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Portable Projector

NP215/NP210/NP115/NP110

User's Manual



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

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- (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 NP215/NP210/NP115/NP110 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 States.

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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.



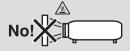
Installation

- 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.

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Do not cover the lens with the lens cap or equivalent while the projector is on. Doing so can lead to melting of the cap due to the heat emitted from the light output.

Do not place any objects, which are easily affected by heat, in front of the projector lens. Doing so could lead
to the object melting from the heat that is 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.









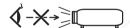
Fire and Shock Precautions



- 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 front side as it can become heated while the projector is turned on and immediately after the projector is turned off.



- Prevent foreign objects such as paper clips and bits of paper from falling into your projector. Do not attempt to retrieve any objects that might fall into your projector. Do not insert any metal objects such as a wire or screwdriver into your projector. If something should fall into your projector, disconnect it immediately and have the object removed by a qualified service personnel.
- Do not place any objects on top of the projector.
- Do not touch the power plug during a thunderstorm. Doing so can cause electrical shock or fire.
- The projector is designed to operate on a power supply of 100-240V AC 50/60 Hz. Ensure that your power supply fits this requirement before attempting to use your projector.
- Do not look into the lens while the projector is on. Serious damage to your eyes could result.



- Keep any items such as magnifying glass out of the light path of the projector. The light being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause unpredictable outcome such as fire or injury to the eyes.
- Do not 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.
 - Handle the power cable carefully. A damaged or frayed power cable can cause electric shock or fire.
 - The notice and power cables than the supplied one.
 - Do not bend or tug the power cable excessively.
 - Do not place the power cable under the projector, or any heavy object.
 - Do not cover the power cable with other soft materials such as rugs
 - Do not heat the power cable.
 - Do not handle the power plug with wet hands.
- Turn off the projector, unplug the power cable and have the projector serviced by a qualified service personnel under the following conditions:
 - When the power cable or plug is damaged or frayed.
 - If liquid has been spilled into the projector, or if it has been exposed to rain or water.

- If the projector does not operate normally when you follow the instructions described in this user's manual.
- If the projector has been dropped or the cabinet has been damaged.
- If the projector exhibits a distinct change in performance, indicating a need for service.
- Disconnect the power cable and any other cables before carrying the projector.
- Turn off the projector and unplug the power cable before cleaning the cabinet or replacing the lamp.
- Turn off the projector and unplug the power cable if the projector is not to be used for an extended period of time.
- When using a LAN cable (NP215 only):

For safety, do not connect to the connector for peripheral device wiring that might have excessive voltage.

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] → [OPTIONS(1)] → [FAN MODE] → [HIGH].)
- Do not try to touch the ventilation outlet on the left front (when seen from the front) as it can become heated while the projector is turned on and immediately after the projector is turned off.
- Do not turn off the AC power for 60 seconds after the lamp is turned on and while the POWER indicator is blinking green.

Doing so could cause premature lamp failure.



Remote Control Precautions

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

Lamp Replacement

To replace the lamp, follow all instructions provided on page 65.

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.



A CAUTION:

- DO NOT TOUCH THE LAMP immediately after it has been used. It will be extremely hot. Turn the projector off 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 5500 feet/1700 meters or higher.
- Using the projector at altitudes approximately 5500 feet/1700 meters or higher without setting to [HIGH ALTITUDE] can cause the projector to overheat and the protector could shut down. If this happens, wait a couple minutes and turn on the projector.
- Using the projector at altitudes less than approximately 5500 feet/1700 meters and setting to [HIGH ALTITUDE] can cause the lamp to overcool, causing the image to flicker. Switch [FAN MODE] to [AUTO].
- Using the projector at altitudes approximately 5500 feet/1700 meters or higher can shorten the life of optical components such as the lamp.

About Copyright of original projected pictures:

Please note that using this projector for the purpose of commercial gain or the attraction of public attention in a venue such as a coffee shop or hotel and employing compression or expansion of the screen image with 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.



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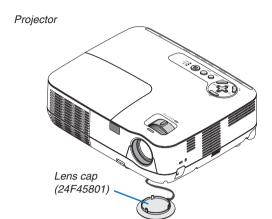
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1. Introduction

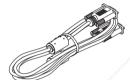
What's in the Box?

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: 7N080236) (EU: 7N080022)



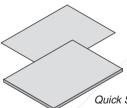
VGA signal cable (7N520073)



Remote control (7N900881)



Batteries (AAAx2)



Quick Setup Guide (7N8P9791) Important Infomation (For North America: 7N8P9801) (For Other countries than North America: 7N8P9801 and 7N8P9811)



NEC Projector CD-ROM User's manual (7N951371)

For North America only

Registration card Limited warranty

For customers in Europe:

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

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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 DLPTM 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:

Quick start & Quick Power Off

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

The projector can be put away immediately after the projector is powered down. No cool down period is required after the projector is turned off from the remote control or cabinet control panel.

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.

Less than 1W in standby condition with energy saving technology

Selecting [POWER-SAVING] for [STANDBY MODE] from the menu can put the projector in power-saving mode that consumes only 0.49W (100-130V AC)/0.71W (200-240V AC).

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 of the on-screen menu.

7W built-in speaker for an integrated audio solution

Powerful 7 watt speaker provides volume need for large rooms.

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.

Preventing unauthorized use of the projector

Enhanced smart security settings for keyword protection, cabinet control panel lock, security slot, chain opening to help prevent unauthorized access, adjustments and theft deterrence.

The supplied remote control allows you to assign a CONTROL ID to the projector CCESSORIES Multiple projectors can be operated separately and independently with the same single remote control by assigning an ID number to each projector.

Integrated RJ-45 connector for wired networking capacity (NP215 only)

An RJ-45 connector is equipped as standard feature.

About this user's manual

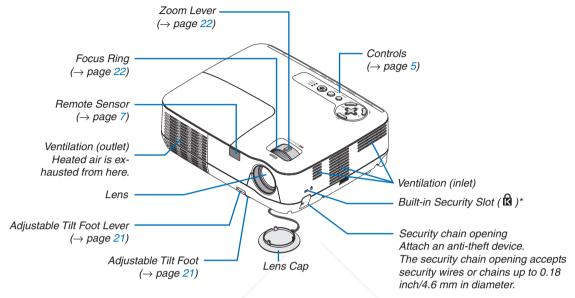
The fastest way to get started is to take your time and do everything right the first time. Take a few minutes now to review the user's manual. This may save you time later on. At the beginning of each section of the manual you'll find an overview. If the section doesn't apply, you can skip it.

In this user's manual the drawings of the projector show an example of NP215.



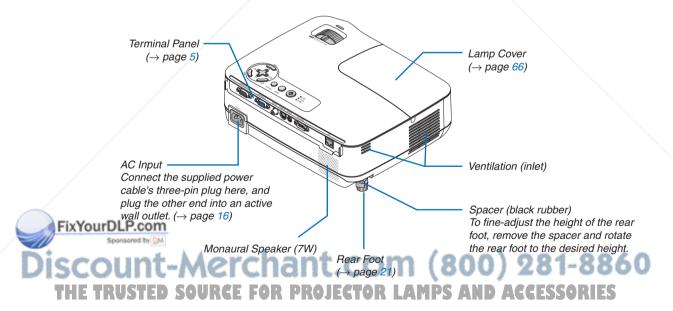
Part Names of the Projector

Front/Top

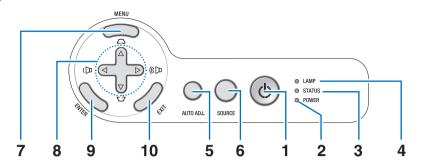


* This security slot supports the MicroSaver ® Security System.

Rear



Top Features

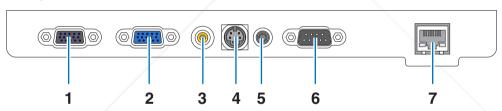


- 1. POWER Button (ON / STAND BY) ($^{(\!\!\!\!)}$) (\rightarrow page 17, 26)
- **2. POWER Indicator** (→ page 16, 17, 26, 68)
- **3. STATUS Indicator** (→ page 68)
- **4. LAMP Indicator** (→ page 65, 68)
- 5. AUTO ADJ. Button (\rightarrow page 25)

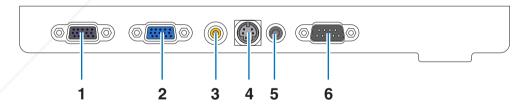
- **6. SOURCE Button** (→ page 19)
- 7. **MENU Button** (\rightarrow page 39)
- 8. $\triangle \nabla \triangleleft \triangleright$ / Keystone $\triangle \nabla$ / Volume $\triangleleft \triangleright$ Buttons $(\rightarrow page 23, 25, 28)$
- 9. ENTER Button
- 10. EXIT Button

Terminal Panel Features





NP210/NP115/NP110



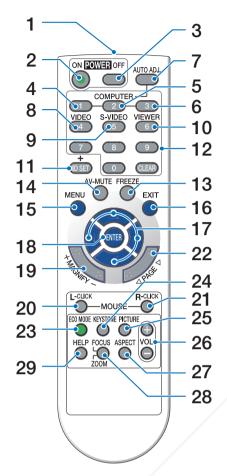
- COMPUTER OUT Connector (Mini D-Sub 15 Pin) EigggurDLP.com
- COMPUTER IN/ Component Input Connector (Mini D-Sub 15 Pin) (→ page 11, 12, 13)
- 4. S-VIDEO IN Connector (Mini DIN 4 Pin) $(\rightarrow page 14)$

- 5. AUDIO IN Mini Jack (Stereo Mini) $(\rightarrow page 11, 12, 13, 14)$
- PC CONTROL Port (D-Sub 9 Pin) (→ page 76) Use this port to connect a PC or control system.

3. VIDEO IN Connector (RCA) (→ page 14)? PROJECT 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 76.

7. LAN Port (RJ-45) (NP215 only) (→ page 15)

Part Names of the Remote Control



1. Infrared Transmitter $(\rightarrow page 7)$

2. POWER ON Button

 $(\rightarrow page 17)$

3. POWER OFF Button

 $(\rightarrow page 26)$

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

 $(\rightarrow$ page 19)

COMPUTER 2/3 button is not available on this series

of projectors)

7. AUTO ADJ. Button

8. VIDEO Button

 $(\rightarrow page 19)$

9. S-VIDEO Button

 $(\rightarrow page 19)$

10. VIEWER Button

(not available on this series of projectors)

11. ID SET Button

 $(\rightarrow page 56)$

12. Numeric Keypad Button/CLEAR Button

 $(\rightarrow page 56)$

13. FREEZE Button

 $(\rightarrow page 28)$

14. AV-MUTE Button

 $(\rightarrow page 28)$

15. MENU Button

 $(\rightarrow page 39)$

16. EXIT Button (\rightarrow page 39)

17. $\triangle \nabla \triangleleft \triangleright$ Button (\rightarrow page 39)

18. ENTER Button (→ page 39)

19. MAGNIFY (+)(-) Button

 $(\rightarrow page 28)$

20. MOUSE L-CLICK Button*

 $(\rightarrow page 34, 35)$

21. MOUSE R-CLICK Button*

 $(\rightarrow page 34, 35)$

22. PAGE ⊲/⊳ Button*

 $(\rightarrow page 34, 35)$

23. ECO MODE Button (\rightarrow page 29)

24. KEYSTONE Button

 $(\rightarrow page 24)$

25. PICTURE Button

 $(\rightarrow page 44, 45)$

26. VOL. (+)(-) Button

 $(\rightarrow page 25)$

0) 281-8860 27. ASPECT Button

ECTURPAGE 48)PS AND ACCESSORIES 28. FOCUS/ZOOM Button

(not available on this series of projectors)

29. HELP Button

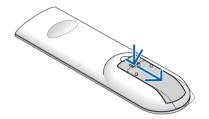
 $(\rightarrow page 61)$

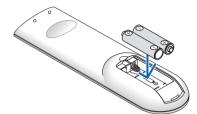
^{*} The PAGE

* 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.



