



Disclaimer

This user manual is provided as a free service by FixYourDLP.com. FixYourDLP is in no way responsible for the content of this manual, nor do we guarantee its accuracy. FixYourDLP does not make any claim of copyright and all copyrights remain the property of their respective owners.

About FixYourDLP.com

FixYourDLP.com (<http://www.fixyourdpl.com>) is the World's #1 resource for media product news, reviews, do-it-yourself guides, and manuals.

Informational Blog: <http://www.fixyourdpl.com>

Video Guides: <http://www.fixyourdpl.com/guides>

User Forums: <http://www.fixyourdpl.com/forum>

FixYourDLP's Fight Against Counterfeit Lamps:

<http://www.fixyourdpl.com/counterfeits>

Sponsors:

RecycleYourLamp.org – Free lamp recycling services for used lamps:

<http://www.recycleyourlamp.org>

Lamp Research - The trusted 3rd party lamp research company:

<http://www.lampresearch.com>

Discount-Merchant.com – The worlds largest lamp distributor:

<http://www.discount-merchant.com>



FixYourDLP.com

Sponsored by 

NEC

Portable Projector

VT46

User's Manual



FixYourDLP.com

Sponsored by DM

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Important Information

Safety Cautions

Precautions

Please read this manual carefully before using your NEC VT46 Projector and keep the manual handy for future reference. Your serial number is located on the bottom of your projector. Record it here:

CAUTION



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

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

CAUTION



TO PREVENT SHOCK, DO NOT OPEN THE CABINET. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED NEC 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 TWO PRONGS CAN BE FULLY INSERTED.

DO NOT OPEN THE CABINET. THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. ALL SERVICING MUST BE DONE BY QUALIFIED NEC SERVICE PERSONNEL.

DOC Compliance Notice

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

Acoustic Noise Information Ordinance-3. GSGV:

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

CAUTION



- Avoid displaying stationary images for a prolonged period of time. Doing so can result in these images being temporarily sustained on the surface of the LCD panel. If this should happen, continue to use your projector. The static background from previous images will disappear.
- Do not put the projector on its side when the lamp is turned on. Doing so may cause damage to the projector.

RF Interference

WARNING

The Federal Communications Commission does not allow any modifications or changes to the unit EXCEPT those specified by NEC Solutions (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.

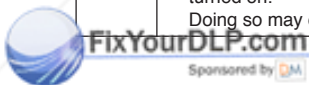
In UK, a BS approved power cable with moulded plug has a Black (five Amps) fuse installed for use with this equipment. If a power cable is not supplied with this equipment please contact your supplier.

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

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



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

Fire and Shock Precautions

1. Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the build-up of heat inside your projector. Allow at least 3 inches (10 cm) of space between your projector and a wall.
2. Prevent foreign objects such as paper clips and bits of paper from falling into your projector.
Do not attempt to retrieve any objects that might fall into your projector. Do not insert any metal objects such as a wire or screwdriver into your projector. If something should fall into your projector, disconnect it immediately and have the object removed by a qualified NEC service personnel.
3. Do not place any liquids on top of your projector.
4. Do not look into the lens while the projector is on. Serious damage to your eyes could result.
5. Keep any items such as magnifying glass out of the light path of the projector. The light being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause unpredictable outcome such as fire or injury to the eyes.
6. Do not cover the lens with the supplied lens cap or equivalent while the projector is on. Doing so can lead to melting of the cap and possibly burning your hands due to the heat emitted from the light output.
7. The projector is designed to operate on a power supply of 100-120 or 200-240 V 50/60 Hz AC. Ensure that your power supply fits this requirement before attempting to use your projector.
8. Handle the power cable carefully and avoid excessive bending. A damaged cord can cause electric shock or fire.
9. If the projector is not to be used for an extended period of time, disconnect the plug from the power outlet.
10. Do not touch the power plug during a thunderstorm. Doing so can cause electrical shock or fire.

