DOC Compliance Notice (for Canada only)

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Machine Noise Information Regulation - 3. GPSGV,

The highest sound pressure level is less than 70 dB (A) in accordance with EN 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.

Disposing of your used product



EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes projectors and their electrical accessories or lamps. When you dispose of such products, please follow the guidance of your local authority and/or ask the shop where you purchased the product.

After collecting the used products, they are reused and recycled in a proper way. This effort will help us reduce the wastes as well as the negative impact such as mercury contained in a lamp to the human health and the environment at the minimum level.

The mark on the electrical and electronic products only applies to the current European Union Member States.

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.

RF Interference (for USA only)

WARNING

The Federal Communications Commission does not allow any modifications or changes to the unit EXCEPT those specified by NEC Display Solutions of America, Inc. in this manual. Failure to comply with this government regulation could void your right to operate this equipment. 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.

For UK only: In UK, a BS approved power cable with moulded plug has a Black (five Amps) fuse installed for use with this equipment. If a power cable 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.

<u> Installation</u>

- Do not place the projector in the following conditions:
 - on an unstable cart, stand, or table.
 - near water, baths, or damp rooms.
 - in direct sunlight, near heaters, or heat radiating appliances.
 - in a dusty, smoky or steamy environment.
 - on a sheet of paper or cloth, rugs or carpets.
- If you wish to have the projector installed on the ceiling:
 - Do not attempt to install the projector 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.

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 Å

- Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the build-up of heat inside your projector. Allow at least 4 inches (10cm) of space between your projector and a wall.
- Do not try to touch the ventilation outlet on the left front (when seen from the front) as it can become heated while the projector is turned on and immediately after the projector is turned off.
- 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.
- Do not place any objects on top of the projector.
- Do not touch the power plug during a thunderstorm. Doing so can cause electrical shock or fire.
- 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.
- Do not look into the lens while the projector is on. Serious damage to your eyes could result.
- 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.
- Do not cover the lens with the black 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.
- 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.
- Handle the power cable carefully. A damaged or frayed power cable can cause electric shock or fire.
 - Do not use any power cables than the supplied one.
 - Do not bend or tug the power cable excessively.
 - Do not place the power cable under the projector, or any heavy object.
 - Do not cover the power cable with other soft materials such as rugs.
 - Do not heat the power cable.
 - Do not handle the power plug with wet hands.
- Turn off the projector, unplug the power cable and have the projector serviced by a qualified service personnel under the following conditions:
 - When the power cable or plug is damaged or frayed.
 - If liquid has been spilled into the projector, or if it has been exposed to rain or water.
 - If the projector does not operate normally when you follow the instructions described in this user's manual.
 - If the projector has been dropped or the cabinet has been damaged.
- If the projector exhibits a distinct change in performance, indicating a need for service.
- Disconnect the power cable and any other cables before carrying the projector.
- Turn off the projector and unplug the power cable before cleaning the cabinet or replacing the lamp.
- Turn off the projector and unplug the power cable if the projector is not to be used for an extended period of time.

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.
- Do not send the projector in the soft case by parcel delivery service or cargo shipment. The projector inside the soft case could be damaged.
- When carrying the projector by the carrying handle, make sure the two screws that attach the carrying handle to the projector cabinet are tight.

Insufficient tightening of the two screws could result in the projector falling and causing injury.

- Select [High] in Fan mode if you continue to use the projector for consecutive days. (From the menu, select [Setup] → [Options] → [Fan Mode] → [High].)
- Do not turn off the AC power by pressing the main power switch or by unplugging the power cable when the projector is powered on.
- Do not turn off the AC power for 60 seconds after the lamp is turned on and while the POWER indicator is blinking green. Doing so could cause premature lamp failure.

Remote Control Precautions

- Handle the remote control carefully.
- If the remote control gets wet, wipe it dry immediately.
- Avoid excessive heat and humidity.
- Do not heat, take apart, or throw batteries into fire.
- If you will not be using the remote control for a long time, remove the batteries.
- Ensure that you have the batteries' polarity (+/-) aligned correctly.
- Do not use new and old batteries together, or use different types of batteries together.
- Dispose of used batteries according to your local regulations.

Lamp Replacement

- To replace the lamp, follow all instructions provided on page 50.
- Be sure to replace the lamp when the message [The lamp has reached the end of its usable life. Please replace the 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.

A Lamp Characteristic

The projector has a high-pressure mercury lamp as a light source.

A lamp has a characteristic that its brightness gradually decreases with age. Also repeatedly turning the lamp on and off will increase the possibility of its lower brightness.

When removing the lamp from a ceiling-mounted projector, make sure that no one is under the projector. Glass fragments could fall if the lamp has been burned out.

About High Altitude mode

- Set [Fan Mode] to [High Altitude] when using the projector at altitudes approximately 5500 feet/1600 meters or higher. Using the projector at altitudes approximately 5500 feet/1600 meters or higher without setting to [High Altitude] can cause the projector to overheat and the protector could shut down. If this happens, wait a couple minutes and turn on the projector.
- Using the projector at altitudes less than approximately 5500 feet/1600 meters and setting to [High Altitude] can cause the lamp to overcool, causing the image to flicker. Switch [Fan Mode] to [Auto].
- Using the projector at altitudes approximately 5500 feet/1600 meters or higher can shorten the life of optical components such as the lamp.

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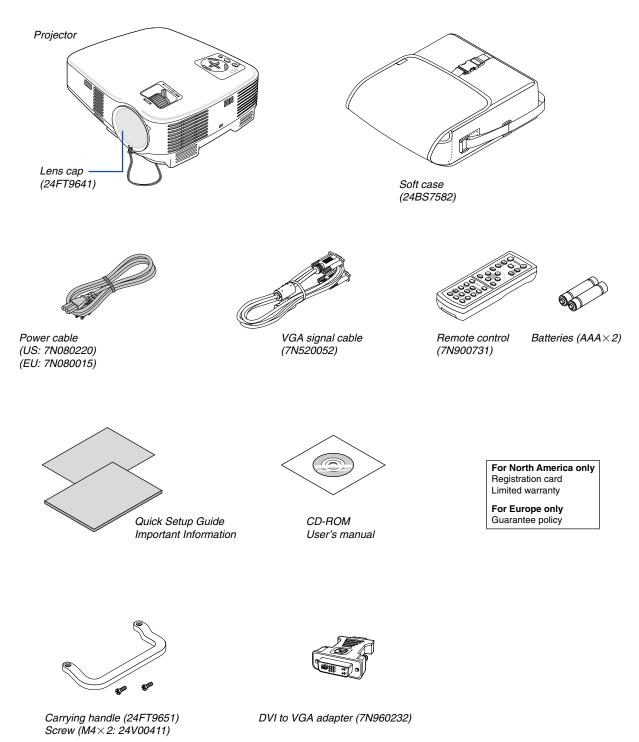
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1. Introduction

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.



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

This projector 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, you can use the projector to project images from behind the screen, and the projector can be 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 Wall Color Correction presets provide for adaptive color correction when projecting onto non-white screen material
- Quick start & quick cool down

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

Powering down; The fans stop 30 seconds after turning off the power from the remote control or cabinet control panel. The projector can be put away immediately after the projector is powered down.

Also, the main power of the projector can be turned off by pressing the main power switch or unplugging the power cable even during the cool down period after the projector is turned off.

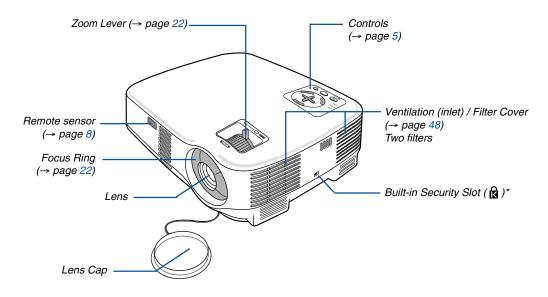
- DVI input connector (DVI-I 29 Pin) with HDCP compatible
- HDTV (1080i, 720p) and SDTV (576p, 480p) compatibility
- Color Management system
- Short focal length lens
- Display popular wide screen and full screen aspect ratios 16:9 and 4:3
- Built-in speaker for an integrated audio solution
- High resolution display up to UXGA compatible, XGA native resolution
- Multiple video mode selections (depending on your source)
- Security feature prevents unauthorized individuals from displaying images.
- You can control the projector with a PC or control system using the PC Control port.
- Easy set up and operation
- The contemporary cabinet design is light, compact and complements any office, boardroom Auditorium.
- You can use the supplied wireless remote control and the optional remote mouse receiver to operate your PC mouse from across the room. The optional remote mouse receiver (NP01MR) supports almost any PC using a USB connection.

About this user's manual

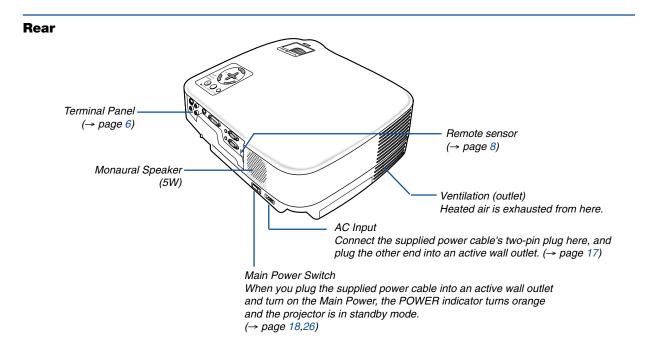
The fastest way to get started is to take your time and do everything right the first time. Take a few minutes now to review the user's manual. This may save you time later on. At the beginning of each section of the manual you'll find an overview. If the section doesn't apply, you can skip it.

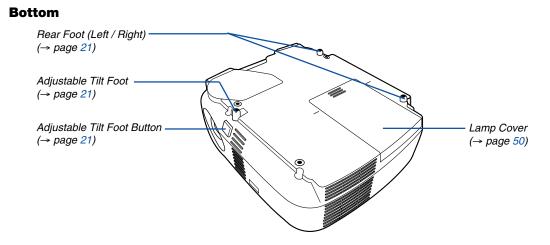
O Part Names of the Projector

Front/Top



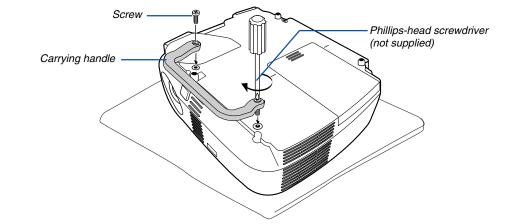
* This security slot supports the MicroSaver ® Security System. MicroSaver ® is a registered trademark of Kensington Microware Inc. The logo is trademarked and owned by Kensington Microware Inc.





Attaching the supplied carrying handle

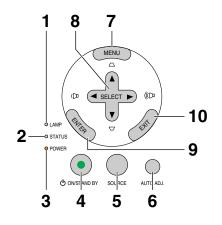
You can carry the projector by attaching the supplied carrying handle securely to the projector. To attach the supplied carrying handle, use a Phillips-head screwdriver and the supplied two screws. Place a soft cloth on the working surface before turning the projector over to prevent scratching the top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



CAUTION

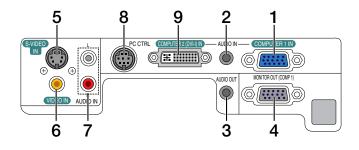
When carrying the projector by the carrying handle, make sure the two screws that attach the carrying handle to the projector cabinet are tight.

Top Features



- 1. LAMP Indicator (→page 50,53)
- 2. STATUS Indicator (→page 53)
- 3. POWER Indicator (→page 18,26,53)
- 4. POWER Button (ON / STAND BY) (₼) (→page 18,26)
- 5. SOURCE Button (→page 20)
- 6. AUTO ADJ. Button (→page 25)
- 7. MENU Button (→page 34)
- SELECT ▲▼ <> / Volume Buttons <> / Keystone Buttons ▲▼ (→page 23,25)
- 9. ENTER Button
- 10. EXIT Button

Terminal Panel Features

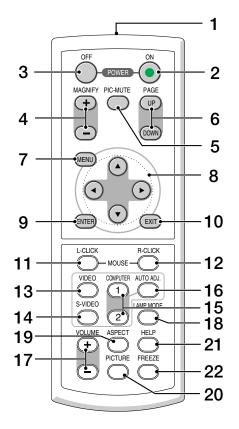


- 1. COMPUTER 1 IN/ Component Input Connector (Mini D-Sub 15 Pin) (→page 11,13)
- 2. AUDIO IN Mini Jack (Stereo Mini) (→page 11,12,15)
- 3. AUDIO OUT Mini Jack (Stereo Mini) (→page 14)
- 4. MONITOR OUT Connector (Mini D-Sub 15 Pin) (→page 14)
- 5. S-VIDEO IN Connector (Mini DIN 4 Pin) (→page 16)
- 6. VIDEO IN Connector (RCA) (→page 16)
- 7. AUDIO Input Jacks L/R (RCA) (→page 15,16)
- PC CONTROL [PC CTRL] Port (DIN 8 Pin) (→page 61)

Use this port to connect a PC or control system. This enables you to control the projector using serial communication protocol. If you are writing your own program, typical PC control codes are on page 61.

