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Portable Projector

NP64/NP63/NP54/NP43

User's Manual





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- The projector's model name indicated on the projector's label is NP64, NP43, NP63G, NP54G, and NP43G respectively.
 All the models are referred to as NP64, NP63, NP54, and NP43 throughout the user's manual except some of the specification pages.
- The NP63 and NP54 are not distributed in North America.
- · The NP64G is not distributed.

- DLP and BrilliantColor are trademarks of Texas Instruments.
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ps Bluetooth® registered trademark is owned by Bluetooth SIG, Inc.

contains the software (UBQ-Blue Bluetooth protocol stack 2.0+EDR (QD ID : B010586)) from Canon i-tech,Inc

& Canon Information Technologies Philippines, Inc.

NOTESIE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

- (1) The contents of this user's manual may not be reprinted in part or whole without permission.
- (2) The contents of this user's manual are subject to change without notice.
- (3) Great care has been taken in the preparation of this user's manual; however, should you notice any questionable points, errors or omissions, please contact us.
- (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 NP64/NP63/NP54/NP43 projector and keep the manual handy for future reference.

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.

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.

FixYouthe mark on the electrical and electronic products only applies to the current European Union Member

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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.



Installation

- 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.

A DAILING Sponsored by DM

• Do not use any other object than the projector's sliding lens cover to cover the lens while the projector is on.

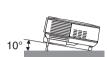
Doing so can cause the object to get extremely hot, and possibly resulting in a fire or damage due to the heat emitted from the light output.



ii

Place the projector in a horizontal position

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









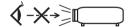
Fire and Shock Precautions 🥢



- Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the build-up of heat inside your projector. Allow at least 4 inches (10cm) of space between your projector and a wall.
- Do not try to touch the ventilation outlet on the right 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 (NP64/NP43) or 200-240V AC 50/60 Hz (NP63G/NP54G/NP43G). 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 place any objects, which are easily affected by heat, in front of 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 exhaust.

landle 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 place the power cable under the projector, or any heavy object.

- Do not cover the power cable with other soft materials such as rugs PS AND ACCESSORIES
- 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 using the tilt foot to carry or hang (from the wall or ceiling) the projector 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.
- · Select [HIGH] in Fan mode if you continue to use the projector for consecutive days. (From the menu, select $[SETUP] \rightarrow [OPTIONS(1)] \rightarrow [FAN MODE] \rightarrow [HIGH].$
- 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.
- Parts of the projector may become temporarily heated if the AC power supply is disconnected either during normal projector operation or during cooling fan operation. (The cooling fans start working after the power is turned off with the POWER button on the projector cabinet or on the remote control.)
 - Use caution when picking up the projector.



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.



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Lamp Replacement

- To replace the lamp, follow all instructions provided on page 79.
- 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.



CAUTION:

- DO NOT TOUCH THE LAMP immediately after it has been used. It will be extremely hot. Turn the projector off, wait for the cooling fans to stop and then disconnect the power cable. Allow at least one hour for the lamp to cool before handling.
- 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.

Note for US Residents

The lamp in this product contains mercury. Please dispose according to Local, State or Federal Laws.

About High Altitude mode

- Set [FAN MODE] to [HIGH ALTITUDE] when using the projector at altitudes approximately 5000 feet/1500 meters or higher.
- Using the projector at altitudes approximately 5000 feet/1500 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 5000 feet/1500 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 5000 feet/1500 meters or higher can shorten the life of optical components such as the lamp.

About Copyright of original projected pictures:

ase note that using this projector for the purpose of commercial gain or the attraction of public attention in a venue last a coffee shop of hotel and employing compression or expansion of the screen image with the following functions may raise concern about the infringement of copyrights which are protected by copyright law.

[ASPECT RATIO], [KEYSTONE], Magnifying feature and other similar features.

713COUNT-METCHANCECOM (600) 201-00

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

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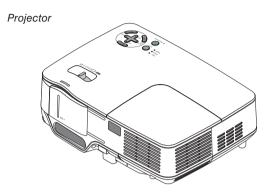
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1. Introduction

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.







Power cable (US: 7N080228) (EU: 7N080017)



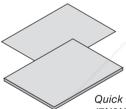
VGA signal cable (7N520073)



Remote control (7N900881)



Batteries (AAA \times 2)



Quick Setup Guide (7N8N0711) Important Infomation (For North America: 7N8N0651) (For Other countries than North America: 7N8N0651 and 7N8N0661)



NEC Projector CD-ROM User's manual (7N951461)

For North America only

Registration card Limited warranty

For customers in Europe:

You will find our current valid Guarantee Policy on our Web Site:

http://www.nec-display-solutions.com



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2 Introduction to the Projector

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

Congratulations on Your Purchase of the Projector

This DLP™ projector is one of the very best projectors available today. The projector enables you to project precise images up to 300 inches (measured diagonally) from your PC or Macintosh computer (desktop or notebook), VCR, DVD player or document camera.

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:

· Compact and high-bright DLP Projector

The light-weight DLP projector delivers high-brightness with a built-in 0.3W monaural speaker.

· A mechanical sliding lens cover

The projector has a mechanical sliding lens cover.

Closing the lens cover will turn off the image and sound during normal projector operation.

Carbon Meter

This feature will show energy-saving effect in terms of CO2 emission reduction (kg) when the projector's [ECO MODE] is set to [ON].

The amount of CO2 emission reduction will be displayed in the confirmation message at the time of power-off and in the INFO page of the on-screen menu.

AUTO FOCUS function

When you turn on the power, change the zoom or reposition the projector, the AUTO FOCUS function will work instantly.

The focus sensor on the projector detects the distance to the screen and automatically adjusts the focus of an image as well as reducing the required set-up time.

Auto vertical keystone correction

Auto Keystone feature allows the projector to detect its tilt and correct vertical distortion automatically.

· Direct Power Off

The projector has a feature called "Direct Power Off". This feature allows the projector to be turned off (even when projecting an image) by disconnecting the AC power supply.

To turn off the AC power supply when the projector is powered on, use a power strip equipped with a switch and a breaker.

AUTO POWER ON and AUTO POWER OFF features

The AUTO POWER ON(AC), AUTO POWER ON(COMP.), AUTO POWER OFF, and OFF TIMER features eliminate the need to always use the POWER button on the remote control or projector cabinet.

The supplied remote control allows you to assign a CONTROL ID to the projector

Multiple projectors can be operated separately and independently with the same single remote control by assigning an ID number to each projector.

WALL COLOR Correction

Built-in WALL COLOR Correction presets provide for adaptive color correction when projecting onto non-white screen material

Viewer supports USB memory or the Bluetooth® wireless technology (NP64/NP54 only)

The NP64 and NP54 projectors have the Viewer.

The Viewer allows you to view the image files stored in a commercially available USB memory inserted into the USB port of the projector.

Connecting the optional *Bluetooth*[®] USB adaptor (NP01BA) to the projector will allow you to transmit images wirelessly from your computers or mobile phones with *Bluetooth* wireless technology to the projector.

See the list of countries and areas supported by the optional Bluetooth USB adaptor (NP01BA) on page 38.

About this user's manual

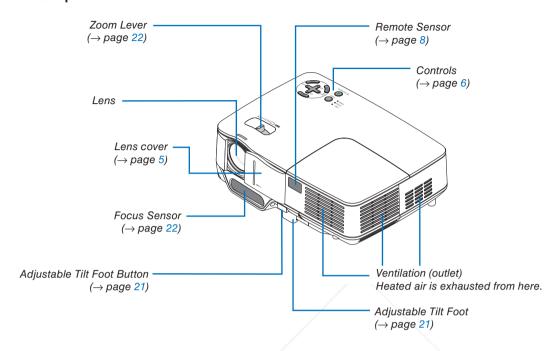
The fastest way to get started is to take your time and do everything right the first time. Take a few minutes now to review the user's manual. This may save you time later on. At the beginning of each section of the manual you'll find an overview. If the section doesn't apply, you can skip it.

In this user's manual the drawings of the projector show an example of NP63.

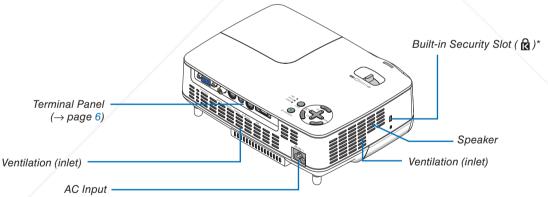


Part Names of the Projector

Front/Top



Rear

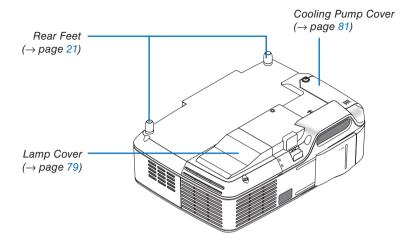


Connect the supplied power cable's three-pin plug here, and plug the other end into an active wall outlet. (\rightarrow page 15)

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This security slot supports the MicroSaver ® Security System. FOR PROJECTOR LAMPS AND ACCESSORIES

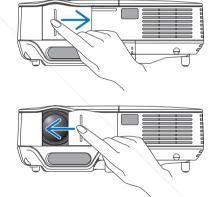
Bottom



Opening and closing the lens cover

Slide the lens cover to the right to uncover the lens.

To cover the lens, slide the lens cover to the left.





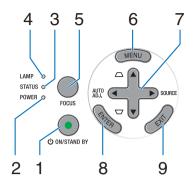
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- NOTE:

 The lens cover works in conjunction with the AV mute function. Closing the lens cover will turn off the image and sound dur-
- ing normal projector operation; opening it will restore the image and sound.

 With the lens cover closed the image and sound is turned off, however the lamp is still lit. If the projector stays this way for about 2 hours, it will turn off automatically.
- Do not pull the lens cover with excessive force or apply strong pressure in either the up or down direction. Doing so can cause damage to the lens cover sliding mechanism!

Top Features



- 1. POWER Button (ON / STAND BY) ($^{\leftarrow}$) ($^{\rightarrow}$) page 16, 28)
- **2. POWER Indicator** (→ page 15, 16, 28, 83)
- 3. STATUS Indicator (→ page 83)
- **4. LAMP Indicator** (→ page 79, 83)
- **5. FOCUS Button** (→ page 24)

- **6. MENU Button** (\rightarrow page 52)
- AUTO ADJ.

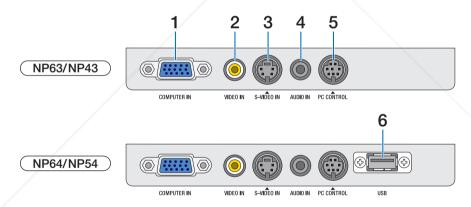
 ✓ / SOURCE

 ✓ / Keystone

 ✓ Buttons (

 → page 18, 25, 27)
- 8. ENTER Button
- 9. EXIT Button

Terminal Panel Features



- COMPUTER IN/ Component Input Connector (Mini D-Sub 15 Pin) (→ page 12, 13)
- 2 VIDEO IN Connector (RCA) (→ page 14) 3-VIDEO IN Connector (Mini DIN 4 Pin) (→ page 14)
- 4. AUDIO IN Mini Jack (Stereo Mini)
 (→ page 12,13314) D SOURCE FOR PROJ
 - 5. PC CONTROL Port (Mini DIN 8 Pin) (→ page 91)

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 91.

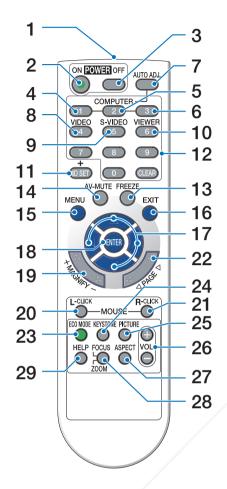
6. USB Port (Type A)

Inserting a commercially available USB memory allows you to view images stored in the USB memory (→ page 41)

Inserting the optional *Bluetooth*® USB adaptor (NP01BA) allows you to transmit images from your computer or mobile phone with *Bluetooth* wireless technology to the projector. (→ page 49)

NOTE: The NP63 and NP43 do not have the USB port.

4 Part Names of the Remote Control



1. Infrared Transmitter

 $(\rightarrow page 8)$

2. POWER ON Button

 $(\rightarrow page 16)$

3. POWER OFF Button

 $(\rightarrow page 28)$

4, 5, 6. COMPUTER 1/2/3 Button

 $(\rightarrow page 18)$

COMPUTER 2/3 button is not available on this

series of projectors)

7. AUTO ADJ. Button

27. ASPECT Button (→ page 62) (+ page 27) USTED SOURCE FOR PROJE 28 FOCUS/ZOOM Button ACCESSORIES

8. VIDEO Button

 $(\rightarrow page 18)$

9. S-VIDEO Button

 $(\rightarrow page 18)$

10. VIEWER Button

(→ page 38. The VIEWER button is not available on NP63 and NP43.)

11. ID SET Button

 $(\rightarrow page 70)$

12. Numeric Keypad Button/CLEAR Button

 $(\rightarrow page 70)$

13. FREEZE Button

 $(\rightarrow page 30)$

14. AV-MUTE Button

 $(\rightarrow page 30)$

15. MENU Button

 $(\rightarrow page 52)$

16. EXIT Button (\rightarrow page 52)

17. △▼♦► Button (→ page 52)

18. ENTER Button (\rightarrow page 52)

19. MAGNIFY (+)(-) Button

 $(\rightarrow page 30)$

20. MOUSE L-CLICK Button*

 $(\rightarrow page 36, 37)$

21. MOUSE R-CLICK Button*

 $(\rightarrow page 36, 37)$

22. PAGE **◄/▶** Button*

 $(\rightarrow page 36, 37)$

23. ECO MODE Button (\rightarrow page 31)

24. KEYSTONE Button

 $(\rightarrow page 26)$

25. PICTURE Button

 $(\rightarrow page 57, 59)$

26. VOL. (+)(-) Button

 $(\rightarrow page 28)$

(→ page 24. The ZOOM button is not available on

this series of projector.)

29. HELP Button

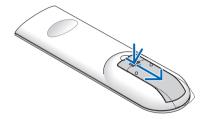
 $(\rightarrow page 75)$

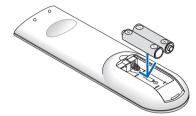
^{*} The PAGE ◀/▶, MOUSE L-CLICK and MOUSE R-CLICK buttons work only when the optional remote mouse receiver (NP01MR) is connected with your computer.

Battery Installation

- cover off.
- Press firmly and slide the battery 2 Install new batteries (AAA). Ensure that you have the batteries' polarity (+/-) aligned correctly.

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



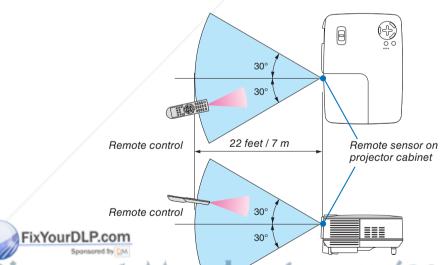




Remote Control Precautions

- 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



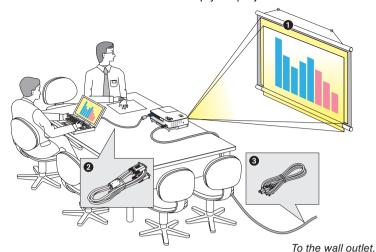
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The infrared signal operates by line-of-sight up to a distance of about 22 feet/7 m and within a 60-degree angle of the remote sensor on the projector cabinet.

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:

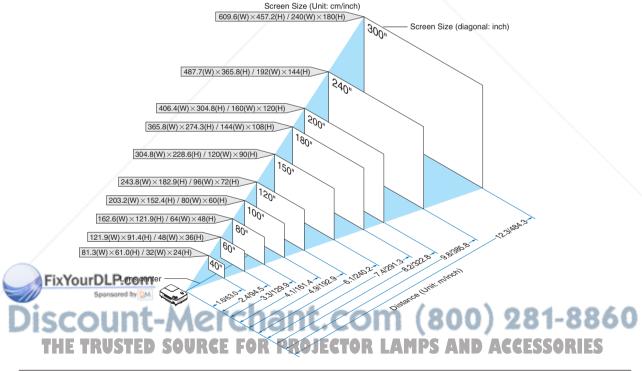
- 1 Set up a screen and the projector.
- Connect your computer or video equipment to the projector. See pages 12, 13, 14.
- Connect the supplied power cable. See page 15.

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 sliding lens cover.

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 33" (0.84 m) measured diagonally when the projector is roughly 57 inches (1.44 m) from the wall or screen. The largest the image can be is 300" (7.6 m) when the projector is about 484 inches (12.3 m) from the wall or screen. Use the chart below as a rough guide.



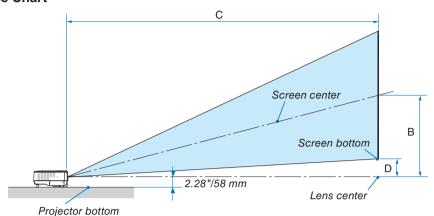
NOTE:

- The distances are indicated by intermediate values between tele and wide. Use as a rule of thumb.
- The Zoom lever adjusts the image size up to +/-10%
- For more details on throw distance, see next page.
- Changing the image size starts the AUTO FOCUS to adjust the focus; changing the throw angle starts the Auto Keystone to correct the vertical keystone distortion.