CAUTION

1. Do not try to touch the ventilation outlet on the left side (when seen from the front) as it can become heated while the projector is turned on.
2. Do no use the tilt-foot for purposes other than originally intended. Misuses such as gripping the tilt-foot or hanging on the wall can cause damage to the projector.
3. Enable High-Speed Fan mode if you continue to use the projector for consecutive days. (From the menu, select [Advanced] → [High Speed Fan Mode].)
4. Do not unplug the power cable from the wall outlet under any one of the following circumstances.

Doing so can cause damage to the projector:

- * While the Hour Glass icon appears.
- * While the cooling fans are running. (The cooling fans continue to work for 60 seconds after the projector is turned off).

Lamp Replacement

To replace the lamp, follow all instructions provided on page E-25.

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.

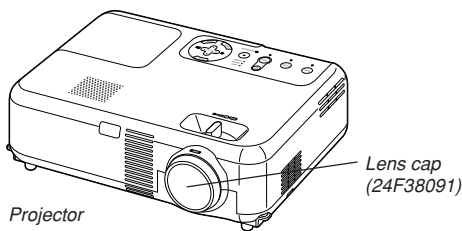
If this happens, contact your NEC dealer for lamp replacement.

- Allow a minimum of 60 seconds to elapse after turning off the projector. Then turn off the main power switch, disconnect the power cable and allow 60 minutes to cool the projector before replacing the lamp.

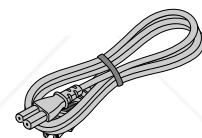
What's in the Box?

Make sure your box contains everything listed. If any pieces are missing, contact your dealer.

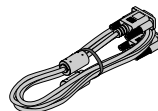
Please save the original box and packing materials if you ever need to ship your VT46 Projector.



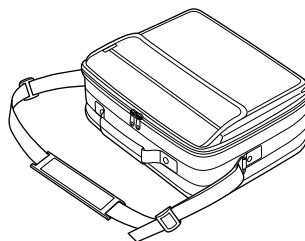
Lithium battery (CR2032)



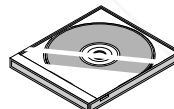
Power cable (US:7N080206) (EU:7N080005)



RGB signal cable (7N520012)



Soft carrying case (24BS7201)



CD-ROM User's manual

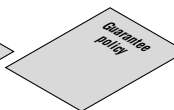
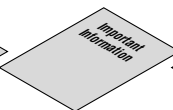
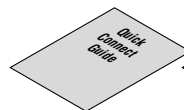