9. COMPUTER 2 (DVI-I) IN (DVI-I 29 Pin) (→page 12,13)

Part Names of the Remote Control

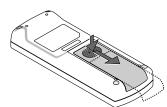


- 1. Infrared Transmitter
 - $(\rightarrow \text{page 8})$
- POWER ON Button (→ page 18)
- POWER OFF Button (→ page 26)
- MAGNIFY (+)(-) Button (→ page 28)
- Field Pield Piel
- PAGE UP/DOWN Button* (→ page 32,33)
- MENU Button (→ page 34)
- 8. SELECT ▲▼ ◄► Button
- 9. ENTER Button
- 10. EXIT Button
- 11. MOUSE L-CLICK Button*
 - (→ page 32,33)

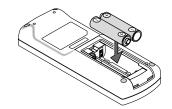
- 12. MOUSE R-CLICK Button* (→ page 32,33)
- 13. VIDEO Button
 - (→ page <mark>20</mark>)
- 14. S-VIDEO Button (→ page 20)
- **15. COMPUTER 1/2 Button** (→ page 20)
- **16. AUTO ADJ. Button** $(\rightarrow page 25)$
- **17. VOLUME (+)(−) Button** (→ page 25)
- **18. LAMP MODE Button** (→ page 29)
- 19. ASPECT Button (→ page 40)
- **20. PICTURE Button** $(\rightarrow page 39,40)$
- **21. HELP Button** (→ page 46,47)
- 22. FREEZE Button (→ page 28)
- * The PAGE UP/DOWN, MOUSE L-CLICK and MOUSE R-CLICK buttons work only when the optional remote mouse receiver is connected with your computer.
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Battery Installation

1 Press firmly and slide the battery cover off.



2 Install new batteries (AAA). Ensure that you have the batteries' polarity (+/–) aligned correctly.



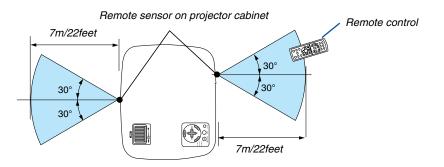
3 Slip the cover back over the batteries until it snaps into place. Do not mix different types of batteries or new and old batteries.



Remote Control Precautions

- Handle the remote control carefully.
- · If the remote control gets wet, wipe it dry immediately.
- Avoid excessive heat and humidity.
- Do not heat, take apart, or throw batteries into fire.
- If you will not be using the remote control for a long time, remove the batteries.
- Ensure that you have the batteries' polarity (+/-) aligned correctly.
- Do not use new and old batteries together, or use different types of batteries together.
- Dispose of used batteries according to your local regulations.

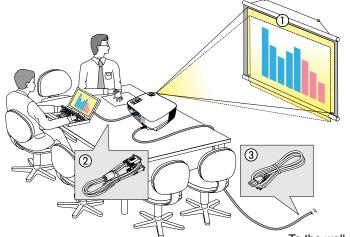
Operating Range for Wireless Remote Control



- The infrared signal operates by line-of-sight up to a distance of about 22 feet/7 m 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.
- Connect your computer or video equipment to the projector.
 (→ page 11,12,13,14,15,16)
- 3 Connect the supplied power cable. $(\rightarrow page 17)$

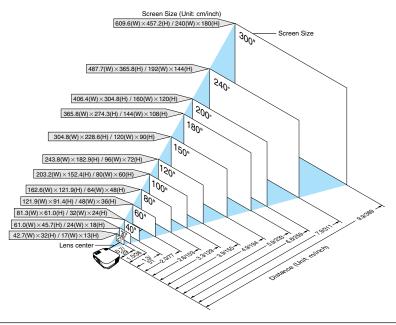
NOTE: Ensure that the power cable and any other cables are disconnected before moving the projector. When moving the projector or when it is not in use, cover the lens with the lens cap.

To the wall outlet.

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" (0.53 m) measured diagonally when the projector is roughly 38 inches (1.0 m) from the wall or screen. The largest the image can be is 300" (7.6 m) when the projector is about 389 inches (9.9 m) from the wall or screen.



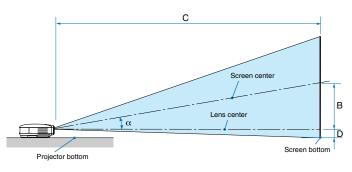
TIP:

- The distances are indicated by intermediate values between tele and wide. Use as a rule of thumb.
- The Zoom lever adjusts the image size +/-10%
- For more details on throw distance, see page 10.

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 screen bottom (top of screen for ceiling application)
- α = Throw angle

NOTE: Distances may vary +/-5%.

		Scree	n Size			E				С			[<u>,</u>		α	
Diag	jonal	Wi	dth	Hei	ght	1	5	wi	de		te	le	l	J	wide		tele
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	-	inch	mm	inch	mm	degree	-	degree
21	533	17	427	13	320	4	110	-	-	-	29	730	-2	-50	-	-	8.6
25	635	20	508	15	381	5	130	28	720	-	34	870	-2	-60	10.3	-	8.6
30	762	24	610	18	457	6	160	34	870	-	41	1050	-3	-70	10.2	-	8.5
40	1016	32	813	24	610	8	210	46	1170	-	56	1410	-4	-100	10.1	-	8.4
60	1524	48	1219	36	914	12	310	70	1770	-	84	2130	-6	-140	10.1	-	8.4
72	1829	58	1463	43	1097	15	380	84	2130	-	101	2560	-7	-170	10.0	-	8.4
80	2032	64	1626	48	1219	17	420	93	2370	-	112	2850	-8	-190	10.0	-	8.4
84	2134	67	1707	50	1280	17	440	98	2490	-	118	2990	-8	-200	10.0	-	8.4
90	2286	72	1829	54	1372	19	470	105	2670	-	126	3210	-8	-210	10.0	-	8.4
100	2540	80	2032	60	1524	21	520	117	2970	-	141	3570	-9	-240	10.0	-	8.3
120	3048	96	2438	72	1829	25	630	141	3570	-	169	4290	-11	-290	10.0	-	8.3
150	3810	120	3048	90	2286	31	790	176	4470	-	211	5370	-14	-360	10.0	-	8.3
180	4572	144	3658	108	2743	37	940	211	5370	-	254	6450	-17	-430	10.0	-	8.3
200	5080	160	4064	120	3048	41	1050	235	5970	-	282	7170	-19	-480	10.0	-	8.3
210	5334	168	4267	126	3200	43	1100	247	6270	-	296	7530	-20	-500	10.0	-	8.3
240	6096	192	4877	144	3658	50	1260	282	7170	-	339	8610	-23	-570	9.9	-	8.3
270	6858	216	5486	162	4115	56	1410	318	8070	-	381	9690	-25	-640	9.9	-	8.3
300	7620	240	6096	180	4572	62	1570	353	8970	-	424	10770	-28	-710	9.9	-	8.3

WARNING

- * Installing your projector on the ceiling must be done by a qualified technician. Contact your NEC 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 104°F (40°C) (Eco mode selected automatically at 95°F to 104°F/35°C to 40°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 when a smaller space is required. Contact your NEC 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. (\rightarrow page 43)

Ø Making Connections

NOTE: When using with a notebook PC, be sure to connect the projector and notebook PC while the projector is in standby mode and before turning on the power to the notebook PC.

In most cases the output signal from the notebook PC is not turned on unless connected to the projector before being powered up.

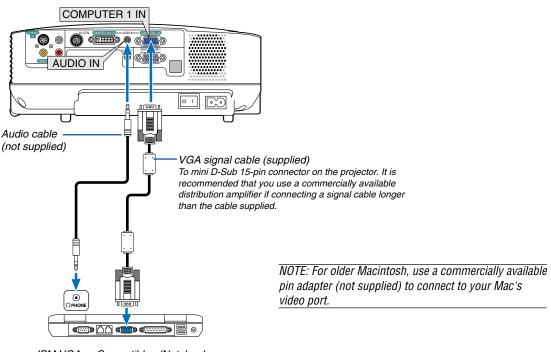
* If the screen goes blank while using your remote control, it may be the result of the computer's screen-saver or power management software.

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 example, NEC laptops use Fn + F3, while Dell laptops use Fn + F8 key combinations to toggle through external display selections.

Connecting Your PC or Macintosh Computer

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



IBM VGA or Compatibles (Notebook type) or Macintosh (Notebook type)

NOTE: The projector is not compatible with video decoded outputs of the NEC ISS-6020 switcher.

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 ADJ. button on the remote control or the projector cabinet.

When Viewing a DVI Digital Signal

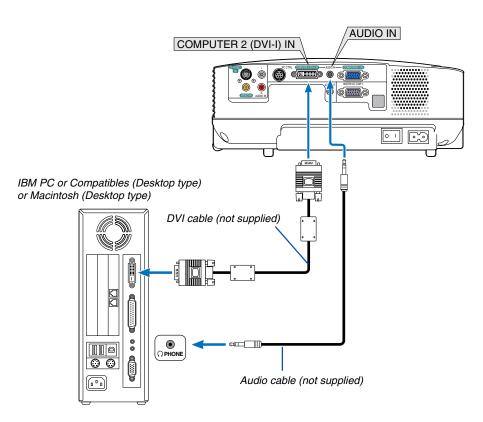
To project a DVI digital signal, be sure to connect the PC and the projector using a DVI cable (not supplied) before turning on your PC or projector. Turn on the projector first and select Computer 2 (Digital) from the source menu before turning on your PC.

Failure to do so may not activate the digital output of the graphics card resulting in no picture being displayed. Should this happen, restart your PC.

Do not disconnect the DVI cable while the projector is running. If the signal cable has been disconnected and then reconnected, an image may not be correctly displayed. Should this happen, restart your PC.

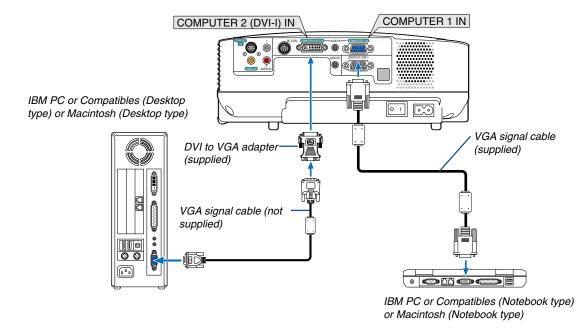
NOTE:

- Use a DVI cable or the one compliant with DDWG (Digital Display Working Group) DVI (Digital Visual Interface) revision 1.0 standard. The DVI cable should be within 5 m (196") long. Both single and dual types of DVI cable can be used.
- The DVI (DIGITAL) connector accepts VGA (640x480), SVGA (800x600), 1152x864, XGA (1024x768) and SXGA (1280x1024 @ up to 60Hz).



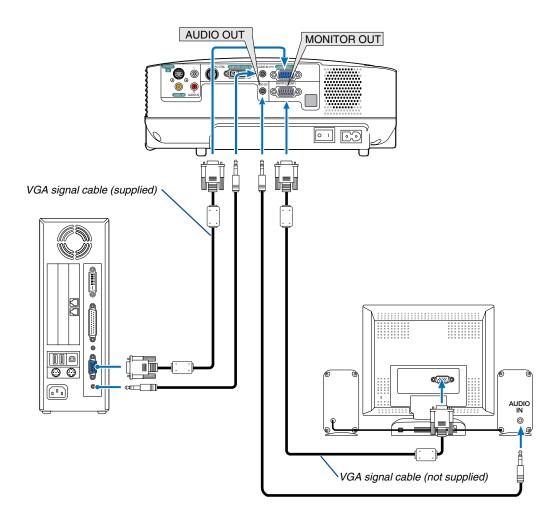
Using Two Analog COMPUTER Inputs Simultaneously

If you need to use two analog COMPUTER inputs simultaneously, connect a VGA signal cable as shown below.



NOTE: When the DVI to VGA adapter is not to be used for an extended period of time, remove it from the projector. Failure to do so may cause damage to the connector of the projector.

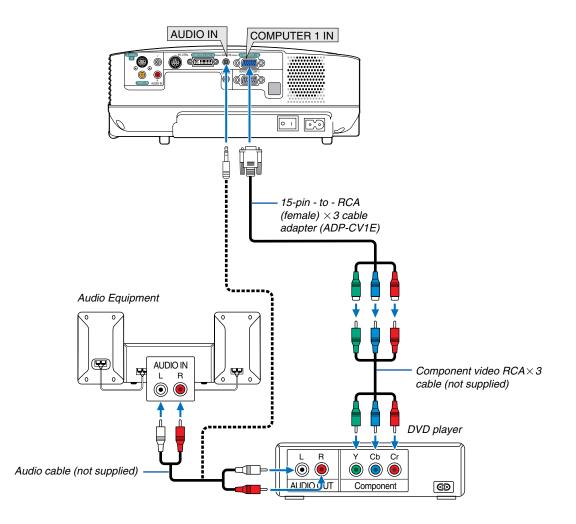
Connecting an External Monitor



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

NOTE:

- Daisy chain connection is not possible.
- The signal from the COMPUTER 2 IN connector cannot be output from the MONITOR OUT connector.
- When the DVI Digital signal is selected, no signals will be output from the MONITOR OUT connector.

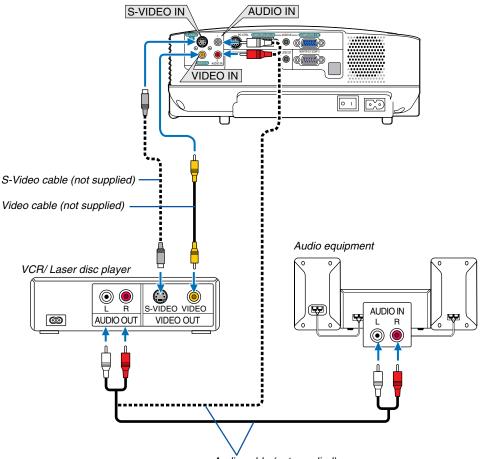


Connecting Your DVD Player with Component Output

A component signal will be automatically displayed. If not, from the menu, select [Setup] \rightarrow [Options] \rightarrow [Signal Select] \rightarrow [Computer 1], 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



Audio cable (not supplied)

NOTE: The AUDIO IN L/MONO and R jacks (RCA) are shared between the Video and S-Video inputs.