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



Screen Size			В	С			D	α		
Diagonal	Width	Height		wide	de - tele		٦	wide	-	tele
inch	inch	inch	inch	inch		inch inch		degree		
33	26	20	13		-	57	3		-	12.6
40	32	24	15	57	-	69	3	15.0	-	12.5
60	48	36	23	87	-	105	5	14.9	-	12.4
67	54	40	26	97	-	117	6	14.9	-	12.4
72	58	43	28	104	-	126	6	14.9	-	12.4
80	64	48	31	116	-	140	7	14.8	1	12.3
84	67	50	32	122	-	147	7	14.8	-	12.3
90	72	54	35	130	-	158	8	14.8	-	12.3
100	80	60	38	145	-	176	8	14.8	-	12.3
120	96	72	46	174	-	211	10	14.8	-	12.3
150	120	90	58	219	-	264	13	14.7	-	12.3
180	144	108	69	263	-	317	15	14.7	-	12.3
200	160	120	77	292	-	353	17	14.7	-	12.3
220	176	132	84	321	/-	388	18	14.7	-	12.3
240	192	144	92	351	-	423	20	14.7	-	12.3
260	208	156	100	380	-	459	22	14.7	-	12.3
280	224	168	107	409	-	494	23	14.7	-	12.3
300	240	180	115	439	_	530	25	14 7	-	12.3

Screen Size			В	С			D	α		
Diagonal	Diagonal	Width	Height	1 -	wide	-	tele	ט	wide -	tele
inch	mm	mm	mm	mm		mm	ı	mm	degr	ee
33	838	671	503	321		-	1440	70	-	12.6
40	1016	813	610	390	1450	-	1760	85	15.0 -	12.5
60	1524	1219	914	584	2200	-	2660	127	14.9 -	12.4
67	1702	1361	1021	653	2460	-	2970	142	14.9 -	12.4
72	1829	1463	1097	701	2640	-	3200	153	14.9 -	12.4
80	2032	1626	1219	779	2940	-	3560	169	14.8 -	12.3
84	2134	1707	1280	818	3090	-	3740	178	14.8 -	12.3
90	2286	1829	1372	877	3310	-	4010	191	14.8 -	12.3
100	2540	2032	1524	974	3690	-	4460	212	14.8 -	12.3
120	3048	2438	1829	1169	4430	-	5360	254	14.8 -	12.3
150	3810	3048	2286	1461	5550	-	6710	318	14.7 -	12.3
180	4572	3658	2743	1753	6670	7	8060	381	14.7 -	12.3
200	5080	4064	3048	1948	7420	-	8960	424	14.7 -	12.3
220	5588	4470	3353	2143	8160	-	9850	466	14.7 -	12.3
240	6096	4877	3658	2337	8910	-	10750	508	14.7 -	12.3
260	6604	5283	3962	2532	9650	-	11650	551	14.7 -	12.3
280	7112	5690	4267	2727	10400	-	12550	593	14.7 -	12.3
300	7620	6096	4572	2922	11140	_	13450	636	147 -	12.3

- B = Vertical distance between lens center and screen center
- C = Throw distance
- D = Vertical distance between lens center and bottom of screen(top of screen for ceiling application)
- α = Throw angle

NOTE: The values in the tables are design values and may vary.



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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. Note that [ECO] mode will be selected automatically at 86°F to 104°F/30°C to 40°C when used in [HIGH ALTITUDE].)
- 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 ▲, ▼. ◀, ▶ buttons on your projector cabinet or your remote control to correct the orientation. (\rightarrow page 68)



2 Making Connections

Connecting Your PC or Macintosh Computer

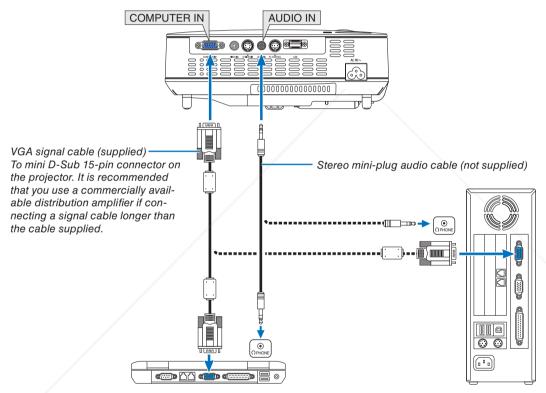
NOTE: When using with a notebook PC, be sure to connect the projector and notebook PC while the projector is in standby mode and before turning on the power to the notebook PC.

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.



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

NOTE: For older Macintosh, use a commercially available pin adapter (not supplied) to connect to your Mac's video port.



Before connecting an audio cable to the headphone jack of a computer, adjust the computer's volume level to low. After connecting the projector to the computer, adjust the volume of both projector and computer to suitable level as desired to avoid damage to your ear.

- If an audio output jack of your computer is a mini jack type, connect the audio cable to it.
- An image may not be displayed correctly when a Video or S-Video source is played back via a commercially available scan converter.

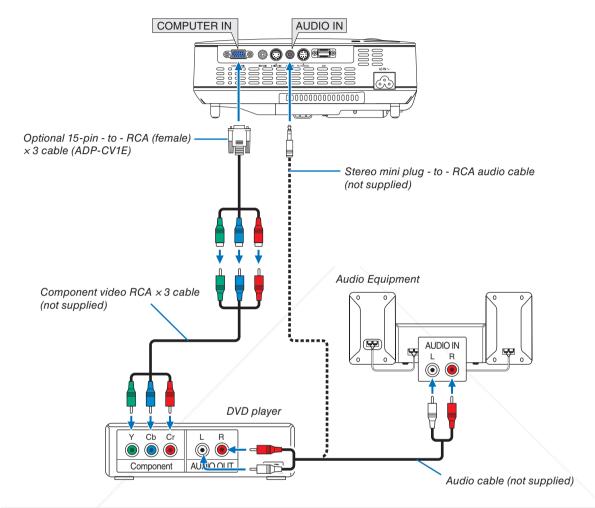
This is because the projector will process a video signal as a computer signal at the default setting. In that case, do the following.

- 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.
- The COMPUTER IN connector supports Plug & Play (DDC2B).

Connecting Your DVD Player with Component Output

Use audio equipment for stereo sound.

The projector's built-in speaker is monaural.

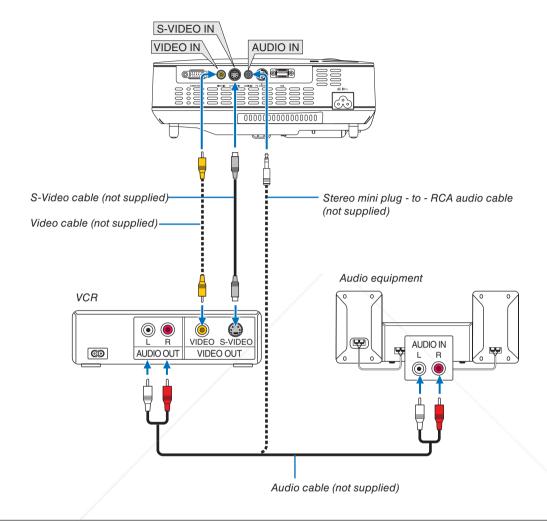


NOTE: Refer to your DVD player's owner's manual for more information about your DVD player's video output requirements.



Connecting Your VCR

Use audio equipment for stereo sound. The projector's built-in speaker is monaural.



NOTE: Refer to your VCR 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.

TIP: The AUDIO IN Mini Jack (Stereo Mini) is shared between COMPUTER, VIDEO and S-VIDEO inputs.



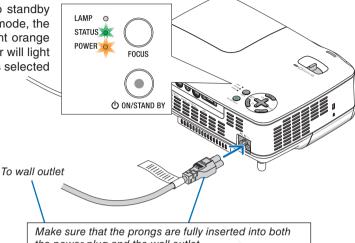
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Connecting the Supplied Power Cable

Connect the supplied power cable to the projector.

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

The projector will go into standby mode. When in standby mode, the POWER indicator will light orange and the STATUS indicator will light green when [NORMAL] is selected for [STANDBY MODE].



the power plug and the wall outlet.

CAUTION:

Parts of the projector may become temporarily heated if the AC power supply is disconnected either during normal projector operation or during cooling fan operation. Use caution when picking up the projector.



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3. Projecting an Image (Basic Operation)

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

1 Turning on the Projector

NOTE: Before turning on the projector, first connect the supplied power cable's three-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 projector is in its standby mode and the power indicator is glowing orange.

- 1. Slide the lens cover to the right to uncover the lens.
- 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.

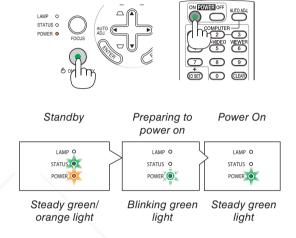
TIP:

- * Turning on the projector will instantly cause the AUTO FOCUS function to operate. (→ page 22)
- * When the message "CONTROL PANEL LOCK IS TURNED ON" is displayed, it means that the [CONTROL PANEL LOCK] is turned on. (→ page 68)

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

NOTE: When no signal is available, the NEC logo (default), blue, or black screen will be displayed. When the projector displays the NEC logo, a blue or black screen, the projector will automatically switch to the [ECO] mode.

The projector will return to the [NORMAL] mode once a signal connected.



See page 83 for more details.



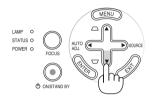
Note on Startup screen (Menu Language Select screen)

When you first turn on the projector, you will get the Startup menu. The menu gives you the opportunity to select the menu in one of the 21 languages.

To select a menu language, follow these steps:

Use the ▲, ▼, ◀ or ▶ button to select one of the 21 languages from the menu.



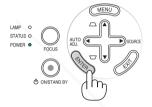




2. Press the ENTER button to execute the selection.

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

If you want, you can select the menu language later. (\rightarrow [LAN-GUAGE] on page 65)





NOTE:

- 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.
- The projector cannot be turned off with the ON/STAND BY button or the POWER OFF button while the POWER indicator is flashing green in a cycle of 0.5 second on and 0.5 second off.
- Do not disconnect the AC power supply to the projector for 60 seconds immediately after turning it on and displaying an image.
- Immediately after turning on the projector, screen flicker may occur. This is normal. Wait 3 to 5 minutes until the lamp lighting is stabilized.

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

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2 Selecting a Source

Selecting the computer or video source

NOTE: Turn on the computer or video source equipment connected to the projector.

Adjusting with buttons on the cabinet

1. Press the ▶ (SOURCE) button with no menus displayed.

The Source list will be displayed.

- When the menu is displayed, press the EXIT button to close the menu and start the operation.
- Press the ▶ button a few times quickly to select a signal you want to display.

Each time the ▶ button is pressed, each source name will be highlighted in sequence.

- The selected signal will be displayed.

TIP: Detecting the Signal Automatically

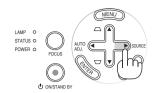
Press and hold the **b** button for a minimum of 2 seconds, the projector will search for the next available input source.

Detecting the signal automatically is not available for the Viewer source on the NP64 and NP54.

Using the Remote Control

Press any one of the VIDEO, S-VIDEO, COMPUTER, and VIEWER buttons.

NOTE: The VIEWER button is not available on the NP63 and NP43.



NP63/NP43



NP64/NP54







Selecting Default Source

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

1. Press the MENU button.

The menu will be displayed.

- Press the ▶ button twice to select [SETUP] and press the ▼ button or the ENTER button to select [GENERAL].
- 3. Press the ▶ button three times to select [OPTIONS(2)].
- Press the ▼ button six times to select [DEFAULT SOURCE SELECT] and press the ENTER button.

The [DEFAULT SOURCE SELECT] screen will be displayed.

(→ page 74)

5. Select a source as the default source, and press the ENTER button.

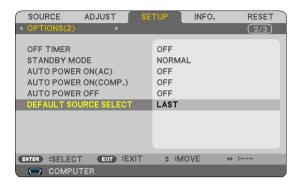
NOTE: To specify [VIEWER] as the default source on the NP64 or NP54, select [VIEWER] from the [DEFAULT SOURCE SELECT] screen, and press the ENTER button because detecting the signal automatically is not available for the Viewer source on the NP64 and NP54.

- 6. Press the EXIT button a few times to close the menu.
- 7. Restart the projector.

The source you selected in step 5 will be displayed.

TIP: When the projector is in Standby mode, applying a computer signal from a computer connected to the COMPUTER IN input will power on the projector and simultaneously project the computer's image.

([AUTO POWER ON(COMP.)] \rightarrow page 73)



NP63/NP43



NP64/NP54





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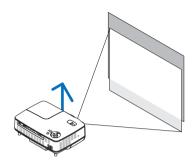
Adjusting the Picture Size and Position

Manual Operation

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

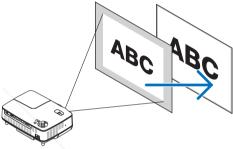
[Adjust the Tilt Foot]

Lift the front edge of the projector to center the image vertically. $(\rightarrow page 21)$



[Zoom]

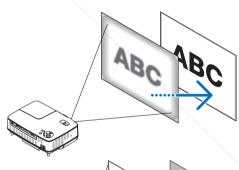
Use the ZOOM lever to adjust the image size on the screen. (\rightarrow page 22)



Automatic Operation

[AUTO FOCUS]

Just placing the projector on a flat level surface makes a focused image. (\rightarrow page 22)



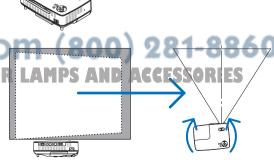
[AUTO KEYSTONE Correction]

Adjusting the height of a projected image or changing the projection angle will result in the AUTO KEYSTONE function quickly correcting the vertical distortion. (\rightarrow page 23)



TIP: If the projected image is distorted horizontally, move the projector left or right to center the image horizontally on the screen.

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Adjust the Tilt Foot

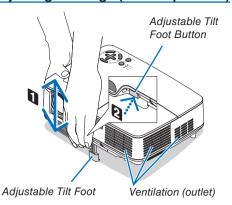
1. Lift the front edge of the projector.



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 up and hold the Adjustable Tilt Foot Button on the front of the projector to extend the adjustable tilt foot (maximum height).

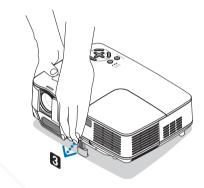


3. Release the Adjustable Tilt Foot Button to lock the adjustable tilt foot.

Adjusting the height of a projected image or changing the projection angle will result in the AUTO KEYSTONE function quickly correcting the vertical distortion. (\rightarrow page 23)

The tilt foot can be extended up to 0.98 inch/25 mm.

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



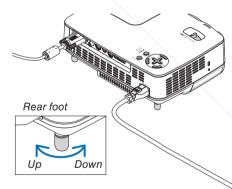
CAUTION:

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.

4. Rotate the rear foot to the desired height in order to square the image on the projection surface.

The rear foot height can be adjusted up to 0.16 inch/4 mm (1 degree of angle).

Do not extend the rear foot over 0.16" (4 mm). Doing so will cause the rear foot to come free off the bottom.







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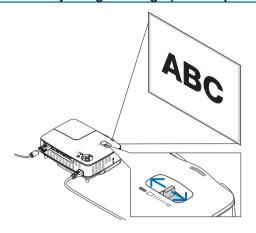
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ZOOM

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

NOTE: Rotating the ZOOM lever will cause the focus to be adjusted automatically. For more detail, see "AUTO FOCUS" below.

- Moving the projector back and forth can change the image size on the screen.
- Adjust the tilt foot if the image is distorted vertically.



AUTO FOCUS

The focus sensor on the projector detects the distance to the screen and automatically adjusts the focus of an image.

- The AUTO FOCUS function will work when the following tasks are done:
 - Turning on the power
 - Changing the zoom lever
 - Repositioning the projector
 - Changing the projection angle

Effective auto focus range for screen 4:3

Throw o	distance	Image size (inch)				
		Tele (Zoom at min.)	Wide (Zoom at max.)			
Minimum distance	57.1"/1.5 m	33"	40"			
Maximum distance	216.5"/5.5 m	123"	149"			

When the throw distance is beyond 5.5 m/216.5", it means that the focus sensor will not work correctly and that you need to use the FOCUS button to adjust the focus manually.

NOTE: In some cases, the AUTO FOCUS may not work correctly or the AUTO FOCUS range can be made narrower, depending on the environmental conditions.

The AUTO FOCUS function will not work under the following circumstances

- · When using a transparent screen.
- When there are objects between the focus sensor of the projector and the screen.
- When moving the projector so slowly that the focus sensor cannot detect the distance to the screen.
- When moving the screen, not the projector, because the focus sensor cannot detect the distance to the screen

TIP: To turn off the AUTO FOCUS function, from the menu select [SETUP] \rightarrow [OPTIONS(1)] \rightarrow [AUTO FOCUS] and select [OFF].



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AUTO KEYSTONE Correction

The AUTO KEYSTONE correction feature will correct the vertical distortion of a projected image on the screen. No special operation required. Just place the projector on a flat surface.



NOTE: When using the AUTO KEYSTONE function, heed the following:

- The AUTO KEYSTONE correction will take effect in 2 seconds after changing the projection angle during projection.
- The left and right, or horizontal keystone distortion is not available.

Place the projector so that the lens surface is parallel to the screen.