TABLE OF CONTENTS

| | |
|---|-------------|
| Important Information | E-2 |
| Safety Cautions | E-2 |
| What's in the Box? | E-3 |
| INTRODUCTION | E-5 |
| Introduction to the Projector | E-5 |
| Part Names of the Projector | E-6 |
| Top Features | E-7 |
| Terminal Panel Features | E-8 |
| Part Names of the Remote Control | E-8 |
| Battery Installation | E-9 |
| Remote Control Precautions | E-9 |
| Operating Range for Wireless Remote Control | E-9 |
| INSTALLATION AND CONNECTIONS | E-10 |
| Setting Up the Screen and the Projector | E-10 |
| Selecting a Location | E-10 |
| Throw Distance and Screen Size | E-11 |
| Making Connections | E-12 |
| Connecting Your PC or Macintosh Computer | E-12 |
| To connect SCART output (RGB) | E-12 |
| Connecting Your DVD Player | E-13 |
| Connecting Your VCR or Laser Disc Player | E-14 |
| Connecting the Supplied Power Cable | E-14 |
| PROJECTING AN IMAGE (BASIC OPERATION) | E-15 |
| Turning on the Projector | E-15 |
| Selecting a Source | E-15 |
| Adjusting the Picture Size and Position | E-16 |
| Correcting the Vertical Keystone Distortion | E-16 |
| Optimizing RGB Picture Automatically | E-17 |
| Turning Up or Down Volume | E-17 |
| Turning off the Image and Sound | E-17 |
| Turning off the Projector | E-17 |
| USING ON-SCREEN MENU | E-18 |
| Basic Menu Operation | E-18 |
| Using the Menus | E-18 |
| List of Menu Items | E-19 |
| Menu Elements | E-20 |
| Menu Descriptions & Functions | E-21 |
| Picture | E-21 |
| Brightness/Contrast/Sharpness/Color/Hue | E-21 |
| Picture Management | E-21 |
| Image | E-21 |
| Correcting Vertical Keystone Distortion [Keystone] | E-21 |
| Saving Vertical Keystone Correction [Keystone Save] | E-21 |
| Selecting Aspect Ratio [Aspect Ratio] | E-22 |
| Adjusting the Vertical Position of Image [Cinema Position](for Cinema only) | E-22 |
| Setup | E-22 |
| Selecting Menu Language [Language] | E-22 |
| Selecting Menu Color [Menu Color Select] | E-22 |
| Selecting Menu Display Time [Menu Display Time] | E-22 |
| Selecting a Color or Logo for Background [Background] | E-22 |
| Selecting Projector Orientation [Orientation] | E-22 |
| Advanced | E-22 |
| Security | E-22 |
| Disabling the Cabinet Buttons [Control Panel Key Lock] | E-23 |
| Enabling High Speed Fan Mode [High Speed Fan Mode] | E-23 |
| Selecting Signal Format [Signal Select] | E-23 |
| Page2 | E-23 |
| Enabling Power Management [Power Management] | E-23 |
| Selecting Noise Reduction Level [Noise Reduction] | E-23 |
| Enabling Auto Adjust [Auto Adjust] | E-24 |
| Adjusting Position/Clock (when Auto Adjust is off) | E-24 |
| Selecting Communication Speed [Communication Speed] | E-24 |
| Information | E-24 |
| Default | E-24 |
| Returning to Factory Default [Factory Default] | E-24 |
| Resetting the Filter Usage Hours [Clear Filter Usage] | E-24 |
| Clearing Lamp Hour Meter [Clear Lamp Hour Meter] | E-24 |

| | |
|--|-------------|
| MAINTENANCE | E-25 |
| Replacing the Lamp | E-25 |
| Cleaning | E-26 |
| Cleaning or Replacing the Filter | E-26 |
| Cleaning the Cabinet and the Lens | E-26 |
| TROUBLESHOOTING | E-27 |
| Power Indicator | E-27 |
| Status Indicator | E-27 |
| Lamp Indicator | E-27 |
| Common Problems & Solutions | E-28 |
| SPECIFICATIONS | E-29 |
| APPENDIX | E-30 |
| Cabinet Dimensions | E-30 |
| Pin Assignments of D-Sub RGB Input Connector | E-30 |
| Compatible Input Signal List | E-31 |
| PC Control Codes | E-32 |
| Cable Connection | E-32 |
| TravelCare Guide | E-33 |

INTRODUCTION

Introduction to the Projector

This section introduces you to your new VT46 Projector and describes the features and controls.

Congratulations on Your Purchase of The VT46 Projector

The VT46 is one of the very best projectors available today. The VT46 enables you to project precise images up to 300 inches across (measured diagonally) from your PC or Macintosh computer (desktop or notebook), VCR, DVD player, document camera, or a laser disc player. You can use the projector on a tabletop or cart, you can use the projector to project images from behind the screen, and the projector can be permanently mounted on a ceiling*¹. The remote control can be used wirelessly.

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

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

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

Features you'll enjoy:

- Keystone correction allows you to correct trapezoidal distortion so that the image is square.
- Low level operation noise
- Short focal length lens
- 160W lamp
- Direct keys for source selection
- New Color Management system
- New menu design improves operation
- NEC's exclusive Advanced AccuBlend intelligent pixel blending technology - an extremely accurate image compression technology - offers a crisp image with UXGA (1600 × 1200) resolution*².
- Supports most IBM VGA, SVGA, XGA, SXGA/UXGA (with Advanced AccuBlend)*², Macintosh, component signal (YCbCr/ YPbPr) or any other RGB signals within a horizontal frequency range of 24 to 100 kHz and a vertical frequency range of 50 to 120 Hz. This includes NTSC, PAL, PAL-N, PAL-M, PAL60, SECAM and NTSC4.43 standard video signals.