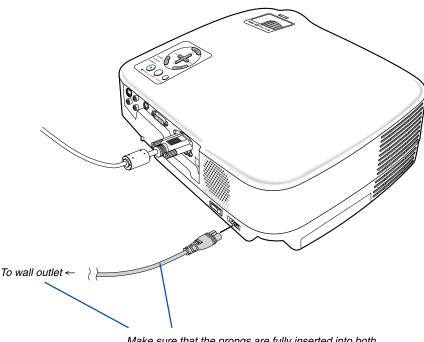
NOTE: Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.

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 Cable

Connect the supplied power cable to the projector.

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



Make sure that the prongs are fully inserted into both the AC IN and the wall outlet.

Do not try to touch the ventilation outlet on the left front (when seen from the front) as it can become heated while the projector is turned on and immediately after the projector is turned off.

Do not turn off the AC power by pressing the main power switch or by unplugging the power cable when the projector is powered on. Doing so can cause damage to the projector.

TIP: The projector can be turned off (by either the main power switch or by unplugging the power cable) during its cool down period after it is turned off using the remote control or via the power button on the control panel.

3. Projecting an Image (Basic Operation)

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

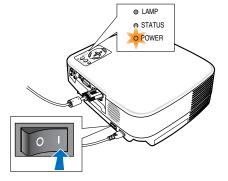
Turning on the Projector

NOTE:

- The projector has two power switches: a main power switch and a POWER (ON/STAND BY) button (POWER ON and OFF on the remote control).
- When plugging in or unplugging the supplied power cable, make sure that the main power switch is pushed to the off (○) 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 (1).

The POWER indicator will light orange. See the Power Indicator section.(→ page 53)

2. Remove the lens cap



3. Press the POWER (ON/STAND BY) button on the projector cabinet or the POWER ON button on the remote control for 1 second.

The POWER indicator will turn to green and the projector will become ready to use.

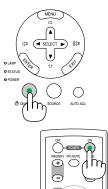
After you turn on your projector, ensure that the computer or video source is turned on and that your lens cap is removed.

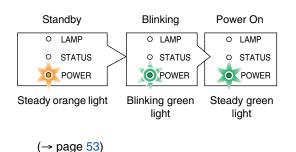
NOTE: When no signal is available, a blue screen is displayed at the factory default.

When the projector displays a blue, black, or logo screen, the projector will automatically switch to the Eco mode. The projector will return to the Normal mode once a signal is connected.

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

The projector cannot be turned off for 60 seconds after the lamp is turned on and while the POWER indicator is blinking green. Doing so could cause premature lamp failure.





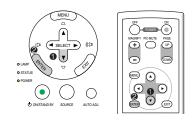
Note on Startup screen (Menu Language Select screen)

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 ▲ or ▼ button to select one of the 8 languages from the menu.

Menu Language Select					
Please select a menu language.	English				
Wählen Sie bitte die Menü Sprache aus.	Deutsch				
S'il vous plaît choisir la langue de menu.	Français				
Per favore di scegliere la lingua di menu.	Italiano				
Escoja por favor el idioma de menú.	Español				
Välj menyn språken.	Svenska				
メニュー言語を選択してください。	日本語				
请选择菜单语言.	中文				
Select "UP", "DOWN" & "ENTER"					



2. Press the ENTER 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.

 $(\rightarrow$ [Language] on page 37 and 42)

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 Eco, the LAMP 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 detects abnormal high temperature. In this condition the projector will not turn on to protect the internal system. If this happens, 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 STATUS 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 video source equipment connected to the projector.

Selecting from Source List

Press and quickly release the SOURCE button on the projector cabinet to display the Source list. Each time the SOURCE button is pressed, the input source will change as follows: "Computer 1", "Computer 2 (Digital / Analog)", "Video" (VCR or laser disc player), "S-Video", To display the selected source, allow 1 second to elapse.

Detecting the Signal Automatically

Press and hold the SOURCE button for a minimum of 2 seconds, the projector will search for the next available input source. Each time you press and hold the SOURCE button for a minimum of 2 seconds, the input source will change as follows:

Computer1 \rightarrow Computer2 (Digital) \rightarrow Computer2 (Analog) \rightarrow Video \rightarrow S-Video \rightarrow Computer1 \rightarrow ...

TIP:

If no input signal is present, the input will be skipped.

Using the Remote Control

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

TIP: The COMPUTER 2 button on the remote control toggles the Computer 2 source between [Computer 2 (Digital)] and [Computer 2 (Analog)].

Selecting Default Source

You can set a source as the default source so that it will be displayed each time the projector is turned on.

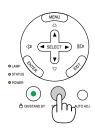
 Select [Setup] → [Options] → [Default Source Select] from the menu.

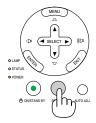
The [Default Source Select] screen will be displayed.

- 2. Select a source as the default source, and press the ENTER button.
- 3. Press the EXIT button a few times to close the menu.
- 4. Restart the projector.

The source you selected in step 2 will be projected.

(→ page 45)







Picture	General Installation Options								
Image Options	Off Timer	v Off							
Setup	Auto Adjust	✓ Normal							
Information	Auto Start	v Off							
Reset	Power Management	√ Off							
	Fan Mode	- Auto							
	Default Source Select	√ Last		•					
	Signal Select			•					
	Deinterlace	OOff	@ On						

Picture	General Installation Opt	ona	
Image Options Setup	O Last O Auto	Off	
Information	O Computer1	Off	
Reset	Computer2(Digital)	Off	-
	O Video	Last	•
	O S-Video	off ®On	

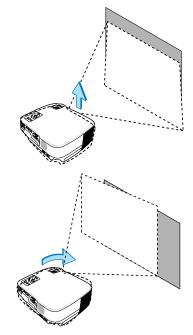
Adjusting the Picture Size and Position

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. (→ page 23)

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



Adjust the Tilt Foot

1. Lift the front edge of the projector.

CAUTION:

Do not try to touch the ventilation outlet during Tilt Foot adjustment as it can become heated while the projector is turned on and during its cool down period after it is turned off.

- 2. Push and hold the Adjustable Tilt Foot Button on the front of the projector to extend the adjustable tilt foot.
- 3. Lower the front of the projector to the desired height.
- 4. Release the Adjustable Tilt Foot Button to lock the Adjustable tilt foot.

There is approximately 10 degrees (up) of adjustment for the front of the projector.

The rear foot height can be adjusted up to 0.4 inch/10 mm.

Rotate the rear foot to the desired height in order to square the image on the projection surface, but the vertical distance from the bottom to the desk or floor should be 0.4 inch /10mm to make the projector horizontal on the flat surface.

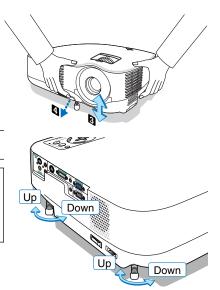
NOTE: Rotating the rear foot too much may cause the foot to come out of the projector.

AUTION:

• Do not use the tilt-foot for purposes other than originally intended. Misuses such as using the tilt foot to carry or hang (from the wall or ceiling) the projector can cause damage to the projector.

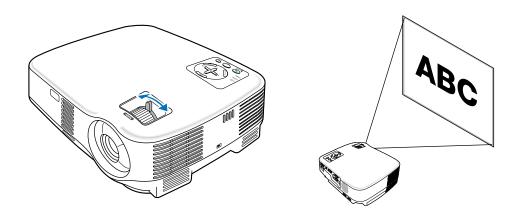
Adjustable Tilt Foot Button

Adjustable Tilt Foot



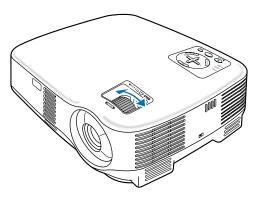
Zoom

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



Focus

Use the FOCUS ring to obtain the best focus.



Orrecting Keystone Distortion

Correcting Keystone Distortion

If the screen is tilted vertically, keystone distortion becomes large. Proceed with the following steps to correct keystone distortion



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

NOTE: The Keystone correction range can be made narrower, depending on a signal or its aspect ratio selection.

Adjusting with buttons on the cabinet

1. Press the SELECT ▲ or ▼ button with no menus displayed

The keystone bar will be displayed.

Keystone	

2. Use the SELECT \blacktriangle or \triangledown to correct the keystone distortion.

The keystone bar will be closed after a period of time.

NOTE: When the menu is displayed, the above operation is not available. When the menu is displayed, press the MENU button to close the menu and start the Keystone correction. From the menu, select [Setup] \rightarrow [General] \rightarrow [Keystone]. The changes can be saved with [Keystone Save]. (\rightarrow page 42)

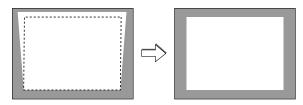
Adjusting with the Remote Control

1. Press the MENU button.

The menu will be displayed.

- 2. Press the SELECT ▼ button to select [Setup] and press the ENTER button.
- 3. Press the SELECT ▼ button to select [Keystone].

Adjust so that the image is rectangular.



5. Press the MENU button.

The menu will be closed.

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

TIP: The changes can be saved with [Keystone Save]. (\rightarrow page 42)

Adjusting with the Auto Keystone Function

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.

TIP: Even when the menu setting for [Auto Keystone] is turned on, [Keystone] can be adjusted manually.

To turn on [Auto Keystone], proceed the following steps.

1. Press the MENU button

The menu will be displayed.

- 2. Press the SELECT ▼ button to select [Setup] and press the ENTER button.
 - The [General] tab will be highlighted.

3. Press the SELECT ▼ button.

The [Auto Keystone] will be highlighted.

Picture	General Installation Opti	ons]
Image Options	Auto Keystone	Off	○ On
Setup	Keystone		
Information	Keystone Save	Off	0 On
Reset	Wall Color	√ Off	•
	Lamp Mode	√ Normal	•
	Language 🔀	√ English	•
	Beep	O Off	● On
Computer1			

5. Press the MENU button.

The menu will be closed.

NOTE:

- Vertical distortions between offset angles of +/- 30 degrees can be corrected.
- The Auto Keystone correction will take effect in 2 seconds after changing the projection angle during projection.
- The left and right (horizontal) keystone correction is not available.

Place the projector so that the lens surface is parallel to the screen. The rear feet of the projector can be adjusted to level the projector.

NOTE:

- Auto and Manual Keystone correction angle could be less than 30 degrees depending on the signal and/or aspect ratios.
- Using keystone correction can cause the image to be slightly blurred because the correction is made electronically.

NOTE:

- When the menu is displayed, the Keystone Correction operation is not available by using the buttons on the projector cabinet. When the menu is displayed, press the EXIT button to close the menu and then perform the Keystone correction.
- From the menu, select [Setup] → [General] → [Keystone]. The changes can be saved with [Keystone Save].
- (→page <mark>42</mark>)

TIP: If you have one of the following conditions, the projector's Auto Keystone may not be performed correctly.

- The screen is tilted
- The room temperature is too high or too low
- The optical zoom is maximized or minimized

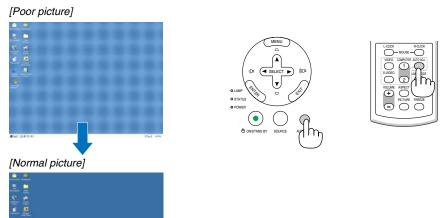
G Optimizing RGB Picture Automatically

Adjusting the Image Using Auto Adjust

Optimizing an RGB image automatically.

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

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

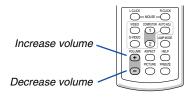


NOTE:

Some signals may take time to display or may not be displayed correctly.

- The Auto Adjust function does not work for component, video, and DVI digital signals.
- If the Auto Adjust operation cannot optimize the RGB signal, try to adjust Horizontal/Vertical Position, Clock and Phase manually. (→page 41)

6 Turning Up or Down Volume



Sound level from the speaker can be adjusted.

TIP: When no menus appear, the SELECT < and b buttons on the projector cabinet work as a volume control.

Turning off the Projector

To turn off the projector:

1. First, press the POWER (ON/STAND BY) button on the projector cabinet or the POWER OFF button on the remote control. The [Power Off / Are you sure?] message will appear.



2. Secondly, press the ENTER button or press the POWER (ON/STAND BY) or the POWER OFF button again.

The power indicator will glow orange. After the projector turns off, the cooling fans keep operating for 30 seconds (Cool-down time).

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

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

TIP: The main power of the projector can be turned off by pressing the main power switch or by unplugging the power cable even during the cool down period after the projector is turned off.

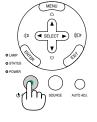
NOTE: Do not turn off the main power within 10 seconds of making adjustment or setting changes and closing the menu. Doing so can cause loss of adjustments and settings.

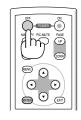
<u> C</u>AUTION:

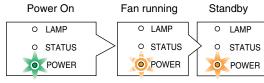
Parts of the projector will become heated during operation. Use caution when picking up the projector immediately after it has been operating.