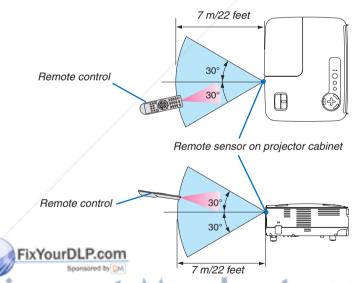




Remote Control Precautions

- 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.

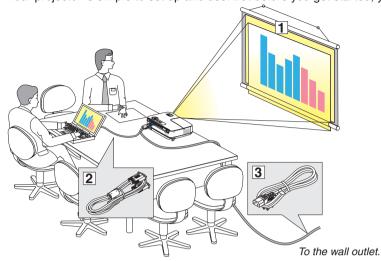
Operating Range for Wireless Remote Control



- 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.
- ② Connect your computer or video equipment to the projector. See pages 11, 12, 13, 14, 15.
- ③ Connect the supplied power cable. See page 16.

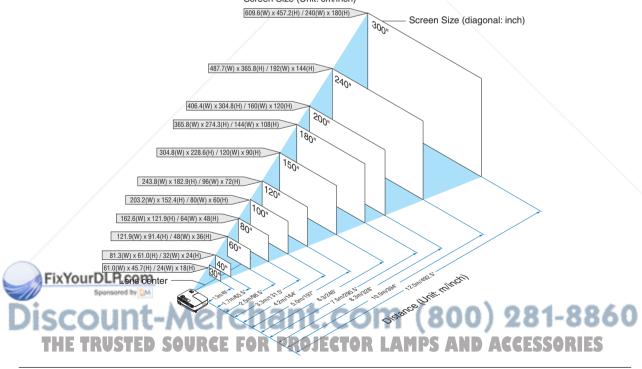
NOTE: Ensure that the power cable and any other cables are disconnected before moving the projector. When moving the projector or when it is not in use, cover the lens with the lens cap.

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 30" (0.76 m) measured diagonally when the projector is roughly 49 inches (1.3 m) from the wall or screen. The largest the image can be is 300" (7.6 m) when the projector is about 493 inches (12.5 m) from the wall or screen. Use the chart below as a rough guide.

Screen Size (Unit: cm/inch)



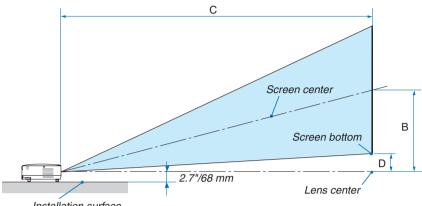
NOTE.

- 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 +/-5%
- · For more details on throw distance, see next page.

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



Instal	lation	surface

Screen Size					С						D/M	IDE)	a						
Diag	Diagonal		Width		Height		В		R		de	-	Te	le	D(W	IDE)	Wide	-	Tele
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	١	inch	mm	inch	mm	degree	ı	degree		
30	762	24	610	18	457	12	297	46	1180	-	52	1320	3	69	14.0	-	12.7		
40	1016	32	813	24	610	16	396	62	1573	-	69	1760	4	91	14.0	-	12.7		
60	1524	48	1219	36	914	23	594	93	2360	-	104	2640	5	137	14.0	ı	12.7		
70	1778	56	1422	42	1067	27	693	108	2753	-	121	3080	6	160	14.0	ı	12.7		
80	2032	64	1626	48	1219	31	792	124	3147	-	139	3520	7	183	14.0	ı	12.7		
90	2286	72	1829	54	1372	35	891	139	3540	-	156	3960	8	206	14.0	-	12.7		
100	2540	80	2032	60	1524	39	990	155	3933	-	173	4400	9	228	14.0	1	12.7		
120	3048	96	2438	72	1829	47	1188	186	4720	-	208	5280	11	274	14.0	-	12.7		
150	3810	120	3048	90	2286	58	1486	232	5900	-	260	6600	13	343	14.0	ı	12.7		
180	4572	144	3658	108	2743	70	1783	279	7080	-	312	7920	16	411	14.0	-	12.7		
200	5080	160	4064	120	3048	78	1981	310	7867	-	346	8800	18	457	14.0	ı	12.7		
240	6096	192	4877	144	3658	94	2377	372	9440	-	416	10560	22	548	14.0	y	12.7		
270	6858	216	5486	162	4115	105	2674	418	10620	-	468	11880	24	617	14.0	4	12.7		
300	7620	240	6096	180	4572	117	2971	465	11800	-	520	13200	27	685	14.0	-	12.7		

- 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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2. Installation and Connections



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] is set automatically to [ON] at 95°F to 104°F/35°C to 40°C. Note that [ECO] mode will be set to [ON] 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 $\triangle \nabla \triangleleft \triangleright$ buttons on your projector cabinet or your remote control to correct the orientation. (\rightarrow page 55)



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2 Making Connections

Connecting Your PC or Macintosh Computer

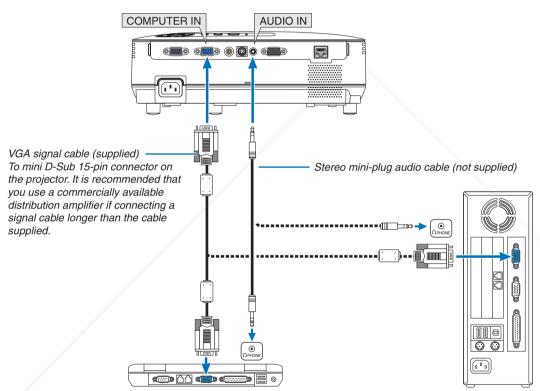
NOTE: When using with a notebook PC, be sure to connect the projector and notebook PC while the projector is in standby mode and before turning on the power to the notebook PC.

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 FixYourDLP.ctype) or Macintosh (Notebook type)

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

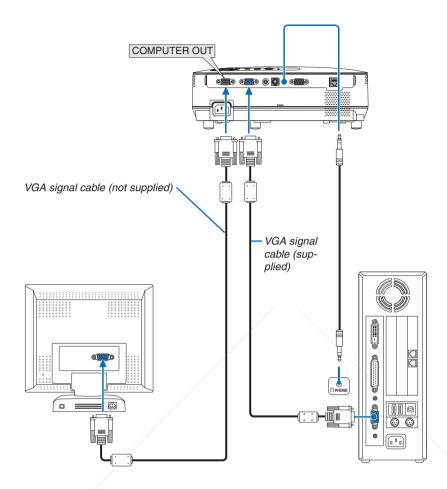
NOTE: An image may not be displayed correctly when a Video or S-Video source is played back via a commercially available scan converter.

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 an External Monitor

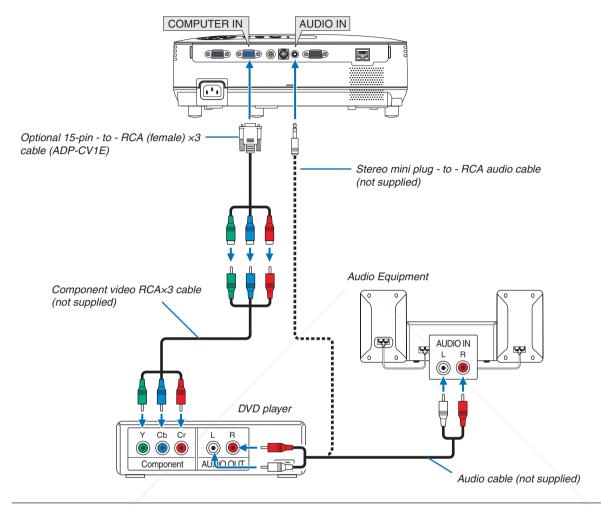


You can connect a separate, external monitor to your projector to simultaneously view on a monitor the computer analog image you're projecting.

NOTE: Daisy chain connection is not possible.



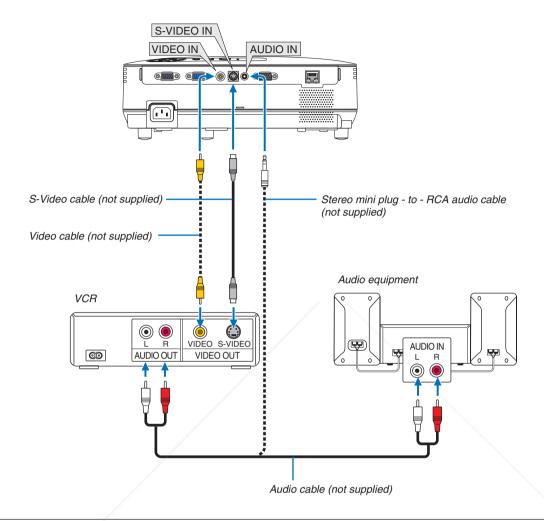
Connecting Your DVD Player with Component Output



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



Connecting Your VCR



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.

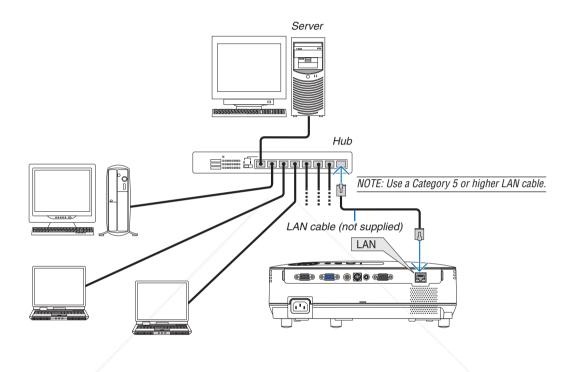


Connecting to a Network (NP215 only)

The projector comes standard with a LAN port (RJ-45) which provides a LAN connection using a LAN cable. Using a LAN cable allows you to specify the Network Settings and the Alert Mail Settings for the projector over a LAN. To use a LAN connection, you are required to assign an IP address to the projector on the [PROJECTOR NETWORK SETTINGS] screen of the web browser on your computer. For setting, see page 36, 37, 38.

Example of LAN connection

Example of wired LAN connection





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 STATUS and the STATUS indicator will light green when [NORMAL] is selected for [STANDBY MODE]. To wall outlet Make sure that the prongs are fully inserted into both the power plug and the wall outlet.



A CAUTION:

Do not try to touch the ventilation outlet on the front side as it can become heated while the projector is turned on and immediately after the projector is turned off.

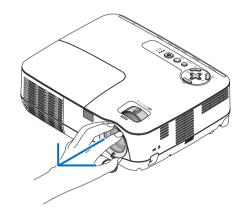


3. Projecting an Image (Basic Operation)

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

1 Turning on the Projector

- 1. Remove the lens cap
 - Do not remove the lens cap by pulling on the string. Doing so can cause mechanical damage to the part around the lens.



2. Press the (b) (POWER) 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.

NOTE: When the projector is turned on, it may take some time before the lamp light becomes bright.