*² A UXGA (1600 × 1200), SXGA (1280 × 1024) and XGA (1024 × 768) image are displayed with NEC's Advanced AccuBlend.

NOTE: Composite video standards are as follows:

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

PAL: TV standard used in Western Europe.

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

PAL-M: TV standard used in Brazil.

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

SECAM: TV standard used in France and Eastern Europe.

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

- The supplied remote control can be used without a cable.

You can control the projector with a PC using the PC Control port.

The contemporary cabinet design is light, compact, easy to carry, and complements any office, boardroom or auditorium.

About this user's manual

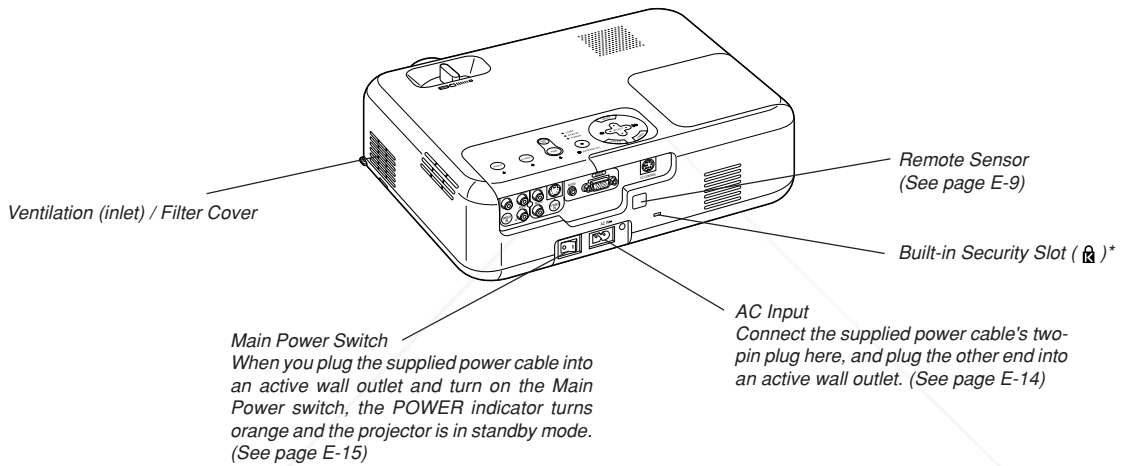
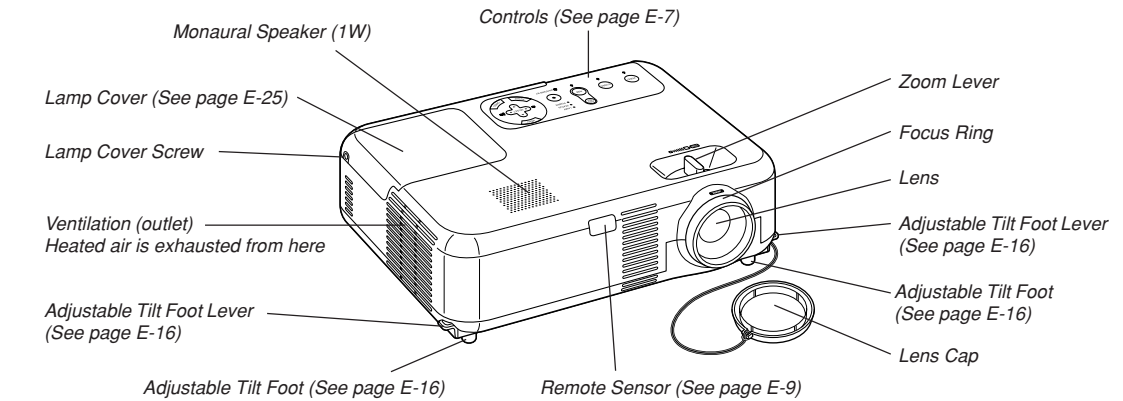
The fastest way to get started is to take your time and do everything right the first time. Take a few minutes now to review the user's manual. This may save you time later on. At the beginning of each section of the manual you'll find an overview. If the section doesn't apply, you can skip it.

