

LCD Projector

NP3150/NP2150/NP1150 NP3151W

User's Manual



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Information on USB Wireless LAN:

The NP3150/NP2150/NP1150/NP3151W series projectors distributed in some areas and countries do not come standard with the USB Wireless LAN Unit.

If you purchase the projector without the USB Wireless LAN Unit installed and need to present to the projector via a wireless connection, the optional USB Wireless LAN Unit must be installed. The model without the USB wireless unit has a dummy cover.

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

Important Information

Safety Cautions

Precautions

Please read this manual carefully before using your NEC NP3150/NP2150/NP1150/NP3151W projector and keep the manual handy for future reference. Your serial number is located on the bottom of your projector. Record it here:

CAUTION

To turn off main power, be sure to remove the plug from power outlet.

The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.

CAUTION



TO PREVENT SHOCK, DO NOT OPEN THE CABINET. THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



This symbol alerts the user that important information concerning the operation and maintenance of this unit has been provided.

The information should be read carefully to avoid problems.

WARNING: TO PREVENT FIRE OR SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. DO NOT USE THIS UNIT'S PLUG WITH AN EXTENSION CORD OR IN AN OUTLET UNLESS ALL THE PRONGS CAN BE FULLY INSERTED.

DOC Compliance Notice (for Canada only)

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

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

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

CAUTION注意 CAUTION	RADIACION LASER NO	RAYONNEMENT LASER NE PAS	識光福射
LASER RADIATION-	MIRE AL RAYO PRODUCTO	Regarder dans le faisceau	勿直視
DO NOT STARE INTO BEAM	LASER CLASSE2	Appareil à laser de classe2	識光束
WAVE LENGTH : 650nm MAX, OUTPUT: 1mW CLASS II LASER PRODUCT CLASS 2 LASER PRODUCT [ENGRES-	LASER-STRAHLUNG NICHT IN DEN STRAHL BLICKENI LASER KLASSE2	<u>レーザ光</u> 1mW max.650nm ビームをのぞき込まないこと クラス2レーザ観品 MADE IN CHEM	中国制造

This label is on the side of the remote control.



This mark is on the top of the remote control.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION

Do not look into the laser pointer while it is on and do not point the laser beam at a person. Serious injury could result.

CAUTION



Avoid displaying stationary images for a prolonged period of time.

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

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.

Disposing of your used product



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

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

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

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.

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 left front (when seen from the front) as it can become heated while the projector is turned on.
- 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 project. If something should fall into your projector, disconnect it immediately and have the object removed by a qualified service personnel.
- Do not place any objects on top of the projector.
- Do not touch the power plug during a thunderstorm. Doing so can cause electrical shock or fire.
- The projector is designed to operate on a power supply of 100-240V AC 50/60 Hz. Ensure that your power supply fits this requirement before attempting to use your projector.
- Do not look into the lens while the projector is on. Serious damage to your eyes could result.
- Keep any items such as magnifying glass out of the light path of the projector. The light being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause unpredictable outcome such as fire or injury to the eyes.
- Do not cover the lens with the black lens cap or equivalent while the projector is on. Doing so can lead to melting of the cap and possibly burning your hands due to the heat emitted from the light output.
- · Do not place any objects, which are easily affected by heat, in front of the projector lens or a projector exhaust vent.

Doing so could lead to the object melting or getting your hands burned from the heat that is emitted from the light output and exhaust.

- Handle the power cable carefully. A damaged or frayed power cable can cause electric shock or fire.
 - Do not use any power cables than the supplied one.
 - Do not bend or tug the power cable excessively.
 - Do not place the power cable under the projector, or any heavy object.
 - Do not cover the power cable with other soft materials such as rugs.
 - Do not heat the power cable.
 - Do not handle the power plug with wet hands.

• Turn off the projector, unplug the power cable and have the projector serviced by a qualified service personnel under the following conditions:

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

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

CAUTION

- Always carry your projector by the carrying handle. Before doing so, be sure to lock the carrying handle in place. To lock the carrying handle, see "To lock the carrying handle" on page 6.
- 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 a 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] → [FAN MODE] → [HIGH].)
- Before using Direct Power Off, be sure to allow at least 20 minutes immediately after turning on the projector and starting to display an image.
- Do not unplug the power cable from the wall outlet or projector when the projector is powered on. Doing so can cause damage to the AC IN connector of the projector and (or) the prong plug of the power cable. To turn off the AC power supply when the projector is powered on, use a power strip equipped with a switch and a breaker.
- The projector can be unplugged during its cool down period after it is turned off. 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.

Caution on Handling the Optional Lens

When shipping the projector with the optional lens, remove the optional lens before shipping the projector. The lens and the lens shift mechanism may encounter damage caused by improper handling during transportation. Do not hold the lens part when carrying the projector.

Doing so could cause the focus ring to rotate, resulting in accidental dropping of the projector.

Remote Control Precautions

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

Lamp Replacement

- To replace the lamp, follow all instructions provided on page 124.
- Be sure to replace the lamp when the message [THE LAMP HAS REACHED THE END OF ITS USABLE LIFE. PLEASE REPLACE THE LAMP.] appears. If you continue to use the lamp after the lamp has reached the end of its usable life, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury.

If this happens, contact your dealer for lamp replacement.

A Lamp Characteristic

The projector has a high-pressure mercury lamp as a light source. A lamp has a characteristic that its brightness gradually decreases with age. Also repeatedly turning the lamp on and off will increase the possibility of its lower brightness.

CAUTION:

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

About High Altitude mode

 Set [FAN MODE] to [HIGH ALTITUDE] when using the projector at altitudes approximately 5500 feet/1600 meters or higher.

Using the projector at altitudes approximately 5500 feet/1600 meters or higher without setting to [HIGH ALTI-TUDE] can cause the projector to overheat and the protector could shut down. If this happens, wait a couple minutes and turn on the projector.

- Using the projector at altitudes less than approximately 5500 feet/1600 meters and setting to [HIGH ALTITUDE] can cause the lamp to overcool, causing the image to flicker. Switch [FAN MODE] to [AUTO].
- Using the projector at altitudes approximately 5500 feet/1600 meters or higher can shorten the life of optical components such as the lamp.

USB Wireless LAN Unit

Cautions on Usage

Warning

- The USB Wireless LAN Unit is not meant for use with facilities or equipment involving the safeguard of human life, such as medical equipment, nuclear facilities or equipment, aeronautical or space equipment, transportation facilities or equipment, etc., or with facilities or equipment requiring high levels of reliability. Do not use the USB Wireless LAN Unit in such cases.
- Do not use the USB Wireless LAN Unit near cardiac pacemakers.
- Do not use the USB Wireless LAN Unit near medical equipment. Doing so may cause electromagnetic interference with the medical equipment, possible leading to death.
- Do not disassemble or modify the USB Wireless LAN Unit in any way. Doing so could lead to fire or electric shock.
- Do not use the USB Wireless LAN Unit in wet or moist places, such as in bathrooms or near humidifiers. Doing so could lead to fire, electric shock or malfunction.

Caution

To prevent damage due to static electricity, eliminate any static electricity from your body before touching the USB Wireless LAN Unit.

 Static electricity from the human body may damage the USB Wireless LAN Unit. Before touching the USB Wireless LAN Unit, touch an aluminum sash, a door knob, or some other metal object around you to eliminate the static electricity.

Caution

The radio waves used by the USB Wireless LAN Unit pass through the wood or glass used in normal homes (but not through window panes with built-in metallic mesh).

The radio waves do not pass through iron reinforcing bars, metal or concrete, however, so the USB Wireless LAN Unit cannot be used for communicating through walls or floors made with these materials.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B Personal Computer and Peripheral, 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.

This equipment has been tested to comply with the limits for a Class B personal computer and peripheral, pursuant to Subpart B of Part 15 of FCC Rules. Only peripherals (computer input/output devices, terminals, printers, etc.) certified (DoC) or verified to comply with Class B limits may be attached to this equipment. Operation with non-certified (DoC) or non-verified personal computer and/or peripherals is likely to result in Interference to radio and TV reception.

The connection of a unshielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which Exceed the limits established by FCC for equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Regulatory Information/Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

CAUTION

To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 7.87"/20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR compliance has been established in typical laptop computer(s) with USB slot, and product could be used in typical laptop computer with USB slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

Usage restrictions in North America

The following channels can be used indoors only.

- In the United States and Canada: 36, 40, 44, and 48 channels
- In Mexico: 149, 153, 157, 161, and 165 channels

The other channels can be used both indoors and outdoors.

This Class B digital apparatus complies with Canadian RSS-210. Cet appareil numerique de la Classe B est conforme a la norme CNR-210 du Canada.

To comply with Canada RSS-210(Issue 7) section A9.4(b)(ii); this radio product will not transmit on any channels operating in the exclusion band of 5600 - 5650MHz. All channels in the 5600 - 5650MHz band will be disabled by factory firmware and is not user changeable.

Regulatory Statement:

Operation of this device is subjected to the following National regulations and may be prohibited to use if certain restriction should be applied.

France:

Outdoor use limited to 10mW e.i.r.p. within the band 2454 – 2483.5 MHz. Derogation in French overseas departments of Guyane and La Reunion: outdoor use not allowed in band 2400 - 2420 MHz.

Hereby, NEC Display Solutions, Ltd. declares that this USB Wireless LAN Unit (Model: NP01LM) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Cautions on security when using wireless LAN products

With a wireless LAN, radio waves are used instead of LAN cables for the exchange of data between the wireless access points (computers, etc.), offering the advantage that LAN connections can be made freely within the range of the radio waves.

On the other hand, the radio waves reach all points within this range, regardless of walls or other obstacles, possibly resulting in the problems described below if the proper security measures are not taken.

Contents of transmissions may be intercepted

Malicious third parties may purposely intercept the radio waves and steal information contained in the transmissions, including such personal information as ID numbers, passwords, credit card numbers, e-mail messages, etc.

Improper intrusions

Malicious third parties may without permission access the personal or company network and steal personal or confidential information, pretend to be someone else and leak incorrect information, rewrite information that has been intercepted, introduce computer viruses or otherwise damage data or the system, etc.

Wireless LAN cards and wireless access points generally include security measures for dealing with these problems. Making the proper security settings before using the products can reduce the risk of such problems arising.

We recommend that you fully understand the problems that can arise when using the products without making the security settings, then that you make the security settings based on your own decision and at your own discretion.

Operation of the USB Wireless LAN Unit is subjected to the regulations of the countries listed below, and may be prohibited to use outside the country where you purchased. If you need to use the projector outside the country where you purchased, you must remove the USB Wireless LAN Unit from the projector before exporting.

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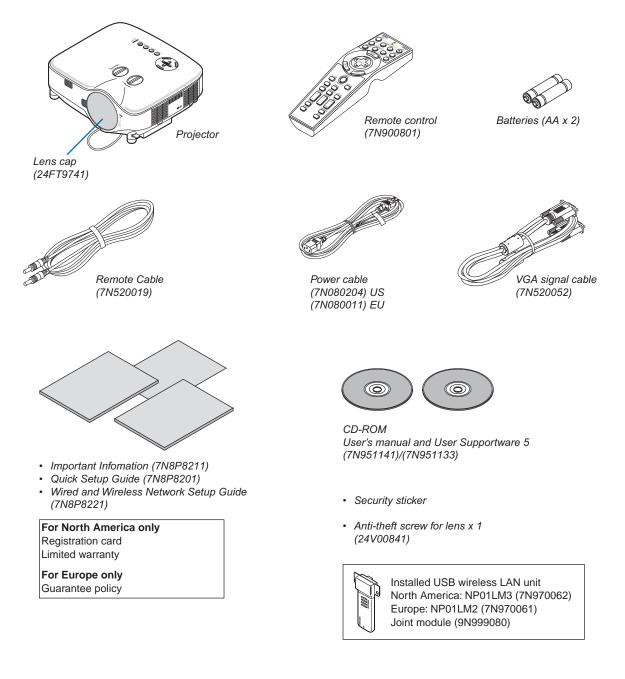
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1. Introduction

1 What's in the Box?

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



Introduction to the Projector

This section introduces you to the NP3150/NP2150/NP1150/NP3151W projector and describes key features and controls.

Congratulations on Your Purchase of the Projector

The NP3150/NP2150/NP1150 is a sophisticated XGA projector that produces an enhanced display. NP3151W is a WXGA projector. With the NP3150/NP2150/NP1150/NP3151W you will be able to project images up to 500" (measured diagonally). Enjoy crisp and sharp large screen display from your PC, workstation or Macintosh computer, DVD player, VCR, satellite hookup, HDTV source, as well as images from your USB storage device. The NP3150/NP2150/NP1150/NP3151W provides for enhanced security options to help deter projector theft and provides for full projector control through the PC control port (D-Sub 9 Pin) and LAN support. With input and output flexibility, long lamp life and a full function remote, the NP3150/NP2150/NP1150/NP3151W lets you enjoy larger than life viewing from a compact and easy to setup and use projector.

Features you'll enjoy :

- LCD projector with high resolution and high brightness
- High resolution display up to UXGA compatible, XGA native resolution.

WXGA 1280x800 native resolution (NP3151W only)

The NP3151W with WXGA (1280x800) native resolution was designed with the future in mind by supporting emerging wide screen resolutions being used in more of today's computers and SD signals along with the ever increasing demands for HD signals.

Extensive optional lens

One standard lens and five types of optional lenses are available

Lens shift mechanism offers installation flexibility

Manual lens shift that can be adjusted by turning dials on the top of the projector

Direct Power Off & Auto Start

The projector has a feature called "Direct Power Off". This feature allows the projector to be turned off (even when projecting an image) using a power strip equipped with a switch and a breaker.

NOTE: Before using Direct Power Off, be sure to allow at least 20 minutes immediately after turning on the projector and starting to display an image.

Also, the power cable can be removed immediately after turning off the projector.

Auto Start eliminates the need to always use the POWER (ON/STANDBY) button on the remote control or projector cabinet.

Integrated RJ-45 connector for wired networking capability along with wireless networking capabilities

An RJ-45 connector and a USB Wireless LAN unit are equipped as standard features*.

Present from anywhere in the room when using as a wireless LAN projector and software contained on the supplied User Supportware 5 CD-ROM, no physical signal cable connection to a PC is required.

NOTE: The NP3150/NP2150/NP1150/NP3151W series projectors distributed in some areas and countries do not come standard with the USB Wireless LAN Unit.

If you purchase the projector without the USB Wireless LAN Unit installed and need to present to the projector via a wireless connection, the optional USB Wireless LAN Unit must be installed.

Windows Vista standard functions Network Projector and Remote Desktop can be used

A Windows Vista-based computer can be operated using the projector over a network.

The projector supports the Network Projector function and the Remote Desktop function of Windows Vista.

A variety of input ports and a comprehensive array of system control interfaces

This projector supports input signals on the following ports: BNC, DVI-D, 15pin D-Sub, component, composite and S-video.

• Wall Color Correction

Built-in Wall Color Correction presets provide for adaptive color correction when projecting onto non-white screen material (or a wall).

· Six picture preset modes for user adjustable picture and color settings

Each picture preset mode can be customized and memorized according to your preference.

• Preventing unauthorized use of the projector

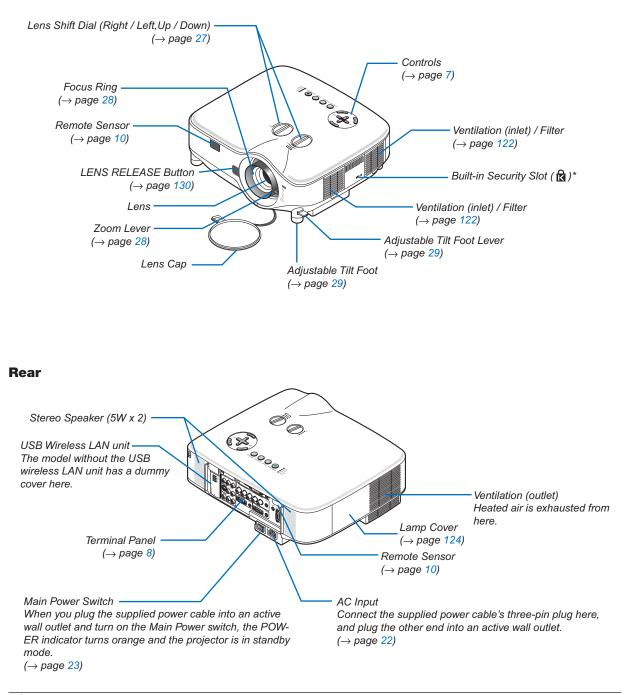
Enhanced smart security settings for password protection, cabinet control panel lock, and USB memory protection key to help prevent unauthorized access, adjustments and theft deterrence.

About this user's manual

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

O Part Names of the Projector

Front/Top



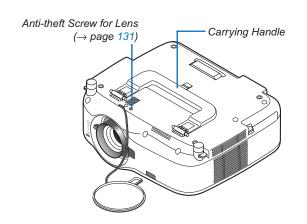
NOTE:

The USB Wireless LAN Unit emits weak radio waves when the projector is in standby^{*} mode or turned on. If you use the projector with the USB Wireless LAN Unit in the area where the use of wireless LAN equipment is prohibited, remove the USB Wireless LAN Unit from the projector. (\rightarrow page 148)

* To stop emitting radio waves from the USB Wireless LAN Unit during standby mode, select [POWER-SAVING] from [STANDBY MODE].

1. Introduction

Bottom

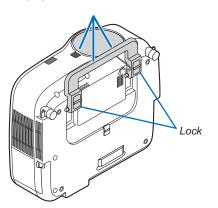


Carrying the Projector

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NOTE: To stand the projector on its end, do so by holding the cabinet, not by holding the carrying handle. Doing so can cause damage to the carrying handle.



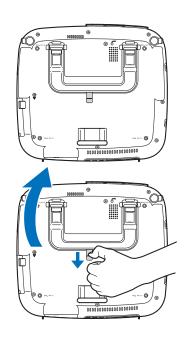
1. Introduction

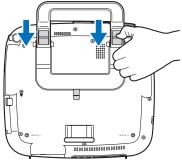
To lock the carrying handle

1. Carefully place the projector on its end.

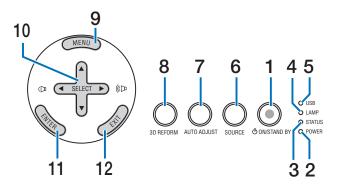
2. Pull up the carrying handle with the catch pressed down.

3. Press down the left and right locks to set the carrying handle in place.





Top Features



1. POWER Button () (ON / STAND BY) (\rightarrow page 23, 34)

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

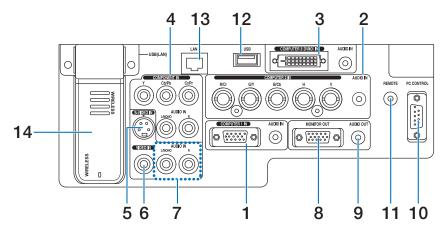
- 2. POWER Indicator (\rightarrow page 23, 34, 132)
- 3. STATUS Indicator (\rightarrow page 132)
- 4. LAMP Indicator (\rightarrow page 124, 132)
- 5. USB Indicator

NOTE: The USB indicator will not light when non-USB storage devices such as USB mouse devices are inserted.

- 6. SOURCE Button
- 7. AUTO ADJUST Button (\rightarrow page 32)
- 8. 3D REFORM Button (\rightarrow page 30, 40)
- 9. MENU Button
- 10. SELECT ▲▼◀► / Volume Buttons
- 11. ENTER Button
- 12. EXIT Button

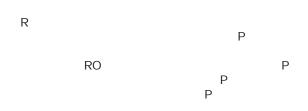
1. Introduction

Terminal Panel Features



- COMPUTER 1 IN/Component Connector (Mini D-Sub 15 Pin) (→page 14, 16) AUDIO IN (Stereo Mini Jack) (→page 14, 15, 17)
- COMPUTER 2 IN/Component (R/Cr, G/Y, B/Cb, H, V) Connectors (BNC x 5) (→page 14) AUDIO IN (Stereo Mini Jack) (→page 14)
- COMPUTER 3 (DVI-D) IN Connector (24 Pin) (HDCP compatible) (→page 15) AUDIO IN (Stereo Mini Jack) (→page 15)
- COMPONENT IN (Y, Cb/Pb, Cr/Pr) Connectors (RCA) (→page 17) AUDIO L/MONO, R (RCA) (→page 17)
- S-VIDEO IN Connector (Mini DIN 4 Pin) (→page 18)
- 6. VIDEO IN Connector (RCA) (→page 18)
- VIDEO/S-VIDEO AUDIO L/MONO, R (RCA) (→page 18)
- MONITOR OUT Connector (Mini D-Sub 15 Pin) (→page 16)

9. AUDIO OUT (Stereo Mini Jack) (→page 16)
 10. PC CONTROL Port (D-Sub 9 Pin) (→page 146, 147)



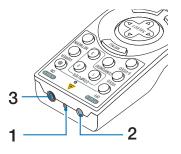
11. Remote Jack (Stereo Mini Jack) (→page 11)

NOTE: Connecting the remote cable to the REMOTE mini jack on the terminal panel will make the wireless operation unavailable.

- 12. USB Port (Type A) (→page 37)
- 13. LAN Port (RJ-45) (→page 19, 105)
- 14. USB Wireless LAN unit (→page 148)

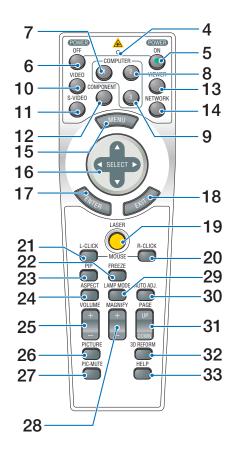
NOTE: A dummy cover is provided on this location of the projector without the USB Wireless LAN Unit.

Part Names of the Remote Control

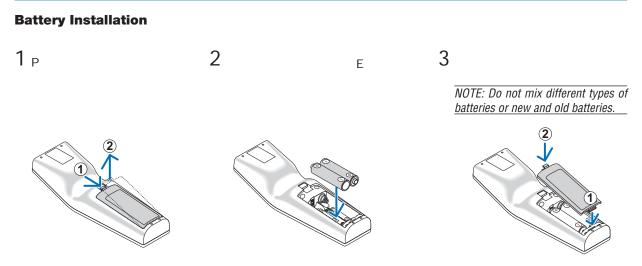


1. Laser Pointer

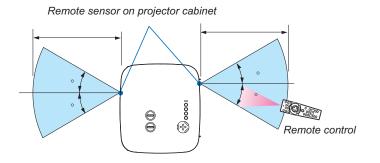
- 2. Infrared Transmitter
- 3. Remote jack (\rightarrow page 11)



- 4. LED
- POWER ON Button (→ page 23)
 NOTE: To turn on the projector, press and hold the POWER ON button for a minimum of two seconds.
- 6. POWER OFF Button (→ page 34) NOTE: To turn off the projector, press the POWER OFF button twice.
- 7. COMPUTER 1 Button (\rightarrow page 25)
- 8. COMPUTER 2 Button (\rightarrow page 25)
- 9. COMPUTER 3 Button (\rightarrow page 25)
- 10. VIDEO Button (\rightarrow page 25)
- 11. S-VIDEO Button (\rightarrow page 25)
- 12. COMPONENT Button (\rightarrow page 25)
- 13. VIEWER Button (\rightarrow page 25, 65)
- 14. NETWORK Button (\rightarrow page 25)
- 15. MENU Button
- 16. SELECT ▲▼◀► Button
- 17. ENTER Button
- 18. EXIT Button
- 19. LASER Button (\rightarrow page 33)
- 20. MOUSE R-CLICK Button (\rightarrow page 39)
- 21. MOUSE L-CLICK Button (\rightarrow page 39)
- 22. FREEZE Button (\rightarrow page 35)
- 23. PIP Button (\rightarrow page 43)
- 24. ASPECT Button (\rightarrow page 84)
- 25. VOLUME +/– Buttons (\rightarrow page 32)
- 26. PICTURE Button (\rightarrow page 79, 81)
- 27. PIC-MUTE Button (\rightarrow page 35)
- 28. MAGNIFY +/– Buttons (\rightarrow page 35)
- 29. LAMP MODE Button (\rightarrow page 36)
- 30. AUTO ADJ. Button (\rightarrow page 32)
- 31. PAGE UP/DOWN Buttons (\rightarrow page 39)
- 32. 3D REFORM Button (\rightarrow page 30, 40)
- 33. HELP Button (\rightarrow page 36)



Operating Range for Wireless Remote Control



NOTE: Actual operating range may differ slightly from that shown in the drawing.