CAUTION:

- The projector cannot be turned off for 60 seconds after the lamp is turned on and while the POWER indicator is blinking green. Doing so could cause premature lamp failure.
- Do not turn off the AC power by pressing the main power switch or by unplugging the power cable when the projector is powered on. Doing so can cause damage to the projector.



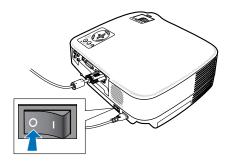




Steady green light

Blinking Sorange light

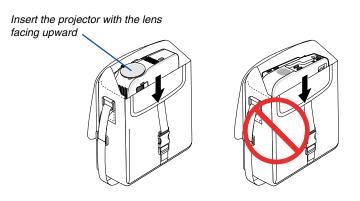




8 After Use

Preparation: Make sure that the projector is turned off.

- 1. Unplug the power cable.
- 2. Disconnect any other cables.
- 3. Retract adjustable tilt foot if extended.
- 4. Cover the lens with the lens cap.
- 5. Put the projector and accessories in the supplied soft case. Place the projector in the soft case with the lens facing upward as shown below. This is to prevent the lens from damage.



NOTE: When placing the projector in the soft case, retract the tilt foot and the rear feet. Failure to do so may case damage to the projector.

Use caution when putting the projector in the soft case immediately after the projector has been operating. The projector cabinet is hot.

4. Convenient Features

Turning off the Image and Sound

Press the PIC-MUTE button to turn off the image and sound for a short period of time. Press again to restore the image and sound.

NOTE:

Sound from the AUDIO OUT jack (Stereo mini) can be turned off.

Ø Freezing a Picture

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

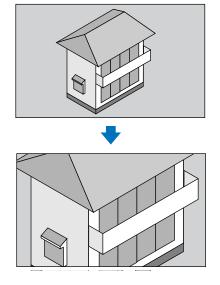
Enlarging a Picture

You can enlarge the picture up to four times.

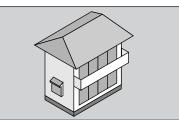
NOTE: The maximum magnification may be less than four times depending on the signal.

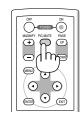
To do so:

- 1. Press the MAGNIFY (+) button to magnify the picture.
 - To move the magnified image, use the SELECT $\blacktriangle, \bigtriangledown, \triangleleft$ or \triangleright button.

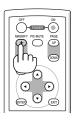


2. Press the MAGNIFY (-) button to return the image to the original size.















Changing Lamp Mode

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

Lamp Mode	Description	Status of LAMP indicator	
Normal Mode	This is the default setting (100% Brightness).	Off	MP O ITUS O WER O
Eco Mode	Select this mode to increase the lamp life (approx. 80% Brightness).	STA	MP • NTUS O WER •

To change to the [Eco] mode, do the following:

- 1. Press the LAMP MODE button on the remote control to display [Lamp Mode] screen.
- 2. Use the SELECT ▲ or ▼ button to select [Eco] mode.

3. Press the ENTER button.

To change from [Eco] to [Normal], Go back to Step 2 and select [Normal]. Repeat Step 3.

NOTE:

- The Lamp Mode can be changed by using the menu. Select [Setup] → [General] → [Lamp Mode].
- The lamp life remaining and lamp hours used can be checked in [Usage Time]. Select [Information] → [Usage Time].
- If the projector is overheated in Normal mode, there may be a case where the Lamp mode automatically changes to Eco mode to protect the projector. When the projector is in Eco mode, the picture brightness decreases. When the projector comes back to normal temperature, the Lamp mode returns to Normal mode.
 Thermometer symbol []] indicates the lamp mode is automatically set to Eco mode because the internal temperature is too high.

③ Preventing the Unauthorized Use of the Projector

To enable the Security function:

1. Press the MENU button.

The menu will be displayed.

2. Use the SELECT ▲ or ▼ button to select [Setup] and press the ENTER button.

Picture	General Installation Options				
Image Options	Orientation	√ Desktop Front			
Setup	Communication Speed	√ 19200bps	•		
Information	Control Panel Lock	√ Off	•		
Reset	Security	√ Off	•		
	Menu Color Select	√ Color	►		
	Menu Display Time	√ Auto 45 sec	•		
	Background	√ Blue	•		
	Filter Message	√ 500[H]	•		
Computer1					

- 3. Use the SELECT ◀ or ► button to select [Installation].
- 4. Use the SELECT ▲ or ▼ button to select [Security] and press the SELECT ▶ button.

5.	Use the SELECT ▲ or ▼	button to select [On] and	press the ENTER button.
----	-----------------------	---------------------------	-------------------------

Picture	General Installation Opt	tions	
Image Options <mark>Setup</mark> Information Reset	Orientation Communication Speed	√ Desktop Front √ 19200bps	*
	○ Off	√ Off <mark>✓ Off</mark> ✓ Color ✓ Auto 45 sec	
	Background Filter Message	√ Blue √ 500[H]	•
Computer1			

The [Security Keyword] screen will be displayed.

6. Type in a combination of the four SELECT buttons ▲▼◀▶ and press the ENTER button.

NOTE: A keyword must be 4 to 10 digits in length. Please make a note of your keyword.

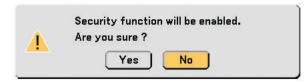


The [Confirm Keyword] screen will be displayed.

NOTE:

Do not forget your keyword. However, if you forget your keyword, NEC or your dealer will provide you with your Release Code upon proof of ownership. See more information at the end of this section. (\rightarrow page 31)

- 7. Type in the same combination of SELECT button $\blacktriangle \lor \blacklozenge$ and press the ENTER button.
- The confirmation screen will be displayed.
- 8. Select [Yes] and press the ENTER button.



The Security function has been enabled.

To turn on the projector when Security is enabled:

- 1. Press the Main Power Switch to the On position (I).
- 2. Press and hold the POWER ON or the ON/STAND BY button for a minimum of 1 second.
- The projector will be turned on and display a message to the effect that the projector is security-protected.
- 3. Press the MENU button.



The Security Keyword screen will be displayed.

4. Enter your keyword in the Security Keyword screen and press the ENTER button.

You can view the projected image.

NOTE: The security disable mode is maintained until the main power is turned off (by setting the main power switch to "O" or unplugging the power cord).

To disable the Security function:

- 1. Press the MENU button.
- The menu will be displayed.
- 2. Use the SELECT ▲ or ▼ button to select [Setup] and press the ENTER button.
- 4. Use the SELECT ▲ or ▼ button to select [Security] and press the SELECT ▶ button.
- 5. Use the SELECT ▲ or ▼ button to select [Off] and press the ENTER button.

Picture	General Installation Opti	ions	`
Image Options Setup Information Reset	Orientation Communication Speed Off OK On Cancel Background Filter Message	 ✓ Desktop Front ✓ 19200bps ✓ Off ✓ On ✓ Color ✓ Auto 45 sec ✓ Blue ✓ 500[H] 	* * * * * * *
Computer1			

The keyword confirmation screen will be displayed.



6. Type in your keyword and press the ENTER button.

When the correct keyword is entered, the Security function will be disabled.

NOTE:

- If you forget your keyword, contact your dealer. Your dealer will provide you with your keyword in exchange for your request code. Your request code is displayed in the Keyword Confirmation screen. In this example [NB52-YGK8-2VD6-K585-JNE6-EYA8] is a request code.
- The [Security] setting cannot be cancelled by using the [Reset] of the menu.

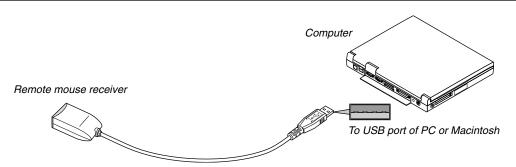
3 Using the Optional Remote Mouse Receiver (NP01MR)

The optional 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.

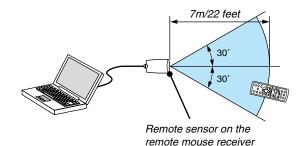
Connecting the remote mouse receiver to your computer

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, Windows Vista, or Mac OS X 10.0.0 or later operating system.

* NOTE: In SP1 or older version of 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 not 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 UP/DOWN Button: scrolls the viewing area of the window or to move to the previous or next slide in PowerPoint on your computer.
- SELECT▲▼◀▶ 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.

About Drag Mode:

By pressing the MOUSE L-CLICK or R-CLICK button for 2 or 3 seconds then releasing, the drag mode is set and the drag operation can be performed simply by pressing the SELECT ▲▼◀▶ button. To drop the item, press the MOUSE L-CLICK (or R-CLICK) button. To cancel it, press the MOUSE R-CLICK (or L-CLICK) button.

NOTE: When you operate the computer using the SELECT $\blacktriangle \forall \blacktriangleleft$ or \triangleright button with the menu displayed, both the menu and the mouse pointer will be affected. Close the menu and perform the mouse operation.

TIP: You can change the Pointer speed on the Mouse Properties dialog box on the Windows. For more information, see the user documentation or online help supplied with your computer.

5. Using On-Screen Menu

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.

Picture Image Options Setup Information Reset	Preset Detail Settings Contrast Brightness Sharpness Color Hue Reset	✓ 2: Presentation	
Computer1			

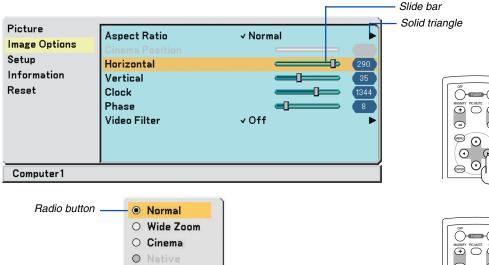
2. Press the SELECT ▲ or ▼ button on the remote control or the projector cabinet to highlight the menu for the item you want to adjust or set.

Picture Image Options Setup Information Reset	Aspect Ratio Cinema Position Horizontal Vertical Clock Phase Video Filter	√ Normal 290 05 05 01 01 8 0 0ff	
Computer1			

3. Press the SELECT ► button or the ENTER button on the remote control or the projector cabinet to select a submenu or item.

Picture Image Options Setup Information Reset	Aspect Ratio Cinema Position Horizontal Vertical Clock Phase Video Filter	✓ Normal	290 35 1344 8 ▲	
Computer1				

- 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. Adjusting the level of a selected item or selecting an item.





Slide bar Indicates settings or the direction of adjustment. • Use the SELECT ◀► buttons to adjust the item.

For Selecting items (Solid triangle)

Solid triangle Indicates further choices are available. A highlighted triangle indicates the item is active.

- (1) Use the SELECT ► button to select the item.
- (2) Use the SELECT ▲▼ buttons to highlight the item you want to set.

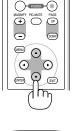
(3) Press the ENTER button. The selected item will be displayed.

For Selecting items (Radio button)

Radio button Use this round button to select an option in a dialog box.

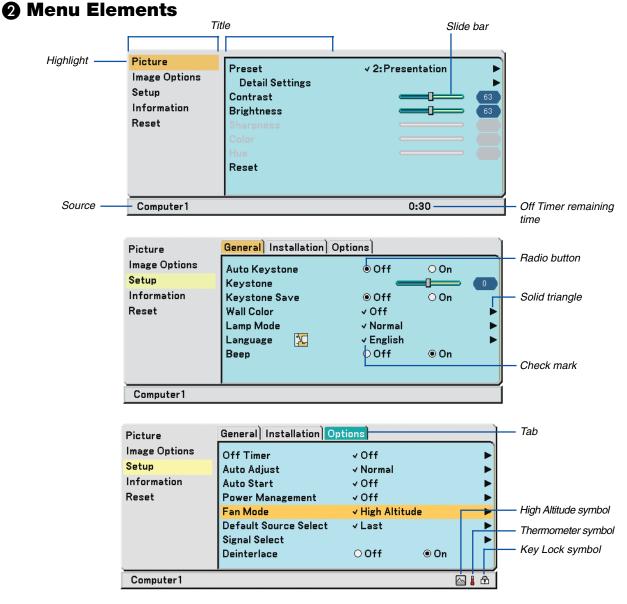
 Use the SELECT ▲▼ buttons to select the item. Changes are stored until you adjust it again. Press the EXIT button to return to the previous screen.

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









Menu windows or dialog boxes typically have the following elements:

TitleIndicates the menu title.
Highlight Indicates the selected menu or item.
Source Indicates the currently selected source.
Off Timer remaining 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.
TabIndicates a group of features in a dialog box. Selecting on any tab brings its page to the front.
Radio button Use this round button to select an option in a dialog box.
Check mark Indicates the item is selected.
Slide bar Indicates settings or the direction of adjustment.
Key Lock symbol Indicates the Control Panel Lock is enabled.
Thermometer symbol Indicates the lamp mode is forcibly set to Eco mode because the internal temperature is too high.
High Altitude symbol Indicates the [Fan Mode] is set to [High Altitude] mode.