- IBM is a trademark or registered trademark of International Business Machines Corporation.
- Mac and PowerBook are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.
- Windows, Windows 98, Windows Me, Windows XP or Windows 2000 are trademarks or registered trademarks of Microsoft Corporation.
- Other product and company names mentioned in this user's manual may be the trademarks or registered trademarks of their respective holders.



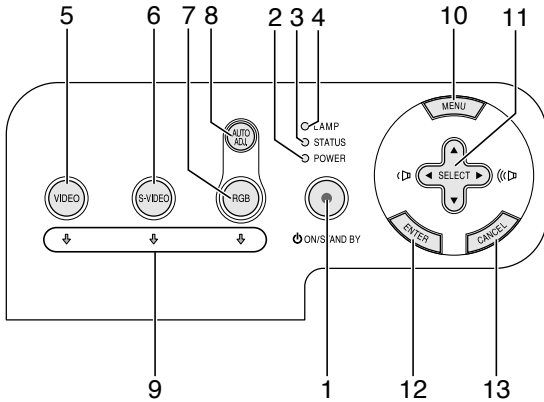
Discount-Merchant.com (800) 281-8860
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Part Names of the Projector

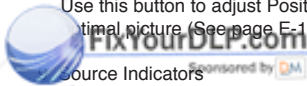


* This security slot supports the MicroSaver[®] Security System. MicroSaver[®] is a registered trademark of Kensington Microware Inc. The logo is trademarked and owned by Kensington Microware Inc.

Top Features



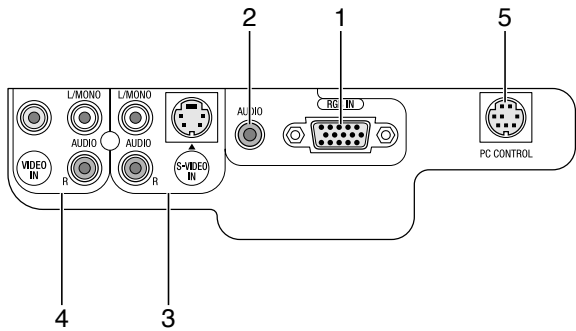
1. **POWER Button (ON / STAND BY) (⏻)**
Use this button to turn the power on and off when the main power is supplied and the projector is in standby mode.
To turn on the projector, press and hold this button for a minimum of two seconds. To turn off the projector, press this button twice.
2. **POWER Indicator**
When this indicator is green, the projector is on; when this indicator is orange, it is in standby mode. See the Power Indicator section on page E-27 for more details.
3. **STATUS Indicator**
If this light blinks red rapidly, it indicates that an error has occurred, the lamp cover is not attached properly or the projector has overheated. If this light remains orange, it indicates that you have pressed a cabinet key while the Control Panel Key Lock is enabled. See the Status Indicator section on page E-27 for more details.
4. **LAMP Indicator**
If this light blinks red rapidly, it's warning you that the lamp has reached the end of its usable life. After this light appears, replace the lamp as soon as possible (See page E-25). See the Lamp Indicator section on page E-27 for more details.
5. **VIDEO Button**
Press this button to select a video source from a VCR, DVD player, laser disc player or document camera.
6. **S-VIDEO Button**
Press this button to select an S-Video source from a VCR, DVD player, laser disc player or document camera.
7. **RGB Button**
Press this button to select an RGB source from computer or component equipment connected to your RGB port.
8. **AUTO ADJ. Button**
Use this button to adjust Position-H/V and Pixel Clock/Phase for an optimal picture. (See page E-17).
9. **Source Indicators**
When one of the RGB, VIDEO or S-VIDEO input is selected, the corresponding source indicator lights.
10. **MENU Button**
Displays the menu.
11. **SELECT ▲▼◀▶ / Volume Buttons**
▲▼ : Use these buttons to select the menu of the item you wish to adjust.
◀▶ : Use these buttons to change the level of a selected menu item. A press of the ▶ button executes the selection. When no menus appear, these buttons work as a volume control.
12. **ENTER Button**
Executes your menu selection and activates items selected from the menu.
13. **CANCEL Button**
Pressing this button will return to the previous menu.
While you are in the main menu, pressing this button will close the menu.