TIP: You can determine which remote sensor on the projector is enabled in wireless mode. The options are: front, rear or both. (\rightarrow page 114)

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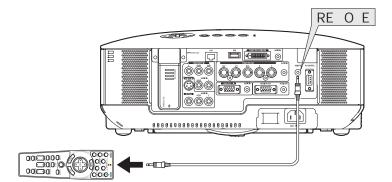
Remote Control Precautions

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Using the Remote Control in Wired Operation

RE O E

NOTE: Connecting the remote cable to the REMOTE mini jack on the terminal panel will make the wireless operation unavailable.



2. Installation and Connections

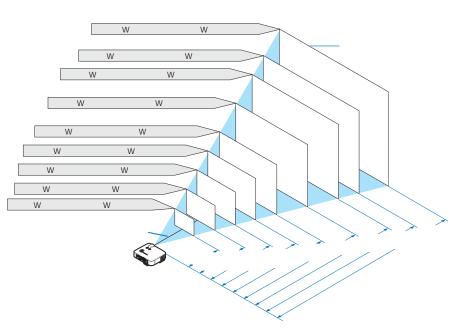


NOTE: Ensure that the power cable and any other cables are disconnected before moving the projector. When moving the projector or when it is not in use, cover the lens with the lens cap.

1

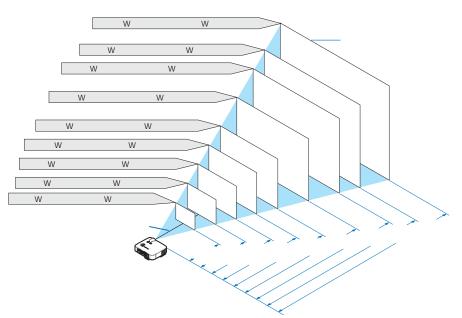
3

• Setting Up the Screen and the Projector Selecting a Location [NP3150/NP2150/NP1150]



TIP: The screen sizes above are intermediate values between tele (minimum display area) and wide (maximum display area) when the standard lens is used. Image size can be adjusted with the zoom adjustment up to a maximum of 15%. For optional lenses, see page 127.

Selecting a Location [NP3151W]



TIP: The screen sizes above are intermediate values between tele (minimum display area) and wide (maximum display area) when the standard lens is used. Image size can be adjusted with the zoom adjustment up to a maximum of 15%. For optional lenses, see page 128.

2. Installation and Connections

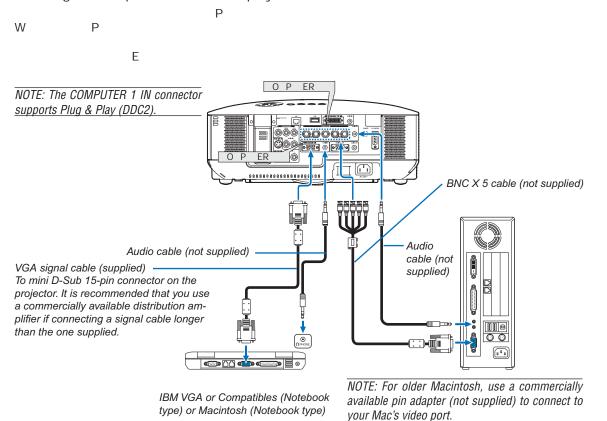
2 Making Connections

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



NOTE: The NP3150/NP2150/NP1150/NP3151W is not compatible with video decoded outputs of either the NEC ISS-6020 and ISS-6010 switchers.

NOTE: An image may not be displayed correctly when a Video or S-Video source is played back via a commercially available scan converter. This is because the projector will process a video signal as a computer signal at the default setting. In that case, do the following.

* When an image is displayed with the lower and upper black portion of the screen or a dark image is not displayed correctly: Project an image to fill the screen and then press the AUTO ADJ button on the remote control or the AUTO ADJUST button on the projector cabinet.

* When noise appears on the sides of the screen:

Use the Overscan feature to display the image correctly.

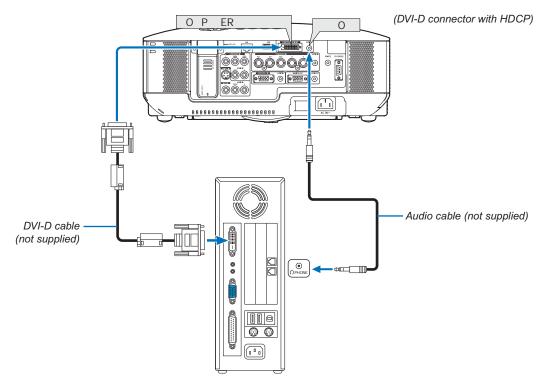
Be sure to change the Overscan to 0% before pressing the AUTO ADJ or AUTO ADJUST button, otherwise an image may be displayed with its sides cut off.

2. Installation and Connections



NOTE:

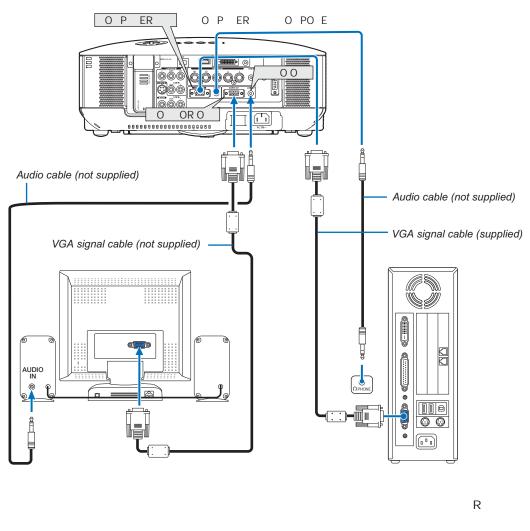
- Use a DVI-D cable compliant with DDWG (Digital Display Working Group) DVI (Digital Visual Interface) revision 1.0 standard. The DVI-D cable should be within 10 m (394") long.
- The DVI (DIGITAL) connector (COMPUTER 3 (DVI-D) IN) accepts VGA (640x480), SVGA (800x600), 1152x864, XGA (1024x768), SXGA (1280x1024 @ up to 60Hz) and SXGA+ (1400x1050 @ up to 60Hz).



IBM VGA or Compatibles or Macintosh

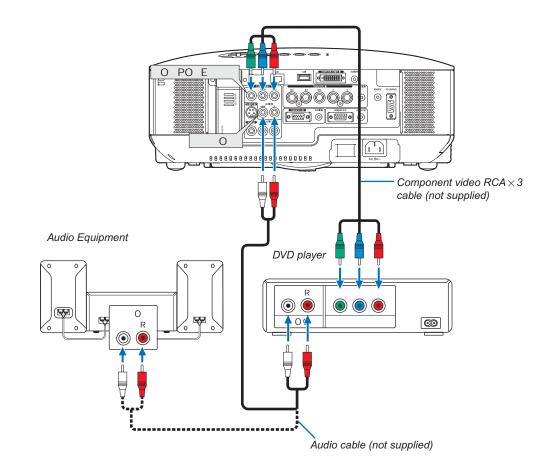
What is HDCP/HDCP technolog	jy?		
Р		Р	Р
Р			
W	Р		Р
vv	·	Р	Р

Connecting an External Monitor



NOTE:

- Daisy chain connection is not possible.
- The MONITOR OUT connector will output no video signal (Digital signal) from the COMPUTER 3 (DVI-D) IN connector.
- When audio equipment is connected, the projector speaker is disabled.
- When [NORMAL] is selected from [STANDBY MODE], the MONITOR OUT connector outputs the last displayed video signal and the AUDIO OUT jack outputs the last audio signal. The sound level remains the same as the last one.
- Selecting [POWER-SAVING] in [STANDBY MODE] stops outputting a video signal from the MONITOR OUT connector during standby mode. This causes the AUDIO OUT jack to stop outputting sound.



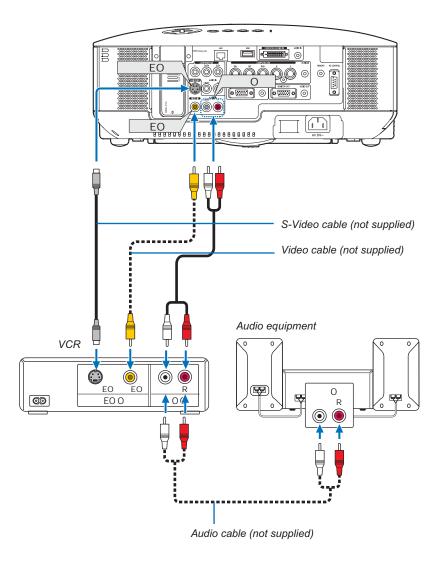
Connecting Your DVD Player with Component Output

TIP: A component signal will be automatically displayed. If not, from the menu, select [SETUP] \rightarrow [OPTIONS] \rightarrow [SIGNAL SE-LECT] \rightarrow [COMPUTER 1 (or 2)] \rightarrow [COMPONENT].

W	O P ER	R

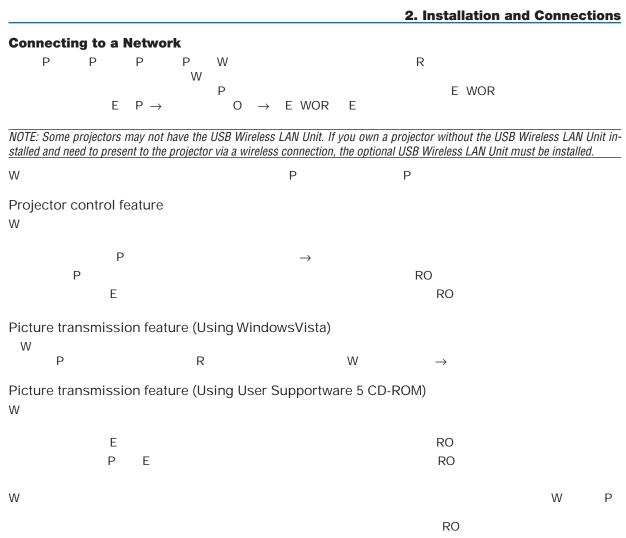
NOTE: Refer to your DVD player's owner's manual for more information about your DVD player's video output requirements.

Connecting Your VCR



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

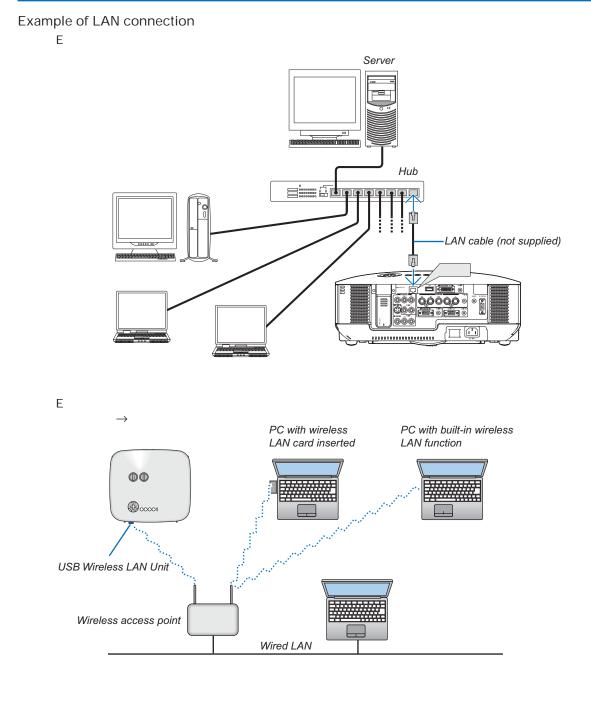
NOTE: An image may not be displayed correctly when a Video or S-Video source is played back in fast-forward or fast-rewind via a scan converter.

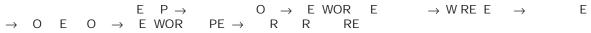


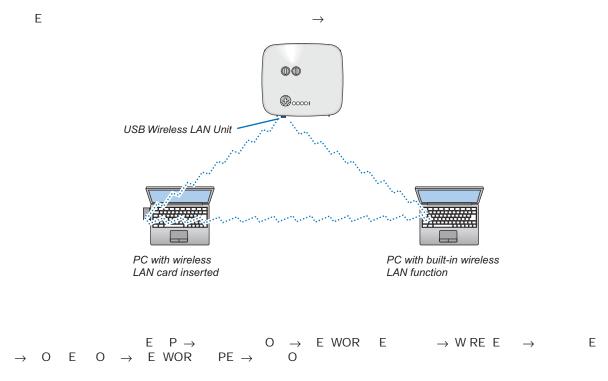
TIP: Five Windows software programs (Image Express Utility 2.0, Desktop Control Utility 1.0, Ulead Photo Explorer 8.0, Viewer PPT Converter and PC Control Utility 3.0) and a Macintosh software program (Image Express Utility 2 for Mac OS X) are contained on the supplied Projector User Supportware 5 CD-ROM. For their functions and operations, see the user's guides (PDF) contained on the same CD-ROM.

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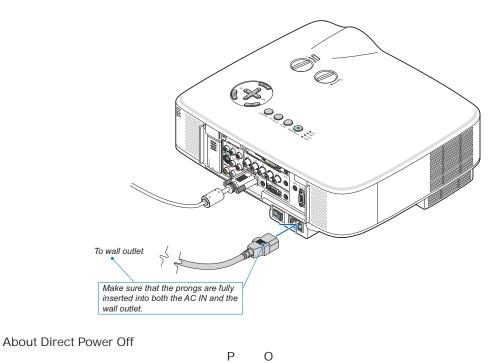








Connecting the Supplied Power Cable



NOTE: Before using Direct Power Off, be sure to allow at least 20 minutes immediately after turning on the projector and starting to display an image.

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

TIP: The projector can be unplugged during its cool down period after it is turned off.

1 Turning on the Projector

NOTE:

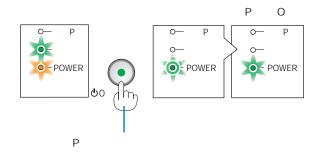
- The projector has two power switches: a main power switch and a POWER (ON/STAND BY) button (POWER ON and OFF on the remote control).
- When plugging in or unplugging the supplied power cable, make sure that the main power switch is pushed to the off (○) position. Failure to do so may cause damage to the projector.
- The projector has a feature to prevent itself from being used by unauthorized individuals. To use this feature, register a keyword. (→ page 45)
- 1. Remove the lens cap.
- 2. To turn on the main power to the projector, press the Main Power switch to the on position (1).

W

POWER

- O USB O LAMP O LAMP O STATUS O WER
- 3. After making sure that the projector is in standby mode, press the POWER (ON/STAND BY) or POWER (ON) button for a minimum of 2 seconds when the STATUS indicator goes off and the POWER indicator starts blinking.

When the POWER indicator turns a steady green, and the projector is ready to use.



 \rightarrow

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

Note on Startup screen (Menu Language Select screen)

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To select a menu language, follow these steps:

1. Use the SELECT ▼ button to select one of the 21 languages for the menu.

• 0 0 0 0 0 0	BINALI DEUTSCH FRANÇAIS ITALIANO ESPAÑOL SVENSKA 日本語	Ó.	DANSK PORTUGUËS ČEŠTINA MAGYAR POLSKI NEDERLANDS SUOMI	0000000	NOR8K TÜRKCE PVCCKIЙ 전체 EAAHNIKA 在党 한국어	DAUST SOURCE	
COLO	I:EXIT		100000000000000000000000000000000000000				
ress		TER but	ton to execu		• iseLECT		

NOTE:

- The projector cannot be turned off for 60 seconds after the lamp is turned on and while the POWER indicator is blinking green.
- If you turn on the projector immediately after the lamp is turned off or when the ambient temperature is high, the cooling fans will run for a moment and then you will get an image on the screen.
- Immediately after turning on the projector, screen flicker may occur. This is normal. Wait 3 to 5 minutes until the lamp lighting is stabilized.

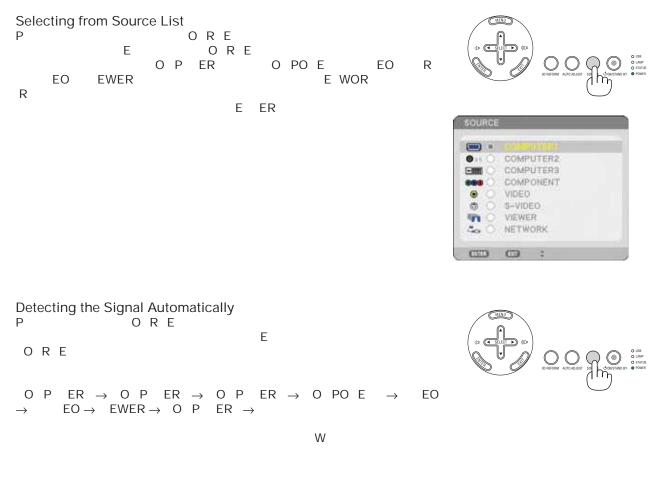
W E W →

NOTE: Turning the Main Power Switch Off then Back On

Allow a minimum of one second between turning off the main power switch and turning it back on again. The same will be applied when a power strip equipped with a switch and a breaker is used. Failing to do so could result in no power to the projector. (There will be no stand-by LED) Should this happen, unplug the power cable and plug it in again. Turn on the main power switch.

2 Selecting a Source

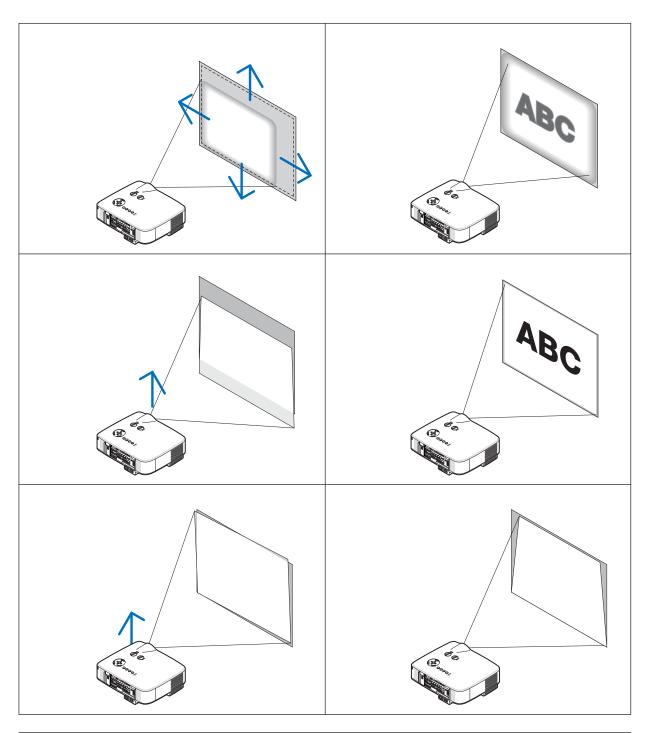
Selecting the computer or video source



Using the Remote Control P O P ER O PO E EO EO EWER E WOR



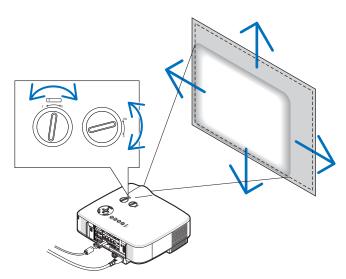
Adjusting the Picture Size and Position



NOTE*1: Adjust the throw angle (the height of an image) when the image position is higher than the lens shift adjustable range. NOTE*2: See " Correcting Keystone Distortion" on page 30 for Keystone. * In the above drawings, cables are omitted for clarity.

Adjusting the position of a projected image

• Rotate the lens shift dial.

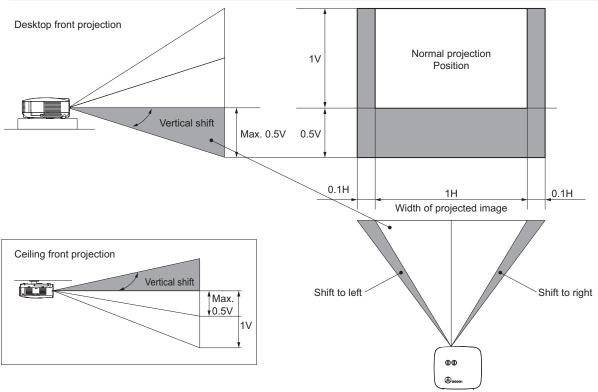


NOTE: The lens shift dial for LEFT-RIGHT cannot be rotated one-half turn or more. Do not over rotate it or it may break.

NOTE: Shifting the lens to the maximum in two directions combined will cause the edges of the image to become dark or will cause some shadows.

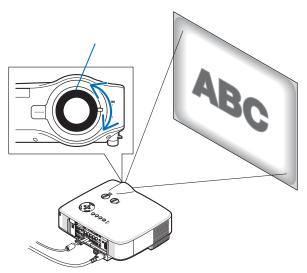
TIP: The lens shift dial for UP-DOWN can be rotated one turn or more, but not beyond the adjustable range defined below.

NOTE: Lens shift is not available with the NP01FL optional lens. The NP01FL should be used only for "zero degree" applications.



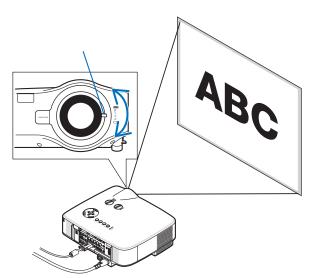
Adjusting the focus (Focus ring)

• Rotate the focus ring to make focus adjustment.



Finely adjusting the size of an image (Zoom lever)

• Rotate the zoom lever to adjust the image size on the screen.

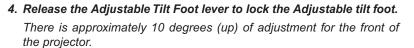


Adjusting the Tilt Foot

1. Lift the front edge of the projector.

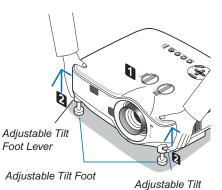
CAUTION:

- 2. Push up the Adjustable Tilt Foot Levers on the right and left sides of the projector to extend the adjustable tilt feet (maximum height).
- 3. Lower the front of the projector to the desired height.



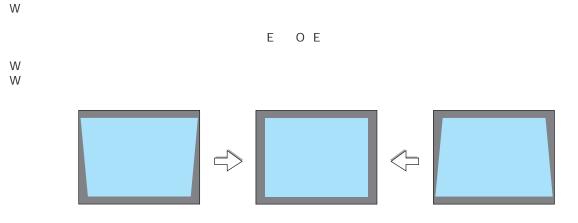
TIP: For operating the [KEYSTONE] screen, see " Correcting Keystone Distortion" on page 30.

NOTE: Your "Keystone" correction data can be reset by pressing and holding the 3D REFORM button for a minimum of 2 seconds.



Foot Lever

4 Correcting Keystone Distortion



1. Press the 3D REFORM button on the remote control or the projector cabinet.

The Keystone screen will be displayed on the screen.