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③ List of Menu Items

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

Picture	Default	Item	Resettable
Preset	*	1 to 6	Yes
Detail Settings General			
Reference		High-Bright, Presentation, Video, Movie, Graphic, sRGB	Yes
Gamma Correction		Dynamic, Natural, Black Detail	Yes
Color Temperature		6500, 7800, 8500, 9300	Yes
White Balance			
Contrast RGB, Brightness RGB			
Contrast			Yes
Brightness			Yes
Sharpness			Yes
Color			Yes
Hue			Yes
Reset			

Image Options	Default	Item	Resettable
Aspect Ratio	*	Normal, Wide Zoom, Cinema, Native	Yes
Cinema Position			Yes
Horizontal	*		Yes
Vertical	*		Yes
Clock	*		Yes
Phase	*		Yes
Video Filter	*	Off, Less, More	Yes

Setup		Default	Item	Resettable
General	Auto Keystone	Off	Off, On	Yes
	Keystone			Yes
	Keystone Save	Off	Off, On	Yes
	Wall Color	Off	Off, Blackboard, Blackboard(Gray), Light yellow, Light green, Light blue, Sky blue, Light rose, Pink	Yes
	Lamp Mode	Normal	Normal, Eco	Yes
	Language	English	English, Deutsch, Français, Italiano, Español, Português, Nederlands, Svenska, Norsk, Suomi, Čeština, Magyar, Polski, Türkçe, Русский, Ελληνικά, 日本語, 中文, 한국어, حربي, Dansk	-
	Веер	On	Off, On	Yes
Installation	Orientation	Desktop Front	Desktop Front, Ceiling Rear, Desktop Rear, Ceiling Front	Yes
	Communication Speed	19200	4800, 9600, 19200	_
	Control Panel Lock	Off	Off, On	Yes
	Security	Off	Off, On	_
	Menu Color Select	Color	Color, Monochrome	Yes
	Menu Display Time	Auto 45 sec	Manual, Auto 5 sec, Auto 15sec, Auto 45 sec	Yes
	Background	Blue	Blue, Black, Logo	Yes
	Filter Message	500[H]	Off, 100[H], 200[H], 500[H], 1000[H]	-
Options	Off Timer	Off	Off, 0:30, 1:00, 2:00, 4:00, 8:00, 12:00, 16:00	Yes
	Auto Adjust	Normal	Off, Normal, Fine	Yes
	Auto Start	Off	Off, On	Yes
	Power Management	Off	Off, 0:05, 0:10, 0:20, 0:30	Yes
	Fan Mode	Auto	Auto, High, High Altitude	-
	Default Source Select	Last	Last, Auto, Computer 1, Computer 2 (Digital), Computer 2 (Analog), Video, S-Video	Yes

* The asterisk (*) indicates that the default setting varies depending on the signal.

5. Using On-Screen Menu

Signal Select			
Computer 1	RGB/	RGB/Component, RGB, Component	Yes
	Component		100
Computer 2 (Analog)	RGB/	RGB/Component, RGB, Component	Yes
	Component		
Video	Auto	Auto, NTSC3.58, NTSC4.43, PAL, PAL-M,	Yes
		PAL-N, PAL60, SECAM	
S-Video	Auto	Auto, NTSC3.58, NTSC4.43, PAL, PAL-M,	Yes
		PAL-N, PAL60, SECAM	
Deinterlace	On	Off, On	Yes

Information		Item
Usage Time	Lamp Life Remaining	
	Lamp Hours Used	
	Filter Hours Used	
Source	Source index	
	Horizontal Frequency	
	Vertical Frequency	
	Signal Type	RGB, Component, Video, S-Video, HDTV, Digital
	Video Type	NTSC, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM
	Sync Type	Separate Sync, Composite Sync, Sync on Green, Sync on Video
	Sync Polarity	
	Scan Type	Interlace, Non-interlace
Version	Product	
	Serial Number	
	Firmware	
	Data	
Reset		Item
Current Signal		
All Data		

Clear Lamp Hours Clear Filter Hours

4 Menu Descriptions & Functions [Picture]

Preset

Picture Image Options	Preset	√ 1:High-Bright	1:High-Bright
Setup Information Reset	Detail Settings Contrast Brightness Sharpness		O 2:Presentatio O 3:Video
	Color Hue Reset		 4:Movie 5:Graphic 6:sRGB
Computer1	Reset		⊖ 6:sRGB

When selecting user adjustable [Preset], the submenu will be displayed.

You can customize each gamma or color. To do so, first select [Preset] and press the ENTER button, then proceed using the following steps.

Detail Settings

Picture	Preset	√ 1:High–Bright		Picture	General White Balance		
Image Options Setup Information Reset	Detail Settings Contrast Brightness Sharpness Color Hue Reset		63	Image Options Setup Information Reset	Reference Gamma Correction Color Temperature	v High–Bright v Black Detail	
Computer1	Computer1		Computer1				

Selecting Reference Setting [Reference]

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

Iliah Driaht	. Recommended for the use in a brightly lit room.
нюп-впоп	Becommended for the use in a phoniny in room
ringin Dright	interesting and the about a brightly introom.

- Presentation Recommended for making a presentation using a PowerPoint file.
- Video Recommended for standard video such as a TV program.
- Movie Recommended for film based video such as a movie (DVD or HDTV).
- Graphic Recommended for viewing accurate colors in graphics.
- sRGB Standard color values.

Selecting Gamma Correction Mode [Gamma Correction]

Each mode is recommended for:

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

Adjusting Color Temperature [Color Temperature]

This option allows you to select the color temperature of your choice.

NOTE: When [High-Bright] or [Presentation] is selected in [Reference], [Color Temperature] is not available.

Adjusting White Balance [White Balance]

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

Adjusting Contrast, Brightness, Sharpness, Color and Hue

You can adjust contrast, brightness, sharpness, color and hue.

Contrast Adjusts the int	tensity of the image according to the i	ncoming signal (White level of the image).
	conoicy of the image according to the i	

Brightness Adjusts the brightness level or the black level of the image.

Sharpness Controls the detail of the image for Video (not valid for RGB).

Color Increases or decreases the color saturation level (not valid for RGB).

Reset

The settings and adjustments for [Picture] will be returned to the factory settings with the exception of the following; Preset numbers and [Reference] within the [Preset] screen.

The settings and adjustments under [Detail Settings] within the [Preset] screen that are not currently selected will not be reset.

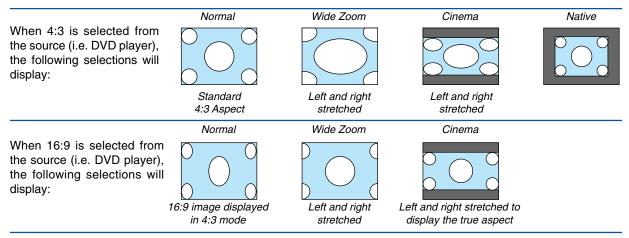
6 Menu Descriptions & Functions [Image Options]

Picture	Aspect Ratio	√ Normal ►
Image Options	Cinema Position	
Setup Information Reset	Horizontal Vertical Clock	290 35 1344
	Clock Phase Video Filter	<pre> Off Off</pre>
Computer1		

Selecting Aspect Ratio [Aspect Ratio]

Aspect Ratio allows you to select the best Aspect mode to display your source image.

You can also display the Aspect Ratio menu by pressing the ASPECT button on the remote control.



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

NOTE:

- When you are displaying an RGB image with a higher resolution than the projector's native resolution, the image will be displayed in the projector's native resolution. In this case [Native] is not available from the menu. Only when displaying an RGB image with a lower resolution than the projector's native resolution, will the image be able to be displayed in its true resolution [Native].
- When Computer 2 (Digital) is selected, some options of Aspect Ratio are not available depending on the signal.
- 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 Ratio] 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 ratio selected. When [Cinema] is selected in [Aspect Ratio], the image is displayed with black borders on the top and bottom. You can adjust the vertical position from the top to the bottom of the black area.

NOTE: This option is available only when [Cinema] is selected in [Aspect Ratio].

Adjusting Horizontal/Vertical Position, Clock and Phase [Horizontal/Vertical/Clock/Phase] (available for RGB signal only)

You can adjust the image manually for position and stability; [Horizontal], [Vertical], [Clock] and [Phase].

[Horizontal/Vertical]

Adjusts the image location horizontally and vertically.

[Clock]

Use this item 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.

[Phase]

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 [Phase] only after the [Clock] is complete.

NOTE:

A projected image may not be displayed correctly during adjustment of [Clock] or [Phase]. This is normal.

NOTE: The [Horizontal] and [Vertical] options can be adjusted for component signals.

Selecting Video Filter Level [Video Filter] (not available for Digital RGB, Video and S-Video)

Select one of the three levels for reducing video noise: Off, Less or More.

Off The low-pass filter is turned off.

- Less The low-pass filter is applied partially.
- More The low-pass filter is applied fully.

NOTE:

• Selecting [Off] will give best image quality by way of higher bandwidth. Selecting [Less] will soften the image and selecting [More] will soften the image more.

6 Menu Descriptions & Functions [Setup]

[General]

Picture	General Installation O	ptions		
Image Options	Auto Keystone	● Off	O On	Ì
Setup	Keystone	-		
Information	Keystone Save	Off	⊖ On	
Reset	Wall Color	√ Off		•
	Lamp Mode	√ Normal		•
	Language 🔀	√ English		•
	Beep	○ Off	On	
Computer1				

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]

You can correct vertical distortion manually.

Saving Vertical Keystone Correction [Keystone Save]

This option enables you to save your current keystone settings.

- Off Does not save current keystone correction settings
- On Saves current keystone correction settings

Saving your change once affects all sources. The changes are saved when the projector is off.

NOTE: When [Auto Keystone] is set to [On], [Keystone Save] is not available. Next time you turn on the power, the Auto Keystone function will work and the data stored with [Keystone Save] will be invalid.

Selecting Wall Color Correction Mode [Wall Color]

This function allows for quick adaptive color correction in applications where the screen material is not white. The following nine options are available: Off, Blackboard, Blackboard (Gray), Light yellow, Light green, Light blue, Sky blue, Light rose and Pink.

Selecting Lamp Mode [Lamp Mode]

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

Normal Mode This is the Default setting (100% Brightness). Eco Mode Select this mode to increase the lamp life (approx. 80% Brightness).

Selecting Menu Language [Language]

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

Enabling Key Sound and Error Sound [Beep]

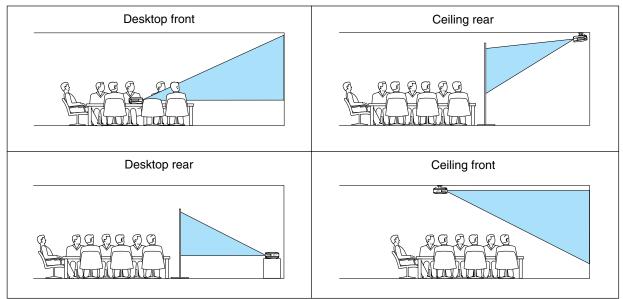
This feature turns on or off the keypad sound or alarm when a button on the cabinet and the remote control is pressed or an error occurs.

Picture	General Installation Op	tions	
Image Options	Orientation	√ Desktop Front	
Setup	Communication Speed	√ 19200bps	1
Information	Control Panel Lock	√ Off	1
Reset	Security	√ Off	1
	Menu Color Select	√ Color	1
	Menu Display Time	√ Auto 45 sec	1
	Background	√ Blue	1
	Filter Message	√ 500[H]	1

[Installation]

Selecting Projector Orientation [Orientation]

This sets your image for your type of projection application. The options are: desktop front projection, ceiling rear projection, desktop rear projection, and ceiling front projection.



Selecting Communication Speed [Communication Speed]

This feature sets the baud rate of the PC CTRL port (Mini 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).

Your selected communication speed will not be affected even when [Reset] is done from the menu.

Disabling the Cabinet Buttons [Control Panel Lock]

This option turns on or off the Key Lock function for cabinet buttons.

NOTE:

- The Control Panel Lock setting will not affect the remote control or PC Control Functions.
- When the cabinet buttons are disabled, pressing and holding the EXIT button on the projector cabinet for about 10 seconds will change the setting to enable.
- The Key Lock icon will be displayed at the bottom right of the menu when Control Panel Lock is enabled.

Enabling Security [Security]

This feature turns on or off the Security function. Unless the correct keyword is entered, the projector cannot project an image. (\rightarrow page 29)

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], [Auto 5 sec], [Auto 15 sec], and [Auto 45 sec].

Selecting a Color for Background [Background]

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

Selecting Interval Time for Filter Message [Filter Message]

This option allows you to select the time preference between displaying the message for cleaning the filters. Clean the filter when you get the message "Please clean filter." (\rightarrow page 48) Five options are available: Off, 100[H], 200[H], 500[H], 1000[H] The default setting is 500[H].

NOTE: Your setting will not be affected even when [Reset] is done from the menu.

[Options]

Picture	General Installation Op	tions		
Image Options	Off Timer	√ Off		►
Setup	Auto Adjust	√ Normal		•
Information	Auto Start	√ Off		•
Reset	Power Management	√ Off		•
	Fan Mode	√ Auto		•
	Default Source Select	√ Last		•
	Signal Select			•
	Deinterlace	○ Off	⊛ On	
Computer1				

Setting Off Timer [Off Timer]

You can use the Off Timer feature to turn off the projector automatically at a preset time. Eight preset times can be selected: Off, 0:30, 1:00, 2:00, 4:00, 8:00, 12:00 and 16:00.

Setting Auto Adjust [Auto Adjust]

This feature sets the Auto Adjust 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.

Enabling Auto Start [Auto Start]

Turns the projector on automatically when the power cable is inserted into an active power outlet. This eliminates the need to always use the POWER button on the remote control or projector cabinet.

To use the Auto Start function, you must first press the main power switch to the position "On" (I) before plugging the power cable.

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Enabling Power Management [Power Management]

When this option is selected you can enable the projector to automatically turn off (at the selected time: 5 min., 10 min., 20 min., 30 min.) if there is no signal received by any input.