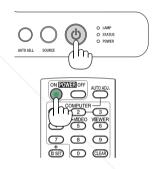
TIP:

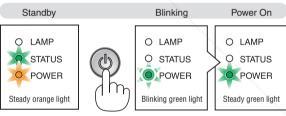
- When the STATUS indicator lights orange, it means that the [CONTROL PANEL LOCK] is turned on. (→ page 55)
- When the message "Projector is locked! Enter your password." is displayed, it means that the [SECURITY] is turned on. (→ page 31)

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

NOTE: When no signal is available, the NEC logo (default), blue, or black screen will be displayed. After a lapse of 45 seconds from when the projector displays a blue, black or logo screen, [ECO MODE] will always switch to [ON]. This is done only when [ECO MODE] is set

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(→ page <u>68</u>)

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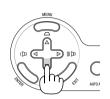
Note on Startup screen (Menu Language Select screen)

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

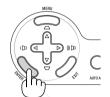
To select a menu language, follow these steps:

1. Use the \triangle , ∇ , \triangleleft or \triangleright 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.

 $(\rightarrow [LANGUAGE] \text{ on page 41 and 52})$

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

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



CAUTION:

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

When the [ECO MODE] is set to [ON], the LAMP indicator will light green.

If one of the following things happens, the projector will not turn on.

- If the internal temperature of the projector is too high, the projector detects abnormal high temperature. In this andition the projector will not turn on to protect the internal system. If this happens, wait for the projector's internal mponents 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 Source for Projector Lamps and Accessories

2 Selecting a Source

Selecting the computer or video source

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

Selecting from Source List

Press and quickly release the SOURCE button on the projector cabinet to display the Source list. Each time the SOURCE button is pressed, the input source will change as follows: "COMPUTER", "VIDEO", "S-VIDEO". To display the selected source, press the ENTER button or allow 2 seconds to elapse.

O LAMP O STATUS O POMER



Detecting the Signal Automatically

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

 $COMPUTER \rightarrow VIDEO \rightarrow S-VIDEO \rightarrow COMPUTER \rightarrow ...$

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

Using the Remote Control

Press any one of the COMPUTER1, VIDEO, and S-VIDEO buttons.



Selecting Default Source

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

1. Press the MENU button.

Restart the projector.

- The menu will be displayed.
- 2. Press the \triangleright button twice to select [SETUP] and press the \triangledown button or the ENTER button to select [GENERAL].
- 3. Press the > button four times to select [OPTIONS(2)].
- 4. Press the ∇ button six times to select [DEFAULT SOURCE SE-LECT] and press the ENTER button.

The [DEFAULT SOURCE SELECT] screen will be displayed. (→ page 60)

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

resether EXIT button a few times to close the menu.

The source you selected in step 5 will be projected.





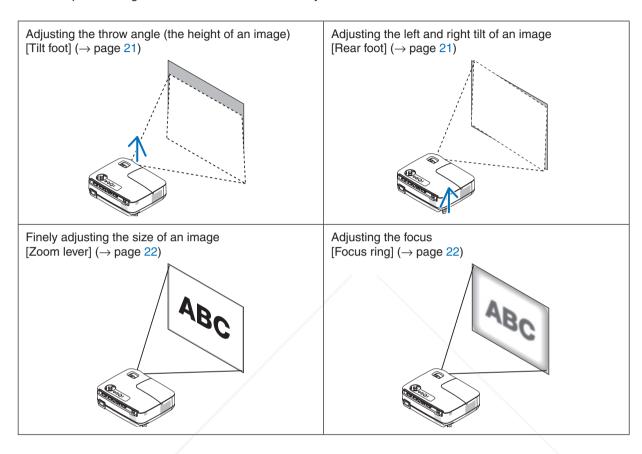
(800) 281-8860

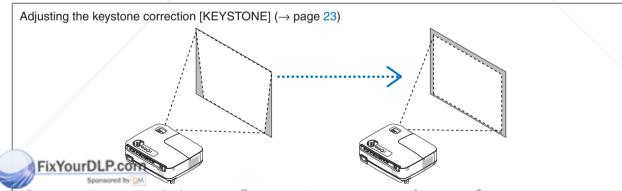
TIP: When the projector is in Standby mode, applying a computer signal from a MPS AND AGGESSORIES computer connected to the COMPUTER IN input will power on the projector and simultaneously project the computer's image.

([AUTO POWER ON(COMP.)] \rightarrow page 60)

Adjusting the Picture Size and Position

Use the adjustable tilt foot, the zoom lever or the focus ring to adjust the picture size and position. *In this chapter drawings and cables are omitted for clarity.*





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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 after it is turned off.

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

The tilt foot can be extended up to 1.6 inch/40 mm.

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

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



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.

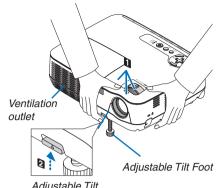
Adjusting the left and right tilt of an image [Rear foot]

- 1. Remove the spacer (black rubber) from the rear foot.
 - Keep the spacer for future use.

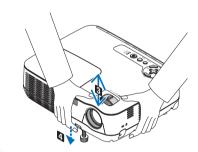
2. Rotate the rear foot.

The rear foot can be extended up to 0.4 inch/10 mm. Rotating the rear foot allows the projector to be placed horizontally.

NOTE: After using the projector, attach the spacer to the rear foot.



Adjustable Tilt Foot Lever

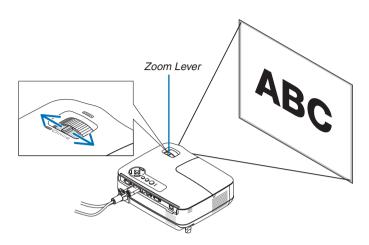




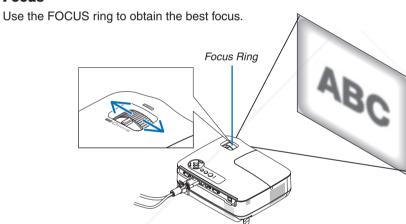


Zoom

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



Focus





4 Correcting Keystone Distortion

Correcting Keystone Distortion

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



NOTE:

- The Keystone correction can cause an image to be slightly blurred because the correction is made electronically.
- The Keystone correction range can be made narrower, depending on a signal or its aspect ratio selection.

Adjusting with buttons on the cabinet

1. Press the $\triangle(\triangle)$ or $\nabla(\bigcirc)$ button with no menus displayed.

The keystone bar will be displayed.





2. Use the \triangle or ∇ to correct the keystone distortion.

Adjust so that the right and left sides are parallel.

3. Press the ENTER button.

The keystone bar will be closed.

NOTE: When the menu is displayed, the above operation is not available. When the menu is displayed, press the MENU button to close the menu and start the Keystone correction.

From the menu, select [SETUP] \rightarrow [GENERAL] \rightarrow [KEYSTONE]. The changes can be saved with [KEYSTONE SAVE]. (\rightarrow page 51)



Adjusting with the remote control

1. Press the KEYSTONE button.

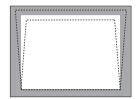
The Keystone bar will be displayed.





2. Use the \triangleleft or \triangleright button to correct the keystone distortion.

Adjust so that the right and left sides are parallel.



3. Press the ENTER button.





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]. $(\rightarrow page 51)$



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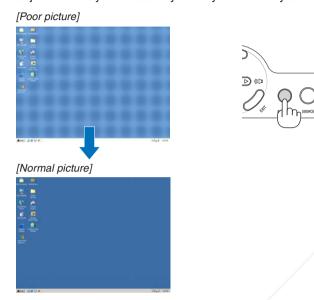
Optimizing Computer Signal Automatically

Adjusting the Image Using Auto Adjust

Optimizing a computer image automatically.

Press the AUTO ADJ. button to optimize a computer image automatically.

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

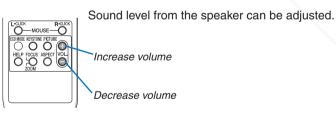


NOTE:

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

- The Auto Adjust function will work for computer (RGB) signal only.
- If the Auto Adjust operation cannot optimize the computer signal, try to adjust [HORIZONTAL], [VERTICAL], [CLOCK], and [PHASE] manually. (→ page 47, 48)

6 Turning Up or Down Volume







TIP: When no menus appear, the \triangleleft and \triangleright buttons on the projector cabinet work as a volume control.

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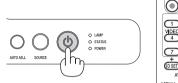
Turning off the Projector

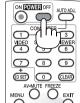
To turn off the projector:

1. First, press the (b) (POWER) button on the projector cabinet or the POWER OFF button on the remote control.

The [POWER OFF / ARE YOU SURE? /CARBON SAV-INGS- SESSION 0.000[g-CO2]] message will appear.



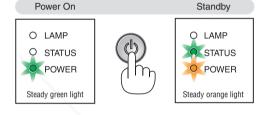




2. Secondly, press the ENTER button or press the (b) (POWER) or the POWER OFF button again.

The lamp will turn off and 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].

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



3. Finally, unplug the power cable.

The POWER indicator will go out.

NOTE: Do not unplug the power cable within 10 seconds of making adjustment or setting changes and closing the menu.

Doing so can cause loss of adjustments and settings.



CAUTION:

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



CAUTION:

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

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8 After Use

Preparation: Make sure that the projector is turned off.

- 1. Disconnect any other cables.
- 2. Retract adjustable tilt foot if extended.
- 3. Cover the lens with the lens cap.



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

2 Freezing 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.



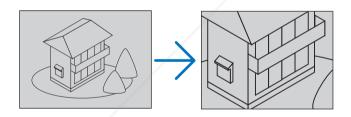
You can enlarge the picture up to four times.

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 $\triangle, \nabla, \triangleleft$ or \triangleright button.



2. Press the $\triangle \nabla \triangleleft \triangleright$ button.

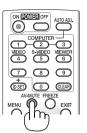
The area of the magnified image will be moved

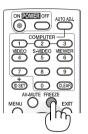
3. Press the MAGNIFY (-) button.

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

The image will be enlarged or reduced at the center of the screen. Displaying the menu will cancel the current magnification. om (800) 281-8860

PROJECTOR LAMPS AND ACCESSORIES







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 (approx. 90% Brightness.)	Steady Green light	LAMP O 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 \triangle 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 is always in [OFF] for 60 seconds after the lamp is turned on and while the POWER indicator is blinking green. The lamp condition will not be affected even when [ECO MODE] is changed.
- After a lapse of 45 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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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 as [CARBON METER].

There are two messages: [TOTAL CARBON SAVINGS] and [CARBON SAVINGS-SESSION]. The [TOTAL CARBON SAVINGS] message shows the total amount of CO2 emission reduction from the time of shipment up to now. You can check the information on [USAGE TIME] from [INFO.] of the menu. (→ page 61)



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".
- 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 $\triangle \nabla \triangleleft \triangleright$ 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 $\triangle \nabla \triangleleft \triangleright$ 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:

1. 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.



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.



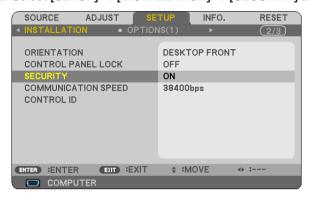
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To disable the SECURITY function:

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.