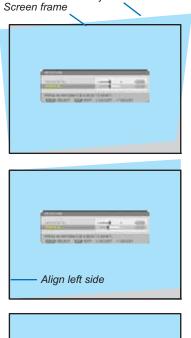
2.

A REAL PROPERTY.	-	100	-		eri
VERTICAL	1.000	-6		- 411	8

Projected area

Press the SELECT \checkmark button to select [VERTICAL] and then use the SELECT \triangleleft or \triangleright so that the left and right sides of the projected image are parallel.	
* Adjust the vertical keystone distortion.	

- 3. Align the left (or right) side of the screen with the left (or right) side of the projected image.
 - Use the shorter side of the projected image as the base.
 - In the right example, use the left side as the base.
- Press the SELECT ▲ button to select [HORIZONTAL] and then use the SELECT ◄ or ► so that the top and bottom sides of the projected image are parallel.
 - Adjust the horizontal keystone distortion.





5. Repeat steps 2 and 4 to correct keystone distortion.

6. After completing Keystone correction, press the EXIT button.

The Keystone screen will disappear.

• To perform Keystone correction again, press the 3D REFORM button to display the Keystone screen and repeat above steps 1 to 6.

NOTE:

- If the projection angle is the same as in the last use, the previous correction setting values are retained in the memory.
- When doing Step 2, adjust the position of image so that the screen is smaller than the area of the projected area.
- To reset the 3D Reform correction setting values, press and hold the 3D REFORM button for a minimum of 2 seconds.
- Each time the 3D REFORM button is pressed, the item will change as follows: KEYSTONE → CORNERSTONE → None → KEY-STONE → ...

For information on [CORNERSTONE], see "Correcting Horizontal and Vertical Keystone Distortion (Cornerstone)" on page 40.

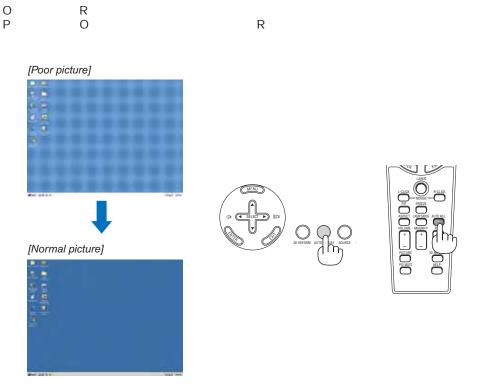
• The Cornerstone adjustment will not be available during the Keystone adjustment. To perform the Cornerstone adjustment, press and hold the 3D REFORM button for a minimum of 2 seconds to reset the Keystone correction setting values. The Keystone adjustment will not be available during the Cornerstone adjustment. To perform the Keystone adjustment, press and hold the 3D REFORM button for a minimum of 2 seconds to reset the Cornerstone correction setting values.

• The 3D Reform feature can cause an image to be slightly blurred because the correction is made electronically.



Optimizing an RGB Image Automatically

Adjusting the Image Using Auto Adjust

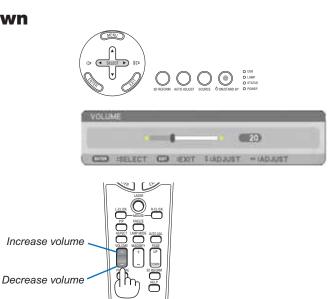


NOTE:

- Some signals may take time to display or may not be displayed correctly.
- The Auto Adjust function does not work for component, video signals.
- If the Auto Adjust operation cannot optimize the RGB signal, try to adjust Clock and Phase manually. (\rightarrow page 82)

Adjusting Volume Up & Down



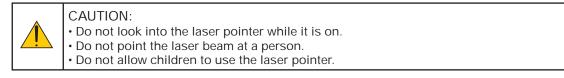


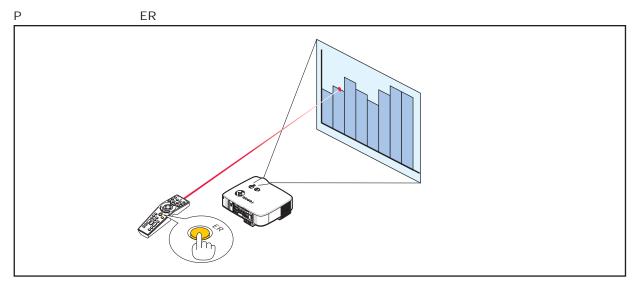
NOTE:

 Volume control is not available with the SELECT

 or ▶ button when an image is enlarged by using the MAGNIFY (+) button or when the menu is displayed.

O Using the Laser Pointer





Setting the function switch

Ο



ON Enabled (the laser lights when the LASER button is pressed) [Factory default] OFF Disabled (the laser does not light even when the LASER button is pressed)

③ Turning off the Projector

To turn off the projector:

1. Press the POWER (ON/STAND BY) button on the projector cabinet or the POWER OFF button on the remote control. The [POWER OFF / ARE YOU SURE?] message will appear.



2. Press the ENTER button

W

POWER

3. After making sure that the projector is in standby mode, turn off the Main Power switch. The power indicator will go out.

About Direct Power Off

P O

NOTE: Before using Direct Power Off, be sure to allow at least 20 minutes immediately after turning on the projector and starting to display an image.

CAUTION



TIP: The projector can be unplugged during its cool down period after it is turned off.



Preparation:

- 1. Unplug the power cable.
- 2. Disconnect any other cables.
- 3. Retract adjustable tilt feet if extended.
- 4. Cover the lens with the lens cap.

① Turning Off the Image and Sound

P P P

Ρ

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

Ρ

Ø Freezing a Picture

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REE E

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

③ Enlarging and Moving a Picture

To do so:

- 1. Press the MAGNIFY (+) button. Each time the MAGNIFY (+) button is pressed, the image is magnified.
- * Image can be magnified up to 400%

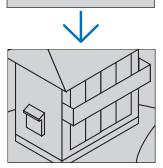
2. Press the SELECT $\blacktriangle \forall \blacktriangleleft \flat$ button.

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.















4 Changing Lamp Mode

ΕO

- 1. Press the LAMP MODE button to display [LAMP MODE] screen.
- 2. Use the SELECT \blacktriangle or \triangledown button to select [ECO] mode.

3. Press the ENTER button.

To cancel it, press the EXIT button.

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

Е



					P	LAMP MODE
OR O E					0	O ECO
ΕΟΟΕ	Р	P	Ρ	W		
	']

NOTE:

- The projector is always in [NORMAL MODE] for one minute after the lamp is turned on and while the POWER indicator is blinking green. The lamp condition will not be affected even when [LAMP MODE] is changed.
- After a lapse of one minute from when the projector displays a blue, black or logo screen, [LAMP MODE] will automatically switch to [ECO MODE].

The projector will return to the [NORMAL MODE] once a signal is accepted.



1. Press the HELP button on the remote control.

2. Use the SELECT ▲ or ▼ button to scroll the view-

W

W

ing area.



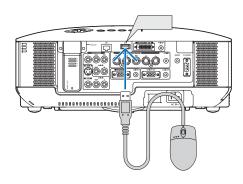
Display Help

Exit Help

3. Press the EXIT button.

6 Using a USB Mouse

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ΕV	VOR	
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00		
Е	R	E
ΕV	VOR	E
OR	ER	0



NOTE: We do not warrant that the USB port of the projector will support all USB mouse devices in the market.

NOTE: Do not try to insert the plug of your USB mouse into the LAN port (LAN) of the projector. Doing so can cause damage to the LAN port.

Operate the Menus using the USB mouse

Е

W

W

NETWORK			0 🗣 🗞 ?
IMAGE EXPRESS UTILITY	DESKTOP CONTROL UTILITY	NETWORK PROJECTOR	REMOTE DESKTOP CONNECTION
	ENTER:SELECT \$:MC	OVE	



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Е	WOR	Е			\rightarrow
0	Е				

O Using the Optional Remote Mouse Receiver (NP01MR)

Connecting the remote mouse receiver to your computer

0

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.

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

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

Operating your computer's mouse from the remote control

PAGE UP/DOWN Button	scrolls the viewing area of the window or to move to the previous or next slide in Power-
	Point on your computer.
SELECT AV A Button	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 SELECT ▲▼◀► button with the menu displayed, both the menu and the mouse pointer will be affected. Close the menu and perform the mouse operation.
- The PAGE UP and DOWN buttons do not work with PowerPoint for Macintosh.

Abou	ut Dra	ng Mode:		
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				EE AV∢►
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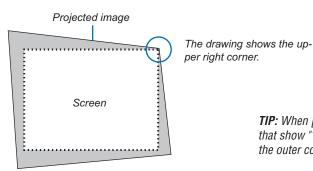
TIP: You can change the Pointer speed on the Mouse Properties dialog box on the Windows. For more information, see the user documentation or online help supplied with your computer.

Orrecting Horizontal and Vertical Keystone Distortion (Cornerstone)

R

Cornerstone

- **1.** Press and hold the 3D REFORM button for a minimum of 2 seconds to reset current adjustments. Current adjustments for [KEYSTONE] or [CORNERSTONE] will be cleared.
- 2. Project an image so that the screen is smaller than the area of the raster.
- 3. Pick up any one of the corners and align the corner of the image with a corner of the screen.



TIP: When [WIDE SCREEN] is selected from [SCREEN TYPE], lines that show "16:9" will be displayed both at the top and bottom. Click the outer corners.

4. Press the 3D REFORM button twice.

The Cornerstone adjustment screen is displayed.



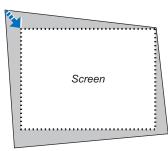


The drawing shows the upper left icon (\blacktriangleright) is selected.

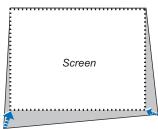
TIP: If you are adjusting [KEYSTONE], [CORNERSTONE] will not be available. If this happens, press and hold the 3D REFORM button for a minimum of 2 seconds to reset the [KEYSTONE] adjustments.

- 5. Use the SELECT ▲▼◀▶ button to select one icon (▲) which points in the direction you wish to move the projected image frame.
- 6. Press the ENTER button.

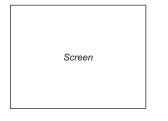
7. Use the SELECT $\blacktriangle \forall \blacklozenge \flat$ button to move the projected image frame as shown on the example.



8. Press the ENTER button.



9. Use the SELECT ▲▼ ◀► button to select another icon which points in the direction. On the Cornerstone adjustment screen, select [EXIT] or press the EXIT button on the remote control.



The confirmation screen is displayed.



- 10. Press the SELECT ◀ or ► button to highlight the [OK] and press the ENTER button.
 - RE E O

NOTE: To reset the 3D Reform correction setting values, press and hold the 3D REFORM button for a minimum of 2 seconds.

NOTE: During 3D Reform adjustment, [ASPECT RATIO] and [SCREEN] may not be available. Should this happen, first reset the 3D Reform data and then do each setting. Second repeat the 3D Reform adjustment. Changing [ASPECT RATIO] and/or [SCREEN] setting can limit [3D REFORM] in its adjustable range.

The adjustable ranges for 3D Reform are as follows:

	OR O	ER
OR ER O E		
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W		
W		
	W	

NOTE:

• If the Cornerstone screen is unavailable (grayed), press and hold the 3D REFORM button for a minimum of 2 seconds to reset the current correction data. The Cornerstone function becomes available.

• Turning on the projector will reset the previous correction setting values and correct distortion anew if the projection angle is changed from the last use.

If the projection angle is the same as in the last use, the previous correction setting values are retained in the memory.

NOTE: Using 3D Reform correction can cause the image to be slightly blurred because the correction is made electronically.

Ρ

Using Picture in Picture (PIP) Function

РРР

From the menu you can select [SETUP] \rightarrow [BASIC] \rightarrow [PIP].

KEYSTONE CORNERSTONE		
nin .	10000	
WALL COLOR LAMP MODE OFF TIMER TOOLS	OFF NORMAL OFF	
LOGOFF	ENGLISH	

NOTE:

- Adjusting for picture and sound is available for the main picture only.
- To turn on PIP mode while in Picture Mute or Freeze, Picture Mute and Freeze will be applied simultaneously to both the main and sub pictures.
- The main picture signal supports the COMPUTER 1 and 2 inputs. The sub picture signal supports the VIDEO input only.

PIP POSITION



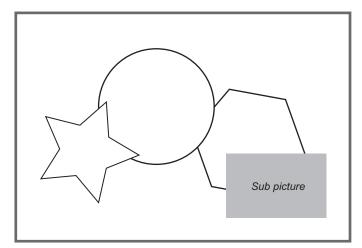
• The default setting is [BOTTOM-RIGHT].

Viewing a sub picture in the main picture

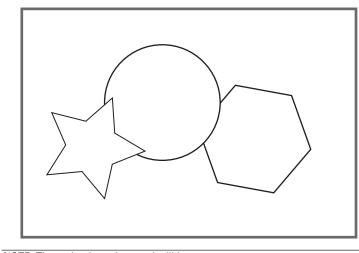
ΡΡ

1. Press the PIP button on the remote control.

The sub picture will be displayed in the main picture.



2. Press the PIP button again to display the main picture only.



NOTE: The main picture's sound will be output.

() Preventing Unauthorized Use of the Projector

Turning on the Security function by assigning a keyword for the first time

- 1. Press the MENU button.
 - The menu will be displayed.



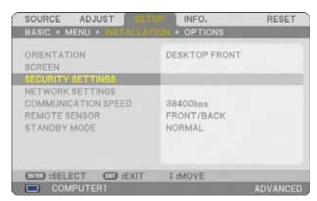
2. Press the SELECT ► button to highlight the [SETUP] submenu and press the ENTER button. The page tab [BASIC] will be highlighted.

RESET	INFO.	SOURCE ADJUST denu SASIC MENU INSTALLATI
	OFF NORMAL OFF ENGLISH	KEYSTONE CORNERSTONE PIP WALL COLOR LAMP MODE DFF TIMER TOOLS LOGOFF LANGUAGE
+ :MOVE	\$:MOVE	SELECT CD :EXIT
		COMPUTER1

3. Press the SELECT ▶ button twice to highlight the page tab [INSTALLATION].



4. Press the SELECT ▼ button three times to highlight [SECURITY SETTINGS].



5. Press the ENTER button to display the SECURITY SETTINGS menu.

SECURITY SETTINGS		\$73 E
CONTROL PANEL LOCK	OFF	
	SETTINGS	
BACKGROUND LOCK	OFF	
	ENTER PASSWORD	
ACCOUNT LOCK	OFF	
	SET ON	
ACCOUNT	SETTINGS	
SECURITY	OFF	
	SETTINGS	
PJLink	OFF	
	ENTER PASSWORD	

6. Press the SELECT ▼ button four times to highlight [SECURITY-SETTINGS] and press the ENTER button. The Security screen will be displayed.

SECURITY	? ⊠`
OFF OFF ON KEYWORD USE PROTECT KEY DRIVE	USB 1 READ REGISTER
	OK CANCEL
ENTER:SELECT	EXIT ::MOVE

7. Press the SELECT ▼ button once to highlight the Keyword entry box and press the ENTER button. The Software keyboard will be displayed.

8. Enter an alphanumeric keyword using the Software keyboard. For example, to enter "1234", follow the steps 8-1 to 8-4 below.

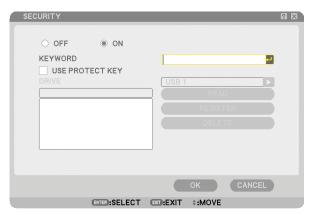


NOTE:

- When using your USB mouse, click each number or alphabet. BS: Delete the character before the cursor or highlight.
- *Confirm the keyword and close the Software keyboard.*
- The keyword must be 1 to 10 characters long.
- Please make a note of your keyword.

Enter a keyword by using the remote control.

- 8-1. Press the MENU button and the AUTO.ADJ. button to enter "1". The asterisk "*" will be displayed in the keyword entry box.
- 8-2. Press the MENU button and the SELECT ▲ button to enter "2". The asterisk "** " will be displayed in the keyword entry box.
- 8-3. Press the MENU button and the SELECT ▼ button to enter "3". The asterisk "*** " will be displayed in the keyword entry box.
- 8-4. Press the MENU button and the SELECT ▶ button to enter "4". The asterisk "*****" will be displayed in the keyword entry box.
- 8-5. Press the ENTER button.
- 9. Press the SELECT ▲ button once to highlight [OFF] and press the SELECT ▶ button to highlight [ON].



10. Press the SELECT ▼ button to highlight [OK] and press the ENTER button. The confirmation screen will be displayed.



11. Press the SELECT ◀ or ► button to highlight [YES] and press the ENTER button. The Security Function will take effect when the projector is turned on next time.

Checking If Security is enabled

1. Press the POWER (ON/STANDBY) button.

The [POWER OFF / ARE YOU SURE?] message will appear. Press the ENTER button or the POWER (ON/STANDBY) or the POWER OFF button again. The lamp lights off and the POWER indicator flashes orange. Please wait until the POWER indicator changes from flashing to steady light.

- 2. When the POWER indicator lights steady orange, push the Main POWER switch to the off position (O). The projector will turn off.
- 3. Push the Main POWER switch to the on position (I).

The POWER indicator lights orange. The projector is in standby condition.

4. Press and hold the POWER (ON/STANDBY) button for a minimum of two seconds.

The projector will turn on. The [PROJECTOR IS LOCKED! ENTER YOUR KEYWORD.] message will be displayed at the bottom of the screen.

5. Press the MENU button.

The Keyword entry screen will be displayed



6. Press the ENTER button.

The Software keyboard will be displayed.

7. Use the same procedures as steps 1 to 8 described in the "Assigning a Keyword for the first time" section to enter "1234".

Each time one number is entered, an "*" (asterisk) will appear. Keyword appears as asterisks so the real keyword is hidden.

8. After entering your keyword, highlight [OK] and press the ENTER button.

The Software keyboard will disappear. This will allow you to operate the projector.

Disabling the Security

1. Press the MENU button.

The menu will be displayed.

NOTE: Immediately after the projector has been turned on and the "Projector is locked! Enter your keyword." message is displayed at the bottom of the screen, pressing the MENU button will display the Keyword entry will be displayed. At this time, pressing the MENU button will display the menu.

2. Press the SELECT > button to highlight [SETUP] and press the ENTER button.

The page tab [BASIC] will be highlighted.

- 3. Press the SELECT ► button twice to highlight the page tab [INSTALLATION].
- 4. Press the SELECT ▼ button three times to highlight [SECURITY SETTINGS] and press the ENTER button.
- 5. Press the SELECT ▼ button four times to highlight [SECURITY] [SETTINGS] and press the ENTER button.

The Keyword entry screen will be displayed

SECURITY KEYWORD	? 🛛
LD0K-K9AL-1NE7-K105-3VA6-E9V0	
OK CANCEL	
ENTER:SELECT ETT:EXIT #:MOVE	

6. Press the ENTER button.

The Software keyboard will be displayed.

7. Use the same procedures as steps 1 to 8 described in the "Assigning a Keyword for the first time" section to enter "1234".

Each time one number is entered, an "*" (asterisk) will appear. Keyword appears as asterisks so the real keyword is hidden.

8. After entering your keyword, highlight [OK] and press the ENTER button.

The Software keyboard will disappear. The Security screen will be displayed.

9. Highlight [ON] and press the SELECT < button to highlight [OFF].

10.Press the SELECT ▼ button to highlight [OK] and press the ENTER button.

The Security Function will be disabled when the projector is turned on next time.

NOTE: Do not forget your keyword. However, if you forget your keyword, NEC or your dealer will provide you with your Release Code upon proof of ownership.

Limiting Access Level to Available Menu Items

E						
ADVANCED menu This is the menu that contains all the available menus and commands. Users with an ADMINISTRATOR or ADVANCED account can access the ADVANCED menu.						
BASIC menu This is the basic menu that contains minimum essentials of menus and commands. Users with a BASIC account can access the BASIC menu.						
E						
NOTE: • A user with an ADMINISTRATOR account that has no password set is registered at the factory. This will allow the user to access the ACCOUNT items without password entry.						
Logging On						
W O O						
NOTE: If one user logs on to the projector, any other user cannot log on.						
1. Enter a user name.						

2. Enter the registered password if you have it.

3. Select [OK].

NOTE: Do not forget your password. If you forget your password, ask your administrator. If your administrator forget the password, ask NEC or your dealer. NEC or your dealer will provide you with your Release Code (24 character length) upon proof of ownership.

Logging Off

1. From the menu, select [SETUP] \rightarrow [BASIC] \rightarrow [LOGOFF].

2. Select [YES].

Creating or Adding a User

- 1. From the menu, select [SETUP] \rightarrow [INSTALLATION] \rightarrow [SECURITY SETTINGS].
- 2. Select [ACCOUNT]-[SETTINGS].

The [ACCOUNT] setting screen will be displayed.

	ACCOUNT						?	×
С	URRENT US	ER	ADN	INISTRATO	R			
I.	ENABLE	USER NAME			R TYPE		 CREATE	
E.	~	ADMINISTRAT USER1	OR	BAS	MINISTRAT	OR	 EDIT	
	~	USER2		BAS				
				EXT:EXIT	\$:MOVE	.MOVE		
			ENTEREDIT	EXT:EXIT	\$:MOVE	.MOVE		

3. Select [CREATE].

The [ACCOUNT] create screen will be displayed.

CREATE	? 🛛				
USER NAME USER TYPE PASSWORD NEW PASSWORD CONFIRM PASSWORD	ADVANCED				
MAKE A NOTE OF YOUR PASSWORD.					
	OK CANCEL				
ENTER:SELECT	EXIT \$:MOVE				

4. Enter a user name, user type, and password.

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EW P WOR

A password must be 10 alphanumeric characters or less. If no password is set, the user is registered without a password.

O R P WOR

5. Place a checkmark on [ENABLE].

The account will be made available.

6. Select [OK].

This will complete adding a user.

NOTE: Up to 12 user names can be created.

Editing a User (Changing Account Settings)

1. From the menu, select [SETUP] \rightarrow [INSTALLATION] \rightarrow [SECURITY SETTINGS].

NOTE: A user with an ADMINISTRATOR account is recommended to change the account settings.

2. Select [ACCOUNT]-[SETTINGS].

The [ACCOUNT] setting screen will be displayed.

3. Select a user name you wish to edit.

4. Select [EDIT].

The [EDIT] screen will be displayed. Enter your password and press the ENTER button. If no password is set, simply press the ENTER button without entering any password.

5. Change the settings and select [OK].

Deleting a User

1. From the menu, select [SETUP] \rightarrow [INSTALLATION] \rightarrow [SECURITY SETTINGS].

NOTE: A user with an ADMINISTRATOR account is recommended to delete the account settings.

2. Select [ACCOUNT]-[SETTINGS].

The [ACCOUNT] setting screen will be displayed.

3. Select a user name you wish to delete.

4. Select [DELETE].

The [DELETE] screen will be displayed. Enter your password and press the ENTER button. The confirmation screen will be displayed.

5. Select [YES].

This will complete deleting the user.

NOTE: Do not forget your password. If you forget your password, ask your administrator. If your administrator forget the password, ask NEC or your dealer. NEC or your dealer will provide you with your Release Code (24 character length) upon proof of ownership.

Operation Using an HTTP Browser

Overview



NOTE:

• 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.

• Do not use the HTTP Server functions and PC Control Utility 3.0 included on the supplied CD-ROM. Using both at the same time may result in a connection failure or slow response.