Discount Merchant.com (800) 281-8860

TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Terminal Panel Features



- 1. RGB IN / Component Input Connector (Mini D-Sub 15 Pin)**
Connect your computer or other analog RGB equipment such as IBM compatible or Macintosh computers. Use the supplied RGB cable to connect to your computer. This also serves as a component input connector that allows you to connect a component video output of component equipment such as a DVD player. This connector also supports SCART output signal. See page E-12 for more details.

- 2. RGB AUDIO Input Mini Jack (Stereo Mini)**
This is where you connect the audio output from your computer or DVD player when connected to the RGB input. A commercially available audio cable is required.

- 3. S-VIDEO IN Connector (Mini DIN 4 Pin)**
Here is where you connect the S-Video input from an external source like a VCR.

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

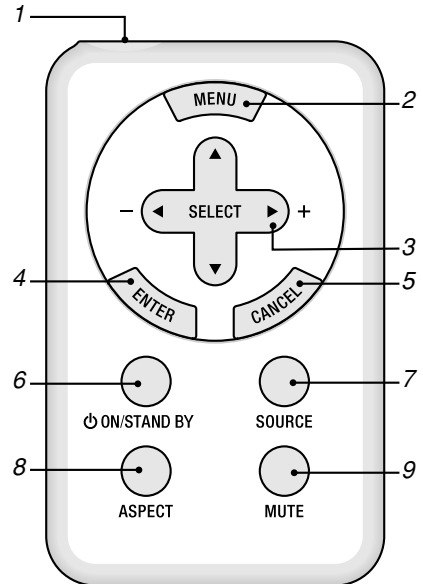
S-VIDEO AUDIO Input Jacks R/L (RCA)
These are your left and right channel audio inputs for stereo sound from an S-Video source.

- 4. VIDEO IN Connector (RCA)**
Connect a VCR, DVD player, laser disc player, or document camera here to project video.

VIDEO AUDIO Input Jacks R/L (RCA)
These are your left and right channel audio inputs for stereo sound from a Video source.

- 5. PC CONTROL Port (DIN 8 Pin)**
Use this port to connect your PC to control your projector. This enables you to use your PC and serial communication protocol to control the projector. If you are writing your own program, typical PC control codes are on page E-32.

Part Names of the Remote Control



- 1. Infrared Transmitter**
Direct the remote control toward the remote sensor on the projector cabinet.

- 2. MENU Button**
Displays the menu for various settings and adjustments.

- 3. SELECT ▲▼◀▶ / Volume Buttons**
 - ▲▼ : Use these buttons to select the menu of the item you wish to adjust.
 - ◀▶ : Use these buttons to change the level of a selected menu item. A press of the ▶ button executes the selection. When no menus appear, these buttons work as a volume control.

- 4. ENTER Button**
Executes your menu selection and activates items selected from the menu.

- 5. CANCEL Button**
Pressing this button will return to the previous menu. While you are in the main menu, pressing this button will close the menu.

- 6. POWER Button (ON/STAND BY) (⏻)**
Use this button to turn the power on and off when the main power is supplied and the projector is in standby mode. To turn on the projector, press and hold this button for a minimum of two seconds. To turn off the projector, press this button twice.

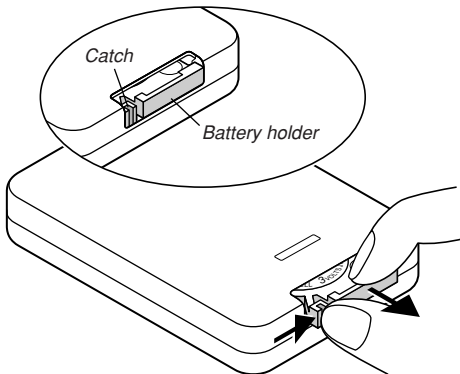
- 7. SOURCE Button**
Press this button to select a video source such as a PC, VCR or DVD player. Each time this button is pressed, the input source will change as follows:
RGB → Video → S-Video → RGB → ...