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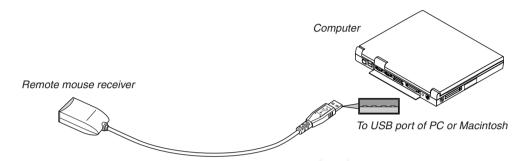
Using the Optional Remote Mouse Receiver (NP01MR)

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

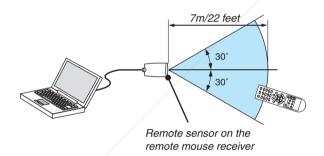
Connecting the remote mouse receiver to your computer

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

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



When operating a computer via the remote mouse receiver



When connecting using the USB terminal

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

* NOTE: In SP1 or older version of Windows XP, if the mouse cursor will not move correctly, do the following: Clear the Enhance pointer precision check box underneath the mouse speed slider in the Mouse Properties dialog box [Pointer Options tab].

NOTE: The PAGE \lhd and \triangleright buttons do not work with PowerPoint for Macintosh.

E: Wait at least 5 seconds after disconnecting the mouse receiver before reconnecting it and vice versa. The computer may not usentify the mouse receiver if it is repeatedly connected and disconnected in rapid intervals.

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Operating your computer's mouse from the remote control

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

PAGE </i>
| PAGE
| PAGE

Point on your computer.

 $\triangle \nabla \triangleleft \triangleright$ 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 $\triangle \nabla \lhd \triangleright$ 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.



Network Setting by Using an HTTP Browser (NP215 only)

Overview

Connecting the projector to a network allows the Alert Mail setting (\rightarrow page 38) and the projector control from a computer via the network.

To perform the projector control from a web browser, you must have an exclusive application installed on your computer.

The IP address and subnet mask of the projector can be set on the Network Setting screen of the web browser by using an HTTP server function. Please be sure to use "Microsoft Internet Explorer 6.0" or a higher version for the web browser. (This device uses "JavaScript" and "Cookies" and the browser should be set to accept these functions. The setting method will vary depending on the version of browser. Please refer to the help files and the other information provided in your software.)

Access is gained to the HTTP server function by starting the Web browser on the computer via the network connected to the projector and enter the following URL.

- Network Setting
 - http://<the projector's IP address>/index.html
- Alert Mail Setting
 - http://<the projector's IP address>/lanconfig.html

TIP:

- The default IP address is "192.168.0.10".
- The exclusive application can be downloaded from our website.

NOTE:

- If the PROJECTOR NETWORK SETTINGS screen does not appear in the web browser, press the Ctrl+F5 keys to refresh your web browser (or clear the cache).
- The display's or button's response can be slowed down or operation may not be accepted depending the settings of your network.
 Should this happen, consult your network administrator.

The projector may not respond if its buttons are repeatedly pressed in rapid intervals. Should this happen, wait a moment and repeat. If you still can't get any response, turn off and back on the projector.

Preparation Before Use

Connect the projector to a commercially available LAN cable before engaging in browser operations. (\rightarrow page 15) Operation with a browser that uses a proxy server may not be possible depending on the type of proxy server and the setting method. Although the type of proxy server will be a factor, it is possible that items that have actually been set will not be displayed depending on the effectiveness of the cache, and the contents set from the browser may not be reflected in operation. It is recommended that a proxy server not be used unless it is unavoidable.

Handling of the Address for Operation via a Browser

Regarding the actual address that is entered for the address or entered to the URL column when operation of the projector is via a browser, the host name can be used as it is when the host name corresponding to the IP address of the projector has been registered to the domain name server by a network administrator, or the host name corresponding to the IP address of the projector has been set in the "HOSTS" file of the computer being used.

ample 1: When the host name of the projector has been set to "pj.nec.co.jp", access is gained to the network setting by specifying

http://pj.nec.co.jp/index.html

for the address or the entry column of the URL.

When the IP address of the projector is "192.168.73.1", access is gained to the mail alert settings by

THE Tispecifying Source For Projector Lamps and Accessories http://192.168.73.1/index.html

for the address or the entry column of the URL.

Network Settings

http://<the projector's IP address> /index.html

PROJECTOR NETWORK SETTINGS ITEM CURRENT VALUE NEW VALUE PHYSICAL ADDRESS MAC ADDRESS CANNOT BE MODIFIED 00-30-13-E8-A4-03 IP NETWORK DHCP DISABLE IP ADDRESS 192.168.0.10 0 SUBNET MASK 255.255.255.0 255 255 DEFAULT GATEWAY 192.168.0.1 0 DNS(PRIMARY) 0.0.0.0 DNS(SECONDARY) 0000 0 0 0 0 FIRMWARE VERSION: 1.00 / MODEL: NP215_Series UPDATE Copyright (C) NEC Display Solutions, Ltd. 2008-2009. All rights reserved.

DHCP...... Enabling this option automatically assigns an IP address to the projector from your DHCP server. Disabling this option allows you to register the IP address or subnet mask number obtained from vour network administrator. TIP: You can check the IP address in the menu when [ENABLE] is selected for [DHCP]. To do so, from the menu, select [INFO.] \rightarrow [WIRED LAN] when [CONTROL TERMINAL] is set to [LAN].

IP ADDRESS......Set your IP address of the network connected to the projector when [DISABLE] is selected for [DHCP].

> TIP: You can check your specified IP address in the menu To do so, from the menu, select [INFO.] \rightarrow [WIRED LAN].

SUBNET MASK Set your subnet mask number of the network connected to the projector when [DISABLE] is selected

for [DHCP].

DEFAULT GATEWAY...... Set your default gateway of the network connected to the projector when [DISABLE] is selected for

IDHCP1.

DNS (PRIMARY)......Set your primary DNS settings of the network connected to the projector.

DNS (SECONDARY)Set your secondary DNS settings of the network connected to the projector.

UPDATE Reflect your settings.

NOTE: Close the browser after clicking [UPDATE]. The projector will automatically update your settings.

TIP: Selecting [NETWORK SETTINGS] for [RESET] from the projector's menu allows you to return the following items to the factory

SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES [DHCP]: DISABLE STED

[IP ADDRESS]: 192.168.0.10 [SUBNET MASK]: 255.255.255.0 [DEFAULT GATEWAY]: 192.168.0.1

FixYourDLP.com

^{* [}DNS(PRIMARY)] and [DNS(SECONDARY)] will remain unchanged.

Alert Mail Setting

http://<the projector's IP address>/lanconfig.html

PROJECTOR NETWORK SETTINGS					
ITEM	VALUE				
	DOMAIN				
HOST NAME					
DOMAIN NAME					
	MAIL				
ALERT MAIL	○ ENABLE O DISABLE				
SENDER'S ADDRESS					
SMTP SERVER NAME					
RECIPIENT'S ADDRESS 1					
RECIPIENT'S ADDRESS 2					
RECIPIENT'S ADDRESS 3					
-	APPLY				
TEST MAIL STATUS					
Copyright (C) NEC Display Solutions, Ltd. 2008-2009. All rights reserved.					

This option notifies your computer of an error message via e-mail when using wired LAN. An error message notification will be sent when the projector lamp has reached the end of its usable life or an error occurs in the projector.

HOST NAME	Type in the hostname of the network connected to the projector. Up to 60 alphanumeric characters can be used. If the host name is unknown, type in a string of characters representing the projector. Example: Projector 1
DOMAIN NAME	Type in the domain name of the network connected to the projector. Up to 60 alphanumeric characters can be used. If the domain name is unknown, type in the right side of @ in the sender's address. Example: nec. com
ALERT MAIL	Checking [ENABLE] will turn on the Alert Mail feature. Checking [DISABLE] will turn off the Alert Mail feature.
SENDER'S ADDRESS	Type in the senders address. Up to 60 alphanumeric and symbols characters can be used.
SMTP SERVER NAME	Type in the SMTP server name to be connected to the projector. Up to 60 alphanumeric characters can be used.
RECIPIENT'S ADDRESS 1 to 3	Type in your recipient's address. Up to 60 alphanumeric and symbols characters can be used.
APPLY	Click this button to reflect the above settings
EXECUTE	Click this button to send a test mail to check if your settings are correct.
STATUS	A reply to a test mail will be displayed.

- If you execute a test, you may not receive an Alert mail. Should this happen, check if the network settings are correct.
- If you entered an incorrect address in a test, you may not receive an Alert mail. Should this happen, check if the Recipient 's Ad-

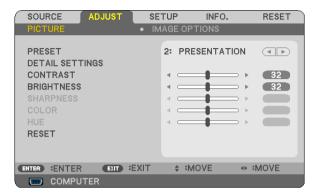
The Alert Mail settings will not be affected even when [RESET] is done from the menu. THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

5. Using On-Screen Menu

Using the Menus

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

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



NOTE: The commands such as ENTER, EXIT, $\triangle \nabla$, $\triangleleft \triangleright$ in the bottom show available buttons for your operation.

- 2. Press the $\triangleleft \triangleright$ 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 $\triangle \nabla \triangleleft \triangleright$ 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.

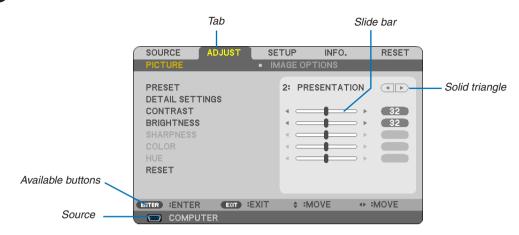
NOTE: When a menu or message is displayed, several lines of information may be lost, depending on the signal or settings.

ress/the MENU button to close the menu.

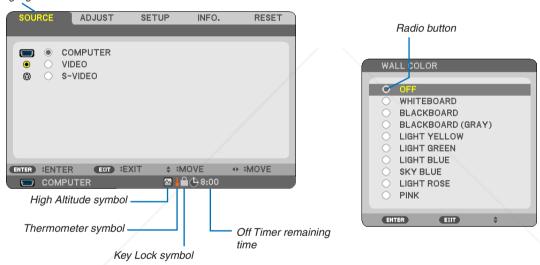
To return to the previous menu, press the EXIT button.