Preparation Before Use

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0

Handling of the Address for Operation via a Browser



R

Structure of the HTTP Server



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POWER

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0 ▲ ▼	E	
P P 0 0 0	E RE O RE O O O O O	
P R 0 0 0 0	RE E R R OR OR OR R R R R R R R R R R R	

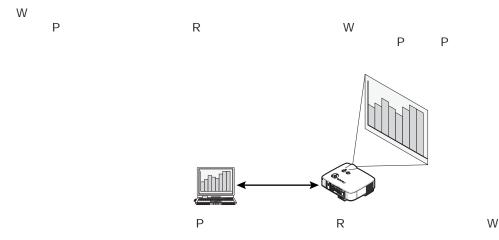
 \rightarrow

O R E E E O P ER O P ER O P ER O PO E EO EWER E WOR PRO E OR P E RE P O R E ER O R E

ERROR

0 P ER 0 P ER 0 P ER 0 P0 E E0 E0

Projecting Your Computer's Screen Image from the Projector via a Network [NETWORK PROJECTOR]



Operation Environment

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W			
W			
W E			
Note) These functions are not available on Windows Vista Home Basic.			
W			
W PP			

Setting the Projector to Network Projector Input Mode

1. With the projector turned on, press the SOURCE button.

The input selection window appears.

Another way to display the input selection window is to press the NETWORK button on the remote control. The NETWORK screen will be displayed. Go to step 3.



2. Press the SELECT ▼ or ▲ button to select [NETWORK] and press the ENTER button. In the screen, the [NETWORK] menu is displayed.



3. From the [NETWORK] menu, select [NETWORK PROJECTOR].

The [PROJECTOR NAME/DISPLAY RESOLUTION/PASSWORD/URL] will be displayed.

NETWORK PROJECTOR				
PROJECTOR NAME DISPLAY RESOLUTION	NP3150 Series 1024 X 768 PIXEL			
PASSWORD	1238 CHAN	IGE		
WIRED LAN URL	http://102.008.0.18.000			
WIRELESS LAN URL	http://162.068.0.18.0em			
PLEASE SET UP YOUR COMPUTER USING THIS INFORMATION.				
	ENTER:SELECT EXT:EXIT			

TIP:

• To change the default password "1234", select [CHANGE] and press the ENTER button.

The [ENTER PASSWORD] screen will be displayed, Enter a numeric password. The password must be eight characters or less. The changed password stored in the projector will be displayed in the [NETWORK PROJECTOR] screen next time.

Changing the resolution of Windows Vista screen to the information on [DISPLAY RESOLUTION] in the NETWORK PROJECTOR screen.

1. Click [Start] from the desktop of Windows Vista.

- 2. Click [Control Panel].
- 3. Click [Adjust screen resolution] displayed under [Appearance and Personalization].

4. Operate [Resolution] slide bar to change the resolution to the resolution displayed on [DISPLAY RESO-LUTION] in the NETWORK PROJECTOR screen.



5. Click [OK].

The message "Do you keep this screen setting?" is displayed.

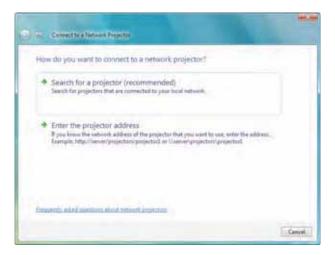
6. Click [Yes].

The resolution of Windows Vista screen is changed to the resolution displayed on [DISPLAY RESOLUTION] in the NETWORK PROJECTOR screen.

Projecting the Image with Network Projector

- 1. Click [Start] from the desktop of Windows Vista.
- 2. Click [All Programs].
- 3. Click [Accessories].
- 4. Click [Connect to a Network Projector].

When the [Permission Connect to a Network Projector] window appears, click [Yes.]. The "Connect to a Network Projector" window appears.



5. Click [\rightarrow Search for a projector (recommended)].

In the "Available projectors" box, "NP3150 Series" is displayed.

6. Click [NP3150 Series].

The message "Enter the password for the projector that you selected." is displayed at the bottom of the window.

4. Convenient Features

- 7. Check the password displayed in the screen projected by the projector.
- 8. Input the password to the password input box displayed by the operation at Step 7.

Connect to a Network	Primitis		
Select a network proje	142		-
and a second state.	CLARIT .		
Available projectors			
APS150 Series			
	INCOME CONTRACTOR		_
	Number of projectors found 1	Search	
		-	
even	rejector that you selected.		

9. Click [Connect].

The network projector function works and the screen of Windows Vista is projected from the projector.

NOTE: When the network projector function works, the background color of the desktop changes to black. When the network projector function is stopped, the original background color is restored.

Reference: If the projector cannot be found at Step 5, click [\rightarrow Enter the projector address]. Then, input the "Network address" (Input example: http://10.32.97.61/lan) and "Projectorpassword" (Input example: 82291627) displayed in the screen projected from the projector.

Exiting the Network Projector Operation

1. Click [Projecting: NP3150 Series] in the Windows Vista task bar.



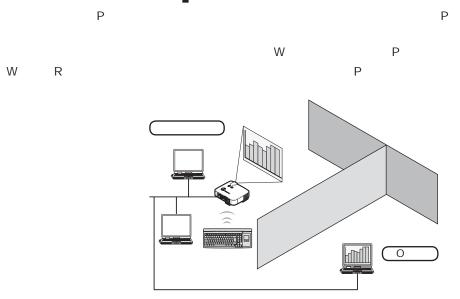
2. Click [Disconnect].

The Network Projector function is stopped.



3. Press the MENU button of the projector to display the menu. From the menu, select an input terminal other than [NETWORK].

Our Computer via a Network [REMOTE DESKTOP]



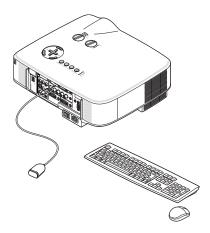
NOTE:

- Available versions of Windows Vista are provided on page 56.
- In this user's manual this feature is described using Windows Vista as an example, but Windows XP will also work with this feature.
- Windows XP Professional Service Pack 2 or later
- A keyboard is required to use the Remote Desktop function.
- The Remote Desktop function can be operated with a keyboard only. Using a wireless mouse with a wireless keyboard is more useful for operating.

Use a commercially available wireless keyboard, a wireless mouse, and a USB wireless receiver.

Ρ

NOTE: We do not warrant that the USB port of the projector will support all USB devices in the market.



Setting the password to the user account of Windows Vista

- TIP: If a password has been set for an account, the steps 1 to 9 can be skipped.
- 1. Click [Start] from the desktop of Windows Vista.
- 2. Click [Control Panel].
- 3. Click [Add or remove user accounts] displayed under [User Accounts].
- 4. When the [User Account Control] confirmation window appears, click [Continue].
- 5. Click [Administrator].
- 6. Click [Create a password].
- 7. Input the password to the [New password] box.
- 8. Input the same password as that at Step 7 to the [Confirm new password] box.
- 9. Click [Create a password].

The Administrator is changed to [Password Protection].

Setting the Remote Access

- 1. Click [Start] from the desktop of Windows Vista.
- 2. Click [Control Panel].
- 3. Click [System and Maintenance].
- 4. Click [Allow remote access] displayed under [System].
- 5. When the [User Account Control] confirmation window appears, click [Continue]. The [System Properties] window appears.
- 6. Click [Allow connections from computers running any version of Remote Desktop (less secure)] in the Remote Desktop box and click [OK].



Checking the IP address on Windows Vista

- 1. Click [Start] from the desktop of Windows Vista.
- 2. Click [Control Panel].
- 3. Click [View network status and tasks] displayed under [Network and Internet].

4. Click [View status] displayed in blue on the right of [Local Area Connection] in the window. The [Local Area Connection Status] window appears.

1		
Pv4 Cornection	and a second	100
P-6 Correct		Linker
Media State:		Enabled
Duration		00.00 36
lipeed:		200.0 Mites
Cetala	£	
the party of the	1	
dirty.	_	
ich ity		- Tener
ich-ty Bytte:	Set 👫	- 440-44 -91.00

5. Click [Details...].

Write down the value for "IPv4 IP Address" (xxx.xxx.xxx) displayed.



- 6. Click [Close].
- 7. Click [X] at the upper right of the window.

The system goes back to the desktop.

Starting the Remote Desktop

1. With the projector turned on, press the SOURCE button.

The input selection window appears.

Another way to display the input selection window is to press the NETWORK button on the remote control. The NETWORK screen will be displayed. Go to step 3.

0	COMPLETERS	
010.0	COMPUTER2	
- m	COMPUTER3	
888 (COMPONENT	
	VIDEO	
0.0	S-VIDEO	
-	VIEWER	
11		
200	NETWORK	

2. Press the SELECT ▼ or ▲ button to select [NETWORK] and press the ENTER button. The [NETWORK] menu will be displayed.

NETWORK			0 💀 🗞 ?
	U.S.		
IMAGE EXPRESS UTILITY	DESKTOP CONTROL UTILITY	NETWORK PROJECTOR	REMOTE DESKTOP CONNECTION
	(ENTER):SELECT \$:M	OVE ⊪:MOVE	

3. From the [NETWORK] menu, use the wireless keyboard to select [REMOTE DESKTOP CONNECTION]. The [Remote Desktop Connection] window appears.

COMPUTER COMPUTER CONNECT CANCEL

TIP:

Setting [OPTIONS] in REMOTE DESKTOP

Clicking [OPTIONS] displays the [PERFORMANCE] screen.

Making settings to [OPTIONS] will allow you to display the desktop background, or to enable the window animation function during the Remote Desktop operation. However, doing this will cause the display's or mouse's response to slow down. If the display's or mouse's response is slowed down, try one or more of the following:

Е	OP		RO				
Е		W	OW		0		
Е	E						
OW	0	Е	0	W	OW W	Е	R

4. Operate the wireless keyboard to input the IP address of Windows Vista and click [CONNECT]. The log-on screen of Windows Vista is displayed in the screen projected by the projector.

5. Operate the wireless keyboard to input the user's password and press [Enter].

The remote desktop function is started.

Windows Vista desktop is displayed in the screen projected by the projector.

Log out the computer.

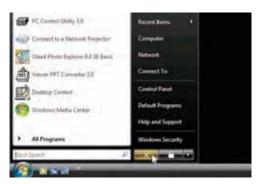
Use the wireless keyboard connected to the projector to operate Windows Vista.

NOTE: When the projection is made with the remote desktop function, the background color of the desktop is changed to black.

4. Convenient Features

Exiting the Remote Desktop

1. Operate the wireless keyboard to click [Start] from the desktop screen projected by the projector.



- **2.** Click [X] on the right of the start menu. The remote desktop function is stopped.
- **3.** Press the SOURCE button of the projector to select an input terminal other than [NETWORK]. When using the remote control, press a button other than the NETWORK button.

5. Using the Viewer

1 Making the Most out of the Viewer Function

Features

Easy to use

- Ρ
- Е
- R

Simple utility software (for computer)

P E E

TIP:

 To use the Viewer, first you need to create presentation materials on your PC (JPEG, BMP, GIF^{*1}, PNG^{*1}, Index^{*2} files). For creating presentation materials using the Ulead Photo Explorer 8.0, see the supplied "User Supportware 5 User's Guide" or On-line help in Ulead Photo Explorer 8.0.

Е

*¹Both PNG and GIF format support non-interlaced images only.

*² "Index" file is a file created using the Ulead Photo Explorer 8.0 contained on the supplied NEC User Supportware 5 CD-ROM. See the supplied "User Supportware 5 User's Guide" for installing the Ulead Photo Explorer 8.0 on your computer.

NOTE:

• Use commercially available USB memory devices.

• We do not warrant that the USB port of the projector will support all USB memory devices in the market.

• The projector does not support NTFS formatted USB memory device. Be sure to use a USB memory device formatted with the FAT32, FAT16 or FAT file system. To format your USB memory device in your computer, refer to the document or help file that comes with your Windows.

O Saving data to a USB memory device

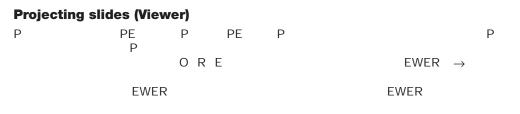
Using Ulead Photo Explorer 8.0



Using Windows Explorer to save files

PE PP

③ Operating the Viewer Function from the Projector (playback)



Operating Viewer Menu

- 1. Insert a USB memory into the USB port of the projector. The USB indicator lights.
- 2. Press the VIEWER button on the remote control or select the [VIEWER] from the source list. An image stored in the USB memory will be displayed.

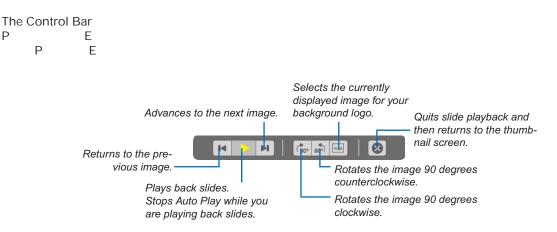
NOTE: When [SHOW THUMBNAILS] is turned on in the OPTIONS menu, the thumbnail screen will be displayed. (\rightarrow page 68)

NOTE: Pressing the EXIT button during slide playback will display the thumbnail screen.

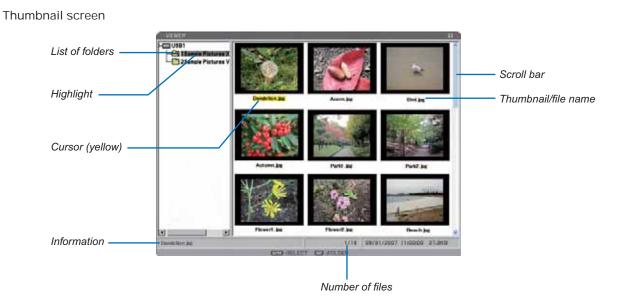
Slide and Thumbnail W EWER O



TIP: To switch from [SLIDE] to [THUMBNAILS], press the EXIT button.



5. Using the Viewer



Highlight	Indicates the selected folder or drive.
List of folders	Indicates folders contained on a USB memory.
Information	Indicates information of the selected file or folder.
	Folder: folder name, number of files, creation date (month/day/year), creation time (hour:minute: second).
	File: file name, slide number/number of displayable slides in a folder, creation date (month/day/ year), creation time (hour:minute:second), file size.
Number of files	Indicates number of displayable slides in the selected folder. The maximum number of images recognized as slides within one directory is about 250.
Thumbnail/file name	Indicates thumbnails and names contained in a folder.
Cursor	Indicates the selected slide.
Scroll bar	Used to view folders or files not visible in the window.

Setting Option for Viewer

OFTIONS		11 0
PLAY MODE		
MANU	AL CONTRACT	
INTERVAL	(+)+ \$SECOND	
START D SLIDE EHOW THUME	* THUMENALS	
* OFF	O ON	
SORT	NAME (ABC)	
		39
	EXIT INMOVE	

P Ο Ε

	MANUAL Views a slide man AUTO Plays back slides a				ted.				
	ER								
	R								
	OW								0
	Ο								
	R								
	NOTE: This setting is not available for *Folders created with the "Output View		xplore	r 8.0 or w	ith V	iewer P	PŢ	Converter 3.0	
0	0	0			E	ER			
	0 0	0		E	E	ER		ER	
Tŀ	IUMBNAILS menu								
		E	E						
	PLAY LOGO OPTIONS								

Play...... Plays back automatically or manually depending on the setting in Options. This allows you to move on to the next slide when [MANUAL] is selected in the [PLAY MODE].

Logo Replace the default background logo with another logo in JPEG, BMP, non-interlaced GIF or non-interlaced PNG format.

Options Displays the Viewer setting options.

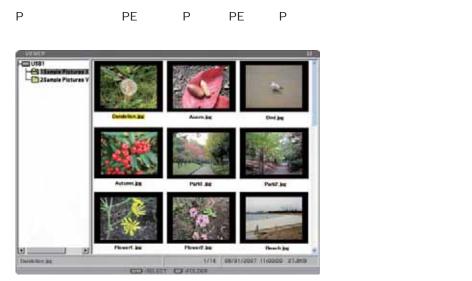
									5	. Using	the Viewer
Exi	Exiting Viewer										
	E WOR										
	Р	ΟΡ	ER	ΟΡ	ER	ΟP	ER	Ο ΡΟ Ε	EO	EO	E WOR
W	Ρ	E					ΟR	E	P R	Е	
E	W								IX.		R EWER

NOTE: Even if you switch the current Viewer source to another source, the current slide is retained. When you return back to the Viewer, you will get the slide that has been retained.

Ρ

Changing Background Logo

NOTE: File size must be 256KB or less. Maximum file resolution is 1024 x 768 for NP3150/NP2150/NP1150 and 1280 x 800 for NP3151W. File formats other than JPEG, BMP, non-interlaced GIF or non-interlaced PNG are not available.

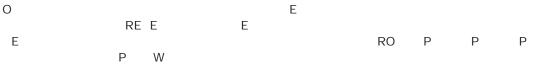


NOTE: To change highlight from the Thumbnails screen (right window) to a directory tree (left window), press the EXIT button. To return highlight to the Thumbnails screen, press the ENTER button.

- 1. Use the SELECT ▲▼◀▶ button to select a file (slide) for your background logo when displaying the Thumbnail screen.
- 2. Press the MENU button to display the THUMBNAILS menu.



- 3. Use the SELECT ▼ button to select [LOGO] and then press the ENTER button. A confirmation dialog box will be displayed.



6. Using On-Screen Menu

O Using the Menus

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

MODE PRESET		STANDARD 1:HIGH-BRIGHT	(*)*)
CONTRAST	R.		- 64
BRIGHTNESS			64
COLOR			32
HUE RESET			× 32

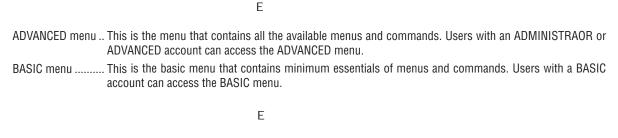
NOTE: The commands such as <>. ENTER, EXIT in the bottom show available buttons for your operation.

- 2. Press the SELECT <> 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 SELECT ▲▼ buttons on the remote control or the projector cabinet to select the item you want to adjust or set.
 You can use the SELECT ◀▶ 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 SELECT ▲▼◀► buttons on the remote control or the projector cabinet.
- 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.

8. Press the MENU button to close the menu. To return to the previous menu, press the EXIT button.

Using ADVANCED menu and BASIC menu



NOTE:

• A user with an ADMINISTRATOR account that has no password set is registered at the factory. This will allow the user to access the ACCOUNT items without password entry.

 When using your USB mouse, click each number or alphabet. BS: Delete the character before the cursor or highlight. OK/[=]: Confirm the keyword and close the Software keyboard.

Entering alphanumeric characters by using Software Keyboard

[IP ADDRESS, PASSWORD]

23456	7890
SP	BS <>
OK	CANCEL

[USER NAME, PROJECTOR NAME] 1234567890 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z @ . - _ MODE SP BS << >> HEX OK CANCEL [PASSWORD OR KEYWORD]



1 to 0 and Characters

- Use to type in password or keyword.
- MODE Selects one of three modes for numbers, alphabet and special characters.
- SP..... Inserts a space
- BS..... Deletes one character backward
- << Returns to the previous
- >> Advances to the next
- OK..... Executes the selection
- CANCEL Cancels the selection

When using the remote control:

Press the MENU, AUTO ADJ, SELECT ▲, SELECT ▼, SELECT ► or SELECT ◄ button to select a character in the row.

Example: To enter "C", press the SELECT \blacktriangle button.

Press the MENU, AUTO ADJ, SELECT ▲, SELECT ▼, SELECT ► or SELECT ◄ button to select a character in the column.

Example: To enter "C", press the MENU button.

	EXIT	Deletes	a cha	racter.			
	ENTER	Makes	your	input	take	effect	and
closes the input screen.							

When using the mouse:

Ρ

[BS] Deletes a character.

[] Makes your input take effect and closes the input screen.

Ø Menu tree

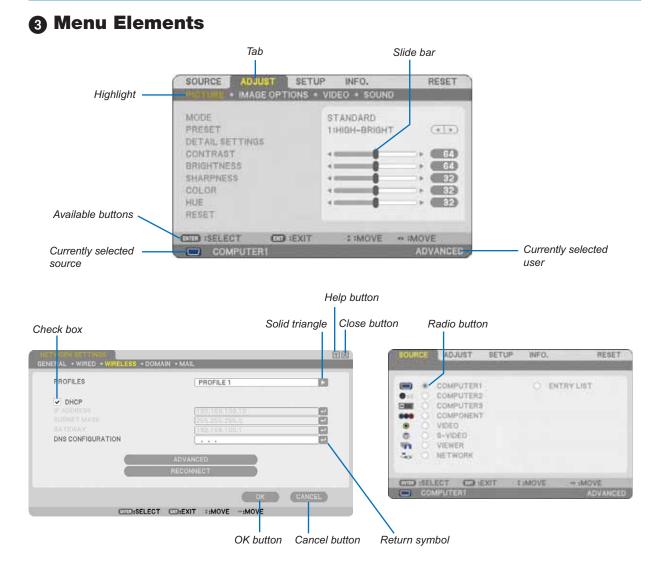
Menu		ltem						
SOURCE		COMPUTER 1, COMP	UTER 2, COMPUTEF	3, COMPON	IENT, VIDEO, S-VII	DEO, VIEWER, NETWORK, ENTRY LIST		
ADJUST	PICTURE	MODE	STANDARD, F	PROFESSION	IAL			
		PRESET	1 to 6					
			DETAIL SETTINGS	GENERAL	REFERENCE	HIGH-BRIGHT, PRESENTATION, VIDEO,		
						MOVIE, GRAPHIC, sRGB		
					GAMMA CORRECTIO	N DYNAMIC, NATURAL, BLACK DETAIL		
					COLOR TEMPERATU	RE 5000, 6500, 7800, 8500, 9300, 10500		
				WHITE BALANCI	E	CONTRAST RGB, BRIGHTNESS RGE		
		CONTRAST				·		
		BRIGHTNESS						
		SHARPNESS						
		COLOR						
		HUE						
		RESET						
	IMAGE OPTIONS							
		PHASE						
		HORIZONTAL POSITI	ON					
		VERTICAL POSITION						
		OVERSCAN	0%, 5%, 10%					
		ASPECT RATIO	RGB		16:9, 16:10, 15:9)		
			4:3 SCREEN (CO			, LETTERBOX, WIDE SCREEN, ZOOM		
			WIDE SCREEN (,		WINDOW, LETTERBOX, WIDE SCREEN, 4:3 FILL		
		RESOLUTION	AUTO, NATIV	1		WINDOW, LETTENDOX, WIDE JONLEIN, 4.5 THE		
	VIDEO	NOISE REDUCTION	,		NR, BLOCK NR			
	VIDEO	DEINTERLACE	AUTO, VIDEO		NIT, DEOOR NIT			
		3D Y/C SEPARATION		, I ILIVI				
		CONTRAST ENHANCEN	,					
	SOUND				BALANCE 2D SL	IRROUND (OFF, ON)		
SETUP	BASIC	KEYSTONE	HORIZONTAL		DALANOL, 3D 3C			
SETUP	DASIC	CORNERSTONE	HUNIZUNIAL	, VENTIGAL				
		PIP						
		WALL COLOR				TOM-LEFT, <mark>BOTTOM-RIGHT</mark> LIGHT YELLOW, LIGHT GREEN, LIGHT		
		WALL GULUN			()	LIGHT FELLOW, LIGHT GREEN, LIGHT		
			BLUE, SKY B NORMAL, EC		NUSE, PINK			
		LAMP MODE			0.00 10.00 10.	00		
		OFF TIMER), 8:00, 12:00, 16:			
		TOOLS	PROGRAM TIM	IER, CORNERS	STUNE, ENTRY LIS	I, [DATE, TIME PRESET], [MOUSE], [HELP]		
		LOGOFF						
		LANGUAGE		ENGLISH, DEUTSCH, FRANÇAIS, ITALIANO, ESPAÑOL, SVENSKA, SUOMI, NORSK,				
				NEDERLANDS, TÜRKÇE, POLSKI, РУССКИЙ, ЕЛЛНИКА, MAGYAR, PORTUGUÊS, ČEŠTINA, 곳, DANSK,日本語, 한국어, 中文				
					, عربي, DANSK, E	1本語, 안국역, 甲又		
	MENU	COLOR SELECT	COLOR, MON	UCHROME				
		SOURCE DISPLAY	ON, OFF					
		MESSAGE DISPLAY	ON, OFF					
		TIME DISPLAY	ON, OFF					
		MENU DISPLAY TIME	,		JTO 15 SEC, AUT	0 45 SEC		
		BACKGROUND	BLUE, BLACK					
		FILTER MESSAGE	OFF, 100[H], 1	200[H], 500[H], 1000[H]			