Also, adjust the height to keep the projector level by rotating the rear feet.

TIP: To turn off the AUTO KEYSTONE function, from the menu select [SETUP] \rightarrow [GENERAL] \rightarrow [AUTO KEYSTONE] and select [OFF]. (\rightarrow page 64) Even when the menu setting for [AUTO KEYSTONE] is turned on, [KEYSTONE] can be adjusted manually.

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



4 Adjusting Focus Manually

Adjust the focus manually in the following cases:

- When adjusting the focus out of the effective range of the automatic focus
- · When finely adjusting the focus
- · When the menu setting for [AUTO FOCUS] is turned off

Adjusting with buttons on the cabinet or the remote control

1. Press the FOCUS button quickly.

The focus adjustment screen will be displayed.







The focus adjustment screen will be closed if no button operation is made for 5 seconds.

TIP: If the projector is placed within the effective focus range, pressing and holding the FOCUS for a minimum of 2 seconds starts the AUTO FOCUS function.

- 2. Press the ◀ or ▶ button to adjust the focus.
- 3. Press the EXIT button.

The focus adjustment screen will be closed.







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6 Correcting Keystone Distortion Manually

You can also correct the vertical keystone distortion manually.

NOTE:

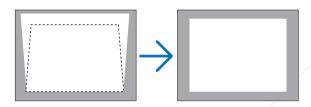
- Keystone correction by using the ▲/▼ button is not possible when [VIEWER] is selected for the source.
- The vertical keystone angle can be corrected between 40 degrees upward and 40 degrees downward from level.

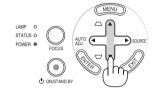
Adjust the keystone distortion manually in the following cases:

- To fine tune Keystone correction even after performing the [AUTO KEYSTONE] adjustment
- · When the menu setting for [AUTO KEYSTONE] is turned off

Adjusting with buttons on the cabinet

- Press the ▲ or ▼ button with no menus displayed.
 The slide bar will be displayed for your adjustment.
- Use the ▲ or ▼ to correct the keystone distortion.
 Adjust so that the right and left sides are parallel.







3. Press the EXIT button.

The slide bar will be closed.



Adjusting with the remote control

1. Press the KEYSTONE button.

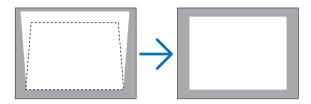
The Keystone bar will be displayed.





2. Use the ◀ or ▶ button to correct the keystone distortion.

Adjust so that the right and left sides are parallel.





3. Press the EXIT button.

The Keystone bar will be closed.

NOTE:

- The Keystone correction can cause an image to be slightly blurred because the correction is made electronically.
- The maximum range of vertical keystone correction is +/-40 degrees. This maximum range can be changed depending on the signal or aspect ratio setting.
- The range of keystone correction is not the maximum tilt angle of projector.
- The left and right (horizontal) keystone correction is not available.

TIP: The changes can be saved with [KEYSTONE SAVE]. $(\rightarrow$ page 64)



Optimizing RGB Picture Automatically

Adjusting the Image Using Auto Adjust

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

Adjusting with buttons on the cabinet

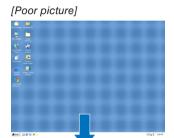
Press the

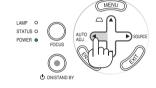
■ button with no menus displayed.

An RGB image will be optimized automatically after a few seconds.

Adjusting with the remote control

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











NOTE:

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

- NP63/NP43: The Auto Adjust function does not work for component and video signals.
- NP64/NP54: The Auto Adjust function does not work for component/video signals, and the Viewer source.
- If the Auto Adjust operation cannot optimize the RGB signal, try to adjust HORIZONTAL/VERTICAL, CLOCK and PHASE manually. (→ page 60, 61)
- If performing the Auto Adjust function does not correct image positioning, vertical stripes (banding) or horizontal noise, perform the [HORIZONTAL], [VERTICAL], [CLOCK] or [PHASE] function from the menu to optimize the image. (→ page 60, 61)
- Performing the [HORIZONTAL], [VERTICAL], [CLOCK] or [PHASE] function will store the adjustment values of the currently
 projected source into the projector's memory.
- The next time the same source (same resolution, horizontal and vertical frequencies) is projected; the projector will call up from memory the stored values for the source.
- To clear the stored adjustment values, select the [RESET] → [CURRENT SIGNAL] or [ALL DATA] from the menu to reset the

djustment values
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Adjusting Volume Up & Down

Sound level from the speaker on the projector can be adjusted.





Another way to adjust volume is to use the menu. Select [ADJUST] \rightarrow [BASIC] \rightarrow [VOLUME] from the menu.

NOTE: The IBEEPI sound volume cannot be adjusted. To turn off the IBEEPI sound, from the menu, select [SETUP] \rightarrow [OPTIONS (1)] \rightarrow [BEEP] \rightarrow [OFF].

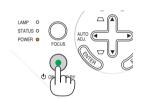
Turning off the Projector

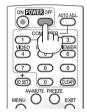
To turn off the projector:

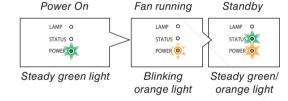
First, press the POWER (ON/STAND BY) button on the projector cabinet or the POWER OFF button on the remote control. The "POWER OFF / ARE YOU SURE? /CAR-BON SAVINGS- SESSION X.XXX[g-CO2]" message will appear.



Secondly, press the ENTER button or press the POWER (ON/STAND BY) or the POWER OFF button again. The power indicator will glow orange.









CAUTION:

Parts of the projector may become temporarily heated if the AC power supply is disconnected either during normal projector operation or during cooling fan operation. Use caution when picking up the projector.

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the projector cannot be turned off with the ON/STAND BY button or the POWER OFF button while the POWER indicator is flashing green in a cycle of 0.5 second on and 0.5 second off.

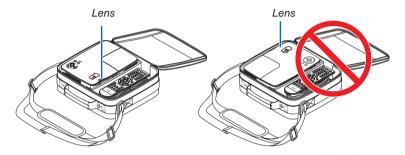
- · Do not disconnect the AC power supply to the projector for 60 seconds immediately after turning it on and displaying an im-
- Do not turn off the projector using the "Direct Power Off" function within 10 seconds of making adjustment or setting changes and closing the menu. Doing so can cause loss of adjustments and settings.

9 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 and rear foot if extended.
- 4. Slide the lens cover to the left to cover the lens.
- 5. Put the projector and its accessories in the supplied soft case.

Place the projector in the soft case 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.



CAUTION:

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



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4. Convenient Features

1 Turning off the Image and Sound

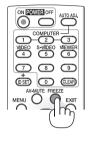
Press the AV-MUTE button to turn off the image and sound for a short period of time. Press again to restore the image and sound.

NOTE: Even though the image is turned off, the menu still remains on the screen.

NO EQUIPMENT AUTO ALL ON EXPENSIVE MEMORY ON EXPENSIVE MEMORY ON EXPENSIVE MEMORY ON EXPENSIVE MEMORY ON EXPENSIVE FREEZE MENU EXPE

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

NOTE: The image is frozen but the original video is still playing back.



Enlarging a Picture

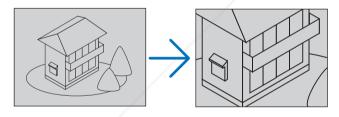
You can enlarge the picture up to four times.

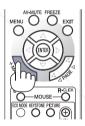
NOTE: The maximum magnification may be less than four times depending on the signal or when [WIDE ZOOM] is selected for [ASPECT RATIO].

To do so:

1. Press the MAGNIFY (+) button to magnify the picture.

To move the magnified image, use the \triangle , ∇ , \triangleleft or \triangleright button.





2. Press the ▲▼◀▶ button.

The area of the magnified image will be moved

3. Press the MAGNIFY (-) button.

Each time the MAGNIFY (-) button is pressed, the image is reduced.

IOTE:

The image will be enlarged or reduced at the center of the screen.

Displaying the menu will cancel the current magnification.

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4 Changing Eco Mode

This feature enables you to select two brightness modes of the lamp: OFF and ON modes. The lamp life can be extended by turning on the [ECO MODE].

[ECO MODE]	Description	Status of LAMP indicator	
[OFF]	This is the default setting (100% Brightness).	Off	LAMPSTATUS
[ON]	Select this mode to increase the lamp life (NP64/NP63: approx. 75% Brightness, NP54/NP43: approx. 85% Brightness)	Steady Green light	C STATUS

To turn on the [ECO MODE], do the following:

- 1. Press the ECO MODE button on the remote control to display [ECO MODE] screen.
- 2. Use the ▲ or ▼ button to select [ON].
- 3. Press the ENTER button.

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

NOTE:

- The [ECO MODE] can be changed by using the menu.
 Select [SETUP] → [GENERAL] → [ECO MODE].
- The lamp life remaining and lamp hours used can be checked in [USAGE TIME]. Select [INFO.]

 [USAGE TIME].
- The projector will always enter into the [ECO MODE] [OFF] condition for 60 seconds immediately after the projector is turned on. The lamp condition will not be affected even when [ECO MODE] is changed within this time period.
- After a lapse of 60 seconds from when the projector displays a blue, black or logo screen, [ECO MODE] will automatically switch to [ON]. This is done only when [ECO MODE] is set to [OFF].
- If the projector is overheated in [OFF] mode, there may be a case where the [ECO MODE] automatically changes to [ON] mode to protect the projector. When the projector is in [ON] mode, the picture brightness decreases. When the projector comes back to normal temperature, the [ECO MODE] returns to [OFF] mode.

Thermometer symbol []] indicates the [ECO MODE] is automatically set to [ON] mode because the internal temperature is too high.







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6 Checking Energy-Saving Effect [CARBON METER]

This feature will show energy-saving effect in terms of CO₂ emission reduction (kg) when the projector's [ECO MODE] is set to [ON]. This feature is called [CARBON METER].

There are two messages: [TOTAL CARBON SAVINGS] and [CARBON SAVINGS-SESSION]. The [TOTAL CARBON SAVINGS] message shows the total amount of CO_2 emission reduction from the time of shipment up to now. You can check the information on [USAGE TIME] from [INFO.] of the menu. (\rightarrow page 75)



The [CARBON SAVINGS-SESSION] message shows the amount of CO₂ emission reduction between the time of changing to ECO MODE immediately after the time of power-on and the time of power-off. The [CARBON SAVINGS-SESSION] message will be displayed in the [POWER OFF/ ARE YOU SURE?] message at the time of power-off.



TIP:

- The formula as shown below is used to calculate the amount of CO₂ emission reduction.
 Amount of CO₂ emission reduction = Power consumption in OFF for ECO MODE Power consumption in ON for ECO MODE x CO₂ conversion factor.*
 - * Calculation for amount of CO₂ emission reduction is based on an OECD publication "CO2 Emissions from Fuel Combustion, 2008 Edition".
- The [TOTAL CARBON SAVINGS] is calculated based on savings recorded in 15 minutes intervals.
- This formula will not apply to the power consumption which is not affected by whether [ECO MODE] is turned on or off.



6 Preventing the Unauthorized Use of the Projector [SECURITY]

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

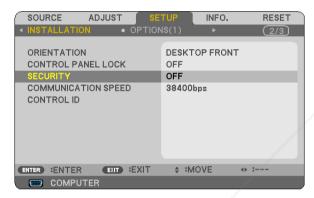
• The [SECURITY] setting cannot be cancelled by using the [RESET] of the menu.

To enable the Security function:

1. Press the MENU button.

The menu will be displayed.

- 2. Press the ▶ button twice to select [SETUP] and press the ▼ button or the ENTER button to select [GEN-ERAL].
- 3. Press the ▶ button to select [INSTALLATION].
- 4. Press the ▼ button three times to select [SECURITY] and press the ENTER button.



The OFF/ON menu will be displayed.

5. Press the ▼ button to select [ON] and press the ENTER button.



The [SECURITY KEYWORD] screen will be displayed.

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

NOTE: A keyword must be 4 to 10 digits in length.



The [CONFIRM KEYWORD] screen will be displayed.

7. Type in the same combination of AV4> buttons 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:

- Press and hold the POWER button for about 1 second.
 The projector will be turned on and display a message to the effect that the projector is locked.
- 2. Press the MENU button.

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3. Type in the correct keyword and press the ENTER button. The projector will display an image.



NOTE: The security disable mode is maintained until the power cable is unplugged.

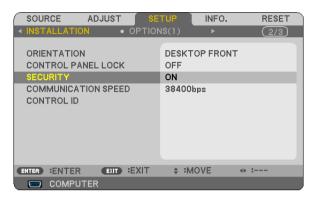


To disable the SECURITY function:

1. Press the MENU button.

The menu will be displayed.

2. Select [SETUP] → [INSTALLATION] → [SECURITY] and press the ENTER button.



The OFF/ON menu will be displayed.

3. Select [OFF] and press the ENTER button.



The KEYWORD CONFIRMATION screen will be displayed.



4. 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 [K992-45L8-JNGJ-4XU9-1YAT-EEA2] is a request code.



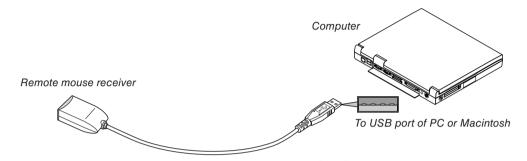
Using the Optional Remote Mouse Receiver (NP01MR)

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.

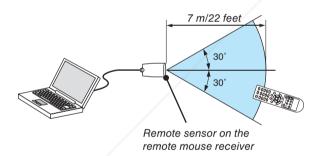
Connecting the remote mouse receiver to your computer

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 XP*, Windows 2000, Windows Vista, Windows 7, 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].

F The PAGE 1 and be buttons do not work with PowerPoint for Macintosh.

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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 ◀/▶ Button: scrolls the viewing area of the window or to move to the previous or next slide in

PowerPoint on your computer.

▲▼ 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.

NOTE:

 When you operate the computer using the ▲▼◀ or ▶ button with the menu displayed, both the menu and the mouse pointer will be affected. Close the menu and perform the mouse operation.

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 $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$ 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.

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 the Viewer (NP64/NP54)

1 What you can do with the Viewer

The NP64 and NP54 have the Viewer. The Viewer has the following features.

- When a commercially available USB memory that stores image files is inserted into the USB port (Type A) of the projector, the Viewer allows you to view the image files on the USB memory.
 - Even if no computer is available, presentations can be conducted simply with the projector.
- Image formats such as GIF, JPEG, PNG, and BMP can be projected.
- The Viewer displays the thumbnail screen on which you can jump to any specific image you wish to project.
- There are two ways of playback for slideshow: manual playback and auto playback. The interval time can be changed in auto playback.
- The order of displaying images can be set by name, extension, date or size. Ascending or descending order
 can be selected.
- Images can be rotated by 90 degrees during playback.
- Connecting the optional Bluetooth® USB adaptor (NP01BA) to the USB port (Type A) of the projector will allow
 you to transmit images wirelessly from your computers or mobile phones with Bluetooth wireless technology to
 the projector.

Operation of the optional *Bluetooth*[®] USB adaptor (NP01BA) is subjected to the regulations of the countries listed below, and may be prohibited to use outside the country where you purchased.

Supported countries and areas:

Japan

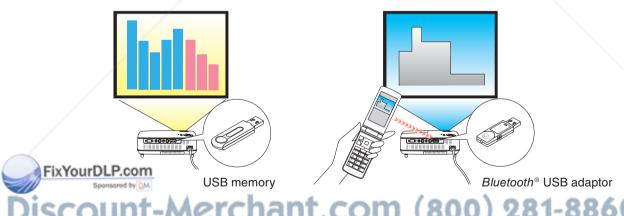
USA

Canada

Europe: Austria / Belgium / Bulgaria / Cyprus / Czech / Denmark / Estonia / Finland / France / Germany

/ Greece / Hungary / Iceland / Ireland / Italy / Latvia / Liechtenstein / Lithuania / Luxembourg / Malta / Norway / Poland / Portugal / Romania / Slovak / Slovenia / Spain / Sweden / Switzer-

land / The Netherlands / United Kingdom



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NOTE

- The NP63 and NP43 do not have the Viewer.
- The USB port of the NP64 and the NP54 does not support USB hub. Both a USB memory and the Bluetooth® USB adaptor
 cannot be used at the same time.
- The following operations by using the buttons on the projector are not possible when the VIEWER screen such as the slide screen and the thumbnail screen is displayed.
 - Keystone correction by using the ▲/▼ button
 - Auto Adjustment by using the ◀ or AUTO ADJ. button
 - Source selection by using the ► (SOURCE) button

To perform Keystone correction or Source selection during display of the Viewer, press the MENU button twice to display the menu and operate Viewer from the menu.

- Freezing picture by using the FREEZE button on the remote control is not possible when the VIEWER screen such as the slide screen and the thumbnail screen is displayed.
- Executing [RESET] → [ALL DATA] from the menu will return the settings for the Viewer [OPTIONS] menu to the factory default.
- USB memory
 - When using a USB memory for the Viewer function, make sure that the projector's lamp is turned on before you insert your USB memory into the projector.

Some USB memories cannot be recognized if the USB memory is inserted before the projector is turned on. If the projector fails to recognize the USB memory, turn off the power and turn it back on.

- Be sure to use a USB memory device formatted with the FAT32, FAT16 or FAT12 file system. When formatting your USB memory, set the allocation unit size to 32KB or less.