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2 Menu Elements



Highlight



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 COMPUTER				Default *	Options
SOURCE	VIDEO			*	
	S-VIDEO			*	
		PRESET		*	1–6
			REFERENCE	*	HIGH-BRIGHT, PRESENTATION, VIDEO, MOVIE, GRAPHIC, SRGB
		DETAIL	GAMMA CORRECTION	*	DYNAMIC, NATURAL, BLACK DETAIL
		SETTINGS	COLOR TEMPERATURE	*	5000, 6500, 7800, 8500, 9300, 10500
	PICTURE		BrilliantColor		OFF, MEDIUM, HIGH
	TIOTOTIE		DYNAMIC CONTRAST	*	OFF, ON
		CONTRAST			
ADJUST		BRIGHTNESS			
100001		SHARPNESS			
		COLOR			
		HUE			
		RESET		*	
		CLOCK PHASE		*	
				*	
	IMAGE	HORIZONTAL VERTICAL		*	
	OPTIONS	ASPECT RATIO		*	AUTO, 4:3, 16:9, 15:9, 16:10, WIDE ZOOM, NATIVE
	OFTIONS	POSITION		0	-16 to +16
		NOISE REDUCT	ION	OFF	OFF, LOW, MEDIUM, HIGH
		TELECINE	ION	OFF	OFF, 2-2/2-3 AUTO, 2-2 ON, 2-3 ON
		KEYSTONE		0	-40° to +40°
		KEYSTONE SAVE		OFF	OFF, ON
		WALL COLOR		OFF	OFF, WHITEBOARD, BLACKBOARD, BLACKBOARD (GRAY), LIGHT YELLOW, LIGHT GREEN, LIGHT BLUE, SKY BLUE, LIGHT ROSE, PINK
		ECO MODE		OFF	OFF, ON
		CLOSED CAPTION (for North			OFF, CAPTION1, CAPTION2, CAPTION3, CAPTION4
	GENERAL	America only)		OFF	TEXT1, TEXT2, TEXT3, TEXT4
				ENGLICIT	ENGLISH, DEUTSCH, FRANÇAIS, ITALIANO, ESPAÑOL, SVENSKA, 日本語 DANSK, PORTUGUÊS, ČEŠTINA, MAGYAR, POLSK
		LANGUAGE		ENGLISH	NEDERLANDS, SUOMI NORSK, TÜRKÇE, РУССКИЙ, عربي, Ελληνικά, 中文,
		001 00 051 503	-	001.00	국어
		COLOR SELECT		COLOR	COLOR, MONOCHROME
		SOURCE DISPL	AY	ON	OFF, ON
	MENU	ID DISPLAY		ON OFF	OFF, ON
		ECO MESSAGE DISPLAY TIME		AUTO 45 SEC	OFF, ON MANUAL, AUTO 5 SEC, AUTO 15 SEC, AUTO 45 SE
		BACKGROUND		LOGO	BLUE, BLACK, LOGO
		BACKGROUND		DESKTOP	DESKTOP FRONT, CEILING REAR, DESKTOP REAR
SETUP		ORIENTATION		FRONT	CEILING FRONT
/		CONTROL PANE	LLOCK	OFF	OFF, ON
		SECURITY		OFF	OFF, ON
	INSTALLATION	COMMUNICATION	N SPEED	38400bps	4800bps, 9600bps, 19200bps, 38400bps
		CONTROL ID	CONTROL ID NUMBER	1	1–254
			CONTROL ID	OFF	OFF, ON
FivVou	rDLP.com	FAN MODE		AUTO	AUTO, HIGH, HIGH ALTITUDE
FIXTOU	Sponsored by DM	COLOR	VIDEO	AUTO	AUTO, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60. SECAM
Disco	OPTIONS(1)	SYSTEM WXGA MODE	S-VIDEO	AUTO OFF	AUTÓ, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM OFF, ON
	DIICTER 4	BEEP	AD DDAI	FCT ON	OFF ON AND ACCESSABILES
THE	MASIER S	OFF TIMER	VN PRVI	OFF	OFF, 0:30, 1:00, 2:00, 4:00, 8:00, 12:00, 16:00
		STANDBY MODE		NORMAL	NORMAL, POWER-SAVING
		AUTO POWER C		OFF	OFF, ON
				OFF	OFF, ON
	OPTIONS(2)	AUTO POWER ON(COMP.) AUTO POWER OFF		OFF	OFF, 0:05, 0:10, 0:20, 0:30
		DEFAULT SOUR		LAST	LAST, AUTO, COMPUTER, VIDEO, S-VIDEO
		CONTROL TERM		PC CONTROL	
		only)			PC CONTROL, LAN

			· · · · · · · · · · · · · · · · · · ·
		LAMP LIFE REMAINING	
	USAGE TIME	LAMP HOURS USED	
		TOTAL CARBON SAVINGS	
		SOURCE NAME	
		HORIZONTAL FREQUENCY	
		VERTICAL FREQUENCY	
	COLIDOE	SIGNAL TYPE	
	SOURCE	VIDEO TYPE	
		SYNC TYPE	
		SYNC POLARITY	
INIEO		SCAN TYPE	
INFO.		PROJECTOR NAME	
	MANDED LAN	IP ADDRESS	
	WIRED LAN	SUBNET MASK	
	(NP215 only)	GATEWAY	
		MAC ADDRESS	
		PRODUCT	
		SERIAL NUMBER	
	VEDOLON	FIRMWARE	
	VERSION	DATA	
		CONTROL ID (when [CONTROL	
		ID] is set)	
	CURRENT SIGI		
DECET	ALL DATA		
RESET	NETWORK SET	TTINGS (NP215 only)	
	CLEAR LAMP H		

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



Menu Descriptions & Functions [SOURCE]



COMPUTER

Selects the computer connected to your COMPUTER IN 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

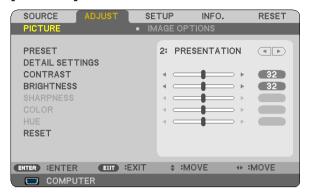
Selects what is connected to your S-VIDEO input-VCR or DVD player.

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.



Menu Descriptions & Functions [ADJUST]

[PICTURE]



[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]



oring Your Customized Settings [REFERENCE]

function allows you to store your customized settings in [PRESET 1] to [PRESET 6].

rist, select a base preset mode from [REFERENCE], then set [GAMMA CORRECTION], [COLOR TEMPERATURE], [Brilliant Color] and [DYNAMIC CONTRAST].

HIGH-BRIGHT...S.. Recommended for use in a brightly (it room). (OR LAM DS AND ACC ESSORIES

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.

Selecting Gamma Correction Mode [GAMMA CORRECTION]

Each mode is recommended for:

DYNAMIC Creates a high-contrast picture.

NATURAL Natural reproduction of the picture.

BLACK DETAIL...... Emphasizes detail in dark areas of the picture.

Adjusting Color Temperature [COLOR TEMPERATURE]

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

NOTE:

- When [PRESENTATION] or [HIGH-BRIGHT] is selected in [REFERENCE], this function is not available.
- When a color option other than [OFF] is selected for [WALL COLOR], this function is not available.

Adjusting Brightness of White Areas [BrilliantColor]

This function allows you to adjust the brightness of the white areas. As the picture becomes dim, it looks more natural.

NOTE:

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

Adjusting Brightness and Contrast [DYNAMIC CONTRAST]

Turning on [DYNAMIC CONTRAST] allows the contrast ratio to be adjusted to the proper level.

[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.

[COLOR]

Increases or decreases the color saturation level.

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

Input signal	CONTRAST	BRIGHTNESS	SHARPNESS	COLOR	4_CHUE
Computer	Yes	Yes	No	No	No
Component TRUSTED S	JUR Yes FOR	PR Yes CTO	R Yes DS	Yes - S	SOR Yes
Video, S-Video	Yes	Yes	Yes	Yes	Yes

Yes = Adjustable, No = Not adjustable

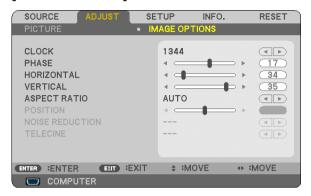
[RESET]

The settings and adjustments for [CONTRAST], [BRIGHTNESS], [SHARPNESS], [COLOR], [HUE], and [REFERENCE] within [PRESET] will be returned to the factory settings.

The settings and adjustments under [DETAIL SETTINGS] within the [PRESET] screen that are not currently selected will not be reset.

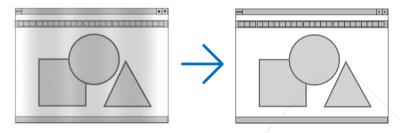


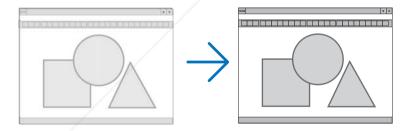
[IMAGE OPTIONS]



Adjusting Clock and Phase [CLOCK/PHASE]

This allows you to manually adjust CLOCK and PHASE.



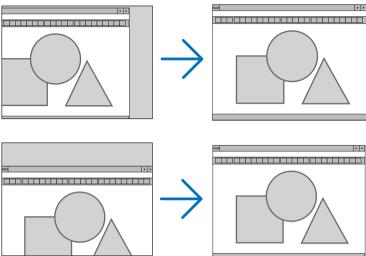


Use [PHASE] only after the [CLOCK] is complete.



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 malfunction.
- Your manual 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.

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.

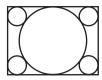
Resolution		Aspect Ratio
VGA	640 x 480	4:3
SVGA	800 x 600	4:3
XGA	1024 x 768	4:3
WXGA	1280 x 768	15:9
WXGA	1280 x 800	16:10
WXGA+	1440 x 900	16:10
SXGA	1280 x 1024	5:4
SXGA+	1400 x 1050	4:3
UXGA	1600 x 1200	4:3

	Options	Function
A	DixYourDLP.com	The projector will automatically determine the incoming signal and display it in its aspect
1/1	Sponsored by QM	ratio. (→ next page)
PN:	- Aund	The projector may erroneously determine the aspect ratio depending on its signal. If this
U	SCOUNT	occurs, select the appropriate aspect ratio from the following.
4:3		The image is displayed in 4:3 aspect ratio.
16:	9THE TRUSTED	The image is displayed in 16:9 aspect ratio.
15:	:9	The image is displayed in 15:9 aspect ratio.
	:10	The image is displayed in 16:10 aspect ratio.
WI	DE 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 computer signal has a lower resolution than the projector's native resolution.

[Example 1] When the incoming signal with the resolution of 800 x 600 is displayed on the NP115/NP110:



[Example 2] When the incoming signal with the resolution of 800 x 600 is displayed on the NP215/NP210:



ECTOR LAMPS AND ACCESSORIES

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, [NATIVE]
 is not available.

Sample image when the appropriate aspect ratio is automatically determined

[Computer signal]

[Odinpator orginar]					
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			900		

[Video signal]

Aspect ratio of incoming signal	4:3	Letterbox	Squeeze
Sample image when the aspect ratio is automatically determined			NOTE: To display a squeezed signal properly, select [16:9] or [WIDE ZOOM].

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])

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wen [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.

NOTE: This feature is available only when an SDTV signal is selected.

OFF	Turns off the TELECINE mode.
2-2/2-3 AUTO	Detects pull-down correction method.
2-2 ON	Uses 2-2 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]



Correcting Vertical Keystone Distortion Manually [KEYSTONE]

You can correct vertical distortion manually. (\rightarrow page 23)

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.

ON Saves current keystone correction settings

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

Using the Wall Color Correction [WALL COLOR]



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

NOTE: Selecting color options other than [OFF] will reduce brightness.

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.

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 (approx. 90% Brightness.)		Steady Green light

NOTE:

- The [LAMP LIFE REMAINING] and [LAMP HOURS USED] can be checked in [USAGE TIME]. Select [INFO.] → [USAGE TIME].
 (→ page 61)
- The projector is always in [OFF] for 60 seconds after the lamp is turned on and while the POWER indicator is blinking green. The lamp condition will not be affected even when [ECO MODE] is changed.
- After a lapse of 45 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 [1] indicates the [ECO MODE] is automatically set to [ON] mode because the internal temperature is too.

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

Setting Closed Caption [CLOSED CAPTION] (for North America only)

This option sets several closed caption modes that allow text to be superimposed on the projected image of Video or S-Video.

OFF This exits the closed caption mode.

CAPTION 1-4 Text is superimposed.

TEXT 1-4..... Text is displayed.

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 52) AND AGG SSORIES To close the message, press the EXIT button.

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].

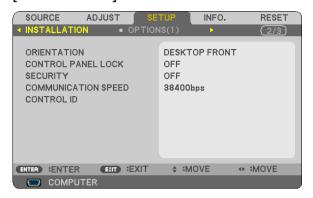
TIP: The logo can be changed.

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.