Menu		Item		
SETUP	INSTALLATION	ORIENTATION	DESKTOP FROM	IT, CEILING REAR, DESKTOP REAR, CEILING FRONT
		SCREEN	SCREEN TYPE:	4:3 SCREEN, WIDE SCREEN ^{*1} / POSITION ^{*2}
		SECURITY SETTINGS	CONTROL PAN	IEL LOCK, BACKGROUND LOCK, ACCOUNT LOCK, ACCOUNT
			SECURITY, PJLi	ink
		NETWORK SETTINGS	GENERAL:	PROJECTOR NAME, WIRED LAN, WIRELESS LAN
			WIRED:	PROFILES, DHCP, IP ADDRESS, SUBNET MASK, GATEWAY,
				DNS CONFIGURATION, RECONNECT
			WIRELESS:	PROFILES, DHCP, IP ADDRESS, SUBNET MASK, GATEWAY,
				DNS CONFIGURATION, ADVANCED, RECONNECT
			DOMAIN:	HOST NAME, DOMAIN NAME
			MAIL:	ALERT MAIL, SENDER'S ADDRESS, SMTP SERVER NAME
				RECIPIENT'S ADDRESS 1-3, TEST MAIL
		COMMUNICATION SPEED	4800bps, 9600b	ops, 19200bps, 38400bps
		REMOTE SENSOR	FRONT / BACK,	FRONT, BACK
		STANDBY MODE	NORMAL/POWE	ER-SAVING
	OPTIONS	AUTO ADJUST	OFF, NORMAL, I	FINE
		AUTO START	OFF, ON	
		POWER MANAGEMENT	OFF, 0:05, 0:10,	0:20, 0:30
		FAN MODE	AUTO, HIGH, HI	GH ALTITUDE
		DEFAULT SOURCE SELECT	LAST, AUTO, CO	OMPUTER1, COMPUTER2, COMPUTER3, COMPONENT, VIDEO,
			S-VIDEO, VIEW	ER, NETWORK
		SIGNAL SELECT	COMPUTER1	RGB/COMPONENT, RGB, COMPONET
			COMPUTER2	RGB/COMPONENT, RGB, COMPONET
		COLOR SYSTEM	VIDEO, S-VIDEO	
		OUT TERMINAL		ER1, COMPUTER2, COMPONENT
INFORMATION	USAGE TIME	LAMP LIFE REMAINING, L	AMP HOURS US	SED, FILTER HOURS USED
	SOURCE (1)	INPUT TERMINAL, SIGNA	L TYPE, VIDEO T	YPE, SOURCE NAME, ENTRY NO.
	SOURCE (2)	HORIZONTAL FREQUENCY	Y, VERTICAL FRE	QUENCY, SYNC TYPE, SYNC POLARITY, SCAN TYPE
	WIRED LAN	IP ADDRESS, SUBNET MA	ASK, GATEWAY, N	/IAC ADDRESS
	WIRELESS LAN (1)	IP ADDRESS, SUBNET MA	ASK, GATEWAY, N	/IAC ADDRESS
	WIRELESS LAN (2)	SSID, NETWORK TYPE, W	/EP/WPA, CHANN	IEL, SIGNAL LEVEL
	VERSION (1)	PRODUCT, SERIAL NUMB	ER, LAN UNIT TY	(PE, LAN UNIT VERSION
	VERSION (2)	FIRMWARE, DATA, FIRMW	VARE2, DATA2	
RESET		CURRENT SIGNAL, ALL DAT	TA, ALL DATA (INC	CLUDING ENTRY LIST), CLEAR LAMP HOURS, CLEAR FILTER HOURS

NOTE:

*1 Default SCREEN TYPE is 4:3 SCREEN for NP3150/NP2150/NP1150 and WIDE SCREEN for NP3151W.

*2 POSITION is not available with NP3151W.



Menu windows or dialog boxes typically have the following elements:

Highlight Indicates the selected menu or item.
Solid triangle Indicates further choices are available. A highlighted triangle indicates the item is active.
TabIndicates a group of features in a dialog box. Selecting on any tab brings its page to the front.
Radio button Use this round button to select an option in a dialog box.
Check box Place a checkmark in the square box to turn the option On.
Slide bar Indicates settings or the direction of adjustment.
OK button Press to confirm your setting. You will return to the previous menu.
Cancel button Press to cancel your setting. You will return to the previous menu.
Close button Click to close the window and saving changes (USB mouse only).
Help button Indicates that help about that feature is available (USB mouse only). Press the HELP button on the remote control to display help.
Return symbol Indicates the software keyboard is available.

4 Menu Descriptions & Functions [SOURCE]

COMPUTER2	
COMPONENT	
VIDEO	
S 🔿 S-VIDEO	
NO VIEWER	
 O NETWORK 	
SELECT CO :EXIT	# IMOVE ** IMOVE

COMPUTER 1 and 2

0	Р	FR	0	Р	FR
\circ			0		

NOTE: An optional component cable (Component V or ADP-CV1 cable) is needed for a component signal.

COMPUTER 3 (RGB Digital)

	O P	ER				
COMPONENT						
	O PO E		Р	Ρ		
VIDEO						
	EO	R				

S-VIDEO

EO R

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

VIEWER

	Р	E	Е			RO	Е	W
W				Ρ	E	E		

NETWORK

	R	
W		E WOR

ENTRY LIST

 \rightarrow

Е

[ENTRY LIST]

NO. [NAME	SOURCE	INPUT	a 17	LOAD
001 1024x768 50Hz 002	DIBITAL	COMPUTER3	~	STORE
003				CUT
004				COPY
006				PASTE
007				EDIT
009				ALL DELETE
010				
012				PAGE DOWN
013				

Using the Entry List W E E W

Е

Entering the Currently Projected Signal into the Entry List

- 1. Display the Entry List.
- 2. Use the SELECT ▲ or ▼ button on your remote control or the projector cabinet to select any number.
- 3. Use the SELECT ▶ button to select [STORE] and press the ENTER button.

ENTRY LIST				13
NO. NAME	SOURCE	NPUT	a 9.	LOAD
001 1024x768 50Hz 002	DIBITAL	COMPUTERS	~	STORE
003				CUT
004				COPY
006				PASTE
007				C EDAT
009				ALL DELETE
010				
012				PAGE DOWN
013			8	_
			-	
	CID:SELECT	I:MOVE -:MOVE		

E R

LOAD	Enables you to select a signal from the list.
STORE	Enables you to store the currently projected signal.
CUT	Enables you to remove a selected signal from the list and place it on the "clipboard" in the projector.
COPY	Enables you to copy a selected signal from the list and place it on the "clipboard" in the projector.
PASTE	. Enables you to paste the signal placed on the "clipboard" to any other line of the list.
EDIT	Enables you to change SOURCE NAME, INPUT TERMINAL, LOCK, and SKIP.

6. Using On-Screen Menu

EDIT	? 🗙
ENTRY NO. SOURCE NAME SIGNAL TYPE INPUT TERMINAL HORIZONTAL FREQUENCY VERTICAL FREQUENCY SYNC TYPE SYNC POLARITY SCAN TYPE SCAN TYPE SCAN TYPE SCAN TYPE SCAN TYPE SCAN TYPE SCAN TYPE SCAN TYPE SCAN TYPE SCAN TYPE	1 1024x768 50Hz DIGITAL COMPUTER3 39.63 [KHz] 49.97 [Hz]
	OK CANCEL
ENTER :SELECT	EXIT ::MOVE

SOURCE NAME:

Enter a signal name. Up to 18 alphanumeric characters can be used.

INPUT TERMINAL:

Change the input terminal.

LOCK:

Set so that the selected signal cannot be deleted when [ALL DELETE] is executed. After executing [LOCK], the changes cannot be saved.

SKIP:

Set so that the selected signal will be skipped during auto search.

When complete, select OK and press ENTER. To exit without storing the setting, select Cancel. Select [SOURCE NAME] and press ENTER to display the Source Name Edit window. You can change source name on this window. Press a to display the software keyboard, which you can enter alphanumeric characters.

ALL DELETE...... This feature enables you to delete all the registered signals in the Entry List.

PAGE UP/ PAGE DOWN... Enables you to go to the next page or the previous page.

PE ER PER ERE

NOTE: When all the signals in the [ENTRY LIST] are deleted, the currently projected signal will be also deleted except locked signals.

6 Menu Descriptions & Functions [ADJUST]



[PICTURE]

SOURCE AN INTER	SETUP INFO.	RESET
PICTURE - IMAGE OPTIC	ONS + VIDEO + SOUND	
MODE PRESET DETAIL SETTINGS CONTRAST BRIGHTNESS SHARPNESS COLOR HUE RESET	STANDARD 3:HIGH-BRIGHT	(1) (1) (1) (1) (1) (1) (1) (1)
CID ISELECT CD I	EXIT :MOVE +	+ MOVE
COMPUTER1		ADVANCED

[MODE]

E E PREE

STANDARD...... Saves settings for each item of [PRESET] (Preset 1 through 6) PROFESSIONAL..... Saves all the settings of [PICTURE] for each input.

[PRESET]

[DETAIL SETTINGS]

1	GENERAL WH	TE BALANCE		
	REFERENCE BAMMA CORRECTION COLOR TEMPERATURE		HIGH-BRIGHT DYNAMIC 5000	(1) (1)
0	CEED :SELECT	EXIT	:MOVE	++ :MOVE

e er R

RE ERE E

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.

ORRE O

Ε

DYNAMIC..... Creates a high-contrast picture. NATURAL..... Natural reproduction of the picture. BLACK DETAIL... Emphasizes detail in dark areas of the picture.

O OR E PER RE

NOTE:

• When [PRESENTATION] or [HIGH-BRIGHT] is selected in [REFERENCE], this function is not available.

• When [WHITE BALANCE] settings has been changed, the color temperature value on screen does not reflect the real color temperature.

W	E	Е						
	W		W R	E	Е	R		

[CONTRAST]

[BRIGHTNESS]

[SHARPNESS]

[COLOR]

[HUE]

R

R

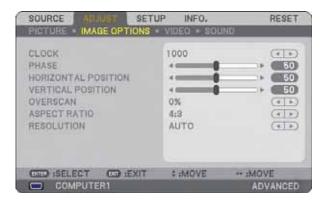
R

R			
R			

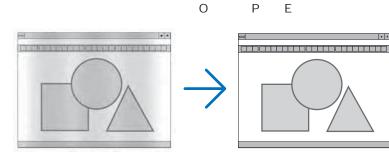
[RESET]

		Р	RE					
Р	RE ERE	Е		E	E		R	ΟΕ
			E	E		PRE E		

[IMAGE OPTIONS]

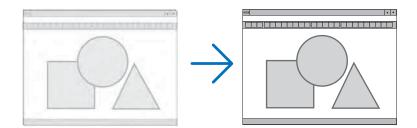


Adjusting Clock and Phase [CLOCK/PHASE]



CLOCK Use this item to fine tune the computer image or to remove any vertical banding that might appear. This function adjusts the clock frequencies that eliminate the horizontal banding in the image. This adjustment may be necessary when you connect your computer for the first time.

¥ A

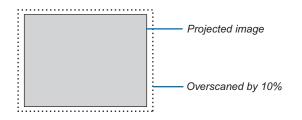


PHASE Use this item to adjust the clock phase or to reduce video noise, dot interference or cross talk. (This is evident when part of your image appears to be shimmering.) Use [PHASE] only after the [CLOCK] is complete.

 $\xrightarrow{|||}{|||} \rightarrow \xrightarrow{||||}{||||}$

Adjusting Horizontal/Vertical Position [HORIZONTAL/VERTICAL POSITION]

Selecting Overscan Percentage [OVERSCAN]



NOTE: When [NATIVE] is selected in [RESOLUTION], [OVERSCAN] is not available.

Selecting Aspect Ratio [ASPECT RATIO]

Screen Type 4:3 SCREEN (VIDEO)



Screen Type WIDE SCREEN (VIDEO)

	CTRATIO	
	WEININGW	
0	LETTERBOX	
0	WIDE SCREEN	
0	4:3 FILL	
1010	ED : •	

RGB

5			
0 16:	8		
0 18:	10		

W For VIDEO

R

4.3

4:3 Standard 4:3 aspect
LETTERBOX Reduced to display the true aspect with black borders on top and bottom
WIDE SCREEN Left & Right stretched with black borders on top and bottom
ZOOM Left & Right stretched. Left & Right sides cut. Available for 4:3 only.

W

WΕ REE

REE

F

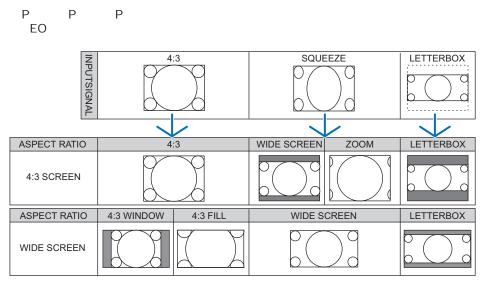
For VIDEO
4:3 WINDOW Reduced to display the true aspect with black borders on right and left
LETTERBOX Standard 16:9 aspect
WIDE SCREEN Left and right stretched to display the true aspect
4:3 FILL Stretched to display in 16:9 aspect ratio
For RGB
4:3 For a video signal with an aspect ratio of 4:3
5:4 For a video signal with an aspect ratio of 5:4
16:9 For a video signal with an aspect ratio of 16:9
16:10 For a video signal with an aspect ratio of 16:10
15:9 For a video signal with an aspect ratio of 15:9

NOTE:

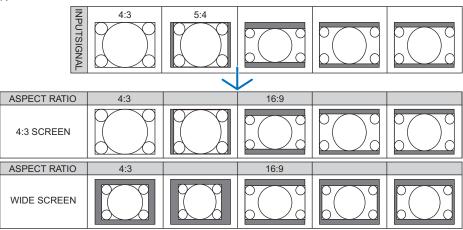
• You can adjust image position vertically for a source with black borders on top and bottom. (→ page 99)

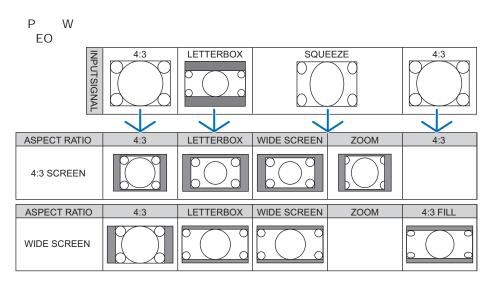
• When [NATIVE] is selected in [RESOLUTION], [ASPECT RATIO] is not available.

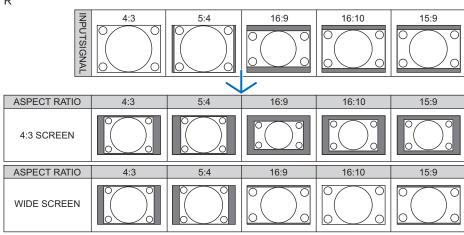
NOTE: Please note that using this projector for the purpose of commercial gain or the attraction of public attention in a venue such as a coffee shop or hotel and employing compression or expansion of the screen image with a [ASPECT RATIO] or [SCREEN] setting may raise concern about the infringement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



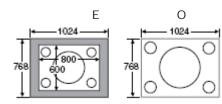












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[VIDEO]



Using Noise Reduction [NOISE REDUCTION]

RANDOM NR Reduces flickering random noise in an image. MOSQUITO NR Reduces mosquito noise that appears around the edges of an image during DVD playback. BLOCK NR Reduces block noise or mosaic-like patterns by selecting ON.

Selecting Interlaced Progressive Conversion Process Mode [DEINTERLACE]

AUTO Determines an appropriate interlaced-to-progressive conversion process automatically. VIDEO Applies a normal interlaced-to-progressive conversion process. FILM Applies the automatic detection mode for telecine signals. This option is recommended for a

NOTE: This function is not available with RGB signals.

Turning On or Off the 3D Dimensional Separation [3D Y/C SEPARATION]WEOO

OFF Turns off the 3 dimensional separation feature. ON Turns on the 3 dimensional separation feature.

NOTE: Only available for NTSC 3.58 video signals.

Adjusting Contrast Enhancement [CONTRAST ENHACEMENT]

[SOUND]



Controlling Sound [VOLUME/BASS/TREBLE/BALANCE]

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Enabling 3D Surround [3D SURROUND]

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(3) Menu Descriptions & Functions [SETUP]

SOURCE ADJUST SET		RESET
KEYSTONE CORNERSTONE PIP WALL COLOR LAMP MODE OFF TIMER TOOLS LOGOFF LANGUAGE	OFF NORMAL OFF ENGLISH	
CED :SELECT CD :EXIT	: MOVE	** :MOVE
COMPUTER1		ADVANCED

[BASIC]



Selecting Keystone Mode [KEYSTONE]

 \rightarrow

NOTE: When [CORNERSTONE] is selected, [KEYSTONE] is not available.

Selecting Cornerstone Mode [CORNERSTONE]



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NOTE: When [KEYSTONE] is selected, [CORNERSTONE] is not available.

Using the PIP Function

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6. Using On-Screen Menu

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Using the Wall Color Correction [WALL COLOR]



Setting Lamp Mode to Normal or Eco [LAMP MODE]

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		Ρ	Ρ	W			
	Р	Ρ					

NOTE: If the projector is overheated in Normal mode, there may be a case where the Lamp mode will be forced into the Eco mode to protect the projector. This mode is called "forced Eco mode".

When the projector is in forced Eco mode, the picture brightness decreases. The LAMP indicator's steady green light indicates the lamp is in Eco mode.

When the projector comes back to normal temperature, the Lamp mode returns to Normal mode.

In the forced Eco mode, changing [LAMP MODE] setting in the menu will not affect the actual lamp mode.

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.

NOTE:

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

TOOLS

Using Program Timer [PROGRAM TIMER]

PRO	GRAM LIST						? 🛛
NO.	DAY	TIME	FUNCTION			2	EDIT
01 🗸	MON-FRI	08:00	POWER - ON				
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15						•	
		ENTER :EDIT	EXIT :EXIT	# :MOVE	INOVE		

NOTE:

- Before setting the Program Timer, make sure that the [DATE, TIME PRESET] feature is set. (\rightarrow page 95)
- Make sure that the projector is in the stand by condition with the Main Power Switch on.
- The projector has a built-in clock. The clock will keep working for about two weeks after the main power is turned off. If the main power is not supplied to the projector for two weeks or more, the built-in clock stops working.

Setting a new program timer

1. On the PROGRAM TIMER screen, use the SELECT ▲ or ▼ button to select [SETTINGS] and press the EN-TER button.

PROGRAM TIMER	? 🗙
PROGRAM LIST	
SETTINGS	
ENTER) :EXIT (EXIT) :EXIT + :SELECT + :SEL	TOT
CARLER : EXTI EAD : EXTI ÷ :SELECT ··· :SELI	-01
PRO R	

NOTE: When the Program Timer is turned on, the [PROGRAM LIST] cannot be edited.

2. Select a blank program number and press the ENTER button.

P	ROGRAMI	_IST							? ×	
NO	. DAY		TIME	FUNCTION			2 -		EDIT	
01	MON-	-FRI	08:00	POWER - ON						
02										
03										
04										
05								_		
06										
08								_		
09										
10										
11										
12										
13										
14										
15							-			
			ENTER :EDIT	EXIT :EXIT	# :MOVE	INOVE				
	_									
	E									

3. Make settings for each item as required.

EDIT				? 🛛
PROGRAM NO. ACTIVE DAY TIME FUNCTION ADVANCED SETTINGS PREPEAT		01 MON-FRI 08:00 POWER ON		
		ОК	CANC	EL
ENTER :SELECT	EXID :EXIT	# :MOVE	INOVE	

ACTIVE	Place a check mark to enable the program.
DAY	Select days of the week for the program. To execute the program from Monday to Friday, select [MON-FRI].To execute the program in everyday basis, select [EVERYDAY].
TIME	Set the time to execute the program. Enter time in 24-hour format.
FUNCTION	Select a function to be executed. Selecting [POWER] will allow you to turn on or off the projector by setting [ADVANCED SETTINGS]. Selecting [SOURCE] will allow you to select a video source by setting [ADVANCED SETTINGS].
ADVANCED SETTINGS	Select power on/off or a type of video source for the selected item in [FUNCTION].
REPEAT	Place a check mark to repeat the program continuing basis. To use the program this week only, clear the check mark.

4. Select [OK] and press the ENTER button. This will complete the settings. You will be returned to the [PROGRAM LIST] screen.

NOTE:

- Up to 30 different timer settings can be programmed.
- When [PROGRAM TIMER] is turned on, the [STANDBY MODE] setting is ignored.
- The Program Timer is executed on a set time basis, not in a program basis.
- Once the program not marked with a check in [REPEAT] has been executed, the check mark in the [ACTIVE] check box will be cleared automatically and the program will be disabled.
- When the on-time and the off-time are set for the same time, the off-time setting will take preference.
- Two different sources are set for the same time, the larger program number will take preference.
- The on-time setting will not be executed while the cooling fans are running or an error is occurring.
- If the off-time setting is expired under the condition in which the power off is not possible, the off-timer setting will not be executed until the power off becomes possible.
- Programs not marked with a check mark in [ACTIVE] of the [EDIT] screen will not be executed even if the Program Timer is enabled.
- When the projector is turned on by using the program timer and if you want to turn off the projector, set the off-time or do it manually so as not to leave the projector on for a long period of time.

Activating the program timer

1. Select [ON] on the [PROGRAM TIMER] screen and press the ENTER button. The [ON] will be activated.

2. Press the EXIT button. The [PROGRAM TIMER] screen will be changed to the [TOOL] screen.

NOTE:

- Selecting [OFF] will disable the Program Timer even when a program is marked with a check mark on [PROGRAM LIST] screen.
- When the [ON] is turned on, the [PROGRAM LIST] cannot be edited. To edit the programs, select [OFF] to turn off the Program Timer.

Changing the programmed settings

1. On the [PROGRAM LIST] screen, select a program you want to edit and press the ENTER button.

- 2. Change the settings on the [EDIT] screen.
- 3. Select [OK] and press the ENTER button. The programmed settings will be changed. You will be returned to the [PROGRAM LIST] screen.

Changing the order of programs

- 1. On the [PROGRAM LIST] screen, select a program whose order you want to change and press the SE-LECT ▶ button.
- 2. Press the SELECT \triangledown button to select $[\blacktriangle]$ or $[\triangledown]$.
- 3. Press the ENTER button a few times to select a row to which you wish to move the program. The order of the programs will be changed.

Deleting the programs

- 1. On the [PROGRAM LIST] screen, select a program number you want to delete and press the SELECT ► button.
- 2. Press the SELECT ▼ button to select [DELETE].
- 3. Press the ENTER button.
- 4. Select [YES] and press the ENTER button. The program will be deleted.

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Using [CORNERSTONE]

\rightarrow

Using [ENTRY LIST]

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Setting the Current Date and Time [DATE, TIME PRESET]

NOTE: The projector has a built-in clock. The clock will keep working for about 2 weeks after the main power is turned off. If the main power is off for 2 weeks or more, the built-in clock will cease. If the built-in clock ceases, set the date and time again. The built-in clock will not cease while in the standby mode.