The projector does not support NTFS formatted USB memory.

If the projector does not recognize your USB memory, check if the format is supported.

To format your USB memory in your computer, refer to the document or help file that comes with your Windows.

- We do not warrant that the USB port of the projector will support all USB memories in the market.
- · Supported images
 - Supported file format for Viewer are as follows.

We do not warrant all the images are supported for Viewer.

Images other than mentioned in the table may not be supported.

Image type	Extension	Restrictions
GIF	GIF	Interlaced GIF, transparent GIF, and animated GIF are not
		supported.
JPEG	JPG/JPE/JPEG	CMYK JPEG and progressive JPEG are not supported.
PNG	PNG	Interlaced PNG and alpha channel PNG are not supported.
Windows Bitmap	ВМР	-

- Images with up to 4000 x 4000 pixels can be supported.
- More than 300 files in a single folder cannot be displayed with the Viewer.
- If a single folder contains too many files, switching images will take time. To shorten switching time, reduce the number of images contained in a single folder.



TIP:

Using the Viewer to project a PowerPoint file

To use the Viewer to project a PowerPoint file, first convert your PowerPoint file to GIF, JPEG, PNG, or BMP format.

Note that some formats are not supported by the Viewer.

Procedure (for the case of PowerPoint 2003)

- 1. Open your PowerPoint file.
- 2. Choose [File(F)] \rightarrow [Save As (A)] from the menu bar.
- 3. Select a location to store the file. Under [Save as type], choose one of the following formats.
 - GIF Graphics Interchange Format (*.gif)
 - JPEG File Interchange Format (*.jpg)
 - PNG Portable Network Graphics (*.png)
 - Device Independent Bitmap (*.bmp)

The BMP format is recommended for this case.

4. Choose [Save].

The message shown below will appear.

[Do you want to export every slide in the presentation or only the current slide?]

5. Choose [Every Slide].

Now copy this newly converted file to your USB memory.



2 Projecting images stored in a USB memory device (Basic operation)

This section explains the basic operation of the Viewer.

The explanation provides the operational procedure when the Viewer [OPTIONS] menu (\rightarrow page 45) is set to the factory default.

- Starting the Viewerbelow
 Removing the USB memory from the projectorpage 42
- Exiting the Viewer.....page 43

Preparation: Before starting the Viewer, store images to the USB memory using your computer.

Starting the Viewer

- 1. Turn on the projector. (\rightarrow page 16)
- Insert the USB memory into the USB port of the projector.
- To remove the USB memory from the projector, select "REMOVE USB DEVICE" from the OPTIONS menu. (→ Step 5 on page 43)



The SOURCE list will be displayed.

 Another way to display the SOURCE list is to press the VIEWER button on the remote control. Go on to Step [5].



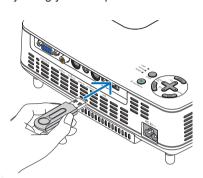
Press the ► (SOURCE) three times to select the cursor to [VIEWER].

Each time the ▶ button is pressed quickly, the next source will be highlighted.

 During this time, do not press and hold the ▶ button for 2 seconds or longer. Doing so will start the projector to detect the signal automatically.

ighlighting [VIEWER] for a while will start the Viewer to project images stored in the USB memory (slide screen).

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5. Press the ▶ button.

The next image will be displayed.

6. Press the **◄** button.

The previous image will be displayed.

7. Press the MENU button.

The control bar will be displayed.

- Pressing the MENU button during display of the control bar will display the SOURCE SELECT screen. Press the MENU button again to close the SOURCE SELECT screen.
- Pressing the EXIT button during display of the control bar will close the control bar.
- 8. Press the ▶ button to select [] and press the ENTER button. The selected image will be rotated 90 degrees clockwise.
- From this state, each time the ENTER button is pressed, the image will be rotated by 90 degrees clockwise.
- Press the ▶ button to select [☐] and press the EN-TER button.

The control bar will be closed.

10. Press the EXIT button.

The thumbnail screen will be displayed.

- Another way to display the thumbnail screen is to go back to Step 7 and select [] of the control bar and press the ENTER button.
- To return the slide screen from the thumbnail screen, select the image you wish to display in slide and press the ENTER button.

Removing the USB memory from the projector

1. Press the MENU button with the thumbnail screen displayed.

he pop up menu Will be displayed at the bottom left of the screen.

Pressing the MENU button during display of the pop-up menu will display the on-screen menu. Press the MENU button again to close the on-screen menu.

2. Select [REMOVE USB DEVICE] and press the ENTER button.

The confirmation message will be displayed at the center.









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The confirmation message will be displayed at the center of the screen.

4. Press the ENTER button.

The confirmation message will be changed.

5. Remove the USB memory from the projector.

NOTE: If you remove the USB memory from the projector without using [REMOVE USB DEVICE] from the menu, the projector may not operate correctly. If this happens, turn off the projector and unplug the power cable. Wait 3 minutes, then connect the power cable, and turn on the projector.

Exiting the Viewer

 Press the MENU button with the slide screen or the thumbnail screen displayed.

The control bar or the pop-up menu will be displayed.

2. Press the MENU button again.

The on-screen menu will be displayed.

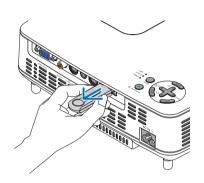
3. Select a source other than [VIEWER] and press the ENTER button.

The Viewer will be exited.

TIP: To exit the Viewer using the remote control, select a source other than [VIEWER].











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3 Operating the slide screen

The slide screen allows you to perform the following operations.

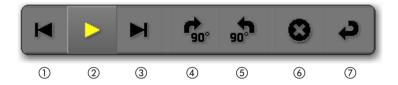
▶ button Displays the next image.

■ button Displays the previous image.

ENTER button Displays the pointer (). The pointer can be moved by using the $\triangle V \triangleleft \triangleright$ button. Press the ENTER button again to close the pointer.

MENU button...... Displays the control bar.

Use the ◀ or ▶ button to move the yellow cursor to the item and press the ENTER button. Each function is shown below.



Button Name	Description				
① Back	Displays the previous image.				
② Play/Pause	Starts or stops auto playback of slideshow. Or starts or stops slideshow.				
③ Forward	Displays the next image.				
4 90° clockwise	Rotates the image 90 degrees clockwise.				
⑤ 90° counterclockwise	Rotates the image 90 degrees counter clockwise.				
6 Exit	Closes the control bar.				
⑦ Return	Switches to the thumbnail screen.				

4 Operating the thumbnail screen

Parts of thumbnail screen



Name	Description				
① Path	Displays the path of the displayed image. When a USB memory is inserted, the drive name is displayed as [USB]. When the <i>Bluetooth</i> USB adaptor is inserted, the drive name is displayed as [<i>Bluetooth</i>].				
② Up directory	Returns to the upper (parent) folder.				
③ Images or folder (in thumbnail or icon form)	Displays the image in the thumbnail (reduced display) or icon form.				
File name of selected image	Displays the file name of the image you move the cursor to.				
⑤ Information	 When the image is highlighted: Displays the given number in the order of display, the last date and time of the image changing, and the file size. The date and time of the image received using the <i>Bluetooth</i> wireless technology will not be shown. When the folder is highlighted: Displays the last date and time of the folder. When the drive is highlighted: Displays the free space of the drive. 				

Operating the thumbnail screen

▲▼ ∢ ► buttons	Moves the cursor.
ENTER button	Switches to the slide screen when the image is highlighted.
	The files in a folder are displayed when the folder is highlighted.
	It returns to the upper (parent) folder when the "Up directory" is highlighted.
EXIT button	Returns to the upper (parent) folder.
MENU button	Displays the following pop-up menu.

Menu item	Description		
PLAY	Selects to start slideshow.		
DELETE(Note)	Deletes the images received with <i>Bluetooth</i> wireless technology. The submenu of [DELETE] or [DELETE ALL FILES] is displayed.		
REMOVE USB DEVICE	Stops the USB memory inserted into the projector. Execute this menu item before removing the USB memory from the projector.		
OPTIONS	Displays [OPTIONS] menu. (→ this page)		

Note: This option will be displayed when the optional Bluetooth® USB adaptor (NP01BA) is inserted into the projector. (\rightarrow page 49)

[OPTIONS] menu

Factory settings are indicated in square bracket [].

		Menu item	Description		
		PLAYMODE	[MANUAL] AUTO	Selects auto play or manual play (button operation) of slideshow.	
			[5 SECONDS] - 300 SECONDS	Specifies interval time when [AUTO] is selected for PLAY MODE.	
	FixYourD	SPARUM	[SLIDE] THUMBNAILS	Selects the slide screen or the thumbnail screen when the Viewer starts	
		REPEAT - Merch		Turns on or off the repeat function when [AUTO] is selected for [PLAY MODE] and turns on or off the rotation when [MANUAL] is selected for [PLAY MODE].	
	THE TR		OFF PROJECTOR LAN	Selects [ON] to display thumbnails in the thumbnail screen. Select [OFF] to display icons representing image.	

5. Using the Viewer (NP64/NP54)

VIEWER	SORT	[NAME (ABC)] (Note 1) NAME (ZYX) TYPE (ABC) TYPE (ZYX) DATE (NEW) DATE (OLD) SIZE (LARGE) SIZE (SMALL)	Selects the sorting order of the slides or thumbnails for slideshow.	
	REMOVE USB DEVICE	EXECUTE	Stops the USB memory inserted into the projector. Execute this menu item before removing the USB memory from the projector.	
	Bluetooth setting (Note 2)			
	SEARCH RESPONSE (Note 2)	OFF [ON]	Selects whether to answer when a search command is received from the <i>Bluetooth</i> device.	
USB	DEVICE NAME (Note 2)	-	Returns a device name specified with this option to a device with <i>Bluetooth</i> wireless technology. The BD address (12 digits not including "colon") of <i>Bluetooth</i> ® USB adaptor is used as the default name of the device.	
	PASSKEY (Note 2)	OFF [ON (0000)] CHANGE	Selects whether to do authentication and encryption when a device with <i>Bluetooth</i> wireless technology is connected. The authentication character string (1 to 8 characters) can be changed if necessary.	
	BD ADDRESS (Note 2)	-	Displays the BD address of <i>Bluetooth</i> ® USB adaptor that is inserted into the projector.	
	FIRMWARE			
VERSION	DATA		Displays the firmware version of the Viewer.	
	FONT			

Note 1: The [SORT] setting will be returned to [NAME(ABC..)] when the projector is turned off and then back on. Note 2: These items will be displayed when the optional Bluetooth® USB adaptor (NP01BA) is inserted into the projector. $(\rightarrow page 49)$



Entering Characters

To enter or change [DEVICE NAME] and [PASSKEY] at the use of *Bluetooth®* USB adaptor, use the character entry screen (software keyboard).

This section uses an example of entering a passkey to describe how to enter characters.

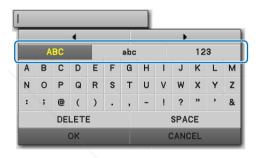
When you select [CHANGE] of [PASSKEY] from the [OPTIONS] menu, the character entry screen will be displayed.



Entering characters

1. Press the ▼ button.

The cursor will move to the character type section.



2. Press the ◀ or ▶ button.

The character type will be changed in the order of [ABC], [abc], and [123].



3. Move the cursor to select the character type section and press the ▼ button.

The cursor will move to the character field.

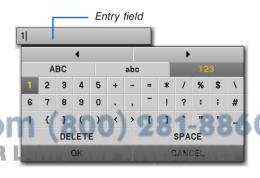
ove the cursor to select a character and press the EN-TER button.

The character will be displayed in the entry field.

5. After completing entry, press the ▼ button and move the cursor to select [OK] and the ENTER button.

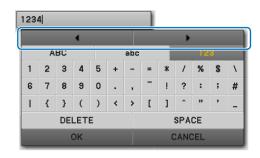
The entry will take effect.

• To cancel, move the cursor to select [CANCEL] and press the ENTER button.



Changing characters in the entry field

The and will be changed to dark gray.



2. Press the ◀ or ▶ button.

The cursor (I) in the entry field will be moved from side to side.

- 12|34
- 3. Move the cursor (I) to the right of the character to be deleted.
- Press the ▼ button and move the cursor to select [DELETE] and press the ENTER button.

The character in the entry field will be deleted.

• To insert a space, move the cursor to select [SPACE] and press the ENTER button.





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6 Using the *Bluetooth®* wireless technology to transmit images

Overview

Connecting the optional *Bluetooth*® USB adaptor (NP01BA) to the USB port (Type A) of the projector will allow you to transmit images wirelessly from your computers or mobile phones with *Bluetooth* wireless technology to the projector.

[Important]

- If you remove the Bluetooth® USB adaptor from the projector, all the images that the projector received will be deleted.
- When the projector goes into the standby mode or when the AC power supply is turned off, all the received images will be deleted.
- Received images cannot be stored to the projector.
- The maximum available space for received images in all is 6MB. One image must not exceed 2.5MB in size.
- If the projector is receiving images beyond the space limit during the transmission, the oldest image will be deleted and will receive a new image. When the image is received, a confirmation message will not be displayed.

Typical Specifications of Bluetooh® USB Adaptor

Model name	NP01BA				
Standard	Bluetooth Ver.2.0+EDR				
Transmission method	FH-SS (Frequency-Hopping Spread Spectrum)				
Frequency range	2.4GHz band (2402-2480MHz)				
Transmission output	2.5mW, Class2				
Supported profiles	BIP (Basic Imaging Profile) OPP (Object Push Profile)				
Communication distance	Approx. 10m/33 feet (*The communication distance may vary depending on the environment.)				
Dimensions	17.6 mm/0.69"(Width) x 9.0 mm/0.35"(Height) x 56.3 mm/2.22"(Depth)				
Weight	6g/0.2 oz				
Use environment	Temperature: 0°C to 40°C/ 32°F to 104°F Humidity: 20 to 80% (non-condensing)				
Storage environment	Temperature: -10°C to 60°C/14°F to 140°F Humidity: 20 to 80%(non-condensing)				

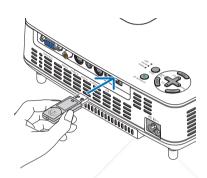
- Make sure beforehand that your transmission device supports the BIP or OPP profile according to the user's manual supplied with your transmission device.
- Bluetooth® USB adaptor (NP01BA) is for the exclusive use of our projectors.



Operating Procedures

- 1. Turn on the projector.
- 2. Select [VIEWER] from the [SOURCE] menu.
 - Another way to select the [VIEWER] source is to press the VIEWER button on the remote control.
 - When the slide screen is displayed from the Viewer, press the EXIT button to change it to the thumbnail screen.
 - Make sure that the drive display shows "Bluetooth" on the top left of the thumbnail screen.
- 3. Insert the Bluetooth® USB adaptor into the USB port of the projector.
 - Insert the Bluetooth® USB adaptor with the [🕑] side facing upward.

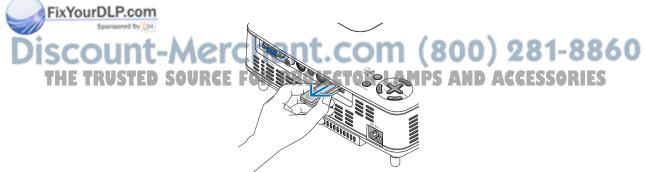
NOTE: Do not remove the Bluetooth® USB adaptor while the message [INITIALIZING Bluetooth DEVICE] is being displayed.



4. Transmit images wirelessly from your Bluetooth computers or mobile phones to the projector

- Select the device name of the projector and enter your passkey on your transmission device.

 The default device name of the projector is "BD address of inserted Bluetooth® USB adaptor". The default passkey is "0000".
- When the projector receives images, those images will be shown on the thumbnail screen.
- If the projector receives unsupported images, the message [FILE FORMAT IS INCORRECT.] will be displayed.
- 5. Use the Viewer of the projector to project images.
 - After receiving images, operate the Viewer in the same way as the one for USB memory.
 (→ "3. Operating the slide screen" on page 44), (→ "4. Operating the thumbnail screen" on page 44)
 - To delete the received images, press the MENU button in the thumbnail screen to select [DELETE...] from the pop-up menu.
- 6. Finish using the Bluetooth® USB adaptor.
 - Remove the Bluetooth® USB adaptor from the projector.



Troubleshooting on Using the Bluetooth wireless technology to transmit images

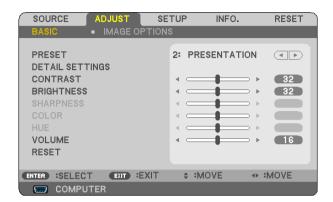
Problem	Check These Items
Cannot the projector, or transmission rate is too slow	 Check if the Bluetooth® USB adaptor is fully inserted into the USB port of the projector, and make sure that the Bluetooth® USB adaptor is displayed in the thumbnail screen. (→ page 50) Check if the communication distance is too far or if there is any obstacle between the Bluetooth® USB adaptor and your transmission device. The maximum line-of-sight distance is 10 m/33 feet. (*The communication distance may vary depending on the environment.) (→ page 49) Check if the projector is used near a device generating electric wave such as a wireless LAN device or microwave oven. These devices may cause interference to the radio communications. Check if [SEARCH RESPONSE] is turned [ON]. If [SEARCH RESPONSE] is turned [OFF], the search screen cannot be displayed. Should this happen, turn [SEARCH RESPONSE] to [ON] or specify the BD address in [BD ADDRESS]. (→ page 46) Check if the Bluetooth wireless technology function is turned off with your transmission device. If so, turn it on.
Cannot connect to the projector	 Check if two or more transmission devices is sending data to the projector. The projector does not have the capability of receiving data from multiple devices. Wait until data transmission from another transmission device is completed. Check if a passkey is set on the projector. If so, the passkey is also required to be correctly set on your transmission device. (→ page 46) Check if your transmission device supports the BIP or OPP profile. (→ page 49)



6. Using On-Screen Menu

Using the Menus

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



NOTE: The commands such as ENTER, EXIT, ▲▼. In the bottom show available buttons for your operation.