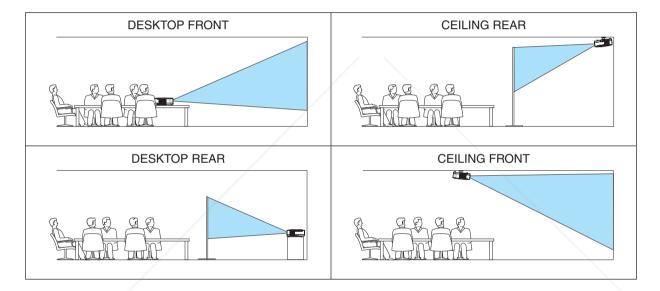


[INSTALLATION]



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.

Vhen the control panel is locked, pressing and holding the EXIT button on the projector cabinet for about 10 seconds will change 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.

Enabling Security [SECURITY] CE FOR PROJECTOR LAMPS AND ACCESSORIES

This feature turns on or off the SECURITY function.

Unless the correct keyword is entered, the projector cannot project an image. (\rightarrow page 31)

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 (D-Sub 9P). 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 IRESETI 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.

NOTE:

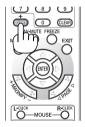
- Your setting will not be affected even when [RESET] is done from the menu.
- Pressing and holding the ENTER button on the projector cabinet for 10 seconds will display the menu for canceling the Control

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:

NOTE:

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.
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Release the ID SET putton.

The updated CONTROL ID screen will be displayed.

- The 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)]



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 5500 feet/1700 meters or higher.

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

NOTF:

- 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 5500 feet/1700 meters or higher.
- Using the projector at altitudes approximately 5500 feet/1700 meters or higher without setting to [HIGH ALTITUDE] can cause
 the projector to overheat and the protector could shut down. If this happens, wait a couple minutes and turn on the projector.
- Using the projector at altitudes less than approximately 5500 feet/1700 meters and setting to [HIGH ALTITUDE] can cause the lamp to overcool, causing the image to flicker. Switch [FAN MODE] to [AUTO].
- Using the projector at altitudes approximately 5500 feet/1700 meters or higher can shorten the life of optical components such
 as the lamp.
- Your setting will not be affected even when [RESET] is done from the menu.

Selecting [COLOR SYSTEM]

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This feature enables you to select video standards manually.

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

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].

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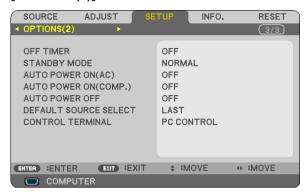
Enabling Key Sound and Error Sound [BEEP]

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

- Displaying the main menu
- Switching sources
- Resetting data by using [RESET]
- Pressing POWER ON or POWER OFF button



[OPTIONS(2)]



Using Off Timer [OFF TIMER]

- 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.

NOTF:

- 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: Red light/STATUS indicator: Off

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

- PC CONTROL port, and COMPUTER OUT connector
- LAN and Mail Alert functions
- 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.
- Your setting will not be affected even when [RESET] is done from the menu.

FixYourDLP.com abling 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.

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

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.

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

NOTE:

- Disconnecting a computer 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]

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

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 $ ightarrow$ VIDEO $ ightarrow$ S-VIDEO $ ightarrow$ COMPUTER and
	displays the first found source.
COMPUTER	. Displays the computer signal 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.

Selecting Port for External Equipment [CONTROL TERMINAL] (NP215 only)

This option allows you to select a port for controlling the projector either from PC Control or over a LAN.

PC CONTROL Select for controlling the projector from external equipment connected to the PC CONTROL port (D-Sub 9
Pin).
LAN

NOTE:

- When [POWER-SAVING] is selected for [STANDBY MODE], controlling the projector from external equipment is not possible.

"he PC Control post and LAN port are not active at the same time."

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Menu Descriptions & Functions [INFO.]

Displays the status of the current signal and lamp usage. This item has three pages (four pages on NP215). 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 or the filters 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.

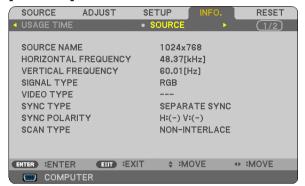
Lamp life(H) ECO MODE		Replacement lamp
OFF	ON	
3500	5000	NP13LP

• [TOTAL CARBON SAVINGS]

This displays the estimated carbon saving information in kg. The carbon footprint factor in the carbon saving calculation is based on the OECD (2008 Edition).

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[SOURCE]



[SOURCE NAME] [HORIZONTAL FREQUENCY]

[VERTICAL FREQUENCY][SIGNAL TYPE][VIDEO TYPE][SYNC TYPE][SYNC POLARITY][SCAN TYPE]

[WIRED LAN] (NP215 only)



[PROJECTOR NAME] [IP ADDRESS]
[SUBNET MASK] [GATEWAY]
[MAC ADDRESS]

[VERSION]



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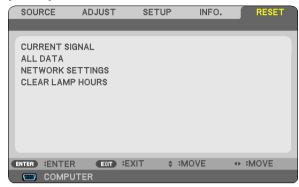
[PRODUCT]
[SERIAL NUMBER]
[FIRMWARE] Version
[DATA] Version
[CONTROL ID] (when [CONTROL ID] is set)

Menu Descriptions & Functions [RESET]

[NP210/NP115/NP110]



[NP215]



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], [FILTER MESSAGE], [SECURITY], [COMMUNICATION SPEED], [CONTROL ID], [STANDBY MODE], [FAN MODE], [CONTROL TERMINAL], [LAMP LIFE REMAINING], [LAMP HOURS USED], [TOTAL CARBON SAVINGS], and [NETWORK SETTINGS] (NP215 only). To reset the lamp usage time, see "Clearing Lamp Hour Meter [CLEAR LAMP HOURS]" below.

Clearing Networking Settings [NETWORK SETTINGS] (NP215 only)

Returns [DHCP], [IP ADDRESS], [SUBNET MASK], and [GATEWAY] to the default settings.

Clearing Lamp Hour Meter [CLEAR LAMP HOURS]

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

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

NOTE: The projector will turn off and go into standby mode 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 P button on the remote control for 10 seconds to reset the lamp clock back to zero. Do this only after replacing the lamp.

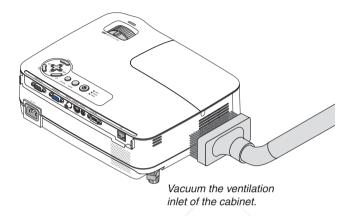
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6. Maintenance

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

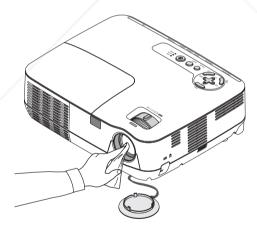
1 Cleaning the Cabinet and the Lens

- 1. Turn off the projector before cleaning.
- 2. Clean the cabinet periodically with a damp cloth. If heavily soiled, use a mild detergent. Never use strong detergents or solvents such as alcohol or thinner.



Note on Cleaning the Lens

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





2 Replacing the Lamp

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 63)

CAUTION

- DO NOT TOUCH THE LAMP immediately after it has been used. It will be extremely hot. Turn the projector off, 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 three 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 on 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.

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

- · for one minute after the projector has been powered on
- when the 🖒 (POWER) button on the projector cabinet or the POWER OFF button on the remote control is pressed

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

To replace the lamp:

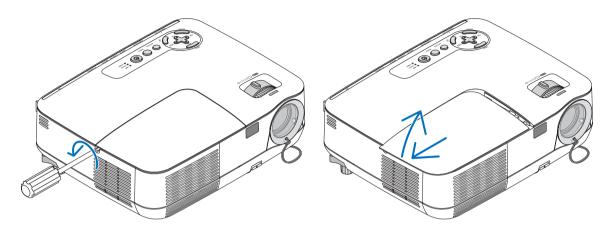
Optional lamp and tools needed for replacement:

- Replacement lamp: NP13LP
- Phillips screwdriver or equivalent



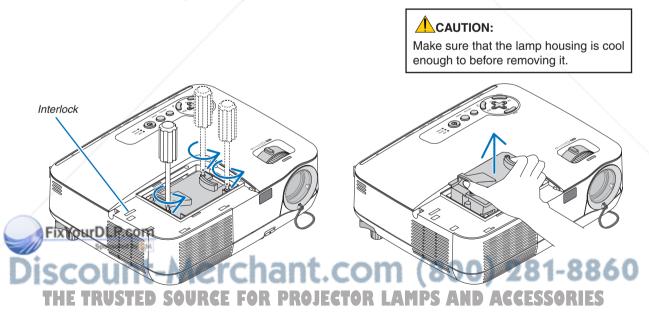
1. Remove the lamp cover.

- (1)Loosen the lamp cover screw
 - The lamp cover screw is not removable.
- (2) Push and slide the lamp cover off.



2. Remove the lamp housing.

- (1)Loosen the three screws securing the lamp housing until the phillips screwdriver goes into a freewheeling condition.
 - The three screws are not removable.
 - There is an interlock on this case to prevent the risk of electrical shock. Do not attempt to circumvent this interlock.
- (2) Remove the lamp housing by holding it.



3. Install a new lamp housing.

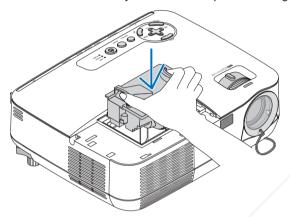
(1) Insert a new lamp housing until the lamp housing is plugged into the socket.

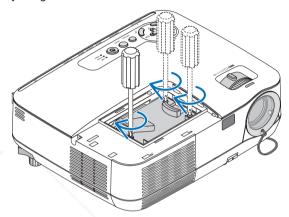
CAUTION

Do not use a lamp other than the NEC replacement lamp NP13LP. Order this from your NEC dealer.

- (2) Push the top center of the lamp housing to secure it.
- (3) Secure it in place with the three screws.
 - Be sure to tighten the screws.

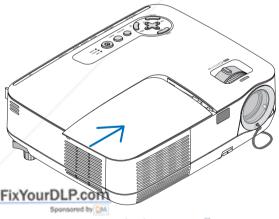
Hold the cabinet with your hand to keep it from tilting while you tighten the screw.

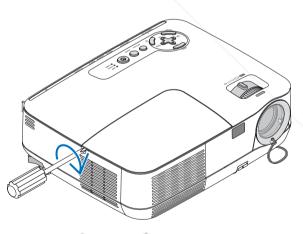




4. Reattach the lamp cover.

- (1) Slide the lamp cover back until it snaps into place.
- (2) Tighten the screw to secure the lamp cover.
 - Be sure to tighten the screw.





5. Connect the supplied power cable, and turn on the projector.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIE 6. 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.