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ER E E ER ER P
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P E
P E
ER E E ER ER
Setting Mouse Pointer, Button and Sensitivity [MOUSE] 🔞
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MOUSE BUTTON ... [RIGHT HAND] or [LEFT HAND]
MOUSE SENSITIVITY.. [FAST], [MEDIUM] or [SLOW]
```

Using [HELP] \rightarrow

Logging Off Your Projector [LOGOFF]

1. Press the MENU button and use the SELECT ▶ button to highlight [SETUP].



2. Use the SELECT ▼ or the ENTER button to highlight [BASIC].

SOURCE ADJUST	INFO.	RESET
BASIC + MENU + INSTALLATI	ON . OPTIONS	
KEYSTONE CORNERSTONE PIP WALL COLOR LAMP MODE CONTINUER TOOLS	OFF NORMAL	
LOGOFF		
LANGUAGE	ENGLISH	
	\$:MOVE	
COMPUTER1		ADVANCED

3. Use the SELECT ▼ button to highlight [LOGOFF], and press the ENTER button.

The [LOG OFF PROJECTOR /ARE YOU SURE?] message will be displayed.

4. Select [YES] and press the ENTER button to log off your projector and close the menu, and then the LOGON screen will be displayed.

```
NOTE:
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• When selecting [NO] and press the ENTER button, you will return to the Logoff screen in Step 2.

To log on your projector, select a user name, then enter your password and select [OK] and press the ENTER button.

The LOGON screen will close. Logging on your projector is done.

NOTE:

The default LOGON screen will be shown as follows: USER NAME \rightarrow ADMINISTRATOR PASSWORD \rightarrow No setting See "Limiting Access Level to Available Menu Items" on page 51 for entering a user name and assigning a password.

Selecting Menu Language [LANGUAGE]

[MENU]



Selecting Menu Color [COLOR SELECT]

Turning On / Off Source Display, Message and Time [SOURCE DISPLAY], [MESSAGE DISPLAY], [TIME DISPLAY]

SOURCE DISPLAY This option turns on or off input name display such as Computer 1, Computer 2, Computer 3, Component, Video, and No Input to be displayed on the top right of the screen.

MESSAGE DISPLAY.......This option turns on or off messages. Even though selecting [OFF], the following message will appear. • "Projector is locked". When the projector security is unlocked, the message will disappear.

TIME DISPLAY...... This option turns on or off the current time displayed on the top left of the screen.

NOTE: The source and current time will be displayed for the time specified in [MENU DISPLAY TIME]. When [MANUAL] is selected in [DISPLAY TIME], the source and current time will be always displayed.

Selecting Menu Display Time [MENU DISPLAY TIME]

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Selecting a Color or Logo for Background [BACKGROUND]

NOTE:

• When the DVI [COMPUTER 3(DVI-D) IN] input is selected with no signal, the blueback is displayed in regardless of the setting [LOGO].

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- When the BACKGROUND LOCK in [SECURITY SETTINGS] is turned on, the background cannot be changed.
- Your setting will not be affected even when [RESET] is done from the menu.

Selecting Interval Time for Filter Message [FILTER MESSAGE]

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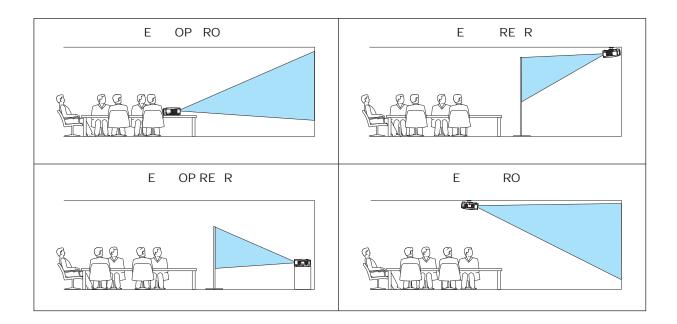
NOTE: The message for filter cleaning will be displayed for one minute when the projector is turned on or off. To cancel the message, press any button on the projector cabinet or the remote control.

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

[INSTALLATION]



Selecting Projector Orientation [ORIENTATION]



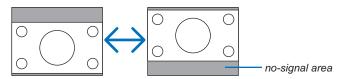
Selecting Aspect Ratio and Position for Screen [SCREEN]

SCREEN TYPE Select one of two options: 4:3 SCREEN or WIDE SCREEN for the screen to be used. See also [ASPECT RATIO].

 $(\rightarrow \text{page 84})$

POSITION This feature allows you to adjust the vertical position of the image when WIDE SCREEN has been selected (not available for the screen type. on NP3151W)

When WIDE SCREEN has been selected there is no-signal area above and below the image.



NOTE: This option is available only when [WIDE SCREEN] is selected in [SCREEN TYPE].

NOTE:

- After changing the screen type, check the setting of [ASPECT RATIO] in the menu. (\rightarrow page 84)
- [POSITION] is not available when [4:3 SCREEN] is selected for [SCREEN TYPE] or when [LETTERBOX] is selected for [ASPECT RATIO].

Setting Security [SECURITY SETTINGS]

CONTROL PANEL LOCK	OFF	
	SETTINGS	
BACKGROUND LOCK	OFF	
	ENTER PASSWO	RD
ACCOUNT LOCK	OFF	
	SET ON	
ACCOUNT	SETTINGS	
SECURITY	OFF	
	SETTINGS	
PJLink	OFF	
	ENTER PASSWO	RD

Disabling the Cabinet Buttons [CONTROL PANEL LOCK]

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NOTE:

• This Control Panel Lock does not affect the remote control functions.

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

Setting a Password [BACKGROUND LOCK]

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NOTE: When [BACKGROUND LOCK] is turned on, [BACKGROUND] cannot be selected from the menu.

[ENTRY]



NOTE: Up to 10 alphanumeric characters can be assigned.

1. Type a password.

Select the [ENTER PASSWORD] entry box and press the ENTER button. (\rightarrow page 72) An asterisk will be displayed. The Software keyboard appears. Use the Software keyboard to type a password on the [ENTER PASS-WORD] screen and press the ENTER button.

The [CONFIRM PASSWORD] screen will be displayed.

2. Type the same password again and press the ENTER button. Your password will be assigned.

[DELETE]

1. Select [DELETE PASSWORD] and press the ENTER button.

2. Enter your password.

An asterisk will be displayed.

3. Press the ENTER button.

Your password will be deleted.

NOTE:

• Do not forget your password. However, if you forget your keyword, consult with your dealer.

• The [BACKGROUND LOCK] will not be affected even when [RESET] is done from the menu.

ACCOUNT LOCK

ACCC		CK				
W	0	0	0		0	
W	0	0	Ο		0	
	0			0	0	0

NOTE: If you forget your password, consult with your administrator.

ACCOUNT

[SECURITY]

0

\rightarrow	
SECURITY	? X
KEYWORD	
USE PROTECT KEY DRIVE	USB 1
	READ
	OK CANCEL
ENTER:SELECT EXT:EX	IT ≑:MOVE ↔:MOVE

W

ON/OFF	This turns the Security function on or off. This setting will take effect when the projector is turned on next time.
	Enter an appropriate keyword when you use the Security function. (Up to 10 characters can be used.) The Security function is available only when your password is entered.
USE PROTECT KEY	Check this box to lock your projector when using a USB memory. To use a keyword without a USB memory, do not check this box.
READ	Reads data from a USB memory.
REGISTER	Registers data from the USB memory. The Security function is not available unless at least one USB memory is registered. (if the [USE PROTECT KEY] check box is selected) Up to 5 USB memory devices can be registered.
DELETE	Deletes data of a registered USB memory.

To set up a keyword to enable the Security function without using a registered USB memory.

1. Use the SELECT ▲ or ▼ button to select [PASSWORD] and use the software keyboard to enter a keyword. NOTE: Please make a note of your password.

2. Use the SELECT ▲ or ▼ button to select [OFF] and then use the SELECT ◀ or ► to select [ON].

3. Use the SELECT ▲ or ▼ button to select [OK] , then press the ENTER button. The [ARE YOU SURE?] message will appear.

4. Use the SELECT ◀ or ► button to select [YES] and press the ENTER button.

To register a USB memory device as a protect key.

Preparation:

- 1. Use the SELECT ▲ or ▼ button to select [USE PROTECT KEY] and press the ENTER button.
- 2. Use the SELECT ▲ or ▼ button to select [READ] and press the ENTER button. Data of the USB memory will be read into the projector.
- 3. Use the SELECT ▲ or ▼ button to select [REGISTER] and press the ENTER button. Downloaded data will be registered and be displayed in the list window.
- 4. Use the SELECT ▲ or ▼ button to select [KEYWORD] and use the software keyboard to enter a password.

NOTE: Please make a note of your password.

- 5. Use the SELECT ▲ or ▼ button to select [OFF] and then use the SELECT ◀ or ► to select [ON].
- 6. Use the SELECT ▲ or ▼ button to select [OK] , then press the ENTER button. The [ARE YOU SURE?] message will appear.
- 7. Use the SELECT < or ► button to select [YES] and press the ENTER button. The Security function takes effect.

To turn on the projector when Security is enabled (when using your password only).

- 1. Press and hold the POWER button for a minimum of two seconds. The projector will be turned on and a message to the effect that the projector is security-protected will be displayed.
- 2. Press the MENU button. The Release Code input screen will be displayed.
- 3. Enter your keyword in the Release Code input screen. You can view the projected image.

NOTE: Do not forget your password. However, if you forget your keyword, NEC or your dealer will provide you with your Release Code. See more information at the end of this section.

To turn on the projector when Security is enabled (when using USB memory device as a protect key).

Preparation:

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POWER

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- The projector does not support NTFS formatted USB memory device.
 Be sure to use a USB memory device formatted with the FAT32, FAT16 or FAT file system.
 To format your USB memory device in your computer, refer to the document or help file that comes with your Windows.
- We do not warrant that the USB port of the projector will support all USB memory devices in the market.
- When the projector is turned on, if the registered USB memory device is not inserted into the projector, no signal will be displayed with a message to the effect that the projector is security-protected. To turn off the security protection, insert the registered USB memory device into the projector.

6. Using On-Screen Menu

 The security disable mode is maintained until the main power is turned off (by setting the main power switch to "O" or unplugging the power cord). In the following cases you will be asked to check the protect key or input the password:

(1) When [OK] is selected at an image for which security is set and the power is turned off then back on(2) When the main power is turned off then back on while the security function is enabled

(3) When you attempt to display an image for which security is set while the security function is enabled

• Blanks (spaces) cannot be used in the Keyword section.

To delete USB memory data you registered.

- 1. Use the SELECT ▲ or ▼ button to select [DELETE] and use the SELECT ◀ button to select the list window.
- 2. Use the SELECT ▲ or ▼ button to select the information on the USB memory device you wish to delete.
- 3. Press the SELECT ► button to select [DELETE] and press the ENTER button.

If you've lost your registered USB memory, proceed as follows:

1. Press and hold the POWER button for a minimum of two seconds.

The projector will be turned on and display a message to the effect that the projector is security-protected. *2. Press the MENU button.*

The Release Code input screen will be displayed as well as your Request Code (24 alphanumeric characters).

NOTE: NEC or your dealer will provide you with your Release Code in exchange for your registered password and Request Code. See more information at the end of this section.

3. Enter your Release Code in the Release Code Input screen. The security protection will be turned off.

- Some brands of USB memory devices cannot be used as a protect key.
- You should register one or more USB memory devices in case your registered USB memory device is damaged or stolen. Up to 5 pieces can be registered.

NOTE:
For additional information visit:
US : http://www.necdisplay.com/
Europe : http://www.nec-display-solutions.com/
Global : http://www.nec-pj.com/

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Setting a Password for PJLink [PJLink]

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NOTE:

NOTE: What is PJLink? PJLink is a standardization of protocol used for controlling projectors of different manufacturers. This standard protocol is established by Japan Business Machine and Information System Industries Association (JBMIA) in 2005. The projector supports all the commands of PJLink Class 1. Setting of PJLink will not be affected even when [Reset] is done from the menu.

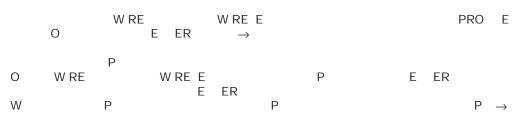
[NETWORK SETTINGS]



Hints on How to Set Up LAN Connection



- 1. Select the [WIRED] tab for the LAN port (RJ-45) or the [WIRELESS] tab for the Wireless LAN Unit.
- 2. On the [WIRED] tab or the [WIRELESS] tab, select a number from the [PROFILES] list for your LAN settings.
- Two settings can be stored in memory for each the LAN port and the Wireless LAN Unit respectively. 3. On the [WIRED] tab or the [WIRELESS] tab, turn on or off [DHCP], specify IP address, Subnet Mask,
- Gateway and DNS Configuration. Select [OK] and press the ENTER button. (ightarrow page 108, 109)





- 1. On the [WIRELESS] tab, select [PROFILES] and then select [PROFILE 1] or [PROFILE 2].
- 2. On the [WIRELESS] tab, select [ADVANCED] and press the ENTER button. The [ADVANCED] menu will be displayed.

(→ page 110, 111)

- 1. On the [WIRELESS] tab, select [PROFILES] and then select [PROFILE 1] or [PROFILE 2].
- 2. On the [WIRELESS] tab, select [ADVANCED] and press the ENTER button.
- 3. On the Advanced menu, select [CONNECTION] \rightarrow [SITE SURVEY] and press the ENTER button.
- Select an SSID which you can access. To select an SSID, highlight [SSID] and use the SELECT ▶ to select [OK] and press the ENTER button. When you do not use [SITE SURVEY], simply enter an SSID and [INFRASTRUCTURE] or [AD HOC]. (→ page 110)

- 1. On the [MAIL] tab, select [ALERT MAIL] and press the ENTER button. A check mark will be placed.
- Set [SENDER'S ADDRESS], [SMTP SERVER NAME] and [RECIPIENT'S ADDRESS]. Select [OK] and press the ENTER button.
 (→ page 113)

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	Е											Е
				Р								
		Е								RO	E	0
Е	0		W RE E	\rightarrow PRO	$E \rightarrow E$	0	Е	0	\rightarrow			

NOTE: This function can be used when Windows XP is used as the OS and when you have a "Computer Administrator" privilege. If the OS is Windows Vista, input of logon password as "Administrator" may be prompted.

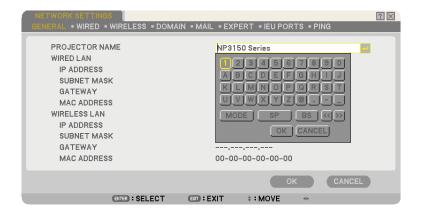
[GENERAL]

NETWORK SETTINGS			? ×
GENERAL • WIRED • WI	RELESS • DOMAIN • MAIL		
PROJECTOR NAME	NP	3150 Series	
WIRED LAN IP ADDRESS		2.168.0 .10	
SUBNET MASK GATEWAY		5.255.255.0 2.168.0 .1	
MAC ADDRESS WIRELESS LAN	00-	-30-13-F8-20-5A	
IP ADDRESS SUBNET MASK		·	
GATEWAY MAC ADDRESS			
MAC ADDRESS			
	ENTER :SELECT ENT :EXIT		
	CALLOT CALLENT		

					6. Using	On-Scre	en Menu
[PROJECTOR NAME]							
	Р	-					
				0		E ER	

NOTE: The [PROJECTOR NAME] will not be affected even when [RESET] is done from the menu.

Using Software Keyboard



1 to 0 and

Characters Use to type in password or keyword.

MODE Selects one of three modes for numbers, alphabet and special characters.

SP..... Inserts a space

BS..... Deletes one character backward

<< Returns to the previous

>> Advances to the next

OK..... Executes the selection

CANCEL Cancels the selection

 $(\rightarrow \text{page 72})$

[WIRED]

	ETWORK SETTINGS NERAL • WIRED • V	VIRELESS • DOMAIN • MAIL	
	PROFILES	PROFILE 1	
	DHCP IP ADDRESS SUBNET MASK GATEWAY DNS CONFIGURAT	192.168.0 .10 + 255.255.0 + 192.168.0 .1 + + RECONNECT	
		OK CANCEL	
Ρ		R	
	PRO E	R PROE P O EER	
	0	W RE PRO E PRO E E ER	PRO E
E	Ρ	P P	Ρ

IP ADDRESS Set your IP address. Press 🖃 to display the software keyboard and type in 12 numeric characters.
SUBNET MASK Set your subnet mask number. Press 🖃 to display the software keyboard and type in 12 numeric characters.
GATEWAY Set the default gateway of the network connected to the projector. Press 🔤 to display the software keyboard and type in 12 numeric characters.
DNS CONFIGURATION Type in the IP address of DNS server on the network connected to the projector. 12 numeric characters are used.

RECONNECT....... Use this button to retry to connect the projector to a network. Try this if you have changed [PROFILES].

[WIRELESS]

	VORK SETT RAL • WIREI		RELESS • DOMA	IN • MAIL				?×				
F	PROFILES			C	PROFILE 1							
	DHCP P ADDRESS SUBNET MA BATEWAY DNS CONFIG		ОN	Ī	192.168.100 255.255.255 192.168.100	5.0		t t				
				ADVANO RECONN								
			ENTER:SELECT	EXIT:EXIT	\$:MOVE	OK ••:MOVE	CAN	CEL				
PRO	E		W			E			E	0	ΕO	
	PRO	E	PRO O	E	E	ER		Ρ				
	0		W RE E E	ER		PRO	E	PRO	E		PRO E	
F P)			Ρ		Ρ					Ρ	

IP ADDRESS Set your IP address. Press 🔤 to display the software keyboard and type in 12 numeric characters.	
SUBNET MASK Set your subnet mask number. Press 🔤 to display the software keyboard and type in 12 numeric characters.	
GATEWAY Set the default gateway of the network connected to the projector. Press 🔤 to display the software keyboard and type in 12 numeric characters.	
DNS CONFIGURATION Type in the IP address of DNS server on the network connected to the projector. Twelve numeric charac- ters are used.	
ADVANCED Displays the Advanced menu which includes various setting for wireless LAN connection (NETWORK TYPE and SECURITY). See the Advanced menu later on.	
RECONNECT Use this button to retry to connect the projector to a network. Try this if you have changed [PROFILES].	

NOTE: If you select [EASY CONNECTION] from [PROFILES], you cannot make settings to DHCP and its following items except [CHANNEL] in [ADVANCED].

[ADVANCED] menu [CONNECTION] (required for wireless only)

ADVANCED CONNECTION • SECU	RITY	_	_	?	\mathbf{X}				
SSID NETWORK TYPE CHANNEL		SITE SU NECPJ INFRASTRUCTURE AUTOMATIC	RVEY						
	ENTER:SELECT (EXT):E)	ок IT \$:MOVE •:MOVE	CANC	EL					
ERE									
		E	E 🕨		0		E	ER	
N W N P 2 WEP WF	5								
E PE				R	R	RE		0	E WOR
E WOR PI	Ē								
INFRASTRUCTURE.	. Select this option v LAN network via a v			or mor	e equip	ment conne	ected t	o the wire	less or wired
AD HOC	. Select this option v mode. This is a me	, hen using the wire hod that meets the	eless LAN to IEEE802.1 ⁻	o directl I wirele	y comn ss stand	nunicate wi dard.	th a co	omputer in	peer-to-peer
	NOTE: When in Ad Data transmission :						metho	d.	

Е

TIP: When you select [INFRASTRUCTURE], make sure that the projector and your access point are on the same channel; when you select [AD HOC], make sure that the projector and your computer are on the same channel.

[SECURITY] (required for wireless only)

ADVANCED						? 🗙
CONNECTION • SECURI	ΓY					
SECURITY TYPE			DISABLE			
KEY SELECT		Ī				
KEY1						
KEY2						
KEY3						
KEY4						
				ОК	CANCE	
	ENTER:SELECT	EXIT:EXIT	\$:MOVE	INOVE		

SECURITY TYPE

W	WEP	E		Е	R	PE	
			WEP	W	Е		Ρ

WEP

WEP(64bit) Uses 64-bit datalength for secure transmission.

WEP(128bit)........ Uses 128-bit datalength for secure transmission. This option will increase privacy and security when compared to use of 64-bit datalength encryption.

WPA-PSK...... Uses WPA-PSK encryption mode for more secure transmission than WEP.

WPA2-PSK..... Uses WPA2-PSK encryption mode for more secure transmission than WPA.

NOTE:

• The WEP settings must be the same as communication devices such as PC or access point in your wireless network.

• When you use WEP, your image transmission speed will slow down.

• [WPA-PSK] and [WPA2-PSK] are not available when [AD HOC] is selected from [NETWORK TYPE].

Using Software Keyboard to enter an encryption key

1. Select one of [KEY 1], [KEY 2], [KEY 3] and [KEY 4] and press the ENTER button. The software keyboard will be displayed.

1234567880 ABCDEFGHIJ
KLMNOPQRS1 UVWXYZ@ MODE SP BS <>>
HEX OK CANCEL

- 2. Use the SELECT ▲▼◀► button to select one key and press the ENTER button.
- 3. After finishing entering the WEP key, use the SELECT ▲▼ ◀► button to select [OK] and press the EN-TER button.

The software keyboard will disappear.

W WP P WP P E R PE

WPA-PSK...... Uses WPA-PSK encryption mode for more secure transmission than WEP. WPA2-PSK...... Uses WPA2-PSK encryption mode for more secure transmission than WPA.

WP P	Ρ		WP	D	WEP	W	D	D	
		Ρ	VVP	P	P	vv	P	P	
ERPO	PE	F	Р	Е				5	F
E		E R	PE			WP P	WP	Р	E

[DOMAIN]

NETWORK SETTINGS						$? \times$
GENERAL • WIRED • WI	RELESS • DOMA	IN • MAIL				
HOST NAME DOMAIN NAME		[n	ecpj			
				ОК	CANCEL	
	ENTER:SELECT	EXT:EXIT	\$:MOVE	.MOVE		

HOST NAME Type in a hostname. Up to 15 alphanumeric characters can be used.

DOMAIN NAME...... Type in domain name of the network connected to the projector. Up to 60 alphanumeric characters can be used.

6. Using On-Screen Menu

[MAIL]

NETWORK SETTINGS GENERAL • WIRED • WIRELESS • DOMAIN • MAIL	?X
ALERT MAIL SENDER'S ADDRESS SMTP SERVER NAME RECIPIENT'S ADDRESS 1 RECIPIENT'S ADDRESS 2 RECIPIENT'S ADDRESS 3	+
	OK CANCEL
ENTER :SELECT EXT:EXI	T ‡:MOVE ↔:MOVE

ER

The lamp is at the end of its usable life. Please replace the lamp. Projector Name: X X X X Lamp Hours Used: xxxx [H]

E ER RE

PERERE P

RE PE RE

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NOTE:

• If you entered an incorrect address in a test, you may not receive an Alert mail. Should this happen, check if the Recipient's Address is correctly set.

• Unless any one of the [SENDER'S ADDRESS], [SMTP SERVER'S NAME] or [RECIPIENT'S ADDRESS 1-3] is selected, [TEST MAIL] is not available.

• Be sure to highlight [OK] and press the ENTER button before executing [TEST MAIL].