- 2. Press the ◀▶ buttons on the remote control or the projector cabinet to display the submenu.
- 3. Press the ENTER button on the remote control or the projector cabinet to highlight the top item or the first tab.
- Use the ▲▼ buttons on the remote control or the projector cabinet to select the item you want to adjust or set.

You can use the ◀▶ buttons on the remote control or the projector cabinet to select the tab you want.

- 5. Press the ENTER button on the remote control or the projector cabinet to display the submenu window.
- 6. Adjust the level or turn the selected item on or off by using the ▲▼◀▶ buttons on the remote control or the projector cabinet.

Changes are stored until adjusted again.

7. Repeat steps 2 -6 to adjust an additional item, or press the EXIT button on the remote control or the projector cabinet to quit the menu display.

MOTE: When a menu or message is displayed, several lines of information may be lost, depending on the signal or settings.

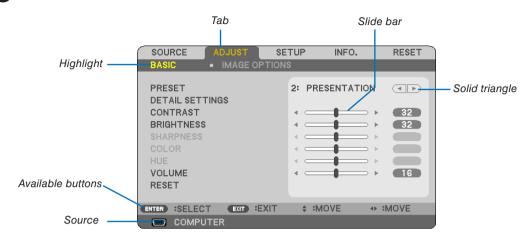
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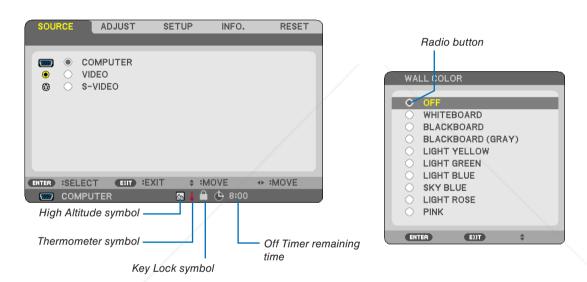
8. Press the MENU button to close the menu.

To return to the previous menu, press the EXIT button.

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2 Menu Elements





Menu windows or dialog boxes typically have the following elements:

High Altitude symbol Indicates the [FAN MODE] is set to [HIGH ALTITUDE] mode.

3 List of Menu Items

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

Menu Item					Default	Options
	COMPUTER	}				
SOURCE	VIDEO					
OCCITICE	S-VIDEO					
	VIEWER (NI	P64/NP54)				
						1-6
				REFERENCE	*	HIGH-BRIGHT, PRESENTATION, VIDEO, MOVIE, GRAPHIC, sRGB
		PRESET	DETAIL	GAMMA CORRECTION	*	DYNAMIC, NATURAL, BLACK DETAIL
			SETTINGS	COLOR TEMPERATURE	*	5000, 6500, 7800, 8500, 9300, 10500
	BASIC			BrilliantColor	*	OFF, MEDIUM, HIGH
	BASIO	CONTRAST	I.	1		,
		BRIGHTNESS				
		SHARPNESS				
		COLOR				
ADJUST		HUE				
		VOLUME				
		RESET				
		CLOCK			*	
		PHASE			*	
		HORIZONTAL			*	
		VERTICAL			*	
	INAAOE	VERTICAL			1	AUTO 40 400 450 40 40 WIDE 700M
	IMAGE OPTIONS	ASPECT RATIO			*	AUTO, 4:3, 16:9, 15:9, 16:10, WIDE ZOOM, NA TIVE
		POSITION				
		NOISE REDUCTION			LOW	OFF, LOW, MEDIUM, HIGH
		TELECINE			2-2/2-3 AUTO	OFF, 2-2/2-3 AUTO, 2-2 ON, 2-3 ON
		AUTO KEYSTONE			ON	OFF, ON
		KEYSTONE			0.1	0.1, 0.1
		KEYSTONE SAVE			OFF	OFF, ON
		KEYSTONE SAVE			OFF	
	GENERAL	WALL COLOR			OFF	OFF, WHITEBOARD, BLACKBOARD, BLACKBOARD(GRAY), LIGHT YELLOW, LIGHT GREEN, LIGHT BLUE, SKY BLUE, LIGHT ROSE, PINK
		ECO MODE			OFF	OFF, ON
		LANGUAGE				ENGLISH, DEUTSCH, FRANÇAIS, ITALIANO, ESPAÑOL, SVENSKA, 日本語, DANSK, PORTUGUÊS, ČEŠTINA, MAGYAR, POLSKI, NEDERLANDS, SUOMI, NORSK, TÜRKÇE, PYCCKИЙ, ᠵᢣ, EΛΛΗΝΙΚΑ, 中文, 한국어
SETUP		COLOR SELECT			COLOR	COLOR, MONOCHROME
SETUP		SOURCE DISPLAY			ON	OFF, ON
		ID DISPLAY			ON	OFF, ON
	MENU	ECO MESSAGE				OFF, ON
		LOO IVILOSAGE				
_		DISPLAY TIME			45SEC	MANUAL, AUTO 5 SEC, AUTO 15SEC, AUTO 45 SEC
EivVour	DLP.con	BACKGROUND				BLUE, BLACK, LOGO
PIXTOUR	Sponsored by DN	ORIENTATION			DESKTOP FRONT	DESKTOP FRONT, CEILING REAR, DESKTOP REAR, CEILING FRONT
Via	Name of	CONTROL PANEL LC	CK	4	OFF	OFF, ON
JISCO	INSTALLA-	SECURITY	nar	IL.CO	OFF	OFF, ON CONTRACTOR OFF
THE T	TION	COMMUNICATION SI		ONLINGE DO P	38400bps	4800bps/9600bps/19200bps/38400bps
11115 11	1731EI	CONTROL ID	CONTROL	D NUMBER D	OFF	OFF, ON

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

6. Using On-Screen Menu

		AUTO FOCUS		ON	OFF, ON
		FAN MODE		AUTO	AUTO, HIGH, HIGH ALTITUDE
	OPTIONS	COLOR SYSTEM	VIDEO	AUTO	AUTO, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM
	(1)		S-VIDEO	AUTO	AUTO, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM
		WXGA MODE		OFF	OFF, ON
		BEEP		ON	OFF, ON
SETUP		OFF TIMER		OFF	OFF/0:30/1:00/2:00/4:00/8:00/12:00/16:00
		STANDBY MODE		NORMAL	NORMAL, POWER-SAVING
		AUTO POWER ON (AC)	OFF	OFF, ON
	OPTIONS	AUTO POWER ON (COMP.)	OFF	OFF, ON
	(2)	AUTO POWER OFF		OFF	OFF/0:05/0:10/0:20/0:30
		DEFAULT SOURCE SELECT		LAST	NP64/NP54: LAST, AUTO, COMPUTER, VIDEO, S-VIDEO, VIEWER NP63/NP43: LAST, AUTO, COMPUTER, VIDEO, S-VIDEO
	USAGE	LAMP LIFE REMAINING			
	TIME	LAMP HOURS USED			
		TOTAL CARBON SAVINGS			
		SOURCE NAME			
		HORIZONTAL FREC	UENCY		
		VERTICAL FREQUENCY			
		SIGNAL TYPE			RGB, COMPONENT, VIDEO, S-VIDEO, HDTV
INFO.	SOURCE	VIDEO TYPE			NTSC, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM
INFO.		SYNC TYPE	/		SEPARATE SYNC, COMPOSITE SYNC, SYNC ON GREEN, SYNC ON VIDEO
		SYNC POLARITY			
		SCAN TYPE			INTERLACE, NON-INTERLACE
		PRODUCT			
		SERIAL NUMBER			
	VERSION	FIRMWARE			
		DATA			
		CONTROL ID (when [CONTROL ID] is set)			
	CURRENT	SIGNAL			
RESET	ALL DATA	ALL DATA			
	CLEAR LAN	CLEAR LAMP HOURS			



4 Menu Descriptions & Functions [SOURCE]

NP63/NP43

SOURCE ADJUST SETUP INFO. RESET

COMPUTER
SOURCE
SOURCE
ADJUST SETUP INFO. RESET

SOURCE
SOUR

NP64/NP54



COMPUTER

Selects the computer connected to your COMPUTER input connector.

NOTE:

- When the component input signal is connected to the COMPUTER IN connector, select [COMPUTER].
- The projector will determine if the input signal is RGB or component signal.

VIDEO

Selects what is connected to your VIDEO input-VCR, DVD player or document camera.

S-VIDEO

Selects what is connected to your S-VIDEO input-VCR or DVD player.

NOTE: A frame may freeze for a brief period of time when a video is played back in fast-forward or fast-rewind with a Video or S-Video source.

VIEWER (NP64/NP54)

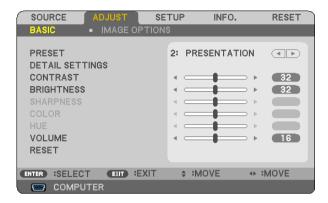
Projects images stored in a commercially available USB memory inserted into the USB port of the projector. Inserting the optional *Bluetooth*® USB adaptor (NP01BA) allows you to transmit images from your computer or mobile phone with *Bluetooth* wireless technology to the projector.

 $(\rightarrow$ "5. Using the Viewer" on page 38)



6 Menu Descriptions & Functions [ADJUST]

[BASIC]



[PRESET]

This function allows you to select optimized settings for your projected image.

You can adjust neutral tint for yellow, cyan or magenta.

There are six factory presets optimized for various types of images. You can also use [DETAIL SETTINGS] to set user adjustable settings to customize each gamma or color.

Your settings can be stored in [PRESET 1] to [PRESET 6].

HIGH-BRIGHT Recommended for use in a brightly lit room.

PRESENTATION Recommended for making a presentation using a PowerPoint file.

VIDEO...... Recommended for typical TV program viewing.

MOVIE Recommended for movies.

GRAPHIC...... Recommended for graphics.

sRGB Standard color values



[DETAIL SETTINGS]



Storing Your Customized Settings [REFERENCE]

This function allows you to store your customized settings in [PRESET 1] to [PRESET 6]. First, select a base preset mode from [REFERENCE], then set [GAMMA CORRECTION], [COLOR TEMPERATURE], and [BrilliantColor].

Selecting Gamma Correction Mode [GAMMA CORRECTION]

Each mode is recommended for:

Adjusting Color Temperature [COLOR TEMPERATURE]

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

NOTE:

- When [PRESENTATION] or [HIGH-BRIGHT] is selected in [REFERENCE], this function is not available.
- Other options than [OFF] is selected in [WALL COLOR], the function is not available.

Adjusting Brightness of White Areas [BrilliantColor]

is function allows you to adjust the brightness of the white areas. As the picture becomes dim, it looks more raixYourDLP.com

NOTE:

- [BrilliantColor] is not available when [HIGH-BRIGHT] is selected for [REFERENCE].
- [BrilliantColor] can be set to [MEDIUM] or [HIGH] when [PRESENTATION] is selected for [REFERENCE]

[CONTRAST]

Adjusts the intensity of the image according to the incoming signal.

[BRIGHTNESS]

Adjusts the brightness level or the back raster intensity.

[SHARPNESS]

Controls the detail of the image for Video.

[COLOR]

Increases or decreases the color saturation level.

[HUE]

Varies the color level from +/- green to +/- blue. The red level is used as reference.

Input signal	CONTRAST	BRIGHTNESS	SHARPNESS	COLOR	HUE
Computer (RGB)	Yes	Yes	No	No	No
Component	Yes	Yes	Yes	Yes	Yes
Video, S-Video	Yes	Yes	Yes	Yes	Yes
Viewer (NP64/ NP54)	Yes	Yes	No	No	No

Yes = Adjustable, No = Not adjustable

[VOLUME]

Adjusts the volume of the projector speaker.

NOTE:

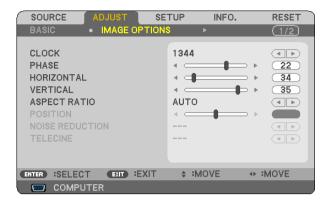
- The volume level is set to "16" at the factory.
- Volume can be also adjusted by using the VOLUME (+/-) button on the remote control.

[RESET]

The adjustments for [CONTRAST], [BRIGHTNESS], [SHARPNESS], [COLOR], [HUE], and [VOLUME] will be returned to the factory setting values.

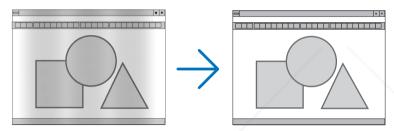


[IMAGE OPTIONS]

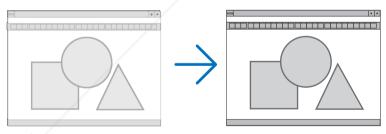


Adjusting Clock and Phase [CLOCK/PHASE]

This allows you to manually adjust CLOCK and PHASE.



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

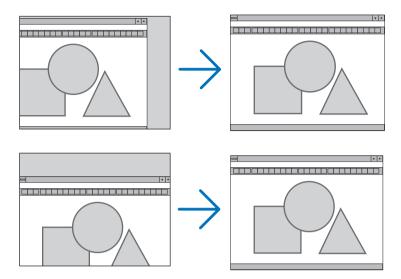


Use [PHASE] only after the [CLOCK] is complete.



Adjusting Horizontal/Vertical Position [HORIZONTAL/VERTICAL]

Adjusts the image location horizontally and vertically.



- An image can be distorted during the adjustment of [CLOCK] and [PHASE]. This is not a malfunction.
- The adjustments for [CLOCK], [PHASE], [HORIZONTAL], and [VERTICAL] will be stored in memory for the current signal. The next time you project the signal with the same resolution, horizontal and vertical frequency, its adjustments will be called up and applied.

To delete adjustments stored in memory, from the menu, you select [RESET] \rightarrow [CURRENT SIGNAL] or [ALL DATA] and reset the adjustments. (\rightarrow page 77)



Selecting Aspect Ratio [ASPECT RATIO]

The term "aspect ratio" refers to the ratio of width to height of a projected image.

The projector automatically determines the incoming signal and displays it in its appropriate aspect ratio.

• This table shows typical resolutions and aspect ratios that most computers support.

Resolution		Aspect Ratio		
VGA	640 x 480	4:3		
SVGA	800 x 600	4:3		
XGA	1024 x 768	4:3		
WXGA	1280 x 768	15:9		
WXGA	1280 x 800	16:10		
WXGA+	1440 x 900	16:10		
SXGA	1280 x 1024	5:4		
SXGA+	1400 x 1050	4:3		
UXGA	1600 x 1200	4:3		

Options	Function				
AUTO	The projector will automatically determine the incoming signal and display it in its				
	aspect ratio.				
	The projector may erroneously determine the aspect ratio depending on its signal. If				
	this occurs, select the appropriate aspect ratio from the following.				
4:3	The image is displayed in 4:3 aspect ratio.				
16:9	The image is displayed in 16:9 aspect ratio.				
15:9	The image is displayed in 15:9 aspect ratio.				
16:10	The image is displayed in 16:10 aspect ratio.				
WIDE ZOOM	The image is stretched left and right.				
	Parts of the displayed image are cropped at the left and right edges and therefore not				
	visible.				
NATIVE	The projector displays the current image in its true resolution when the incoming com-				
	puter signal has a lower resolution than the projector's native resolution.				
	[Example] When the incoming signal with the resolution of 800 x				
	600 is displayed: NOTE:				
/	 When a non-computer signal is displayed, the [NATIVE] is not available. When a signal with a higher resolution than the projector's native resolution is displayed, [NA-TIVE] is not available. 				

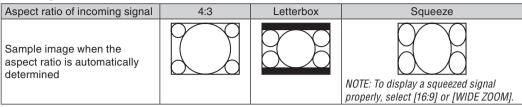
Sample image when the appropriate aspect ratio is automatically determined

[Computer signal]

Aspect ratio of incoming signal	4:3	5:4	16:9	15:9	16:10
Sample image when the appropriate aspect ratio is automatically determined					

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[Video signal]



TIP.

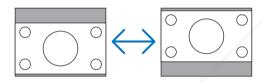
- Image position can be adjusted vertically using [POSITION] when the [16:9], [15:9], or [16:10] aspect ratios are selected.
- The term "letterbox" refers to a more landscape-oriented image when compared to a 4:3 image, which is the standard aspect ratio for a vide source.
 - The letterbox signal has aspect ratios with the vista size "1.85:1" or cinema scope size "2.35:1" for movie film.
- The term "squeeze" refers to the compressed image of which aspect ratio is converted from 16:9 to 4:3.