Enabling Fan Speed Mode [Fan Mode]

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

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

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

High Altitude The built-in fans run at a high speed. Select this option when using the projector at altitudes approximately 5500 feet/1600 meters or higher.

When you wish to cool down the temperature inside the projector quickly, select [High].

NOTE:

- It is recommended that you select High speed mode if you use the projector non-stop for consecutive days.
- Using the projector at altitudes approximately 5500 feet/1600 meters or higher without setting to [High Altitude] can cause the
 projector to overheat and the protector could shut down. If this happens, wait a couple minutes and turn on the projector.
- Using the projector at altitudes less than approximately 5500 feet/1600 meters and setting to [High Altitude] can cause the lamp to overcool, causing the image to flicker. Switch [Fan Mode] to [Auto].
- Your setting will not be affected even when [Reset] is done from the menu.

Selecting Default Source [Default Source Select]

You can set the projector to default to any one of its inputs each time the projector is turned on.

Selecting Signal Format [Signal Select]

[Computer 1],[Computer 2 (Analog)]

Allows you to choose [Computer 1], or [Computer 2 (Analog)] 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].

[Video & S-Video System Select]

This feature enables you to select composite video standards automatically or manually.

Normally select [Auto] and the projector will automatically detect the video standard.

In the case where the projector has difficulty detecting the video standard, select the appropriate video standard from the menu.

This must be done for Video and S-Video respectively.

Enabling the deinterlace [Deinterlace]

Turns on or off the deinterlace function for a telecine signal.

On Default standard setting.

Off Select this option if there is any jitter or artifacts in video.

NOTE: This feature is not available for RGB, 480p, 576p and HDTV signals.

Menu Descriptions & Functions [Information]

Displays the status of the current signal and lamp usage. This item has three pages. The information included is as follows:

[Usage Time]

Picture Image Options Setup Information Reset	Usage Time Source Version Lamp Life Remaining Lamp Hours Used Filter Hours Used	100% 0[H] 0[H]
Computer1	1	

[Lamp Life Remaining] (%)^{*1} [Lamp Hours Used] (H)^{*2} [Filter Hours Used] (H)^{*2}

*1: 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 Eco.

*2: The message for lamp replacement and filter cleaning will be displayed under the following conditions:

- for one minute after the projector has been powered on.
- when the POWER ON/STAND BY button on the projector cabinet or the POWER OFF button on the remote control is pressed.

To cancel the message, press any button on the projector cabinet or the remote control.

Lamp life(H)		Replacement lamp
Normal (min.)	Eco (max.)	Replacement lamp
2000	3000	NP05LP

[Source]

Picture	Usage Time Source Vers	ion	
Image Options	Source Index		108
Setup	Horizontal Frequency		48[kHz]
Information	Vertical Frequency		60[Hz]
Reset	Signal Type	RGB	
	Video Type		
	Sync Type	Separate Sync	
	Sync Polarity	H:(-)V:(-)	
	Scan Type	Non-Interlace	
Computer1			

[Source Index] [Vertical Frequency] [Video Type] [Sync Polarity] [Horizontal Frequency] [Signal Type] [Sync Type] [Scan Type]

[Version]

Picture	Usage Time Source Version
Image Options	Product
Setup	Serial Number
Information	Firmware 1.00
Reset	Data 1.00
Computer1	

[Product] [Serial Number]

[Firmware] Version [Data] Version

③ Menu Descriptions & Functions [Reset]

Picture	Reset
Image Options	Current Signal
Setup	All Data
Information	Clear Lamp Hours
Reset	Clear Filter Hours
Computer 1	

Returning to Factory Default [Reset]

The Factory Default feature allows you to change adjustments and settings to the factory preset for a (all) source (s) except the following:

[Current Signal]

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

The items that can be reset are: [Preset], [Contrast], [Brightness], [Color], [Hue], [Sharpness], [Aspect Ratio], [Horizontal], [Vertical], [Clock], [Phase] and [Video Filter].

[All Data]

Reset all the adjustments and settings for all the signals to the factory preset.

All items can be reset except [Language], [Communication Speed], [Security], [Filter Message], [Fan Mode], [Lamp Life Remaining], [Lamp Hours Used] and [Filter Hours Used].

To reset the lamp usage time, see "Clearing Lamp Hour Meter [Clear Lamp Hours] below".

Clearing Lamp Hour Meter [Clear Lamp Hours]

Resets the lamp clock back to zero. Selecting this option displays submenu for a confirmation. Select [Yes] and press the ENTER button.

NOTE: Elapsed time of the lamp use will not be affected even when [Reset] is done from the menu.

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

Clearing the Filter Usage Hours [Clear Filter Hours]

Resets the filter usage back to zero. Selecting this option displays submenu for a confirmation. Select [Yes] and press the ENTER button.

NOTE: Elapsed time of the filter use will not be affected even when [Reset] is done from the menu.

47

6. Maintenance

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

Cleaning or Replacing the Filters

The air-filter sponge keeps dust and dirt from getting inside the projector and should be frequently cleaned. If the filter is dirty or clogged, your projector may overheat.

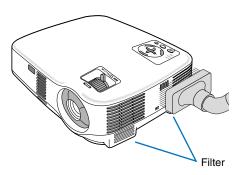
NOTE: The message for filter cleaning will be displayed for one minute after the projector is turned on or off. To cancel the message, press any button on the projector cabinet or the remote control.

CAUTION

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

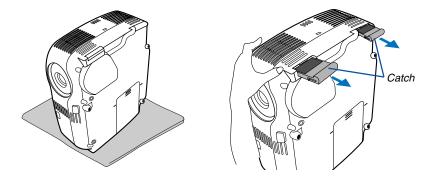
To clean the air-filter:

Vacuum the filter-through the filter cover.

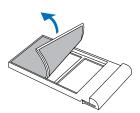


To replace the filter (sponge):

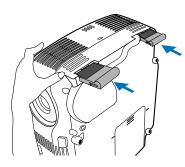
1. Remove the filter cover by pushing down on the catch of the cover until you feel it detach.



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



3. Reinstall the new filter cover.



4. Clear the filter hours used.

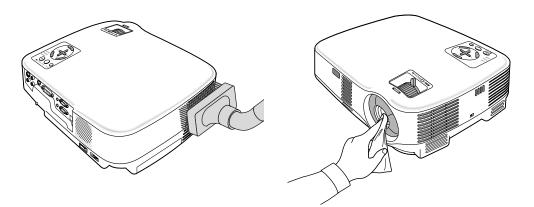
To reset the filter usage time, from the menu, select [Reset] \rightarrow [Clear Filter Hours]. (\rightarrow page 47 for resetting the filter usage time.)

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.

O 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.



Replacing the Lamp

After your lamp has been operating for 2000 hours (up to 3000 hours in Eco mode) or longer, the LAMP indicator in the cabinet will blink red and the message **[The lamp has reached the end of its usable life. Please replace the lamp.]*** will appear. Even though the lamp may still be working, replace it at 2000 (up to 3000 hours in Eco mode) hours to maintain optimal projector performance. After replacing the lamp, be sure to clear the lamp hour meter. (\rightarrow page 47)

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 cable. 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 on 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 Eco 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 Eco 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 NEC dealer for lamp replacement.

*NOTE: This message will be displayed under the following conditions:

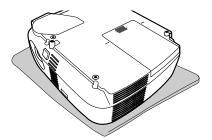
- for one minute after the projector has been powered on
- when the POWER ON/STAND BY button on the projector cabinet or the POWER OFF button on the remote control is pressed

To turn off the message, press any button on the projector cabinet or the remote control.

To replace the lamp:

Optional lamp and tools needed for replacement:

- Replacement lamp NP05LP
- 1. Place the projector on a soft cloth and turn it over to access the lamp cover on the bottom.

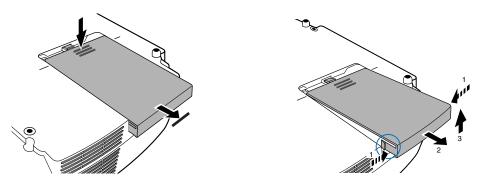


2. Remove the lamp cover.

(1)Press firmly and slide the lamp cover by 1 cm (0.4")

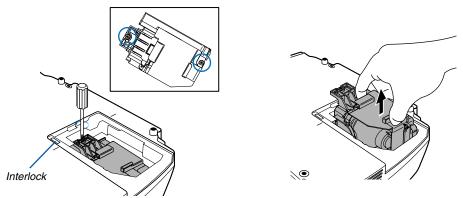
• Do not force to pull the lamp cover

(2) Push to release two catches on both sides and slide the lamp cover off.



3. Remove the lamp housing.

- (1)Loosen the two screws securing the lamp housing until the phillips screwdriver goes into a freewheeling condition. The two screws are not removable.
- (2)Remove the lamp housing 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. Install a new lamp housing.

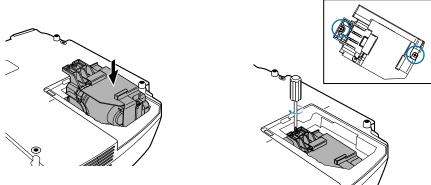
(1)Insert a new lamp housing until the lamp housing is plugged into the socket.

CAUTION

Do not use a lamp other than the NEC replacement lamp NP05LP. Order this from your NEC dealer.

(2)Secure it in place with the two screws.

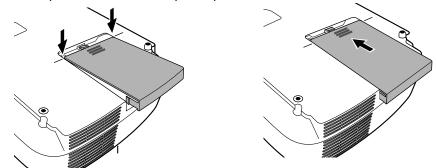
Be sure to tighten the screws.



5. Reattach the lamp cover.

(1)Place the lamp cover, aligning it with the guiding line.

(2)Slide the lamp cover back until it snaps into place.



- 6. Connect the supplied power cable, turn on the Main Power switch and turn on the projector.
- 7. Finally, select the menu \rightarrow [Reset] \rightarrow [Clear Lamp Hours] to reset the lamp usage hours.

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

If this happens, press the HELP 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 indicator goes out.

7. Appendix

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	-
		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.
Steady light	Green		The projector is turned on.	-
	Orange		The projector is in Standby.	-

Status Indicator

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

Lamp Indicator

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

Over-Temperature Protection

If the temperature inside the projector rises too high, the over-temperature protector will automatically turn off the lamp with the STATUS indicator blinking (2-cycle On and Off.)

Should this happen, do the following:

- Unplug the power cable after the cooling fans stop.
- Move the projector to a cooler location if the room where you are presenting is particularly too warm.
- Clean the ventilation holes if they are clogged with dust.
- Wait about 60 minutes until the inside of the projector becomes cool enough.

Common Problems & Solutions (\rightarrow "Power/Status/Lamp Indicator" on page 53.)

Problem	Check These Items
Does not turn on or shut down	 Check that the power cable is plugged in and that the power button on the projector cabinet or the remote control is on. (→ pages 17 and 18) Ensure that the lamp cover is installed correctly. (→ page 52) Check to see if the projector has overheated. If there is insufficient ventilation around the projector or if the room where you are presenting is particularly warm, move the projector to a cooler location. Check to see if the lamp usage exceeds 2100 hours (up to 3100 hours : Eco mode). If so, replace the lamp. After replacing the lamp, reset the lamp hours used. (→ page 47) The lamp may fail to light. Wait a full minute and then turn on the power again. Set [Fan Mode] to [High Altitude] when using the projector at altitudes approximately 5500 feet/1600 meters or higher. Using the projector to overheat and the projector could shut down. If this happens, wait a couple minutes and turn on the projector . (→ page 45) Also when the lamp is turned off, the projector internal temperature is hot. If the power is turned on before the projector has cooled down, the fan will run a short time before the lamp will turn on.
Will turn off	• Ensure that the Power Management or Off Timer is off. (\rightarrow page 44)
No picture	 Use the COMPUTER1, the COMPUTER2, the VIDEO or the S-VIDEO button on the remote control to select your source (Computer, Video or S-Video). (→ page 20) If there is still no picture, press the button again. Ensure your cables are connected properly. Use menus to adjust the brightness and contrast. (→ page 40) Remove the lens cap. Reset the settings or adjustments to factory preset levels using the [Reset] in the Menu. (→ page 47) Enter your registered keyword if the Security function is enabled. (→ page 29) Be sure to connect the projector and notebook PC while the projector is in standby mode and before turning on the power to the notebook PC. In most cases the output signal from the notebook PC is not turned on unless connected to the projector before being powered up. * If the screen goes blank while using your remote control, it may be the result of the computer's screensaver or power management software. See also the next page.
Picture suddenly becomes dark	 When one of the following happens, the Lamp mode automatically changes from Normal to Eco. * When there are no signals → To return to the Normal mode, select another available source. * When the room where you' re presenting is particularly warm → Move the projector to a cooler location, or set [Fan Mode] to [High]. (→ page 45)
Color tone or hue is unusual	 Check if an appropriate color is selected in [Wall Color]. If so, select an appropriate option. (→ page 42) Adjust [Hue] in [Picture]. (→ page 40)
Image isn't square to the screen	 Reposition the projector to improve its angle to the screen. (→ page 21) Use the Keystone correction function to correct the trapezoid distortion. (→ page 23)
Picture is blurred	 Adjust the focus. (→ page 22) Reposition the projector to improve its angle to the screen. (→ page 21) Ensure that the distance between the projector and screen is within the adjustment range of the lens. (→ page 10) 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.
Flicker appears on screen	 Set [Fan Mode] to other than [High Altitude] mode when using the projector at altitudes approximately 5500 feet/1600 meters or lower. Using the projector at altitudes less than approximately 5500 feet/1600 meters and setting to [High Altitude] can cause the lamp to overcool, causing the image to flicker. Switch [Fan Mode] to [Auto]. (→ page 45)
Image is scrolling vertically, horizontally or both	 Use the COMPUTER1, the COMPUTER2, the VIDEO or the S-VIDEO button on the remote control to select your source (Computer, Video or S-Video). (→ page 20) Adjust the computer image manually with the Horizontal/Vertical in the [Image Options]. (→ page 41)
Remote control does not work	 Install new batteries.(→ page 8) Make sure there are no obstacles between you and the projector. Stand within 22 feet (7 m) of the projector. (→ page 8)
Indicator is lit or blinking	• See the POWER/STATUS/LAMP Indicator. (\rightarrow page 53)
Cross color in RGB mode	 Press the AUTO ADJ. button on the projector cabinet or the remote control. (→ page 25) Adjust the computer image manually with Clock/Phase in [Image Options] in the menu. (→ page 41)

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 projector and notebook PC while the projector is in standby mode and before turning on the power to the notebook PC.