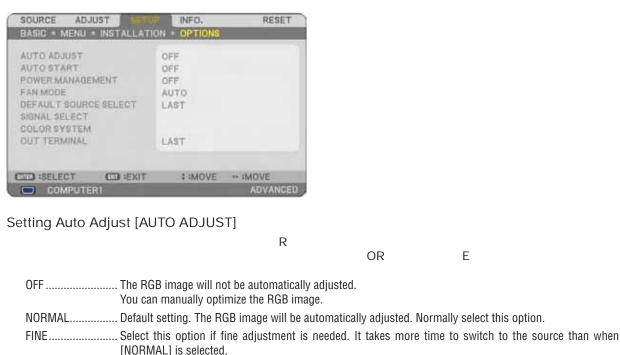
NOTE: To use the Mail Alert feature on wireless LAN connection, select [INFRASTRUCTURE] for [NETWORK TYPE].

			6. Using On-Screen Menu
Selecting Communication	n Speed [COMMUN	NICATION SPEEI	D]
C C	P	Р	
		RI	E E
Turning On or Off Remote	e Sensor [REMOTE	E SENSOR]	
Selecting Power-saving in	n [STANDBY MODI OR	E] POWER	
NOTE: • The HTTP server functions are n • The MONITOR OUT function is n • Control through the PC Control of mode of the projector it is recom • When [PROGRAM TIMER] is tun • Your setting will not be affected	not available during POW connector and LAN mod nmended to leave the pr ned on, the [STANDBY	VER-SAVING mode. le is not available duri ojector in the Normal MODE] setting is igno	

NORMAL Power indicator: Orange light/Status indicator: Green light

POWER-SAVING Power indicator: Orange light/Status indicator: Off

[OPTIONS]



Enabling Auto Start [AUTO START]

POWER O

0

Enabling Power Management [POWER MANAGEMENT] W

Enabling High Speed Fan Mode [FAN 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 approximate-ly 5500 feet/1600 meters or higher.

W

NOTE:

• It is recommended that you select High speed mode if you use the projector non-stop for consecutive days.

Using the projector at altitudes approximately 5500 feet/1600 meters or higher without setting to [HIGH ALTITUDE] can cause the projector to overheat and the protector could shut down. If this happens, wait a couple minutes and turn on the projector.
 Using the projector at altitudes less than approximately 5500 feet/1600 meters and setting to [HIGH ALTITUDE] can cause the

• Using the projector at altitudes less than approximately 5500 feet/1600 meters and setting to [HIGH ALTITUDE] can cause the lamp to overcool, causing the image to flicker. Switch [FAN MODE] to [AUTO].

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

Selecting Default Source [DEFAULT SOURCE SELECT]

	Sets the projector to default to the previous or last active input each time the projector is turned on. Searches for an active source in order of COMPUTER1 \rightarrow COMPUTER2 \rightarrow COMPUTER3 \rightarrow COMPONENT \rightarrow VIDE0 \rightarrow S-VIDE0 \rightarrow VIEWER \rightarrow COMPUTER1 and displays the first found source.							
	Displays t	he RGB sou	rce from t	he COMPUT	ER 1 IN connect	or every time th	ne proje	ector is turned on.
						•		ector is turned on. e the projector is turned
COMPONENT	on. Displays 1 on.	the compon	ent source	from the C	OMPONENT IN	connector ever	y time	the projector is turned
VIDEO								
S-VIDEO VIEWER	1 5					, ,		
NETWORK	1 5			5	5	. ,		
Selecting Signal O P ER	Format [SIGNAL	SELECI]				
	ΟΡ	ER	O F	P ER		R		R
				R	Ο ΡΟ Ε	ĸ		
Selecting [COLC	R SYSTE	EM]						
	0							
Setting MONITO	R OUT Co	onnector		ERMINAL]		-	
			R				0	OR O

LAST..... The signal from the last COMPUTER 1, COMPUTER 2 or COMPONENT input will be output to the MONI-TOR OUT connector.

COMPUTER 1, 2 The signal from the COMPUTER 1 or COMPUTER 2 input will be output to the MONITOR OUT connector. COMPONENT....... The signal from the COMPONENT input will be output to the MONITOR OUT connectors.

Menu Descriptions & Functions [INFO.]



0

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[USAGE TIME]



PERE PORE ERORE

NOTE: The progress indicator shows the percentage of remaining lamp life. The value informs you of the amount of lamp and filter usage respectively.

• When the remaining lamp time reaches 0, the Lamp Life Remaining bar indicator changes from 0% to 100 Hours and the countdown starts.

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

• The message to the effect that the lamp should be replaced will be displayed for one minute when the projector is turned on or off. To dismiss this message, press any button on the projector or the remote control.

OR	ΕO

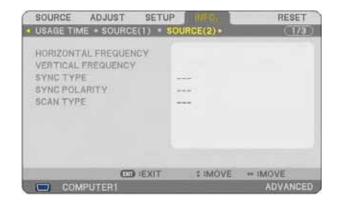
6. Using On-Screen Menu

[SOURCE (1)]



P ER PE EO PE O R E E E R O

[SOURCE (2)]



OR O RE E ER RE E PE PO R PE

[WIRED LAN]



R

IP ADDRESS...... Indicates the IP address of the projector when the LAN port (RJ-45) is used. SUBNET MASK..... Indicates the subnet mask of the projector when the LAN port (RJ-45) is used. GATEWAY Indicates the gateway of the network connected to the projector when the LAN port (RJ-45) is used. MAC ADDRESS..... Indicates the MAC address of the LAN port (RJ-45).

[WIRELESS LAN (1)]



W

IP ADDRESS....... Indicates the IP address of the projector when the USB Wireless LAN unit is used. SUBNET MASK...... Indicates the subnet mask of the projector when the USB Wireless LAN unit is used. GATEWAY....... Indicates the gateway of the network connected to the projector when the USB Wireless LAN unit is used. MAC ADDRESS...... Indicates the MAC address of the USB Wireless LAN unit.

[WIRELESS LAN (2)]



WEP

SSID Indicates the identifier (SSID) for your wireless LAN.
NETWORK TYPE Indicates that [EASY CONNECTION], [INFRASTRUCTURE] or [AD HOC] is selected for your communica- tion method.
WEP/WPA Indicates your selected datalength encryption: On or Off
CHANNEL Indicates the channel you selected in the [SITE SURVEY]. The channel must match for all wireless devices communicating on your wireless LAN.
SIGNAL LEVEL Indicates receiving condition of radio signal level while you are using a wireless LAN connection.

[VERSION (1)]

	SOURCE	ADJUST	SETUP	The second	RESET
	+ VERSION(1)	· VERSION	i(2) •	-	(2/2)
	PRODUCT BERIAL NUM LAN UNIT TO LAN UNIT VI	(PE	-		
	COMP		IEXIT	\$ IMOVE	+ IMOVE
PRO ER	ER PE ER O				

[VERSION (2)]



R W RE

R W RE

③ Menu Descriptions & Functions [RESET]

Returning to Factory Default



R

[CURRENT SIGNAL]

R

[ALL DATA]

R						E	R	E
RO	ER E	E	E R	E	E WOR	Е	0	0
PEE	ΟE	O E	ΕE	E PRE E	Р	E RE		POR
E	ER O R	E						
[ALL DATA (INCL	UDING ENT	RY LIST)]						
R		, -						E
RO	ER E	ΕE	R E	E	WOR	Е	0	0
PEE	ΟΕ	O E	E	E PRE E	Р	E RE		POR
E	ER O R	Е						
		E R						

NOTE: Locked signals in Entry List cannot be reset.

Clearing Lamp Hour Meter [CLEAR LAMP HOURS] R

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

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

Resetting the Filter Usage Hours [CLEAR FILTER HOURS] R

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

7. Maintenance

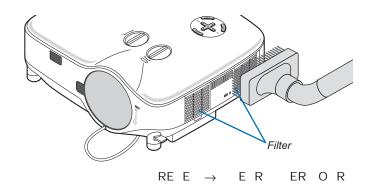
O Cleaning or Replacing the Filter

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

CAUTION

0

To clean the air-filter:



 \rightarrow

To replace the filter (sponge):

CAUTION

R

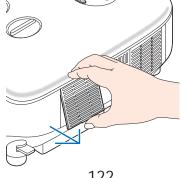
R

W

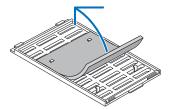
Preparation: R

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

1. Pull to remove the filter cover.

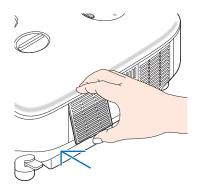


2. Gently peel off the filter (sponge) and replace it with the new one.



The filter is attached with self-adhesive tape. Peel off the release paper before use.

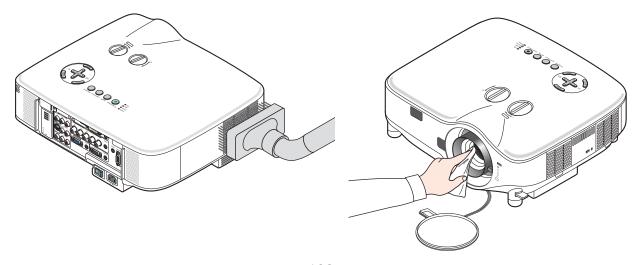
3. Reinstall the new filter cover.



- 4. Connect the supplied power cable, turn on the Main Power switch and turn on the projector.
- 5. Finally, select the menu \rightarrow [RESET] \rightarrow [CLEAR FILTER HOURS] to reset the filter usage hours.
 - (\rightarrow page 121 for resetting the filter usage time)

Q Cleaning the Cabinet and the Lens

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



Replacing the Lamp

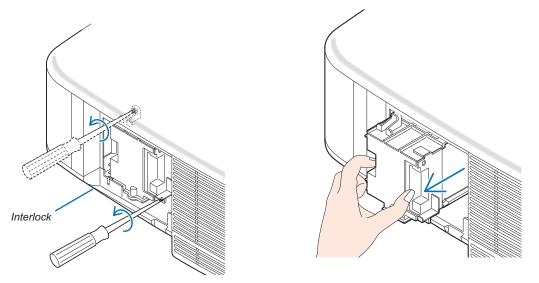
W	Р		E
	\rightarrow		
CAUTION OOO E	Ρ		
O O RE O E	REW		
			E
To replace the lamp: O			
R P	Р		
P 1. Use a Philips screwdriver Push and pull to remove a		L	

124

7. Maintenance

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

Remove the lamp housing by holding it.

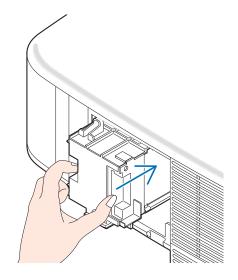


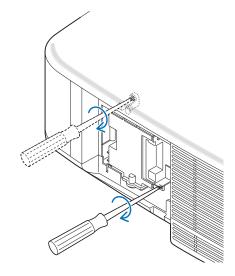
NOTE: There is an interlock on this case to prevent the risk of electrical shock. Do not attempt to circumvent this interlock.

3. Insert a new lamp housing until the lamp housing is plugged into the socket.

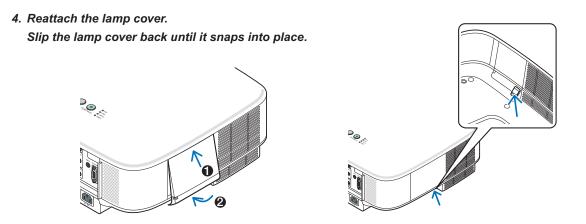
CAUTION				
		E	Ρ	Р
0	E			

Secure it in place with the two screws. Be sure to tighten the screws.





7. Maintenance



- 5. Connect the supplied power cable, turn on the Main Power switch and turn on the projector.
- 6. Finally, select the menu \rightarrow [RESET] \rightarrow [CLEAR LAMP HOURS] to reset the lamp life remaining and 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.

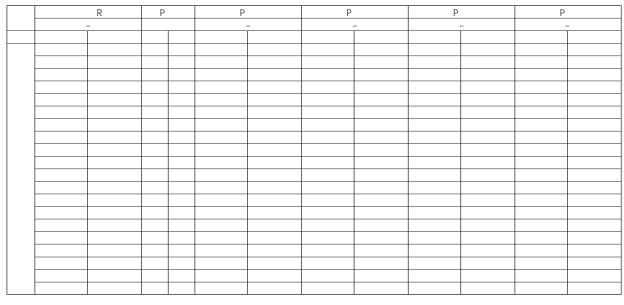
Note for US Residents

Ρ

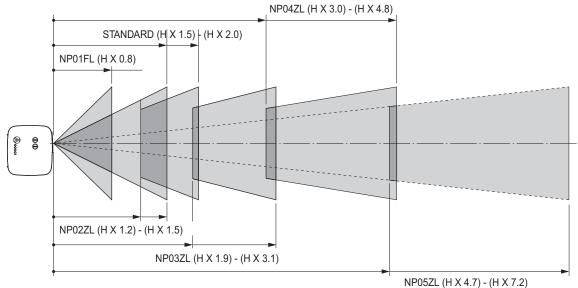
8. Using Optional Lenses

Ρ Ρ Ρ Ρ W

1 Table of Throw Distances and Screen Sizes for Optional Lenses [NP3150/NP2150/NP1150]





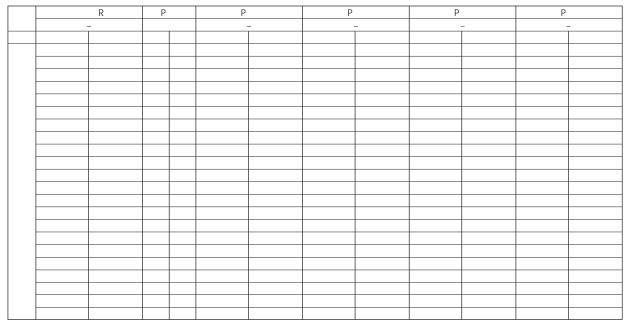


Example: Distance from a 100" screen with the lens NP03ZL R \times ×

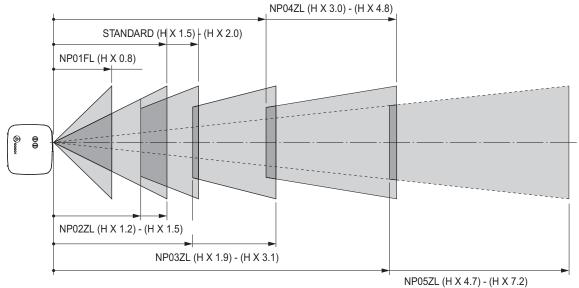
8. Using Optional Lenses

NOTE: Distances may vary +/-5%

[NP3151W]





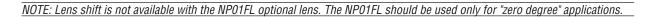


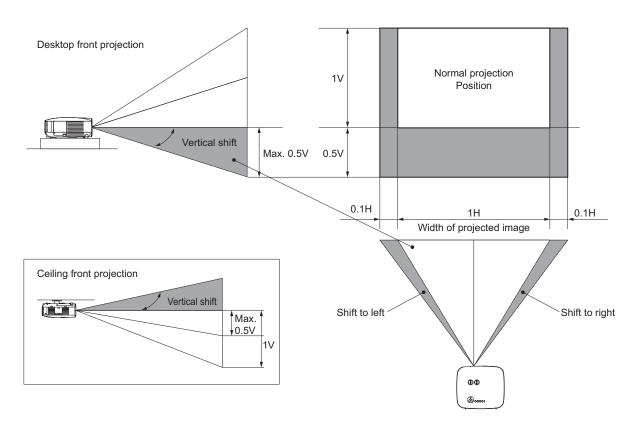
Example: Distance from a 100" screen with the lens NP03ZL $\ensuremath{\mathsf{R}}$

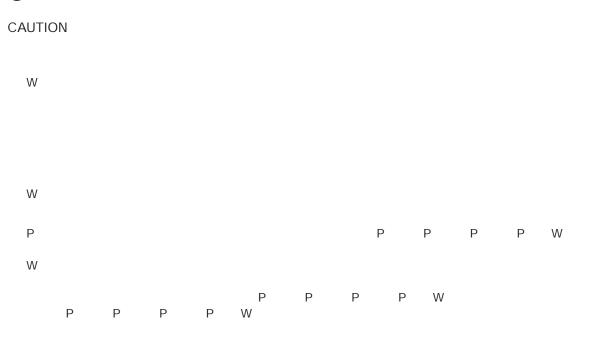
× ×

NOTE: Distances may vary +/-5%

2 Lens Shift Adjustable Range







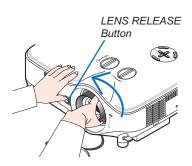
3 Replacing with Optional Lens

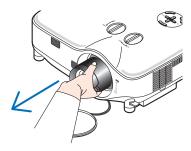
Remove the existing lens from the projector.

1. Rotate the lens counterclockwise while strongly pushing the LENS RELEASE button all the way in.

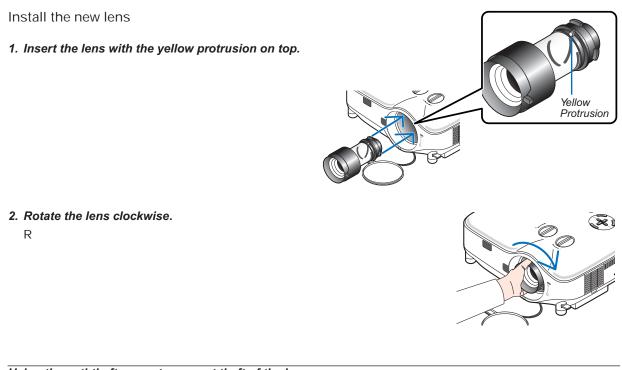
NOTE: If the lens cannot be removed even by using the LENS RELEASE button, the anti-theft screw for lens may be used to secure the lens. If such is the case, remove the anti-theft screw first. (\rightarrow page 131)

2. Pull out the existing lens slowly.

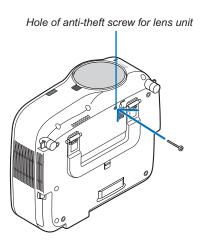




8. Using Optional Lenses



Using the anti-theft screw to prevent theft of the lens Tighten the supplied anti-theft screw on the front bottom.



1 Troubleshooting

Indicator Messages

Power Indicator

Indicator Condition		Projector Condition	Note	
Off		The main power is off	_	
Blinking light Green		0.5 sec On, 0.5 sec Off	The projector is getting ready to turn on.	Wait for a moment.
		2.5 sec On, 0.5 sec Off	Off Timer (Off Time) is activated.	-
	Orange	0.5 sec On, 0.5 sec Off	The projector is cooling down.	Wait for a moment.
		2.5 sec On, 0.5 sec Off	The Program Timer is activated.	-
Steady light	Green	· ·	The projector is turned on.	-
	Orange		The projector is in Standby.	-

Status Indicator

	Indicator Condit	ion	Projector Condition	Note
	Off		Normal	-
Blinking light	Red	1 cycle (0.5 sec On, 2.5 sec Off)	Lamp cover error	Reattach the lamp cover correctly. $(\rightarrow page 126)$
		2 cycle (0.5 sec On, 0.5 sec Of)	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 re-firing.
	Orange	1 cycle (0.5 sec On, 2.5 sec Off)	Network conflict	Both the built-in wired LAN and the wireless LAN cannot be connected to the same network at the same time. To use both built-in wired LAN and wireless LAN at the same time, connect them to different networks. $(\rightarrow page 108, 109)$
Steady light	Orange	·	Control Panel Lock is on	You have pressed cabinet button when Control Panel Lock is on. $(\rightarrow page 100)$
	Green		The projector is in Standby.	-

Lamp Indicator

Indicator Condition		Projector Condition	Note
Off		Normal	-
Blinking light	Red	Lamp has reached its end of life. Lamp	Replace the lamp.
		replacement message will be displayed.	$(\rightarrow \text{page 124})$
Steady light	Red	Lamp has been used beyond its limit.	Replace the lamp.
		The projector will not turn on until the	$(\rightarrow \text{page 124})$
		lamp is replaced.	
	Green	Lamp is in Eco mode	-

Over-Temperature Protection

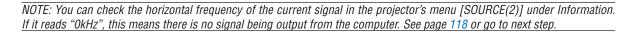
0 0

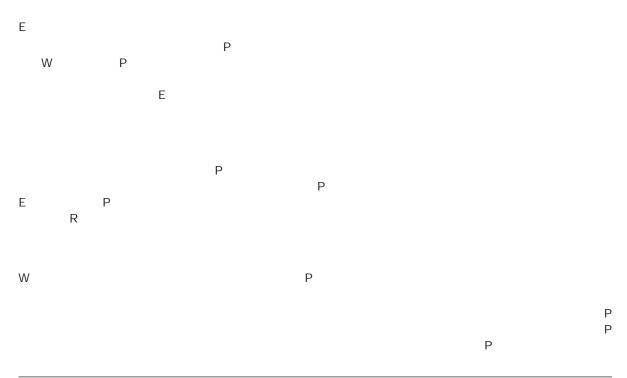
Common	Problems	&	Solutions	\rightarrow	Р
001111011	1 I VOICIIIO	~	oolations	_	

Problem	Check These Items
Does not turn on	 Check that the power cable is plugged in and that the power button on the projector cabinet or the remote control is on. (→ page 22, 23) Ensure that the lamp cover is installed correctly. (→ page 126) 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 121) 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 to active spectro could shut down. If this happens, wait a couple minutes and turn on the projector. (→ page 115) Also when the lamp is turned off, the projector internal temperature is hot. If the power is turned on before the projector has cooled down, the fan will run a short time before the lamp will turn on.
Will turn off	• Ensure that the Power Management, Off Timer is off. (\rightarrow page 92, 115)
No picture	 Use the SOURCE button on the projector cabinet or the VIDEO, the S-VIDEO, the COMPUTER 1, the COMPUTER 2, the COMPUTER 3, the COMPONENT, the VIEWER or the NETWORK button on the remote control to select your source. (→ page 25) Ensure your cables are connected properly. Use menus to adjust the brightness and contrast. (→ page 81) Check to see if the image is muted. (→ page 35) Remove the lens cap. Reset the settings or adjustments to factory preset levels using the Reset in the Menu. (→ page 121) Enter your registered keyword if the Security function is enabled. (→ page 45) 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.
Color tone or hue is unusual	 Check if an appropriate color is selected in [WALL COLOR]. If not, select an appropriate option. (→ page 91) Adjust [HUE] in [ADJUST]. (→ page 81)
Image isn't square to the screen	 Reposition the projector to improve its angle to the screen. (→ page 26) Use the 3DReform function to correct the trapezoid distortion. (→ page 30)
Picture is blurred	 Adjust the focus. (→ page 28) Reposition the projector to improve its angle to the screen. (→ page 26) Ensure that the distance between the projector and screen is within the adjustment range of the lens. (→ page 127, 129) Condensation may form on the lens if the projector is cold, brought into a warm place and is then turned on. Should this happen, let the projector stand until there is no condensation on the lens.
Flicker appears on screen	• Set [FAN MODE] to other than [HIGH ALTITUDE] mode when using the projector at altitudes approximately 5500 feet/1600 meters or lower. Using the projector at altitudes less than approximately 5500 feet/1600 meters and setting to [HIGH ALTITUDE] can cause the lamp to overcool, causing the image to flicker. Switch [FAN MODE] to [AUTO]. (\rightarrow page 115)
Image is scrolling vertically, horizontally or both	 Use the SOURCE button on the projector cabinet or the VIDEO, the S-VIDEO, the COMPUTER 1, the COM-PUTER 2, the COMPUTER 3, the COMPONENT, the VIEWER or the NETWORK button on the remote control to select your source (Video, S-Video, Computer, Component, Viewer or NETWORK). (→ page 25) Adjust the computer image manually with the [CLOCK]/[PHASE] in [ADJUST] → [IMAGE OPTIONS]. (→ page 82)
Remote control does not work	 Install new batteries. (→ page 10) Make sure there are no obstacles between you and the projector. Stand within 22 feet (7 m) of the projector. (→ page 10) Check if one or more remote sensors are enabled. Select [SETUP] → [INSTALLATION] → [REMOTE SEN-SOR] from the menu. See page 114. If the remote control cable plug is inserted into the REMOTE mini jack, the remote control does not function wirelessly. See page 11.
Indicator is lit or blink- ing	• See the POWER/STATUS/LAMP Indicator. (\rightarrow page 132)
Vertical stripes in RGB mode	 Press the AUTO ADJUST button on the projector cabinet or the AUTO ADJ. button on the remote control. (→ page 32) Adjust the computer image manually with the [CLOCK]/[PHASE] in [ADJUST] → [IMAGE OPTIONS]. (→ page 82)
USB mouse does not work	 Make sure that your USB mouse is properly connected to the projector. (→ page 37) The projector may not support some brands of a USB mouse. Some menu items cannot be operated with a USB mouse.