7. Appendix

Troubleshooting

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

Indicator Messages

Power Indicator

Indic	ator Cor	ndition	Projector Condition	Note
Off			The power cable is unplugged.	_
Blinking light	nking light Green 0.5 sec On, 0.5 sec Off		The projector is getting ready to turn on.	Wait for a moment.
2.5 sec On, 0.5 sec Off		1 '	Off Timer is enabled.	_
Steady light Green Orange Red			The projector is turned on.	_
			[NORMAL] is selected for [STANDBY MODE]	_
			[POWER-SAVING] is selected for [STANDBY MODE]	_

Status Indicator

Indic	ator Con	dition	Projector Condition	Note	
Off			Normal or Standby ([POWER-SAVING] for [STANDBY MODE])	_	
Blinking light	Red	1 cycle (0.5 sec On, 2.5 sec Off)	Lamp cover error or lamp housing error	Replace the lamp cover or lamp housing correctly.	
		2 cycle (0.5 sec On, 0.5 sec Off)	Temperature error	The projector is overheated. Move the projector to a cooler location.	
		4 cycle (0.5 sec On, 0.5 sec Off)	Fan error	Fans will not work correctly.	
		6 cycle (0.5 sec On, 0.5 sec Off)	Lamp error	Lamp fails to light. Wait a full minute and then turn on again.	
	Green		Re-firing the lamp (The projector is cooling down.)	The projector is re-firing. Wait for a moment.	
Steady light	Green Orange		Standby ([NORMAL] for [STANDBY MODE])	-	
			Cabinet button is locked	You have pressed cabinet button when Cabinet Button is locked.	
			CONTROL ID error	Remote control ID and projector ID are not matched.	

Lamp Indicator

Indic	ator Condition	Projector Condition	Note	
Off		Normal	_	
Blinking light	Red	Lamp has reached its end of life. Lamp replacement message will be displayed.	Replace the lamp.	
Steady light	Red	Lamp has been used beyond its limit. The projector will not turn on until the lamp is replaced.	Replace the lamp.	
Green		[ECO MODE] is set to [ON]	_	

er-Temperature Protection

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

Should this happen, do the following: F FOR DROJECTOR LAMPS AND ACCESSORIES

• 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.

$\textbf{Common Problems \& Solutions} \ (\rightarrow \text{``Power/Status/Lamp Indicator''} \ on \ page \ 68.)$

	a Solutions (-> 1 owen status/Lamp indicator on page oc.)
Problem	Check These Items
Does not turn on or shut down	 Check that the power cable is plugged in and that the power button on the projector cabinet or the remote control is on. (→ pages 16 and 17) Ensure that the lamp cover is installed correctly. (→ page 67) 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 63) The lamp may fail to light. Wait a full minute and then turn on the power again. Set [FAN MODE] to [HIGH ALTITUDE] when using the projector at altitudes approximately 5500 feet/1700 meters or higher. Using the projector at altitudes approximately 5500 feet/1700 meters or higher without setting to [HIGH ALTITUDE] can cause the projector to overheat and the projector could shut down. If this happens, wait a couple minutes and turn on the projector. (→ page 57) If you turn on the projector immediately after the lamp is turned off, the fans run without displaying an image for some time and then the projector will display the image. Wait for a moment.
Will turn off	Ensure that the [OFF TIMER] or [AUTO POWER OFF] is off. (→ page 59, 60)
No picture	 Use the COMPUTER1, the VIDEO or the S-VIDEO button on the remote control to select your source (Computer, Video or S-Video). (→ page 19) If there is still no picture, press the button again. Ensure your cables are connected properly. Use menus to adjust the brightness and contrast. (→ page 45) Remove the lens cap. Reset the settings or adjustments to factory preset levels using the [RESET] in the Menu. (→ page 63) Enter your registered keyword if the Security function is enabled. (→ page 31) Be sure to connect the projector and notebook PC while the projector is in standby mode and before turning on the power to the notebook PC. In most cases the output signal from the notebook PC is not turned on unless connected to the projector before being powered up. If the screen goes blank while using your remote control, it may be the result of the computer's screensaver or power management software. See also the next page.
Picture suddenly be- comes dark	Check if the projector is in the Forced ECO mode because of too high ambient temperature. If this is the case, lower the internal temperature of the projector by selecting [HIGH] for [FAN MODE]. (→ page 57)
Color tone or hue is unusual	 Check if an appropriate color is selected in [WALL COLOR]. If so, select an appropriate option. (→ page 51) Adjust [HUE] in [PICTURE]. (→ page 45)
Image isn't square to the screen	 Reposition the projector to improve its angle to the screen. (→ page 20) Use the Keystone correction function to correct the trapezoid distortion. (→ page 23)
Picture is blurred	 Adjust the focus. (→ page 22) Reposition the projector to improve its angle to the screen. (→ page 20) Ensure that the distance between the projector and screen is within the adjustment range of the lens. (→ page 9) Condensation may form on the lens if the projector is cold, brought into a warm place and is then turned on. Should this happen, let the projector stand until there is no condensation on the lens.
Flicker appears on screen	Set [FAN MODE] to other than [HIGH ALTITUDE] mode when using the projector at altitudes approximately 5500 feet/1700 meters or lower. Using the projector at altitudes less than approximately 5500 feet/1700 meters and setting to [HIGH ALTITUDE] can cause the lamp to overcool, causing the image to flicker. Switch [FAN MODE] to [AUTO]. (→ page 57)
Image is scrolling vertically, horizontally or both	 Check the computer's resolution and frequency. Make sure that the resolution you are trying to display is supported by the projector. (→ page 75) Adjust the computer image manually with the Horizontal/Vertical in the [IMAGE OPTIONS]. (→ page 48)
Remote control does not work	 Install new batteries.(→ page 7) Make sure there are no obstacles between you and the projector. Stand within 22 feet (7 m) of the projector. (→ page 7) Make sure that the remote control's ID corresponds with the projector's ID. (→ page 56)
	See the POWER/STATUS/LAMP Indicator. (→ page 68)
Cator is lit or blink- ing Cross color in RGB mode LAN control is not ac- tive or PC Control is not active	4 Morehant com (000) 004 0064
Cannot control the projector from external equipment	• Check to see if [STANDBY MODE] is set to [POWER-SAVING] and if it is, try to set it to [NORMAL]. (→ page 59)

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. (\rightarrow page 62 or go to next step)

Enabling the computer's external display.

Displaying an image on the notebook PC's screen does not necessarily mean it outputs a signal to the projector. When using a PC compatible laptop, a combination of function keys will enable/disable the external display. Usually, the combination of the "Fn" key along with one of the 12 function keys gets the external display to come on or off. For example, NEC laptops use Fn + F3, while Dell laptops use Fn + F8 key combinations to toggle through external display selections.

· Non-standard signal output from the computer

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

· Image displayed is incorrect when using a Macintosh

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

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

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

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

Folders or icons are hidden on the Macintosh screen

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

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

2 Specifications

This section provides technical information about the NP215/NP210/NP115/NP110 projector's performance.

Model Number

NP215/NP210/NP115/NP110

Optical

Projection System	Single DLP™ chip (0.55", aspect 4:3)			
Resolution*1	NP215/NP210: 1024 x 768 pixels			
Resolution	NP115/NP110: 800 x 600 pixels			
Lana	Manual zoom and focus			
Lens	F=2.41-2.55, f=21.8-24.0mm			
Lamp	180W AC (160W in ECO Mode)	180W AC (160W in ECO Mode)		
Light Output*2 *3	NP215/NP115: 2500 lumens (approx. 90% in ECO Mode)			
Light Output*2,*3	NP210/NP110: 2200 lumens (approx. 90% in ECO Mode)			
Contrast Ratio*3	0000:1			
(full white: full black)	2000:1			
Image Size (Diagonal)	30" - 300" diagonal (4:3)			
Draination Distance	46" - 465" (wide) / 52" - 520" (tele)			
Projection Distance	1.18 - 11.8 m (wide) / 1.32 - 13.2 m (tele)			
Projection Angle	14.0° (wide) / 12.7° (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			
Output	1 Analog RGB (Mini D-Sub 15 Pin)			
PC Control	1 PC Control (D-Sub 9 Pin)			
Wired LAN	1 Port RJ-45 (NP215 only)			
Built-in Speaker	7W (monaural)			
External Control	RS232, IR, Wired LAN (NP215 only)			
Color Reproduction	16.7 million colors simultaneously, Full color			
Commodible Cinnels*4	VGA/SVGA/XGA/WXGA/SXGA/SXGA+/UXGA 480i/480p/720p/1080i (60Hz)			
Compatible Signals*4	576i/576p/720p/1080i (50Hz)			
	DVD: Progressive (50/60Hz)			
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 support resolutions			
	of 1024 x 768 or lower.)			
Sync Compatibility	Separate Sync			
zeital/Bendblion.com	540 TV lines: NTSC/NTSC4.43/PAL/PAL-M/PAL-N/PAL60 300 TV lines: SECAM			
Power Requirement/Input Current	Power Requirement: 100-240V AC, 50/60 Hz Input Current: 2.6-1.2A			
12COULL-MK	in OFF for ECO MODE: 242W(100-130V AC)/233W(200-240V AC)			
Power Consumption SOUR	in ON for ECO MODE: 217W(100-130V AC)/210W(200-240V AC). in NORMAL Mode for STANDBY MODE: 4W(100-130V AC)/5W(200-240V AC) in POWER-SAVING Mode for STANDBY MODE: 0.49W(100-130V AC)/0.71W(200-240V			
	AC)			

^{*4} An image with higher resolution than the projector's native resolution (NP215/NP210: 1024 x 768 / NP115/NP110: 800 x 600) will be displayed with scaling technology.

^{*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

Mechanical

Installation	Orientation: Desktop/Front, Desktop/Rear, Ceiling/Front, Ceiling/Rear				
	12.2"(W) x 3.7 (H) x 9.7"(D)				
Dimensions	310 mm (W) x 95 mm (H) x 247 mm (D)				
	(not including protrusions)				
Net Weight	5.5 lbs / 2.5 kg				
Environmental Considerations	Operational Temperatures: 41°F to 104°F / 5°C to 40°C ([ECO MODE] is set automatically to [ON] at 95°F to 104°F/35°C to 40°C / [ECO MODE] is set automatically to [ON] 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 Europe:

Meets EMC Directive (EN55022, EN55024, EN61000-3-2, EN61000-3-3)

Meets Low Voltage Directive (EN60950-1, TÜV GS Approved)

CE

For additional information visit:

US: http://www.necdisplay.com/

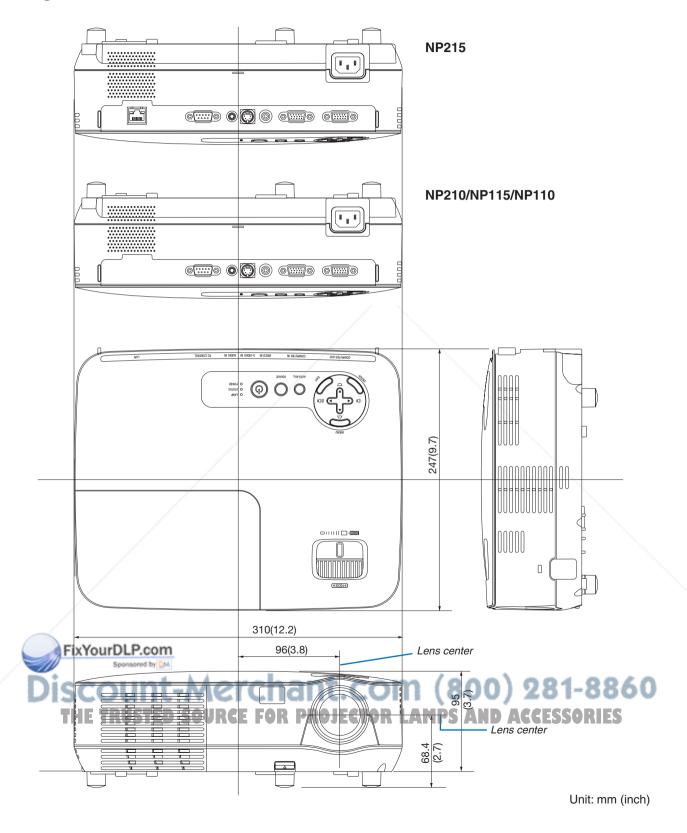
Europe: http://www.nec-display-solutions.com/ Global: http://www.nec-display.com/global/index.html

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

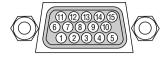
The specifications are subject to change without notice.