Adjusting the Vertical Position of Image [POSITION]

(only when [16:9], [15:9], or [16:10] is selected for [ASPECT RATIO])

When [16:9], [15:9], or [16:10] 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.



Turning on Noise Reduction [NOISE REDUCTION]

This function allows you to select the level of noise reduction.

The projector is set to the optimized level for each signal at the factory.

Select your preference item for your signal when video noise is noticeable.

The options are [OFF], [LOW], [MEDIUM], and [HIGH].

NOTE: This feature is not available for the RGB signal. Noise reduction set to off gives best image quality by way of higher bandwidth. Noise reduction set to on softens the image.

Setting Telecine Mode [TELECINE]

This function allows you to convert motion picture film images into video. The process adds additional frames to the picture in order to increase the frame rate.

EFThis feature is available only when an SDTV signal is selected.

OFF......Turns off the TELECINE mode.

com (800) 281-8860 2-2/2-3 AUTO Detects pull-down correction method.

2-3 ON Uses 2-3 pull-down correction method

NOTE: This feature is not available for 480p, 576p, 720p, 1080i and RGB signals

Menu Descriptions & Functions [SETUP]

[GENERAL]



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]. To adjust the KEYSTONE feature manually, select [OFF].

Correcting Vertical Keystone Distortion Manually [KEYSTONE]

You can correct vertical distortion manually. (\rightarrow page 25)

TIP: When this option is highlighted, pressing the ENTER button will display its slide bar for adjustment.

Saving Vertical Keystone Correction [KEYSTONE SAVE]

This option enables you to save your current keystone settings.

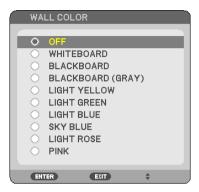
OFF	Does not save current keystone correction settings. It will return your keystone correction settings to	
	"zero".	
ON	Saves current keystone correction settings	

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



Using the Wall Color Correction [WALL COLOR]



This function allows for quick adaptive color correction in applications where the screen material is not white.

Setting Eco Mode [ECO MODE]

This feature turns on or off the ECO mode. The lamp life can be extended by selecting [ON]. Selecting [ON] also decreases fan noise when compared to [OFF] mode. (\rightarrow page 31)

ECO MODE	Description	Status of LAMP indicator
OFF	This is the Default setting (100% Brightness).	Off
ON	Select this mode to increase the lamp life (NP64/NP63: approx.75% Brightness/ NP54/NP43: approx.85% Brightness)	Steady Green light

NOTE:

- The [LAMP LIFE REMAINING] and [LAMP HOURS USED] can be checked in [USAGE TIME]. Select [INFO.] → [USAGE TIME]. (→
 page 75)
- The projector will always enter into the [ECO MODE] [OFF] condition for 60 seconds immediately after the projector is turned on. The lamp condition will not be affected even when [ECO MODE] is changed within this time period.
- After a lapse of 60 seconds from when the projector displays a blue, black or logo screen, [ECO MODE] will automatically switch to [ON].
 - The projector will return to the [OFF] mode once a signal is accepted.
- If the projector becomes overheated in [OFF] mode because of use in a high-temperature room, there may be a case where the [ECO MODE] automatically changes to [ON] mode to protect the projector. This mode is called "forced ECO mode". When the projector is in [ON] mode, the picture brightness decreases. The LAMP indicator's steady light indicates the projector is in [ON] mode. When the projector comes back to normal temperature, the [ECO MODE] returns to [OFF] mode. Thermometer symbol [] indicates the [ECO MODE] is automatically set to [ON] mode because the internal temperature is

Thermometer symbol [📘] indicates the [ECO MODE] is automatically set to [ON] mode because the internal temperature is too high.

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Selecting Menu Language [LANGUAGE]

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

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

[MENU]



Selecting Menu Color [COLOR SELECT]

You can choose between two options for menu color: COLOR and MONOCHROME.

Turning On / Off Source Display [SOURCE DISPLAY]

This option turns on or off input name display such as COMPUTER, VIDEO, S-VIDEO and No Input to be displayed on the top right of the screen.

Turning ON/OFF Control ID [ID DISPLAY]

ID DISPLAY This option turns on or off the ID number which is displayed when the ID SET button on the remote control is pressed.

Turning On / Off Eco Message [ECO MESSAGE]

This option turns on or off the following messages when the projector is turned on.

The Eco Message prompts the user to save energy. When [OFF] is selected for [ECO MODE], you will get a message to prompt you to select [ON] for [ECO MODE].

When [ON] is selected for [ECO MODE]



To close the message, press the ENTER or the EXIT button. The message will disappear if no button operation is done for 30 seconds.

When [OFF] is selected for [ECO MODE]



Pressing the ENTER button will display the [ECO MODE] screen, (→ page 65) AND ACCESSORIES

To close the message, press the EXIT button. The message will disappear if no button operation is done for 30 seconds.

Selecting Menu Display Time [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]. The [AUTO 45 SEC] is the factory preset.

Selecting a Color or Logo for Background [BACKGROUND]

Use this feature to display a blue/black screen or logo when no signal is available. The default background is [LOGO].

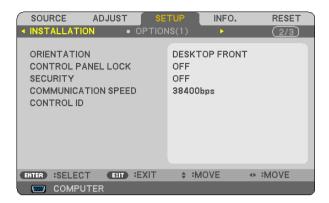
TIP: The logo can be changed.

For more information about how to change the logo, please consult your NEC or NEC-designated service station. If you cannot find one in your area, ask your dealer.

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

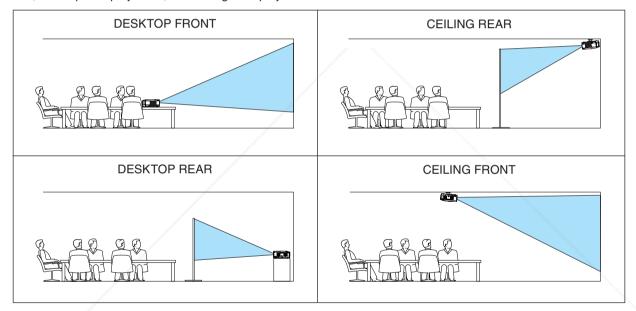


[INSTALLATION]



Selecting Projector Orientation [ORIENTATION]

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



Disabling the Cabinet Buttons [CONTROL PANEL LOCK]

This option turns on or off the CONTROL PANEL LOCK function.

NOTE:

This CONTROL PANEL LOCK does not affect the remote control functions.

hen the control panel is locked, pressing and holding the EXIT button on the projector cabinet for about 10 seconds will change the setting to [OFF].

TIP: When the [CONTROL PANEL LOCK] is turned on, a key lock icon [] will be displayed at the bottom right of the menu.

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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 33)

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

Selecting Communication Speed [COMMUNICATION SPEED]

This feature sets the baud rate of the PC Control port (Mini DIN 8 Pin). It supports data rates from 4800 to 38400 bps. The default is 38400 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).

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



Setting ID to the Projector [CONTROL ID]

You can operate multiple projectors separately and independently with the single remote control that has the CONTROL ID function. If you assign the same ID to all the projectors, you can conveniently operate all the projectors together using the single remote control. To do so, you have to assign an ID number to each projector.

CONTROL ID NUMBER Select a number from 1 to 254 you wish to assign to your projector.

CONTROL ID Select [OFF] to turn off the CONTROL ID setting and select [ON] to turn on the CONTROL ID setting.

NOTE:

- When [ON] is selected for [CONTROL ID], the projector cannot be operated by using the remote control that does not support the CONTROL ID function. (In this case the buttons on the projector cabinet can be used.)
- Your setting will not be affected even when [RESET] is done from the menu.
- Pressing and holding the ENTER button on the projector cabinet for 10 seconds will display the menu for canceling the Control ID.

Assigning or Changing the Control ID

- 1. Turn on the projector.
- 2. Press the ID SET button on the remote control.

The CONTROL ID screen will be displayed.





If the projector can be operated with the current remote control ID, the [ACTIVE] will be displayed. If the projector cannot be operated with the current remote control ID, the [INACTIVE] will be displayed. To operate the inactive projector, assign the control ID used for the projector by using the following procedure (Step 3).

3. Press one of numeric keypad buttons while pressing and holding the ID SET button on the remote control.

Example:

To assign "3", press the "3" button on the remote control.

No ID means that all the projectors can be operated together with a single remote control. To set "No ID", enter "000" or press the CLEAR button.

TIP: The range of IDs is from 1 to 254.

4. Release the ID SET button.

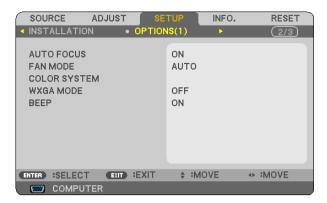
The updated CONTROL ID screen will be displayed.

Let IDs can be cleared in a few days after the batteries are run down or removed.

Accidentally pressing any one of the buttons of the remote control will clear currently specified ID with batteries removed.



[OPTIONS(1)]



Enabling or Disabling Auto Focus [AUTO FOCUS]

This option turns on or off the AUTO FOCUS feature. (\rightarrow page 22)

NOTE:

When the "AUTO FOCUS" is on, the AUTO FOCUS function works instantly under the following conditions:

- · When you turn on the power.
- When you change the zoom.
- When you reposition the projector.
- When you change the projection angle.

Selecting Fan 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 high speed.

HIGH ALTITUDE The built-in fans run at a high speed. Select this option when using the projector at altitudes approximately 5000 feet/1500 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.
- Set [FAN MODE] to [HIGH ALTITUDE] when using the projector at altitudes approximately 5000 feet/1500 meters or higher.
- Using the projector at altitudes approximately 5000 feet/1500 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 5000 feet/1500 meters and setting to [HIGH ALTITUDE] can cause the lamp to overcool, causing the image to flicker. Switch [FAN MODE] to [AUTO].

Ising the projector at altitudes approximately 5000 feet/1500 meters or higher can shorten the life of optical components yell as the lamp.

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

Selecting [COLOR SYSTEM]

This feature enables you to select video standards manually OR LAMPS AND ACCESSORIES

Normally select [AUTO]. Select the video standard from the pulldown menu. This must be done for VIDEO and S-VIDEO Connectors separately.

TIP: The projector automatically detects a component signal.

Enabling or Disabling WXGA Mode [WXGA MODE]

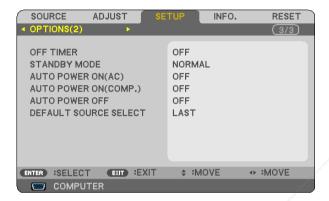
Selecting [ON] will give priority to a WXGA (1280 x 768) signal in recognizing an input signal. When [WXGA MODE] is set to [ON], an XGA (1024 x 768) signal may not be recognized. In this case, select [OFF].

Enabling Key Sound and Error Sound [BEEP]

This feature turns on or off the button sound or alarm when the following operations are performed.

- displaying the main menu
- switching sources
- Pressing POWER ON or POWER OFF button

[OPTIONS(2)]



Using Off Timer [OFF TIMER]

The remaining countdown time will be displayed at the bottom of the menu when the [OFF TIMER] is preset.

- 1. Select your desired time between 30 minutes and 16 hours: OFF, 0:30, 1:00, 2:00, 4:00, 8:00, 12:00, 16:00.
- 2. Press the ENTER button on the remote control.
- 3. The remaining time starts counting down.
- 4. The projector will turn off after the countdown is complete.

NOTE:

- To cancel the preset time, set [OFF] for the preset time or turn off the power.
- When the remaining time reaches 3 minutes before the projector is turned off, the [THE PROJECTOR WILL TURN OFF WITHIN 3 MINUTES] message will be displayed on the bottom of the screen.



Selecting Power-saving in [STANDBY MODE]

The projector has two standby modes: [NORMAL] and [POWER-SAVING].

The POWER-SAVING mode is the mode that allows you to put the projector in the power-saving condition which consumes less power than the NORMAL mode. The projector is preset for NORMAL mode at the factory.

NORMAL POWER indicator: Orange light/STATUS indicator: Green light

POWER-SAVING ... POWER indicator: Orange light/STATUS indicator: Off

The following connectors, buttons or functions will not work during this mode.

- PC CONTROL port
- Buttons other than POWER button on the cabinet
- Buttons other than POWER ON button on the remote control

NOTE:

- When [CONTROL PANEL LOCK], [CONTROL ID], or [AUTO POWER ON(COMP.)] is turned on, the [STANDBY MODE] setting is not available.
- The power consumption in the standby mode will not be included in calculating CO₂ emission reduction.
- Your setting will not be affected even when [RESET] is done from the menu.

Enabling Auto Power On [AUTO POWER ON(AC)]

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.

Turning On the Projector By Applying RGB Signal [AUTO POWER ON(COMP.)]

When the projector is in Standby mode, applying an RGB signal from a computer connected to the COMPUTER IN input will power on the projector and simultaneously project the computer's image.

This functionality eliminates the need to always use the POWER button on the remote control or the projector cabinet to power on the projector.

To use this function, first connect a computer to the projector and the projector to an active AC input.

NOTE:

- Disconnecting an RGB signal from the computer will not power off the projector. We recommend using this function in combination of the AUTO POWER OFF function.
- This function will not be available under the following conditions:
 - when a component signal is applied to the COMPUTER IN connector
 - when a Sync on Green RGB signal or composite sync signal is applied
- To enable the AUTO POWER ON (COMP.) after turning off the projector, wait 3 seconds and input a computer signal.
 If a computer signal is still present when the projector is turned off, the AUTO POWER ON (COMP.) will not work and the projector remains in standby mode.

Enabling Power Management [AUTO POWER OFF]

en this option is selected you can enable the projector to automatically turn off (at the selected time: 5min., in., 20min., 30min.) if there is no signal received by the COMPUTER, VIDEO, or S-VIDEO input.

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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.

LAST	Sets the projector to default to the previous or last active input each time the projector is turned on.
AUT0	Searches for an active source in order of COMPUTER \to VIDEO \to S-VIDEO \to COMPUTER and displays the first found source. ([AUTO] is not available for the Viewer source on the NP64 and NP54.)
COMPUTER	Displays the RGB source from the COMPUTER IN connector every time the projector is turned on.
VIDE0	Displays the Video source from the VIDEO IN connector every time the projector is turned on.
S-VIDE0	Displays the Video source from the S-VIDEO IN connector every time the projector is turned on.
VIEWER (NP64/NP54)	Displays images stored in a USB memory or images transmitted wirelessly from your computer or mobile phone with <i>Bluetooth</i> wireless technology.



Menu Descriptions & Functions [INFO.]

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

TIP: Pressing the HELP button on the remote control will show the [INFO.] menu items.

[USAGE TIME]



[LAMP LIFE REMAINING] (%)* [LAMP HOURS USED] (H) [TOTAL CARBON SAVINGS] (kg-CO2)

* 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 LAMP LIFE REMAINING 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 ECO MODE is set to OFF or ON.

The message to the effect that the lamp should be replaced will be displayed for one minute when the projector is turned on and when the POWER button on the projector or the remote control is pressed.

To dismiss this message, press any button on the projector or the remote control.

	Lamp	Replacement lamp	
Product	ECO		
	OFF	ON	
NP64/NP63	2500	2500	NP09LP
NP54/NP43	2500	3500	NP08LP

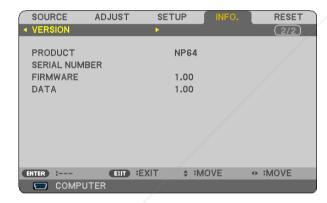


[SOURCE]



[SOURCE NAME] [VERTICAL FREQUENCY] [VIDEO TYPE] [SYNC POLARITY] [HORIZONTAL FREQUENCY] [SIGNAL TYPE] [SYNC TYPE] [SCAN TYPE]

[VERSION]



[PRODUCT]
[SERIAL NUMBER]
[FIRMWARE] Version
[DATA] Version
[CONTROL ID] (when [CONTROL ID] is set)

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Menu Descriptions & Functions [RESET]



Returning to Factory Default [RESET]

The RESET 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], [NOISE REDUCTION], and [TELECINE].

[ALL DATA]

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

All items can be reset **EXCEPT** [LANGUAGE], [BACKGROUND], [SECURITY], [COMMUNICATION SPEED], [CONTROL ID], [FAN MODE], [STANDBY MODE], [LAMP LIFE REMAINING], [LAMP HOURS USED], and [TOTAL CARBON SAVINGS].

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.

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 when you continue to use the projector for another 100 hours after the lamp has reached the end of its life. In this condition you cannot clear the lamp hour meter on the menu. If this happens, press the HELP button on the remote control for 10 seconds to reset the lamp clock back to zero. Do this only after replacing the lamp.



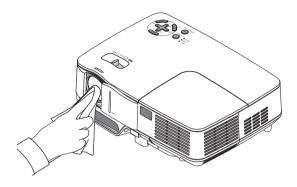
7. Maintenance

This section describes the simple maintenance procedures you should follow to clean the focus sensor, lens and replace the lamp and the cooling pump.

Cleaning the Lens and Focus Sensor

Cleaning the lens

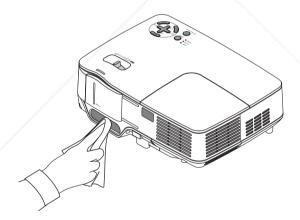
Use a blower or lens paper to clean the lens, and be careful not to scratch or mar the lens.