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

 \rightarrow



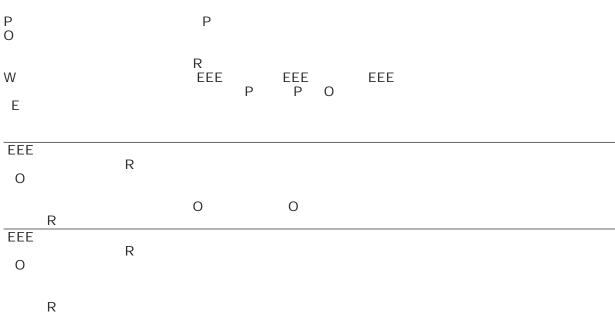
2 Specifications

	Ρ	Ρ	Ρ		P W				
Optical P	Ρ	Р	Р						
	Р	W							
R	Р	Ρ	Р		×				
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9. Appendix P P P Ρ P P P W W W P W Ρ E W P W Е Mechanical R R 0 $\stackrel{W}{\overset{\times}{}_{W}}\times$ \times Х W E O Е R 0 PR Е Е Е Е Е Е CE

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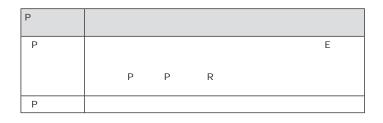
USB Wireless LAN Unit

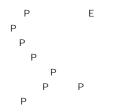


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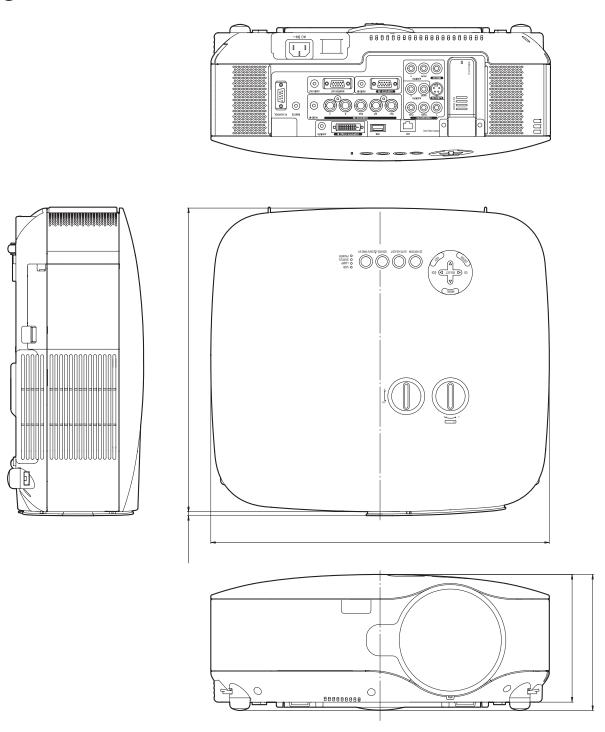


Обозначения сертификатов и коды серии NP01LM Russian NP01LM

Р	((①
Р	RPEP

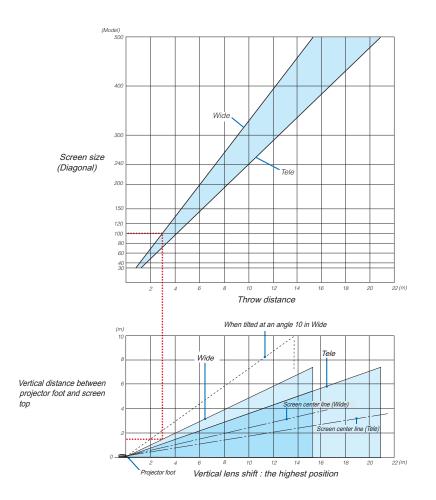
	E		Ρ				W	E
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	USB Wi ΠΡΟΣ Τ	reless L ΙΣ ΟΥΣΙΩ	AN Unit ΩΔΕΙΣ ΑΙ	(Model: I	Solutions, NP01LM) Σ Σ KAI ΤΙΣ K.	εγμμορ	ΦΩΝΕ	IAT

Cabinet Dimensions



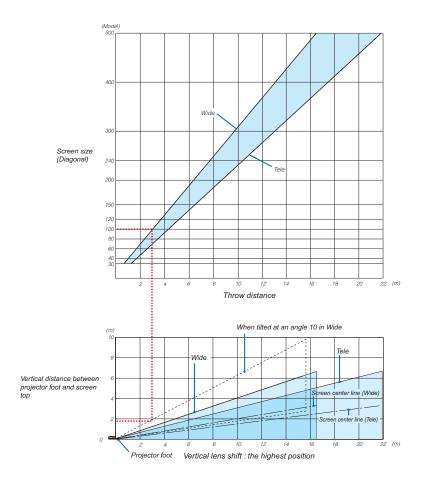
O Screen Size and Projection Distance

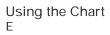
[NP3150/NP2150/NP1150]



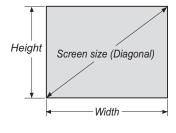
Using the Chart E

[NP3151W]





[NP3150/NP2150/NP1150]



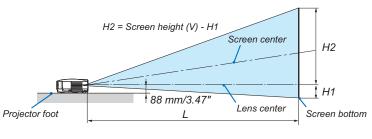
List of Screen Sizes

Screen size	Widt	n (H)	Height (V)		
Screen size	m	inch	m	inch	
30"	0.6	24.0	0.46	18.0	
40"	0.8	31.5	0.6	23.6	
60"	1.2	47.2	0.9	35.4	
80"	1.6	63.0	1.2	47.2	
100"	2.0	78.7	1.5	59.1	
120"	2.4	94.5	1.8	70.9	
150"	3.0	118.1	2.3	90.6	
200"	4.1	161.4	3.0	118.1	
250"	5.1	200.8	3.8	149.6	
300"	6.1	240.2	4.6	181.1	
400"	8.1	318.9	6.1	240.2	
500"	10.2	401.6	7.6	299.2	

Formulas: Screen width H (m)=Screen size x 4/5 x 0.0254 Screen height V (m)=Screen size x 3/5 x 0.0254 Screen width H (inch)=Screen size x 4/5 Screen height V (inch)=Screen size x 3/5

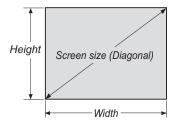
Screen Size and Projection Distance for Desktop when the standard lens is used

		STANDARD		
Screen size	Projection I	Distance (L)	()	-11)
(diagonal)	(m)	(m) (inches)		,
	Wide - Tele	Wide - Tele	(cm)	(inches)
30"	0.89 - 1.20	35.1 - 47.3	0-23	0-9.0
40"	1.20 - 1.62	47.4 - 63.8	0-30	0-12.0
60"	1.83 - 2.45	72.2 - 96.6	0-46	0-18.0
67"	2.05 - 2.75	80.8 - 108.2	0-51	0-20.1
72"	2.21 - 2.96	87.0 - 116.4	0-55	0-21.6
80"	2.46 - 3.29	96.9 - 129.5	0-61	0-24.0
84"	2.59 - 3.46	101.8 - 136.1	0-64	0-25.2
90"	2.78 - 3.71	109.3 - 146.0	0-69	0-27.0
100"	3.09 - 4.13	121.6 - 162.4	0-76	0-30.0
120"	3.72 - 4.96	146.3 - 195.3	0-91	0-36.0
150"	4.66 - 6.21	183.4 - 244.6	0-114	0-45.0
180"	5.60 - 7.47	220.5 - 294.0	0-137	0-54.0
200"	6.23 - 8.30	245.3 - 326.9	0-152	0-60.0
210"	6.54 - 8.72	257.6 - 343.3	0-160	0-63.0
240"	7.49 - 9.97	294.7 - 392.6	0-183	0-72.0
250"	7.80 - 10.39	307.1 - 409.1	0-191	0-75.0
270"	8.43 - 11.23	331.8 - 442.0	0-206	0-81.0
300"	9.37 - 12.48	368.9 - 491.3	0-229	0-90.0
400"	12.51 - 16.66	492.5 - 655.8	0-305	0-120.0
500"	15.65 - 20.83	616.2 - 820.2	0-381	0-150.0



NOTE: Distances may vary +/-5%.

[NP3151W]



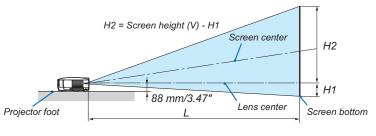
List of Screen Sizes

Screen size	Widt	h (H)	Height (V)		
Screen size	m	inch	m	inch	
30"	0.6	25.4	0.4	15.9	
40"	0.7	33.9	0.5	21.2	
60"	1.3	50.9	0.8	31.8	
80"	1.7	67.8	1.1	42.4	
100"	2.2	84.8	1.3	53.0	
120"	2.6	101.8	1.6	63.6	
150"	3.2	127.2	2.0	79.5	
200"	4.3	169.6	2.7	106.0	
250"	5.4	212.0	3.4	132.5	
300"	6.5	254.4	4.0	159.0	
400"	8.6	339.2	5.4	212.0	
500"	10.8	424.0	6.7	265.0	

Formulas: Screen width H (m)=Screen size x 4/5 x 0.0254 Screen height V (m)=Screen size x 3/5 x 0.0254 Screen width H (inch)=Screen size x 4/5 Screen height V (inch)=Screen size x 3/5

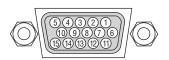
Screen Size and Projection Distance for Desktop when the standard lens is used

		STANDARD		
Screen size	Projection [(H1)		
(diagonal)	(m)	(inches)	- (1	11)
	Wide - Tele	Wide - Tele	(cm)	(inches)
30"	0.94 - 1.27	37.0 - 49.8	0-20.2	0-7.9
40"	1.27 - 1.71	50.0 - 67.1	0-26.9	0-10.6
60"	1.93 - 2.58	76.0 - 101.7	0-40.4	0-15.9
67"	2.16 - 2.89	85.1 - 113.8	0-45.1	0-17.8
72"	2.33 - 3.11	91.6 - 122.5	0-48.5	0-19.1
80"	2.59 - 3.46	102.0 - 136.3	0-53.8	0-21.2
84"	2.72 - 3.64	107.2 - 143.2	0-56.5	0-22.3
90"	2.92 - 3.90	115.0 - 153.6	0-60.6	0-23.8
100"	3.25 - 4.34	128.0 - 170.9	0-67.3	0-26.5
120"	3.91 - 5.22	154.0 - 205.5	0-80.8	0-31.8
150"	4.90 - 6.54	193.0 - 257.4	0-101.0	0-39.7
180"	5.89 - 7.85	232.0 - 309.2	0-121.2	0-47.7
200"	6.55 - 8.73	258.0 - 343.8	0-134.6	0-53.0
210"	6.88 - 9.17	271.0 - 361.1	0-141.4	0-55.6
240"	7.87 - 10.49	310.0 - 413.0	0-161.5	0-63.6
250"	8.20 - 10.93	323.0 - 430.3	0-168.3	0-66.2
270"	8.87 - 11.81	349.0 - 464.9	0-181.7	0-71.5
300"	9.86 - 13.12	388.0 - 516.7	0-201.9	0-79.5
400"	13.16 - 17.52	518.0 - 689.6	0-269.2	0-106.0
500"	16.46 - 21.91	648.0 - 862.6	0-336.5	0-132.5



NOTE: Distances may vary +/-5%.

Pin Assignments of D-Sub COMPUTER 1 Input Connector Mini D-Sub 15 Pin Connector



Pin No.	RGB Signal (Analog)	YCbCr Signal
	R	
	R	

6 Compatible Input Signal List

-	R	R	R
Р			
P			
E			
E	×		
	×		
	×		
E	×		
E	×		
	×		
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NOTE:

• An image with higher or lower resolution than the projector's native resolution (NP3150/NP2150/NP1150: 1024 x 768, NP3151W: 1280 x 800) will be displayed with scaling technology.

• Some composite sync signals may not be displayed correctly.

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

PC Control Codes and Cable Connection

PC Control Codes

Function	Code [Data									
POWER ON	02H	00H	00H	00H	00H	02H					
POWER OFF	02H	01H	00H	00H	00H	03H					
INPUT SELECT COMPUTER 1	02H	03H	00H	00H	02H	01H	01H	09H			
INPUT SELECT COMPUTER 2	02H	03H	00H	00H	02H	01H	02H	0AH			
INPUT SELECT COMPUTER 3	02H	03H	00H	00H	02H	01H	1AH	22H			
INPUT SELECT COMPONENT	02H	03H	00H	00H	02H	01H	10H	18H			
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH			
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H	0BH	13H			
INPUT SELECT VIEWER	02H	03H	00H	00H	02H	01H	1FH	27H			
PICTURE MUTE ON	02H	10H	00H	00H	00H	12H					
PICTURE MUTE OFF	02H	11H	00H	00H	00H	13H					
SOUND MUTE ON	02H	12H	00H	00H	00H	14H					
SOUND MUTE OFF	02H	13H	00H	00H	00H	15H					
ON SCREEN MUTE ON	02H	14H	00H	00H	00H	16H					
ON SCREEN MUTE OFF	02H	15H	00H	00H	00H	17H					
ASPECT RATIO (4:3 Screen)											
4:3	03H	10H	00H	00H	05H	18H	00H	00H	00H	00H	30H
LETTERBOX	03H	10H	00H	00H	05H	18H	00H	00H	01H	00H	31H
WIDESCREEN	03H	10H	00H	00H	05H	18H	00H	00H	02H	00H	32H
ZOOM	03H	10H	00H	00H	05H	18H	00H	00H	03H	00H	33H
ASPECT RATIO (16:9 Screen)											
4:3 WINDOW	03H	10H	00H	00H	05H	18H	00H	00H	00H	00H	30H
LETTERBOX	03H	10H	00H	00H	05H	18H	00H	00H	01H	00H	31H
WIDESCREEN	03H	10H	00H	00H	05H	18H	00H	00H	02H	00H	32H
4:3 FILL	03H	10H	00H	00H	05H	18H	00H	00H	04H	00H	34H
AUTO ADJUST	02H	0FH	00H	00H	02H	05H	00H	18H			

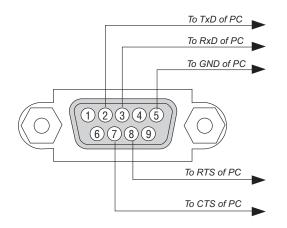
NOTE: Contact your local dealer for a full list of PC Control Codes if needed.

Cable Connection

Р	
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.

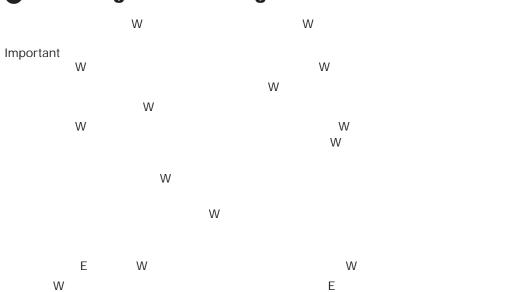
PC Control Connector (D-SUB 9P)



NOTE 1: Pins 1, 4, 6 and 9 are no used.

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

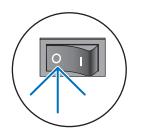
NOTE 3: For long cable runs it is recommended to set communication speed within projector menus to 9600 bps.



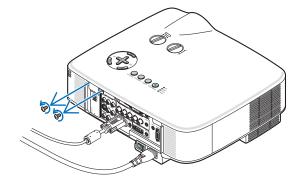
3 Removing and Attaching the USB Wireless LAN Unit

To attach the optional USB Wireless LAN Unit to the USB Wireless LAN unit port, follow the instructions below.

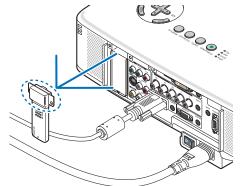
1. Press POWER ON/STAND BY button to set the projector to Stand-by mode, then press the "O (off)" side of the main power switch of the projector.



2. Loosen and remove two screws.



3. Slowly remove the dummy case or the current attached USB Wireless LAN Unit.



4. Slowly remove the dummy case or the Wireless LAN module from the joint module.

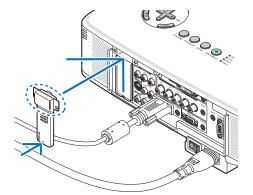


5. Slowly insert the USB Wireless LAN module into the joint module.

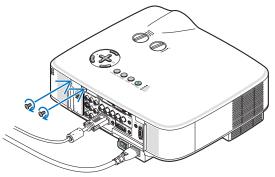


6. Insert the USB Wireless LAN Unit slowly into the USB port on the rear panel of the projector.

NOTE: After inserting, make sure the bottom of the USB Wireless LAN unit is firmly seated against the cabinet.



7. Tighten the two screws.



Troubleshooting Check List

Ρ

Frequency of occurrence always sometimes (How often?_) 🗌 other ()
Power	
 No power (POWER indicator does not light green) See also "Status Indicator (STATUS)". Power cable's plug is fully inserted into the wall outlet. Main power switch is pressed to the ON position. Lamp cover is installed correctly . Lamp Hours Used (lamp operation hours) was cleared after lamp replacement. No power even though you press and hold the POWER button for a minimum of 2 seconds. 	 Shut down during operation. Power cable's plug is fully inserted into the wall outlet. Lamp cover is installed correctly . Power Management is turned off (only models with the Power Management function). Off Timer is turned off (only models with the Off Timer function).
 No image is displayed from your PC or video equipment to the projector. Still no image even though you connect the projector to the PC first, then start the PC. Enabling your notebook PC's signal output to the projector. <i>A combination of function keys will enable/disable the external display. Usually, the combination of the "Fn" key along with one of the 12 function keys turns the external display on or off.</i> No image (blue background, logo, no display). Still no image even though you carry out [RESET] in the projector's menu. Signal cable's plug is fully inserted into the input connector A message appears on the screen. () The source connected to the projector is active and available. Still no image even though you adjust the brightness and/or the contrast. Input source's resolution and frequency are supported by the projector. Image is distorted. Image appears to be trapezoidal (unchanged even though you carry out the [KEYSTONE] or [3D REFORM] adjustment). 	 Parts of the image are lost. Still unchanged even though you press the AUTO ADJUST button. Still unchanged even though you carry out [RESET] in the projector's menu. Image is shifted in the vertical or horizontal direction. Horizontal and vertical positions are correctly adjusted on a computer signal. Input source's resolution and frequency are supported by the projector. Some pixels are lost. Image is flickering. Still unchanged even though you carry out [RESET] in the projector's menu. Image is flickering. Still unchanged even though you carry out [RESET] in the projector's menu. Image shows flickering or color drift on a computer signal. Still unchanged even though you change [FAN MODE] from [HIGH ALTITUDE] to [AUTO]. Image appears blurry or out of focus. Still unchanged even though you adjusted the focus. No sound. Audio cable is correctly connected to the audio input of the projector. Still unchanged even though you adjusted the volume level. AUDIO OUT is connected to your audio equipment (only
Other	models with the AUDIO OUT connector).
Other Remote control does not work. No obstacles between the sensor of the projector and the remote control. Projector is placed near a fluorescent light that can disturb the infrared remote controls. Batteries are new and are not reversed in installation. If present on the remote control, projector selector switch is not used.	Buttons on the projector cabinet do not work (only models with the Control Panel Lock function). Control Panel Lock is not turned on or is disabled in the menu. Still unchanged even though you press and hold the EXIT button for a minimum of 10 seconds.

In the space below please describe your problem in detail.

Information on application and environment where your projector is used

Projector	
Model number:	
Serial No.:	
Date of purchase:	
Lamp operating time (hours):	
Lamp Mode:	🗆 Normal 🔲 Eco
Information on input signal:	
Horizontal synch frequency	[] kHz
Vertical synch frequency	[] Hz
Synch polarity	H □ (+) □ (−)
	V 🗆 (+) 🖾 (-)
Synch type	🗆 Separate 🗀 Composite
	🗆 Sync on Green
STATUS Indicator:	
Steady light	🗆 Orange 🔲 Green
Flashing light	[] cycles
Remote control model number	r:
Projector	PC
	DVD player
Signal cable NEC standard or other manufa	icturer's cable?

Installation environment					
Screen size: inch					
Screen type: 🗌 White matte 🗌 Beads 🗌 Polarization					
🗆 Wide angle 🛛 High contrast					
Throw distance: feet/inch/m					
Orientation: 🗌 Ceiling mount 🔲 Desktop					
Power outlet connection:					
Connected directly to wall outlet					
Connected to power cord extender or other (the number of connected equipment)					
Connected to a power cord reel or other (the number of connected equipment)					
Computer					
Manufacturer:					
Model number:					
Notebook PC 🗌 / Desktop 🗌					
Native resolution:					
Refresh rate:					
Video adapter:					
Other:					

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

TravelCare Guide

TravelCare - a service for international travelers

P

Services offered with TravelCare

E E O 1 Repair services

2 Replacement product rental service

z Replacement product rental service

Р О

Term of warranty

 Upon presentation of the warranty or receipt received upon purchase;

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

b. When only the product is brought in: Valid for a period of within 14 months of the date of manufacture indicated by the serial number attached to the product.

W R

1) If the term of warranty, model name, serial number and name

- of the store of purchase are not indicated on the warranty or have been altered.
- Problems or damage caused by dropping or shocks during shipment or movement by the customer or by improper handling by the customers.
- Problems or damage caused by improper usage or unwarrantable alterations or repairs by the customer.
- 4) Problems or damage caused by fire, salt damage, gas damage, earthquakes, lightning damage, storm or flood damage or other natural disasters or such external factors as dust, cigarette smoke, abnormal voltage, etc.

- Problems or damage caused by use in hot or humid places, in vehicles, boats or ships, etc.
- 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.
- 8) Problems or damage to lamps and other expendable supplies, included parts or optional parts.
- Other conditions stipulated in the warranty included with the product also apply.

NOTE: The product can be used overseas with voltages of 100 to 120V and 200 to 240V by using a power cable suited for the standards and power source voltage of the country in which the product is being used.

List of TravelCare Outlets 0 Е Ο In Europe ΕE Е P E R WE R Е Ρ FF In North America Е P F WF R In Oceania Р F ۱۸/ R R W R Ρ W Ŵ R W Ε R R R W 0 Ρ W

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In Asia and Middle East E	
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			PR	

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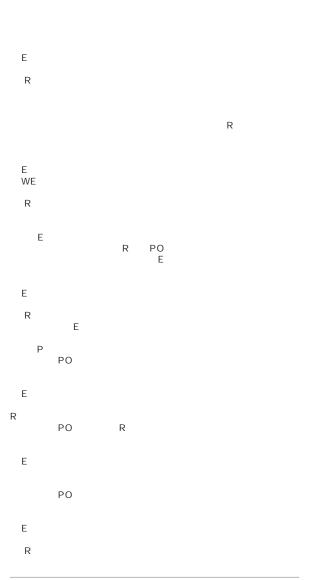
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NOTE: In countries designated with an asterisk(*), replacement product rental service are offered.

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

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Application Sheet for TravelCare Service Program

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