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	



Compatible Input Signal List

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

Vertical: 50Hz to 120Hz

C:I		Resolution	Frequency H.	Refresh Rate		
Si	gnal	(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		
IDM co	mnatible	800 × 600	46.88	75.00		
IBIVI CO	mpatible	800 × 600	53.67	85.06		
		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 × 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		
Apple N	lacintosh®	832 × 624	49.72	74.55		
		1024 × 768	60.24	74.93		
	720p	1280 × 720	37.50	50.00		
HDTV	720p	1280 × 720	45.00	60.00		
пи	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		
רוער			15.73	59.94		
DVD	YCbCr	/ -	15.63	50.00		

NOTE:

- An image with higher resolution than the projector's native resolution (NP215/NP210: 1024 x 768 / NP115/NP110: 800 x 600) 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.



6 PC Control Codes and Cable Connection PC Control Codes

Function	Code I	Data							
POWER ON	02H	00H	00H	00H	00H	02H			
POWER OFF	02H	01H	00H	00H	00H	03H			
INPUT SELECT COMPUTER	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	
PICTURE MUTE ON	02H	10H	00H	00H	00H	12H			
PICTURE MUTE OFF	02H	11H	00H	00H	00H	13H			
SOUND MUTE ON	02H	12H	00H	00H	00H	14H		·	
SOUND MUTE OFF	02H	13H	00H	00H	00H	15H			

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

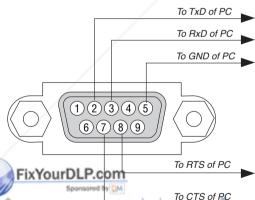
Cable Connection

Communication Protocol	
Baud rate	38400 bps
Data length	8 bits
Parity	No parity
Stop bit	One bit
X on/off	None
•	

Communications procedure.....Full duplex

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

PC Control Connector (D-SUB 9P)



Discount-Merchant.com (800) 281-8860

NOTE 2: Jumper "Request to Send" and "Clear to Send" together on both ends of the cable to simplify cable connection.

NOTE 3: For long cable runs it is recommended to set communication speed within projector menus to 9600 bps.

Troubleshooting Check List

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

* Print this page and the next page for your check. **Frequency of occurrence** □ always □ sometimes (How often?_ Power -No power (POWER indicator does not light green) See also "Status Shut down during operation. Indicator (STATUS)". Power cable's plug is fully inserted into the wall outlet. Power cable's plug is fully inserted into the wall outlet. Lamp cover is installed correctly. Lamp cover is installed correctly. [AUTO POWER OFF] is turned off (only models with the [AUTO Lamp Hours Used (lamp operation hours) was cleared after POWER OFF] function). lamp replacement. [OFF TIMER] is turned off (only models with the [OFF TIMER] No power even though you press and hold the POWER button function). for 1 second. Video and Audio No image is displayed from your PC or video equipment to the Parts of the image are lost. projector. Still unchanged even though you press the AUTO ADJ. but-Still no image even though you connect the projector to the PC first, then start the PC. 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 exter-Image is shifted in the vertical or horizontal direction. nal display. Usually, the combination of the "Fn" key along Horizontal and vertical positions are correctly adjusted on a with one of the 12 function keys turns the external display computer signal. on or off. Input source's resolution and frequency are supported by the No image (blue or black background, no display). projector. Still no image even though you press the AUTO ADJ. Some pixels are lost. button. Image is flickering. Still no image even though you carry out [RESET] in the Still unchanged even though you press the AUTO ADJ, butprojector's menu. ton. Signal cable's plug is fully inserted into the input connector Still unchanged even though you carry out [RESET] in the A message appears on the screen. projector's menu. Image shows flickering or color drift on a computer signal. The source connected to the projector is active and available. Still unchanged even though you change [FAN MODE] from Still no image even though you adjust the brightness and/or [HIGH ALTITUDE] to [AUTO]. the contrast. Image appears blurry or out of focus. Input source's resolution and frequency are supported by the Still unchanged even though you checked the signal's resolution projector. on PC and changed it to projector's native resolution. Still unchanged even though you adjusted the focus. Remains unchanged even though you adjust the brightness No sound. and/or the contrast. Audio cable is correctly connected to the audio input of the Image is distorted. projector. Image appears to be trapezoidal (unchanged even though you Still unchanged even though you adjusted the volume level. carry out the [KEYSTONE] adjustment). AUDIO OUT is connected to your audio equipment (only models with the AUDIO OUT connector). Remote control does not work. Buttons on the projector cabinet do not work (only models with the CONTROL PANEL LOCK function) CESSORIES No obstacles between the sensor of the projector and the remote control. [CONTROL PANEL LOCK] is not turned on or is disabled in the menu. Projector is placed near a fluorescent light that can disturb the infrared remote controls. Still unchanged even though you press and hold the EXIT button for a minimum of 10 seconds. Batteries are new and are not reversed in installation.

In the space below please des	crihe vour problem in detail		
Information on application and	environment where your proj	ecto	r is used
Projector			Installation environment
Model number:			Screen size: inch
Serial No.:			Screen type: ☐ White matte ☐ Beads ☐ Polarization
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	[] Hz		\square Connected to power cord extender or other (the
Synch polarity	H □ (+) □ (−)		number of connected equipment)
	V □ (+) □ (-)		 Connected to a power cord reel or other (the number of connected equipment)
Synch type	☐ Separate ☐ Composite		or connected equipment
	☐ Sync on Green		0
STATUS Indicator:			Computer
Steady light	☐ Orange ☐ Green		Manufacturer:
Flashing light	[] cycles		Model number:
Remote control model number	er:		Notebook PC □ / Desktop □
			Native resolution:
			Refresh rate:
			Video adapter:
/(Other:
Projector	PC		
	DVD player		
Signal cable			Video equipment
NEC standard or other manuf	acturer's cable?		VCR, DVD player, Video camera, Video game or other
Middle P.com	Length: inch/m		Manufacturer:
Distribution amplifier	A A		Model number:
Model number:	merchant	1.	COM (800) 281-8860
Switcher TRUSTED S Model number:	OURCE FOR PRO	JEG	TOR LAMPS AND ACCESSORIES
Adapter			
Model number:			

TravelCare Guide

TravelCare - a service for international travelers

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

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

Services offered with TravelCare

This warranty allows customers to receive service on their product at the NEC and NEC-designated service stations in the countries listed herein when temporarily traveling internationally for business or pleasure. For details on services offered by the different service stations, please refer to the "List of TravelCare Outlets" below.

1 Repair services

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

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

2 Replacement product rental service

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

Fee: US\$200 for 12 days

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

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

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

If the customer returned the replacement product in a faulty or damaged condition, the repair cost will be charged to the customer.

Note that this service is not offered in all countries and regions. Please refer to the "List of TravelCare Outlets".

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

Term of warranty

a. 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.

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

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

List of TravelCare Outlets

This list applies as of July 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.

+44 1952 237000 Telephone: 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 Kinadom*

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. Telephone: +1 800 836 0655 Fax Line: +1 800 356 2415

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)

OAUSTRAIIAMPS AND ACCESSORIES Problems or damage caused by improper usage or unwarrantable A restriction of restriction of the statement. alterations or repairs by the customer.

- 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.
- 5) Problems or damage caused by use in hot or humid places, in vehicles, boats or ships, etc.

Visual Group Ltd.

Address: 28 Walls Road Penrose Auckland New Zealand

095250740 Telephone: 095809607 Fax Line:

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

(Regions Covered) New Zealand

In Asia and Middle East

NEC Display Solutions, Ltd.

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

Kanagawa 258-0017, Japan

Telephone: +81 465 85 2369 +81 465 85 2393 Fax Line:

Email Address: support_pjweb@gw.necds.nec.co.jp

WEB Address: http://www.nec-pj.com

(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.

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

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 +886 2 8500 1420 Fax Line: Email Address: eric@nec.com.tw WEB Address: http://www.nec.com.tw

(Regions Covered)

Taiwan

NEC Asia Pte.Ltd.

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

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/home.php

(Regions Covered) Singapore

Hyosung ITX Co., Ltd.

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

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.

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

Huamark, Bangkapi, Bangkok 10240, Thailand

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

(Regions Covered)

Thailand

ABBA Electronics L.L.C.

Telephone:

Tarig Bin Ziyad Road, P.O.Box 327, Dubai, United Address:

Arab Emirates +971 4 371800 +971 4 364283

Fax Line: Email Address: ABBA@emirates.net.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: asif@samir-photo.com

Riyadh

P.O.Box 5519, Riyadh 11432, Saudi Arabia Address:

Telephone: +966 1 4645064 Fax Line: +966 1 4657912 Email Address: bhimji@samir-photo.com

Alkhobar

Address: P.O.Box 238. Alkhobar 31952. Saudi Arabia

Telephone: +966 3 8942674 Fax Line: +966 3 8948162

Email Address: chamsedin@samir-photo.com

(Regions Covered) Saudi Arabia

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

product rental service are offered.

NEC Corporation of Malaysia Sdn. Bhd.

33rd Floor, Menara TA One, 22, Jalan P. Ramlee, 50250 Kuala Lumpur, Malaysia

Telephone: +6 03 2178 3600 (ISDN)

Fax Line: Email Address:

+6 03 2178 3789
necare @nsm.nec.co.jp
http://www.necarecenter.com WEB Address:

SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Malaysia

Date: / / ,	P-1/ ,
TO: NEC or NEC's Authorized FM:	Service Station:
(Company & Name	with signature)
following conditions, and also the specified period. I also confirm fo	are Service Program based on attached registration and qualification sheet and agree with your e Service fee will be charged to my credit card account, if I don't return the Loan units within the bllowing information is correct. Regards.
Country, product purchased :	
User's Company Name :	
User's Company Address : Phone No., Fax No. :	
User's Name :	
User's Address :	
Phone No., Fax No.:	
Local Contact office :	
Local Contact office Address :	
Phone No., Fax No. :	
User's Model Name :	
Date of Purchase :	
Serial No. on cabinet :	
Problem of units per User :	
Juired Service :	(1) Repair and Return (2) Loan unit
Requested period of Loan unit	Merchant.com (800) 281-8860
Payment method : STED S	(1) Credit Card (2) Travelers Cheque (3) Cash (C 2550) 35
In Case of Credit Card : Card No. w/Valid Date :	

Condition of your TravelCare Service Program

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

1. Service Options:

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

1) Repair and Return:

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

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

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

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

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

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

3) Loan Only:

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

2. Warranty Exclusions:

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

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

- 1) Accidents, transportation, neglect, misuse, abuse, water, dust, smoke or default of or by the Customer its employees or agents or any third
- 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.

arges for Warranty Exclusions and Out of Warranty Case:

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

4. Dead on Arrival (DOA):

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

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

5. Loan Service Charges and Conditions:

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

The current cost of use of this loan unit is US\$200 for 12 calendar days

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

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

Thank you for your understanding of this program.

NEC





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RecycleYourLamp.org – Free lamp recycling services for used lamps: http://www.recycleyourlamp.org

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