Cleaning the focus sensor

Use a blower or lens paper to clean the focus sensor.

Keep finger prints off the focus sensor. Leaving finger prints in the focus sensor might cause poor focus or short auto focus range.



2 Cleaning the Cabinet

- 1. Turn off the projector before cleaning.
- 2. Vacuum the ventilation inlet of the cabinet.

UTION: Sponsored by [M

When cleaning the speaker using a vacuum cleaner, do not force the brush of the vacuum cleaner into the slits of the cabinet.

Applying strong pressure or possibly impacting the speaker may cause a malfunction.



Replacing the Lamp and the Cooling Pump

When the lamp reaches the end of its life, the LAMP indicator in the cabinet will blink red. Even though the lamp may still be working, replace the lamp to maintain the optimal projector performance. After replacing the lamp, be sure to clear the lamp hour meter. (\rightarrow page 77)



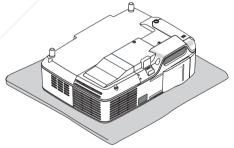
CAUTION

- The optional lamp comes with the cooling pump.
 After replacing the lamp, be sure to replace the cooling pump, too.
- DO NOT TOUCH THE LAMP immediately after it has been used. It will be extremely hot. Turn the projector off, wait for the cooling fans to stop and then disconnect the power cable. Allow at least one hour for the lamp to cool before handling.
- DO NOT REMOVE ANY SCREWS except one lamp cover screw and two lamp housing screws. You could receive an electric shock.
- Do not break the glass on the lamp housing.
 Keep finger prints off the glass surface on the lamp housing. Leaving finger prints in the glass surface might cause an unwanted shadow and poor picture quality.
- The projector will turn off and go into standby mode when you continue to use the projector for another 100 hours after the lamp has reached the end of its life. If this happens, be sure to replace the lamp. If you continue to use the lamp after the lamp reaches the end of its 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 NEC dealer for lamp replacement.

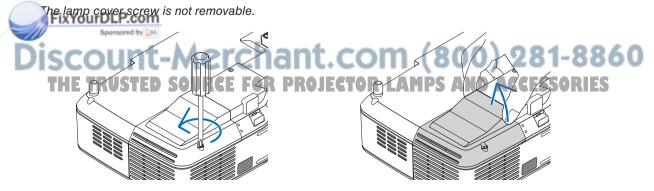
To replace the lamp:

Optional lamp, cooling pump and tools needed for replacement:

- Replacement lamp with cooling pump: NP09LP (NP64/NP63) or NP08LP (NP54/NP43)
- · Phillips screwdriver or equivalent
- 1. Place the projector on a soft cloth and turn it over to access the lamp cover on the bottom.



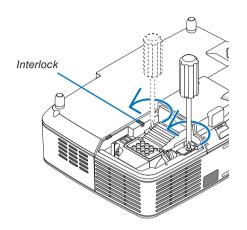
2. Loosen the lamp cover screw until the screwdriver goes into a freewheeling condition and remove the lamp cover.

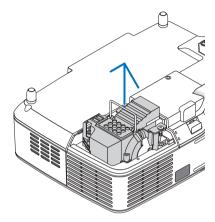


3. Loosen the two screws securing the lamp housing until the phillips screwdriver goes into a freewheeling condition.

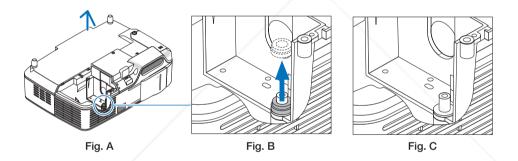
The two screws are not removable.

Remove the lamp housing by holding the handle.





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



Note: Removing or Inserting the Lamp (Sticking of Packing Ring)

After lamp replacement, a black packing ring may be stuck inside the projector (Fig. A and Fig. B). If this happens, do the following:

- If the used packing ring does not remain inside the projector (Fig. C), proceed with the new lamp housing installation.
- If the used packing ring is stuck inside the projector (Fig. B), remove it from inside the projector before installing the new lamp housing. To remove the packing ring, simply pull it off of the stud.
 - In other cases where the lamp is removed (other than lamp replacement), pulling out the lamp housing may also cause the packing ring to stay stuck inside the projector. If this happens, make sure to insert the lamp housing back in its original position.

- Before removing the used packing ring, be sure to turn off the projector, wait for the cooling fan to stop, disconnect the power cable, and allow at least one hour for the lamp to cool.
 - The projector can become very hot when it is turned on and stay hot immediately after it is turned off.
- Do not install a new lamp with the used packing ring stuck inside the projector as it requires excessive force to install the new lamp which then may cause damage to the projector.

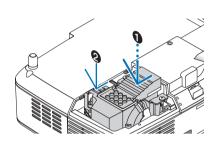
4. Push the part as shown on the drawing and insert a new lamp housing until it is plugged into the socket.

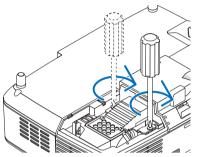
CAUTION

Do not use a lamp other than the NEC replacement lamp NP09LP (NP64/NP63) or NP08LP (NP54/NP43). Order this from your NEC dealer.

Secure it in place with the two screws.

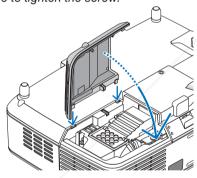
NOTE: Tighten the two screws alternately until both screws are completely tightened. Failure to do this can result in air leak from the cooling pump, causing the pump error. $(\rightarrow page 83)$

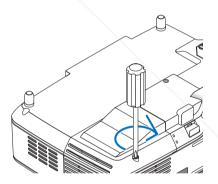




5. Reattach the lamp cover.

Tighten the lamp cover screw. Be sure to tighten the screw.





This completes the lamp replacement. Go on to the cooling pump replacement.

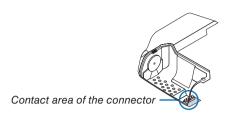
To replace the cooling pump:

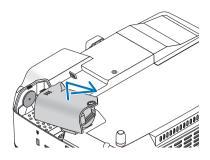
Remove the cooling pump.

1 Losself the cooling pump cover screw until the screwdriver goes into a freewheeling condition.



(2) Remove the cooling pump cover.

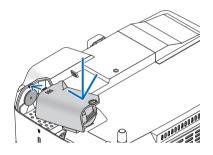




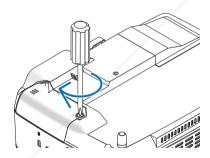
NOTE: Keep the contact area of the connector clean. If there are dust and dirt in the contact area of the connector, remove them.

7. Install a new cooling pump.

(1) Align the tabs on the cooling pump cover with the guide on the cabinet and slide the cooling pump cover.



- (2) Tighten the cooling pump cover screw.
 - Be sure to tighten the cooling pump cover screw.



This completes the cooling pump replacement.

- 8. Connect the supplied power cable and turn on the projector.
- 9. Finally, select the menu \rightarrow [RESET] \rightarrow [CLEAR LAMP HOURS] to reset the lamp usage hours.

NOTE: When you continue to use the projector for another 100 hours after the lamp has reached the end of its life, the projector cannot turn on and the menu is not displayed.

If this happens, press the HELP button on the remote control for 10 seconds to reset the lamp clock back to zero. When the lamp time clock is reset to zero, the LAMP indicator goes out.

8. 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	_
	Green	0.5 sec On, 0.5 sec Off	The projector is getting ready to turn on.	Wait for a moment.
Blinking light	Green	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.
	Green		The projector is turned on.	_
Steady light	Orange		[NORMAL] is selected for [STANDBY MODE]	-

Status Indicator

Indicator Condition		Projector Condition	Note	
I DTT		Normal or Standby ([POWER-SAVING] for [STANDBY MODE])	_	
		1 cycle (0.5 sec On, 2.5 sec Off)	Lamp cover error or lamp nousing error	Replace the lamp cover or lamp housing correctly.
		2 cycle (0.5 sec On, 0.5 sec Off)	Temperature error	The projector is overheated. Move the projector to a cooler location.
		ISEC UTT)	Power error	Power unit is not working properly. Contact your dealer.
	Red	4 cycle (0.5 sec On, 0.5 sec Off)	Fan error	Fans will not work correctly.
Blinking light		6 cycle (0.5 sec On, 0.5 sec Off)	Lamp error	Lamp fails to light. Wait a full minute and then turn on again.
		8 cycle in red and 1 cycle in green (0.5 sec On, 0.5 sec Off) or 8 cycle in red and 2 cycle in green (0.5 sec On, 0.5 sec Off)	Cooling pump error	The two screws on the lamp housing are not completely tightened. Tighten the two screws alternately until both screws are completely tightened. The cooling pump is not working properly. Contact your dealer.
	Green		Re-firing the lamp (The projector is cooling down.)	The projector is re-firing. Wait for a moment.
	Green		Standby ([NORMAL] for [STANDBY MODE])	-
Steady light	Orange		CONTROL PANEL LOCK is on.	You have pressed cabinet button when Control Panel Lock is on.
			CONTROL ID error	Remote control ID and projector ID are not matched.

Lamp Indicator

Indicator Condition		Projector Condition	Note
		Normal	_
Blinking light	Red	Lamp has reached its end of life. Lamp re- placement message will be displayed.	Replace the lamp.
dy light Fix Your DL	Red P.com	Lamp has been used beyond its limit. The projector will not turn on until the lamp is replaced.	
Spon	Green	[ECO MODE] is set to [ON]	_

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.) OR LAMPS AND AGGESSORIES 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.

$\textbf{Common Problems \& Solutions} \ (\rightarrow \text{``Power/Status/Lamp Indicator''} \ on \ page \ 83.)$

Problem	Check These Items
Does not turn on	 Check that the power cable is plugged in and that the power button on the projector cabinet or the remote control is on. (→ page 15, 16) Ensure that the lamp cover is installed correctly. (→ page 81) Ensure that the two screws on the lamp housing are completely tightened.(→ page 81) Ensure that the cooling pump is installed correctly. (→ page 82) 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 you continue to use the projector for another 100 hours after the lamp has reached the end of its life. If so, replace the lamp. After replacing the lamp, reset the lamp hours used. (→ page 77) 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 5000 feet/1500 meters or higher. Using the projector at altitudes approximately 5000 feet/1500 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 71) 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 [OFF TIMER] or [AUTO POWER OFF] is off. (→ page 72, 73) Check if the projector has stayed with its lens cover closed for more than 2 hours. (→ page 5)
No picture	 Use the appropriate source button on the remote control to select your source. (→ page 18) If there is still no picture, press the button again. Ensure your cables are connected properly. Use menus to adjust the contrast and brightness. (→ page 59) Check to see if the image is muted. (→ page 30) Ensure that the lens cover is open. (→ page 5) Reset the settings or adjustments to factory preset levels using the [RESET] in the Menu. (→ page 77) Enter your registered keyword if the SECURITY function is enabled. (→ page 33) 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 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. See also the next page.
Picture suddenly be- comes dark	When one of the following happens, the [ECO MODE] automatically changes from [OFF] to [ON]. When there are no signals (blue or black screen) → To return to the [OFF] mode, select another available source. When the room where you're presenting is particularly warm → Move the projector to a cooler location.
Image isn't square to the screen	 Reposition the projector to improve its angle to the screen. (→ page 20, 21) Use the KEYSTONE correction function to correct the trapezoid distortion. (→ page 25)
Picture is blurred	 Make sure that focus is appropriate. Reposition the projector to improve its angle to the screen. (→ page 20, 21) Ensure that the distance between the projector and screen is within the adjustment range of the lens. (→ page 10) Make sure that the distance between the focus sensor and the screen is within the effective range of the AUTO FOCUS. (→ page 22) Make sure that the requirements for the AUTO FOCUS are met. (→ page 22) 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 5000 feet/1500 meters or lower. Using the projector at altitudes less than approximately 5000 feet/1500 meters and setting to [HIGH ALTITUDE] can cause the lamp to overcool, causing the image to flicker. Switch [FAN MODE] to [AUTO]. (→ page 71)
Image is scrolling vertically, horizontally or both	 Use the appropriate source button on the remote control to select your source. (→ page 18) Adjust the computer image manually with the [HORIZONTAL] and [VERTICAL] in [ADJUST] → [IMAGE OPTIONS] in the menu. (→ page 61)
dei xònnol de la lot c	onfinstall 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 Cross color in RGB mode	 See the POWER/STATUS/LAMP Indicator. (→ page 83) Press the AUTO ADJ. button on the remote control (◀ button on the projector cabinet). (→ page 27) Adjust the computer image manually with [CLOCK] and [PHASE] in [ADJUST] → [IMAGE OPTIONS] in the menu. (→ page 60)
Cannot control the projector in standby mode from the PC Control.	Check if [STANDBY MODE] is not set to [POWER-SAVING].
The projector does not operate correctly.	Turn off the power and unplug the power cable. Wait for 5 minutes. Plug the power cable and turn on the power again.

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 "0kHz", this means there is no signal being output from the computer. See page 76 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 + F3 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.

2 Specifications

This section provides technical information about the NP64/NP63/NP54/NP43 projector's performance.

Model Number NP64/NP63/NP54/NP43

Optical

Projection System	Single DLP™ chip (0.55", aspect ratio 4:3)
Resolution	1024 x 768 pixels*1
Lens	Manual zoom and auto focus/manual powered focus (effective range: 57.1"/1.5 m - 216.5"/5.5 m) / manual focus F2.2 - 2.34, f = 20.4 mm - 24.5 mm
Lamp	NP64/NP63: 220W AC (170W ECO mode) NP54/NP43: 200W AC (170W ECO mode)
Light Output*2,*3	NP64/NP63: 3000 lumens (approx. 75% in ECO mode) NP54: 2600 lumens (approx. 85% in ECO mode) NP43: 2300 lumens (approx. 85% in ECO mode)
Contrast Ratio*3 (full white: full black)	1600:1
Image Size (Diagonal)	33" - 300" diagonal (4:3) (image sizes with less than 40" are available only in tele mode)
Projection Distance	57" - 439" (wide) / 57" - 530" (tele) 1.45 - 11.14 m (wide) / 1.44 - 13.45 m (tele)
Projection Angle	14.7° - 15.0° (wide) / 12.3° - 12.6° (tele)

^{*1} Effective pixels are more than 99.99%.

Electrical

Inputs	1 Analog RGB shared with component video (Mini D-Sub 15 Pin), 1 S-Video (Mini DIN 4 Pin), 1 Video (RCA), 1 Stereo Mini Audio shared with analog RGB input		
PC Control	1 PC Control (Mini DIN 8 Pin)		
USB Port	1 A Type (NP64/NP54)		
Built-in Speaker	0.3 W (monaural)		
External Control	RS232, IR, USB (NP64/NP54)		
Color Reproduction	16.7 million colors simultaneously, Full color		
Compatible Signals*4	VGA/SVGA/XGA/WXGA/SXGA/SXGA+/UXGA 480i/480p/576i/576p/720p/1080i		
Video Bandwidth	RGB: 100MHz (max.)		
Horizontal: 15 kHz to 100 kHz(RGB: 24 kHz or over) Scan Rate Vertical: 50 Hz to 120 Hz (Signals with higher than refresh rate 85 Hz supportions of 1024 x 768 or lower.)			
Sync Compatibility	Separate Sync/Composite Sync/Sync on G/ Sync on Video		
Horizontal Resolution	540 TV lines: NTSC/NTSC4.43/PAL/PAL-M/PAL-N/PAL60 300 TV lines: SECAM		
FixYourDLP.com	NP64: 100-240V AC, 50/60 Hz, 3.2 - 1.4 A NP43: 100-240V AC, 50/60 Hz, 2.8 - 1.2 A		
ower Requirement/Input Current	NP63G: 200-240V AC, 50/60 Hz, 1.5 A NP54G: 200-240V AC, 50/60 Hz, 1.5 A NP43G: 200-240V AC, 50/60 Hz, 1.4 A		

^{*2} 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.

^{*3} Compliance with ISO21118-2005

	NP64: in OFF for ECO MODE: 292W(100-130V AC)/277W(200-240V AC)
	in ON for ECO MODE: 223W(100-130V AC)/213W(200-240V AC)
	in NORMAL Mode for STANDBY MODE: 3W(100-130V AC)/4W(200-240V AC)
	in POWER-SAVING Mode for STANDBY MODE: 3.18W(100-130V AC)/3.66W(200-
	240V AC)
	NP63: in OFF for ECO MODE: 287W(100-130V AC)/272W(200-240V AC)
	in ON for ECO MODE: 221W(100-130V AC)/212W(200-240V AC)
	in NORMAL Mode for STANDBY MODE: 3W(100-130V AC)/4W(200-240V AC)
	in POWER-SAVING Mode for STANDBY MODE: 3.18W(100-130V AC)/3.66W(200-
Dower Consumption	240V AC)
Power Consumption	NP54: in OFF for ECO MODE: 268W(100-130V AC)/255W(200-240V AC)
	in ON for ECO MODE: 224W(100-130V AC)/214W(200-240V AC)
	in NORMAL Mode for STANDBY MODE: 3W(100-130V AC)/4W(200-240V AC)
	in POWER-SAVING Mode for STANDBY MODE: 3.18W(100-130V AC)/3.66W(200-
	240V AC)
	NP43: in OFF for ECO MODE: 266W(100-130V AC)/252W(200-240V AC)
	in ON for ECO MODE: 221W(100-130V AC)/212W(200-240V AC)
	in NORMAL Mode for STANDBY MODE: 3W(100-130V AC)/4W(200-240V AC)
	in POWER-SAVING Mode for STANDBY MODE: 3.18W(100-130V AC)/3.66W(200-
	240V AC)

^{*4} An image with higher resolution than the projector's native resolution (1024 x 768) will be displayed with scaling technology.