In most cases the output signal from the notebook PC is not turned on unless connected to the projector before being powered up.

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. (\rightarrow page 46 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 example, NEC laptops use Fn + F3, while Dell laptops use Fn + F8 key combinations to toggle through external display selections.

• 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] \rightarrow [Arrange] from the Apple menu and arrange icons.

O Specifications

This section provides technical information about the VT700 projector's performance.

Model Number

VT700

Optical LCD Panel Resolution Lens Lamp Light Output** Contrast Ratio Image Size (Diagonal) Projection Distance Projection Angle Keystone Correction	0.63" p-Si TFT active-matrix with Micro Lens Array 1024 \times 768 pixels* native, up to UXGA with Advanced AccuBlend Manual zoom and manual focus F1.7 - 2.0 f=18.9 - 22.7 mm 210 W AC lamp (172W Eco mode) 3000 lumens (approx. 80% in Eco mode) 500: 1 (full white: full black) 21 - 300 inches / 0.5 - 7.6 m 28 - 424 inches / 0.7 - 10.7 m Tele: 8.3° - 8.6°/ Wide: 9.9° - 10.3° +/- 30° Vertical
,	
Electrical Inputs	1 RGB/Component (D-Sub 15 Pin), 1 RGB (Digital/Analog) (DVI-I 29 Pin, HDCP*** supported), 1 S-Video (DIN 4 Pin), 1 Video (RCA), 1 (L/R) RCA Audio, 1 Stereo Mini Audio, 1 PC Control (DIN 8 Pin)
Outputs Video Compatibility	1 RGB (D-Sub 15 Pin), 1 Stereo Mini Audio NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM, DTV: 480i, 480p, 720p, 1080i (60Hz) 576i, 576p, 1080i (50Hz)
Scan Rate	DVD: Progressive (50/60Hz) 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 Horizontal Resolution	16.7 million colors simultaneously, Full color NTSC / NTSC4.43/PAL/PAL-M/PAL-N/PAL60: 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 Green / Sync on Video
Built-in Speaker	5W (monaural)
Power Requirement	VT700: 100 - 240V AC, 50 / 60 Hz
Input Current	VT700G: 200 - 240V AC, 50 / 60 Hz VT700: 3.3 - 1.5 A VT700G: 1.7 A
Power Consumption	8W in Standby mode / 295W in Lamp Normal mode / 240W in Lamp Eco mode

Mechanical	
Installation Orientation	Desktop/Front, Desktop/Rear, Ceiling/Front, Ceiling/Rear
Dimensions	12.2" (W)×4.4" (H)×10.2" (D)
	309mm (W)×112mm (H)×258mm (D)
	(not including protrusions)
Weight	6.8 lbs / 3.1 kg
Environmental Considerations	Operational Temperatures : 41° to 104°F (5° to 40°C),
	(Eco mode selected automatically at 95°F to 104°F/35°C to 40°C)
	20% to 80% humidity (non-condensing)
	Storage Temperatures : 14° to 122°F (-10° to 50°C),
	20% to 80% humidity (non-condensing)

* Effective pixels are more than 99.99%.

- ** This is the light output value (lumens) when the [Preset] mode is set to [High-Bright]. If any other mode is selected as the [Preset] mode, the light output value may drop slightly.
- *** What is HDCP/HDCP technology?

HDCP is an acronym for High-bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI).

If you are unable to view material via the DVI input, this does not necessarily mean the projector is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).

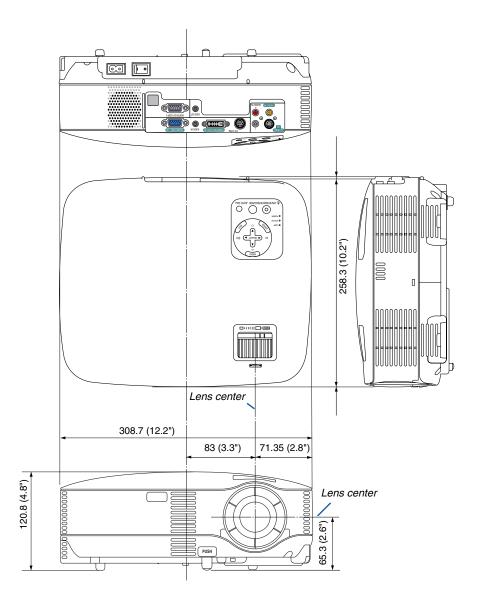
Regulations

For United States: UL Approved (UL 60950 - 1) Meets FCC Class B requirements For Canada: UL Approved (CSA 60950 - 1) Meets DOC Canada Class B requirements For Australia/New Zealand: Meets AS/NZS CISPR.22 Class B For Europe: Meets EMC Directive (EN55022, EN55024, EN61000-3-2, EN61000-3-3) Meets Low Voltage Directive (EN60950 - 1, TÜV GS Approved) **(**

For additional information visit: US : http://www.necdisplay.com/ Europe : http://www.nec-display-solutions.com/ Global : http://www.nec-pj.com/ For information on our optional accessories, visit our website or see our brochure.

The specifications are subject to change without notice.

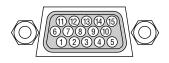
O Cabinet Dimensions



Unit: mm (inch)

O Pin Assignments of D-Sub COMPUTER 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	No Connection	
12	Bi-directional DATA (SDA)*	
13	Horizontal Sync or Composite Sync	
14	Vertical Sync	
15	Data Clock*	

* Only COMPUTER 1 input connector supported.

G Compatible Input Signal List

Horizontal: 15KHz to 100KHz (RGB: 24KHz or over) Vertical: 50Hz to 120Hz

	Signal	Resolution	Frequency H.	Refresh Rate
		(Dots)	(kHz)	(Hz)
	NTSC	-	15.73	59.94
	PAL	-	15.63	50.00
-	PAL60	-	15.73	60.00
	SECAM	-	15.63	50.00
D	VESA	640 × 480	31.47	59.94
D	IBM	640 × 480	31.48	59.95
D	MAC	640 × 480	35.00	66.67
D	VESA	640 × 480	37.86	72.81
D	VESA	640 × 480	37.50	75.00
D	IBM	640 × 480	39.38	75.00
D	VESA	640 × 480	43.27	85.01
D	IBM	720 × 350	31.47	70.08
D	IBM	720 $ imes$ 350	39.44	87.85
D	IBM	720 \times 400	39.44	87.85
D	VESA	800 imes 600	35.16	56.25
D	VESA	800 imes 600	37.88	60.32
D	VESA	800 imes 600	48.08	72.19
D	VESA	800×600	46.88	75.00
D	VESA	800 imes 600	53.67	85.06
D	MAC	832 × 624	49.72	74.55
D	VESA	1024 $ imes$ 768	48.36	60.00
D	VESA	1024 $ imes$ 768	56.48	70.07
D	MAC	1024 $ imes$ 768	60.24	74.93
D	VESA	1024 $ imes$ 768	60.02	75.03
D	VESA	1024 $ imes$ 768	68.68	85.00
D #	VESA	1152 × 864	67.50	75.00
D #	MAC	1152 × 870	68.68	75.06
D #	VESA	1280 $ imes$ 960	60.00	60.00
#		1280 $ imes$ 960	75.00	75.00
#		1280 × 960	85.94	85.00
D #	VESA	1280 $ imes$ 1024	63.98	60.02
D #	MAC	1280 $ imes$ 1024	64.30	60.38
#	MAC	1280 × 1024	69.87	65.18
#	VESA	1280 × 1024	79.98	75.02
#	VESA	1280 × 1024	91.15	85.02
#	VESA	1400 $ imes$ 1050	63.98	60.02
#	VESA	1600 × 1200	75.00	60.00
#	VESA	1600 $ imes$ 1200	81.25	65.00
#	VESA	1600 × 1200	87.50	70.00
#	VESA	1600 × 1200	93.75	75.00
	SDTV(576i)	-	15.63	50.00 Interlace
D	SDTV(576p)	-	31.25	50.00 Progressive
D #	HDTV (1080i)	1920 × 1080	33.75	60.00 Interlace
D #	HDTV (1080i)	1920 × 1080	28.13	50.00 Interlace
D #	HDTV (720p)	1280 × 720	45.00	60.00 Progressive
D	SDTV (480p)	720 × 480	31.47	59.94 Progressive
-	DVD YCbCr	-	15.73	59.94 Interlaced
	DVD YCbCr	-	15.63	50.00 Interlaced

: Images in above flagged with # are compressed with Advanced AccuBlend on VT700.

D : Images in above flagged with "D" are supported by the DVI digital signals on VT700.

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

O PC Control Codes and Cable Connection

PC Control Codes

Function	Code I	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 (Digital)	02H	03H	00H	00H	02H	01H	1AH	22H
INPUT SELECT COMPUTER 2 (Analog)	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
PICTURE MUTE ON	02H	10H	00H	00H	00H	12H		
PICTURE MUTE 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		

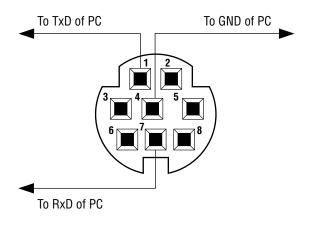
NOTE: Contact your local dealer for a full list of the PC Control Codes if needed.

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 also by referring to the "Troubleshooting" section in your user's manual. This checklist below will help us solve your problem more efficiently.

* Print this page and the next page for your check.

Frequency of occurrence always sometimes (How often?) 🗆 other ()
Power	
 No power (POWER indicator does not light green) See also "Status Indicator (STATUS)". Power cable's plug is fully inserted into the wall outlet. Main power switch is pressed to the ON position. Lamp cover is installed correctly . Lamp Hours Used (lamp operation hours) was cleared after lamp replacement. No power even though you press and hold the POWER button for 1 second. 	 Shut down during operation. Power cable'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). Off Timer is turned off (only models with the Off Timer function).
 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. <i>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.</i> No image (blue or black background, no display). Still no image even though you press the AUTO ADJUST button. Still no image even though you carry out [Reset] 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. 	 Parts of the image are lost. Still unchanged even though you press the AUTO ADJUST button. Still unchanged even though you carry out [Reset] 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 ADJUST button. Still unchanged even though you press the AUTO ADJUST button. Still unchanged even though you carry out [Reset] in the projector's menu. Image shows flickering or color drift on a computer signal. Still unchanged even though you change [Fan Mode] from [High Altitude] to [Auto]. 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.
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). Other	 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).
 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. Batteries are new and are not reversed in installation. 	 Buttons on the projector cabinet do not work (only models with the Key Lock function). Control Panel Lock is not turned on or is disabled in the menu. Still unchanged even though you press and hold the EXIT 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		Install
Model number:		Screer
Serial No.:		Screer
Date of purchase:		
Lamp operating time (hours):		Throw
Lamp Mode:	🗆 Normal 🗀 Eco	Orient
Information on input signal:		Power
Horizontal synch frequency	[] kHz	
Vertical synch frequency	[] Hz	
Synch polarity	H □ (+) □ (−)	
	V 🗆 (+) 🖾 (-)	
Synch type	🗆 Separate 🗀 Composite	
	□ Sync on Green	
STATUS Indicator:		Comp
Steady light	🗆 Orange 🔲 Green	Manuf
Flashing light	[] cycles	Model
Remote control model numbe	r:	Notebo
		Native
		Refres
<u> </u>		Video
Projector	PC	Other:
	DVD player	
Signal cable		Video
NEC standard or other manufa	acturer's cable?	VCR, I
Model number:	Length: inch/m	Manuf
Distribution amplifier	°	Model
Model number:		INIOUEI
Switcher		
Model number:		
Adapter		
Model number:		

Installation e	nvironment		
Screen size:		inch	
Screen type:	\Box White matte	□ Beads □ Polarization	
	🗆 Wide angle	🗆 High contrast	
Throw distance	e:	feet/inch/m	
Orientation:	\Box Ceiling moun	it 🗌 Desktop	
Power outlet c	onnection:		
🗆 Connect	ed directly to wa	II outlet	
	□ Connected to power cord extender or other (the num-		
		nent)	
		rd reel or other (the number	
UI COIIIIE	cieu equipineni.)	
Computer			
Manufacturer:			
Model number:			
Notebook PC 🗆 / Desktop 🗔			
Native resolution:			
Refresh rate:			
Video adapter:			

Video equipment VCR, DVD player, Video camera, Video game or other Manufacturer: Model number:

TravelCare Guide

TravelCare - a service for international travelers

This product is eligible for "TravelCare", NEC's unique international warranty.