Mechanical

Installation	Orientation: Desktop/Front, Desktop/Rear, Ceiling/Front, Ceiling/Rear
	9.7" (W) x 2.8" (H) x 7.2" (D)
Dimensions	246 mm (W) x 72 mm (H) x 182 mm (D)
	(not including protrusions, with lens cover open)
Net Weight	3.7 lbs / 1.7 kg
Environmental Considerations	Operational Temperatures: 41°F to 104°F / 5°C to 40°C (ECO mode selected automatically at 95°F to 104°F/35°C to 40°C / ECO mode selected automatically at 86°F to 104°F/30°C to 40°C when used in HIGH ALTITUDE) 20% to 80% humidity (non-condensing) Storage Temperatures: 14°F to 122°F (-10°C to 50°C), 20% to 80% humidity (non-condensing)

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 additional information visit:

US: http://www.necdisplay.com

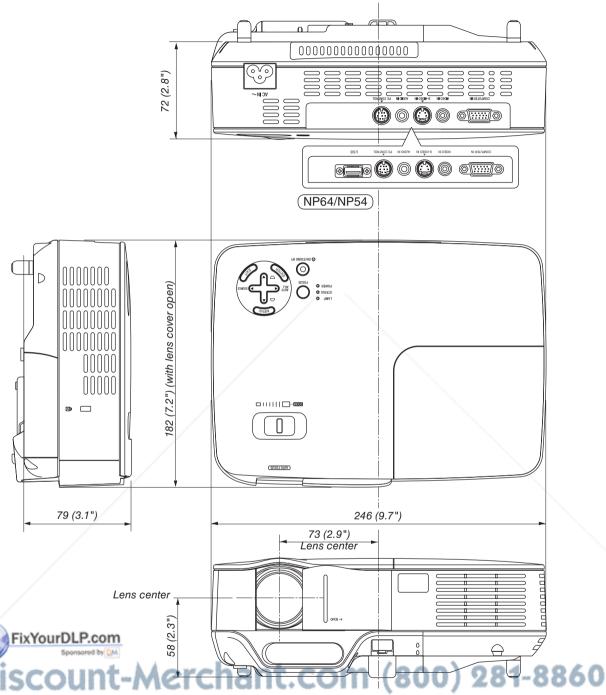
Turope: http://www.nec-display-solutions.com

lobal . Http://www.nec-display.com/ap/

information on our optional accessories, visit our website or see our brochure.

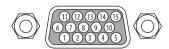
The specifications are subject to change without notice.

3 Cabinet Dimensions



4 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	Υ		
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			



6 Compatible Input Signal List

Horizontal: 15 kHz to 100 kHz (RGB: 24 kHz or over)

Vertical: 50 Hz to 120 Hz (Signals with higher than refresh rate 85 Hz support resolutions of 1024 x 768 or lower.)

Cia	umal .	Resolution	Frequency H.	Refresh Rate	
Signal		(Dots)	(kHz)	(Hz)	
VIDEO	NTSC/PAL60	_	15.73	60.00	
VIDEO PAL/SECAM		_	15.63	50.00	
		640 × 480	31.47	59.94	
		640 × 480	31.48	59.95	
		640 × 480	37.86	72.81	
		640 × 480	37.50	75.00	
		640 × 480	43.27	85.01	
		800 × 600	35.16	56.25	
		800 × 600	37.88	60.32	
		800 × 600	48.08	72.19	
		800 × 600	46.88	75.00	
IDM		800 × 600	53.67	85.06	
IBINI COL	mpatible	1024 × 768	48.36	60.00	
		1024 × 768	56.48	70.07	
		1024 × 768	60.02	75.03	
		1024 × 768	68.68	85.00	
		1280 × 768	47.78	59.87	
		1280 × 800	49.70	59.81	
		1280 × 960	60.00	60.00	
		1280 × 1024	63.98	60.02	
		1400 × 1050	/ -	60.00	
[1600 × 1200	75.00	60.02	
		640 × 480	35.00	66.67	
A I - AA		832 × 624	49.72	74.55	
Apple Macintosh®		1024 × 768	60.24	74.93	
		1280 x 1024	69.87	65.18	
	720p	1280 × 720	37.50	50.00	
LIDTV	720p	1280 × 720	45.00	60.00	
HDTV	1080i	1920 × 1080	28.13	50.00	
	1080i	1920 × 1080	33.75	60.00	
CDTV	480p		31.47	59.94	
SDTV	576p	_	31.25	50.00	
DVD		_	15.73	59.94	
DVD	YCbCr		15.63	50.00	

NOTE:

- An image with higher resolution than the projector's native resolution (1024 x 768) will be displayed with scaling technology.
- 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.
- Sync on Green and Composite sync signals are not supported.
- UXGA (1600 x 1200) is supported for separate sync signal only.



6 PC Control Codes and Cable Connection

PC Control Codes

Function	Code Data							
POWER ON	02H	00H	00H	00H	00H	02H		
POWER OFF	02H	01H	00H	00H	00H	03H		
INPUT SELECT COMPUTER	02H	03H	00H	00H	02H	01H	01H	09H
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H	0BH	13H
INPUT SELECT VIEWER (NP64/NP54)	02H	03H	00H	00H	02H	01H	1FH	27H
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		

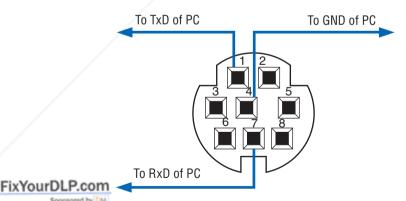
NOTE: Contact your local dealer for a full list of the PC Contorol Codes if needed.

Cable Connection

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 the following pages.

Frequency of occurrence $\ \square$ always $\ \square$ 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. Lamp cover is installed correctly. The two screws on the lamp housing are completely tightened. The cooling pump 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 a minimum of 1 second.	Shut down during operation. Power cable's plug is fully inserted into the wall outlet. Lamp cover is installed correctly. [AUTO POWER OFF] is turned off (only models with the [AUTO POWER OFF] 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	Dorto of the image are leet
projector. Still no image even though you connect the projector to the PC first, then start the PC.	Parts of the image are lost. Still unchanged even though you press the AUTO ADJ. button. Still unchanged even though you carry out [RESET] in the
Enabling your notebook PC's signal output to the projector.	projector's menu.
 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. 	Image is shifted in the vertical or horizontal direction. Horizontal and vertical positions are correctly adjusted on a computer signal.
No image (blue background, logo, no display).	Input source's resolution and frequency are supported by the projector.
Still no image even though you press the AUTO ADJ. button.	Some pixels are lost.
Still no image even though you carry out [RESET] in the projector's menu.	Image is flickering. Still unchanged even though you press the AUTO ADJ. button.
Signal cable's plug is fully inserted into the input connector A message appears on the screen.	Still unchanged even though you carry out [RESET] in the projector's menu.
The source connected to the projector is active and available. Still no image even though you adjust the [BRIGHTNESS]	Image shows flickering or color drift on a computer signal. Still unchanged even though you change [FAN MODE] from [HIGH ALTITUDE] to [AUTO].
and/or the [CONTRAST]. Input source's resolution and frequency are supported by	Image appears blurry or out of focus.
the projector. Image is too dark.	There are no objections between the focus sensor and the screen.
Remains unchanged even though you adjust the [BRIGHT-NESS] and/or the [CONTRAST].	The throw distance is within 1.5 to 5.5 m/57.1" to 216.5". Image is projected onto the screen.
Image is distorted Image appears to be trapezoidal (unchanged even though you carry out the [KEYSTONE] adjustment).	Still unchanged even though you adjusted the focus manually No sound. Audio cable is correctly connected to the audio input of the projector.
Discount-Merchant.	Still unchanged even though you adjusted the volume level.
Remote control does not work.	Buttons on the projector cabinet do not work (only models with the [CONTROL PANEL LOCK] function).
No obstacles between the sensor of the projector and the remote control. Projector is placed near a fluorescent light that can disturb	[CONTROL PANEL LOCK] is not turned on or is disabled in the menu.
the infrared remote controls. Batteries are new and are not reversed in installation.	Still unchanged even though you press and hold the EXIT button for a minimum of 10 seconds.

n the space below please des	cribe your problem in detail.	
nformation on application and	d environment where your pr	ojector is used
Projector		Installation environment
Model number:		Screen size: inch
Serial No.:		Screen type: ☐ White matte ☐ Beads ☐ Polarizatio
Date of purchase:		☐ Wide angle ☐ High contrast
Lamp operating time (hours)	:	Throw distance: feet/inch/m
Eco Mode:	□ Off □ On	Orientation: 🗆 Ceiling mount 🗆 Desktop
Information on input signal:		Power outlet connection:
Horizontal synch frequency	[] kHz	☐ Connected directly to wall outlet
Vertical synch frequency Synch polarity	[] Hz H □ (+) □ (–)	Connected to power cord extender or other (the number of connected equipment
	V □ (+) □ (−)	Connected to a power cord reel or other (the number of connected equipment)
Synch type	☐ Separate ☐ Composite	
STATUS Indicator:	☐ Sync on Green	Computer
Steady light	□ Orange □ Green	Manufacturer:
Flashing light	cycles	Model number:
Remote control model number	/	
Tiomoto control model name	01.	Notebook PC ☐ / Desktop ☐
		Native resolution:
		Refresh rate:
<u>_</u>		Video adapter:
Projector	PC	Other:
	DVD player	
Signal cable		Video equipment
NEC standard or other manuf	facturer's cable?	VCR, DVD player, Video camera, Video game or other
WorldwumberP.com	Length: inch/m	Manufacturer:
stribution amplifier		Model number:
Model number: Switcher	Merchant	com (800) 281-886
Model number: STED S	OURCE FOR PRO	JECTOR LAMPS AND ACCESSORIES
Adapter		
Model number:		

8 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 after the product's warranty has expired.

Term of warranty

 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.

3) Problems or damage caused by improper usage or unwarrant- Address:
able 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.
- 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.
- 8) 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 of 100 to 120V and 200 to 240V 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 December 1, 2009.

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-display.com/global/index.html

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)

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 Solutions of America, Inc.

Address: 500 Park Boulevard, Suite 1100 Itasca, Illinois

60143, U.S.A. +1 800 836 0655

Telephone: +1 800 836 0655 Fax Line: +1 800 356 2415 Email Address: vsd.tech-support@

Email Address: vsd.tech-support@necdisplay.com

WEB Address: http://www.necdisplay.com/

(Regions Covered) U.S.A. *, Canada*

In Oceania

AWA Limited.

Address: 151 Arthur Street

Homebush West NSW 2140 Australia

Customer Call Centre

Telephone: 0297647777 Fax Line: 1300772688

Email Address: commercialsupport@awa.com.au

For Travel Care service, while customer is in Australia, the customer will contact AWA on 1300366144, select Option 4. If you want to book warranty service by email customer goes to: commercialsupport@awa.com.au.

(Regions Covered)

Australia

800) 281-8860

Visual Group Ltd.
Address:
28 Walls Road Penrose Auckland New Zealand
Telephone:
095250740

Fax Line: 095809607

Email Address: sarah.reed@visualgroup.co.nz

(Regions Covered) New Zealand

NOTE: In countries designated with an asterisk(*), replacement product rental service are offered.

In Asia and Middle East

NEC Display Solutions, Ltd.

Address: 686-1, Nishioi, Oi-Machi, Ashigarakami-Gun,

Kanagawa 258-0017, Japan Telephone: +6 03 2178 3600 (ISDN)

Telephone: +81 465 85 2369

Fax Line: +81 465 85 2393

Email Address: support_pjweb@gw.necds.nec.co.jp
WEB Address: http://www.nec-display.com/global/index.html

(Regions Covered)

Japan*

NEC Solutions (China) Co.,Ltd.

Address: Rm 1903, Shining Building, 35 Xueyuan Rd,

Haidian District Beijing 100083, P.R.C.

Telephone: +8610 82317788 Fax Line: +8610 82331722 Email Address: Lily@necsl.com.cn

Johnson liu@necsl.com.cn

WEB Address: http://www.necsl.com.cn

(Regions Covered)

China

NEC Hong Kong Ltd.

Address: 25/F., The Metropolis Tower, 10 Metropolis

Drive, Hunghom, Kowloon, Hong Kong

Telephone: +852 2369 0335 Fax Line: +852 2795 6618

Email Address: nechksc@nechk.nec.com.hk

esmond_au@nechk.nec.com.hk

WEB Address: http://www.nec.com.hk

(Regions Covered) Hong Kong

NEC Taiwan Ltd.

Address: 7F, No.167, SEC.2, Nan King East Road,

Taipei, Taiwan, R.O.C.

Telephone: +886 2 8500 1700
Fax Line: +886 2 8500 1420
Email Address: web Address: http://www.nec.com.tw

(Regions Covered)

Taiwan

NEC Asia Pte.Ltd.

Address: 401 Commonwealth Drive, #07-02, Haw Par

Technocentre, Singapore 149598

Telephone: +65 6 273 8333
Fax Line: +65 6 274 2226
Email Address: ncare@nec.com.sg
WEB Address: http://www.nec.com.sg/

(Regions Covered) Singapore NEC Corporation of Malaysia Sdn. Bhd.

Address: 33rd Floor, Menara TA One, 22, Jalan P. Ram-

lee, 50250 Kuala Lumpur, Malaysia

Telephone: +6 03 2178 3600 (ISDN)
Fax Line: +6 03 2178 3789
Email Address: necare@nsm.nec.co.ip

WEB Address: http://www.necmalaysia.com.my/home.html

(Regions Covered)

Malaysia

Hyosung ITX Co., Ltd.

Address: 1st Fl., Ire B/D. #2, 4Ga, Yangpyeng-Dong,

Youngdeungpo-Gu, Seoul, Korea 150-967

Telephone: +82 2 2163 4193 Fax Line: +82 2 2163 4196

Email Address: moneybear@hyosung.com

(Regions Covered) South Korea

Lenso Communication Co., Ltd.

Address: 292 Lenso House 4, 1st Floor, Srinakarin

Road, Huamark, Bangkapi, Bangkok 10240,

Thailand

Telephone: +66 2 375 2425
Fax Line: +66 2 375 2434
Email Address: pattara@lenso.com
WEB Address: http://www.lensocom.com/

(Regions Covered)

Thailand

e-flex L.L.C.

Address: Al Suwaidi Road, Rashidiya 43500 Dubai

United Arab Emirates
Telephone: +971 4 2861533
Fax Line: +971 4 2861544
Email Address: sc@eflex.ae

(Regions Covered) United Arab Emirates

Samir Photographic Supplies

Address: P.O.Box 599, Jeddah 21421, Saudi Arabia

Telephone: +966 2 6828219 Fax Line: +966 2 6830820

Email Address: Mohamed.asif@samirgroup.com

(Regions Covered) Saudi Arabia

NOTE: In countries designated with an asterisk(*), replacement product rental

service are offered.



SCOUNT-Merchant.com (800) 281-8860 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Date: / / ,	P-1/ ,
O: NEC or NEC's Authorized S M:	Service Station:
(Company & Name v	with signature)
our following conditions, and als	Care Service Program based on attached registration and qualification sheet and agree with so the Service fee will be charged to my credit card account, if I don't return the Loan units confirm following information is correct. Regards.
Country, product purchased :	
Jser's Company Name :	
Jser's Company Address : Phone No., Fax No. :	
Jser's Name :	
Jser's Address :	
Phone No., Fax No. :	
ocal Contact office :	
ocal Contact office Address :	
Phone No., Fax No. :	
Jser's Model Name :	
Pate of Purchase :	
Serial No. on cabinet :	
Problem of units per User :	
Formsored by DM	(1) Repair and Return (2) Loan unit
Requested period of Loan unit:	(1) Credit Card R PRO (2) Travelers Cheque PS A(3) Cash CCESSORIES
rayment method : STED SO	D(1) Gredit Card M P NO (2) travelers Cheque 1 P S P (3) Cash Ca E 3 3 Chi E S
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

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.

2) Repair and Return with Loan: (This service is limited to some Ser-

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

The customer can borrow a unit for \$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:

- 1) Accidents, transportation, neglect, misuse, abuse, water, dust, smoke or default of or by the Customer its employees or agents or any third party;
- 2) Failure or fluctuation of electrical power, electrical circuitry, air conditioning, humidity control or other environmental conditions such as use it in smoking area;
- 3) 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);
- 4) 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.

ges for Warranty Exclusions and Out of Warranty Case:

se faulty unit is under warranty exclusions case or under Out of varranty period, NEC Authorized Service Station will Inform estimant.com (800) 281-8860

tion 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 JECTOR LAMPS AND ACCESSORIES 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 \$200.00 USD for 12 calendar davs.

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.

NEC





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Lamp Research - The trusted 3rd party lamp research company: http://www.lampresearch.com

Discount-Merchant.com – The worlds largest lamp distributor: http://www.discount-merchant.com