Please note that TravelCare coverage differs in part from coverage under the warranty included with the product.

Services offered with TravelCare

This warranty allows customers to receive service on their product at the NEC and NEC-designated service stations in the countries listed herein when temporarily traveling internationally for business or pleasure.

For details on services offered by the different service stations, please refer to the "List of TravelCare Outlets" below.

1 Repair services

The product will be repaired and delivered within 10 business days, not including shipping time.

During the term of warranty, the cost of maintenance parts, labor costs for repairs and shipping costs within the service station's coverage area are covered by the warranty.

2 Replacement product rental service

If the customer desires, he or she can rent a replacement product while the original product is being repaired.

Fee: US\$200 for 12 days

This fee must be paid at the local service station in cash or credit card.

The US\$200 rental fee is non-refundable even if the customer rents it less than 12 days before returning.

The replacement product will be delivered within 3 business days. If the customer did not return the replacement product within 12 days, the customer will be charged the price of the unit.

If the customer returned the replacement product in a faulty or damaged condition, the repair cost will be charged to the customer. Note that this service is not offered in all countries and regions. Please

refer to the "List of TravelCare Outlets". In addition, this replacement product rental service is not offered af-

In addition, this replacement product rental service is not offered after the product's warranty has expired.

Term of warranty

1

 Upon presentation of the warranty or receipt received upon purchase:

Valid for the term indicated on the warranty or the normal term of warranty for the country of purchase.

- b. When only the product is brought in: Valid for a period of within 14 months of the date of manufacture indicated by the serial number attached to the product.
- 2 When a product whose term of warranty is expired is brought in: Repairs will be offered for a fee. In this case the customer is not

eligible for the replacement product rental service.

- 3 In the following cases, repairs may be charged, even if the product's warranty is still in effect:
 - If the term of warranty, model name, serial number and name of the store of purchase are not indicated on the warranty or have been altered.
 - Problems or damage caused by dropping or shocks during shipment or movement by the customer or by improper handling by the customers.
 - Problems or damage caused by improper usage or unwarrantable alterations or repairs by the customer.
 - 4) Problems or damage caused by fire, salt damage, gas damage, earthquakes, lightning damage, storm or flood damage or other natural disasters or such external factors as dust, cigarette smoke, abnormal voltage, etc.
 - Problems or damage caused by use in hot or humid places, in vehicles, boats or ships, etc.

- 6) Problems or damage caused by expendable supplies or devices connected to the product other than those designated by NEC.
- Problems caused by natural consumption, wear or deterioration of parts under normal usage conditions.
- Problems or damage to lamps and other expendable supplies, included parts or optional parts.
- Other conditions stipulated in the warranty included with the product also apply.

NOTE: The product can be used overseas with voltages indicated in the rating label on the product by using a power cable suited for the standards and power source voltage of the country in which the product is being used.

List of TravelCare Outlets

This list applies as of April 1, 2007.

For the most up-to-date information, please refer to the websites of the service stations in the various countries on the List of TravelCare Outlets or to the NEC website at http://www.nec-pj.com.

In Europe

NEC Europe Ltd. / European Technical Centre

Address:	Unit G, Stafford Park 12, Telford TF3 3BJ, U.K.
Telephone:	+44 1952 237000
Fax Line:	+44 1952 237006
Email Address:	AFR@uk.neceur.com
WEB Address:	http://www.neceur.com

(Regions Covered)

EU:	Austria*, Belgium*, Bulgaria*, Czech Republic*, Cyprus*,
	Denmark*, Estonia*, Finland*, France*, Germany*, Greece*,
	Hungary*, Ireland*, Italy*, Latvia*, Lithuania*, Luxembourg*,
	Malta*, The Netherlands*, Poland*, Portugal*, Romania*,
	Slovakia*, Slovenia*, Spain*, Sweden* and the United
	Kingdom*

EEA: Norway*, Iceland and Liechtenstein

In North America

NEC Display Solution	is of America, Inc.	
Address:	500 Park Boulevard, Suite 1100 Itasca, Illinois	
	60143, U.S.A.	
Telephone:	+1 800 836 0655	
Fax Line:	+1 800 356 2415	
Email Address:	vsd.tech-support@necsam.com	
WEB Address:	http://www.necdisplay.com/	

(Regions Covered)

U.S.A. *, Canada*

In Oceania

NEC Australia Pty., Ltd. Address:

New South Wales;

184 Milperra Road, Reversby NSW 2212 Telephone: +61 2 9780 8688 Fax Line: +61 2 9780 8659 Victoria; Unit 1/6 Garden Road, Clayton VIC 3168 Telephone: +61 3 8562 6245 Fax Line: +61 3 8562 6220 Newcastle; 120 Parry Street Newcastle West NSW 2300 Telephone: +61 2 4926 2466 Queensland; Unit 4/305 Montague Road West End QLD 4101 Telephone: +61 7 3840 5858 Fax Line: +61 7 3840 5866 Goldcoast QLD:

Shop1 48 Ferry Road Southport QLD 4215

Telephone: +61 7 5591 3670

South Australia;

84A Richmond Road, Keswick 5035

Telephone: +61 8 8375 5707 Fax Line: +61 8 8375 5757 Western Australia;

45 Sarich Court Osborne Park WA 6017

Telephone: +61 8 9445 5901 Fax Line: +61 8 9445 5999

WEB Address:	http://www.nec.com.au	Hyosung ITX Co., Lto Address:	d. 2nd Fl., Ire B/D. #2, 4Ga, Yangpyeng-Dong
(Regions Covere			Youngdeungpo-Gu, Seoul, Korea 150-967
Australia*, New Zealand		Telephone: Fax Line:	+82 2 2163 4193 +82 2 2163 4196
In Asia and Middle East		Email Address:	moneybear@hyosung.com
NEC Display Solution	ns, Ltd.		
Address:	686-1, Nishioi, Oi-Machi, Ashigarakami-Gun, Kanagawa 258-0017, Japan	(Regions Covere South Korea	ed)
Telephone:	+81 465 85 2369		
Fax Line:	+81 465 85 2393	Lenso Communicatio	on Co., Ltd.
Email Address:	support_pjweb@nevt.nec.co.jp	Address:	292 Lenso House 4, 1st Floor, Srinakarin Road
WEB Address:	http://www.nec-pj.com	Telephone:	Huamark, Bangkapi, Bangkok 10240, Thailand +66 2 375 2425
(Regions Covere	ed)	Fax Line:	+66 2 375 2434
Japan*	53)	Email Address:	pattara@lenso.com
oapan		WEB Address:	http://www.lenso.com
NEC Hong Kong Ltd.			
Address:	25/F., The Metropolis Tower, 10 Metropolis Drive,	(Regions Covere	ed)
Telephone:	Hunghom, Kowloon, Hong Kong +852 2369 0335	Thailand	
Fax Line:	+852 2795 6618	ABBA Electronics L.L	0
Email Address:	nechksc@nechk.nec.com.hk	Address:	Tariq Bin Ziyad Road, P.O.Box 327, Dubai, United
	esmond_au@nechk.nec.com.hk		Arab Emirates
WEB Address:	http://www.nec.com.hk	Telephone:	+971 4 371800
		Fax Line:	+971 4 364283
(Regions Covere	ed)	Email Address:	ABBA@emirates.net.ae
Hong Kong			1)
		(Regions Covere	
NEC Taiwan Ltd.		United Arab Emi	irates
Address:	7F, No.167, SEC.2, Nan King East Road, Taipei,		
	Taiwan, R.O.C.	Samir Photographic	
Telephone:	+886 2 8500 1714	Address:	P.O.Box 599, Jeddah 21421, Saudi Arabia
Fax Line:	+886 2 8500 1420	Telephone:	+966 2 6828219
Email Address:	chenguanfu@nec.com.tw	Fax Line:	+966 2 6830820
WEB Address:	http://www.nec.com.tw	Email Address:	asif@samir-photo.com
(Regions Covere	ed)	Riyadh	
Taiwan	50)	Address:	P.O.Box 5519, Riyadh 11432, Saudi Arabia
raiwan		Telephone:	+966 1 4645064
NEC Solutions Asia F	Ponifin Pto I th	Fax Line:	+966 1 4657912
Address:	401 Commonwealth Drive, #07-02, Haw Par Technocentre, Singapore 149598	Email Address:	bhimji@samir-photo.com
Telephone:	+65 6 273 8333	Alkhobar	
Fax Line:	+65 6 274 2226	Address:	P.O.Box 238, Alkhobar 31952, Saudi Arabia
Email Address:	tehgh@rsc.ap.nec.com.sg	Telephone:	+966 3 8942674
WEB Address:	http://www.nec.com.sg/ap	Fax Line:	+966 3 8948162
		Email Address:	chamsedin@samir-photo.com
(Regions Covere	ed)		
Singapore		(Regions Covere Saudi Arabia	ed)
NEC Systems Integra	ation Malaysia Sdn Bhd		
Address:	Ground Floor, Menara TA One, 22, Jalan P. Ramlee, 50250 Kuala Lumpur, Malaysia	NOTE: In countries desi	ignated with an asterisk(*), replacement product rental
Telephone	+6 03 2178 3600 (ISDN)	service are offered.	
Telephone:			
Fax Line:	+6 03 2178 3789		
Email Address:	necare@nsm.nec.co.jp		
WEB Address:	http://www.necarecenter.com		
(Regions Covered	ed)		
Malaysia	·		
-			

Date: / / ,

P-1/ ,

TO: NEC or NEC's Authorized Service Station: FM:

(Company & Name with signature)

Dear Sir (s),

I would like to apply your TravelCare Service Program based on attached registration and qualification sheet and agree with your following conditions, and also the Service fee will be charged to my credit card account, if I don't return the Loan units within the specified period. I also confirm following information is correct. Regards.

Application Sheet for TravelCare Service Program

Country, product purchased :		
User's Company Name :		
User's Company Address : Phone No., Fax No. :		
User's Name :		
User's Address :		
Phone No., Fax No. :		
Local Contact office :		
Local Contact office Address :		
Phone No., Fax No. :		
User's Model Name :		
Date of Purchase :		
Serial No. on cabinet :		
Problem of units per User :		
Required Service :	(1) Repair and Return	(2) Loan unit
Requested period of Loan unit :		
Payment method :	(1) Credit Card	(2) Travelers Cheque (3) Cash
In Case of Credit Card : Card No. w/Valid Date :		

Condition of your TravelCare Service Program

Enduser is requested to understand following condition of TravelCare Service Program and complete the necessary information on the application sheet.

1. Service Options:

There are 3 types of [Service] available. Enduser has to understand following condition and is required to fill in the Application Sheet.

1) Repair and Return:

The 'Faulty unit' is sent or collected from the customer. It is repaired and returned within 10 days to the customer, excluding transport time.

There may have a case, repair and return can't be done by NEC Authorized Service Station, because of shortage of spare parts due to same model is not sold in the territory.

Repair and Return with Loan: (This service is limited to some Service Stations)

This service is offered to the Enduser, who cannot wait until their unit is repaired.

The customer can borrow a unit for US\$200 up to 12 days. Customer then sends in inoperable unit to nearest NEC Authorized Service Station for service. In order to prevent collection problem, Enduser is required to fill in Application Sheet.

Enduser needs to confirm the availability of the Service to NEC Authorized Service Stations.

3) Loan Only:

For this service, NEC Authorized Service Station supplies the customer with a loan unit for US\$200 up to 12 days. Customer keeps the inoperable unit and when customer returns home, customer arranges to have the projector serviced in the home country.

2. Warranty Exclusions:

This program does not apply if the Projector's serial number has been defaced, modified or removed.

If, in the judgement of NEC Authorized Service Station or its agent the defects or failures result from any cause other than fair wear and tear or NEC neglect, or fault including the following without limitation:

- Accidents, transportation, neglect, misuse, abuse, water, dust, smoke or default of or by the Customer its employees or agents or any third party;
- Failure or fluctuation of electrical power, electrical circuitry, air conditioning, humidity control or other environmental conditions such as use it in smoking area;
- Any fault in the attachments or associated products or components (whether or not supplied by NEC or its agents which do not form part of the Product covered by this warranty);
- Any act of God, fire, flood, war, act of violence or any similar occurrence;
- 5) Any attempt by any person other than any person authorized by NEC to adjust, modify, repair, install or service the product.
- 6) Any Cross-border charges such as, duty, insurance, tax etc.

3. Charges for Warranty Exclusions and Out of Warranty Case:

In case faulty unit is under warranty exclusions case or under Out of Warranty period, NEC Authorized Service Station will Inform estimation of actual service cost to the Enduser with reason.

4. Dead on Arrival (DOA):

Enduser must take this issue up with their original supplier in the country of purchase.

NEC Authorized Service Station will repair the DOA unit as a Warranty repair, but will not exchange DOA unit with new units.

5. Loan Service Charges and Conditions:

Upon acceptance of this NEC Projector, Customer agrees to assume liability for this loan unit.

The current cost of use of this loan unit is US\$200 for 12 calendar days. If Customer does not return the unit within the 12 calendar days, Customer will be charged the next highest cost up to and including the full list price to Credit Cards, which price will be informed by NEC Authorized Service Stations. Please see the attached listing of contacts for each country to arrange for pickup of the loan unit.

If you return to their country of origin with the loan unit, you will be charged additional freight to return the unit to the loaning country.

Thank you for your understanding of this program.

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