- 8. ASPECT Button**
Press this button to display the Aspect Ratio select screen. See page E-22.

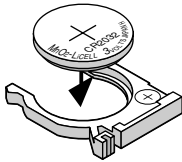
- 9. MUTE Button**
This button turns off the image and sound for a short period of time. Press again to restore the image and sound.

Battery Installation

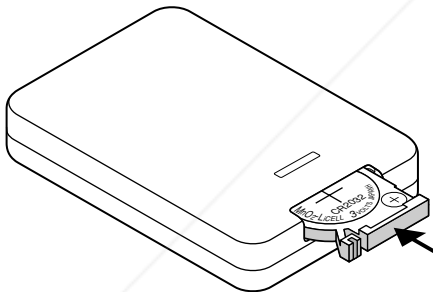
1. Push the catch to the right and remove the battery holder.



2. Remove the old Lithium coin cell and install new one (CR2032). Ensure that the side with the mark "+" is up.



3. Push the battery holder back into the remote control until you feel a click.



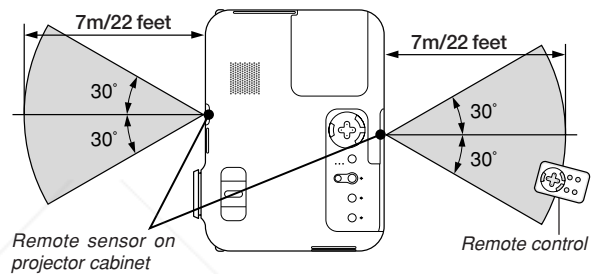
Remote Control Precautions

- Handle the remote control carefully.
- If the remote control gets wet, wipe it dry immediately.
- Avoid excessive heat and humidity.
- If you will not be using the remote control for a long time, remove the battery.
- Do not place the battery upside down.
- Keep the coin cell battery out of reach of children so as not to allow them to swallow the cell battery.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to your local regulations.

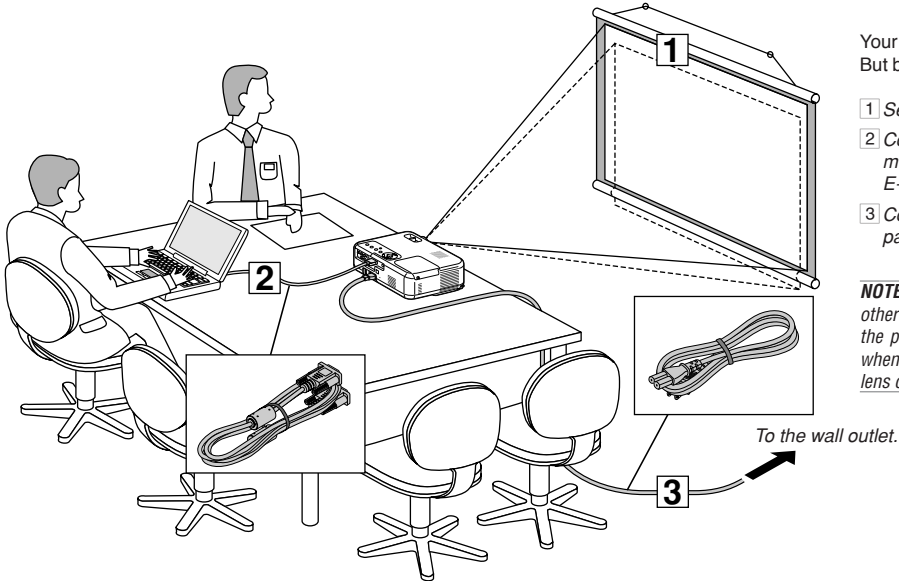
Operating Range for Wireless Remote Control



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

INSTALLATION AND CONNECTIONS

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



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

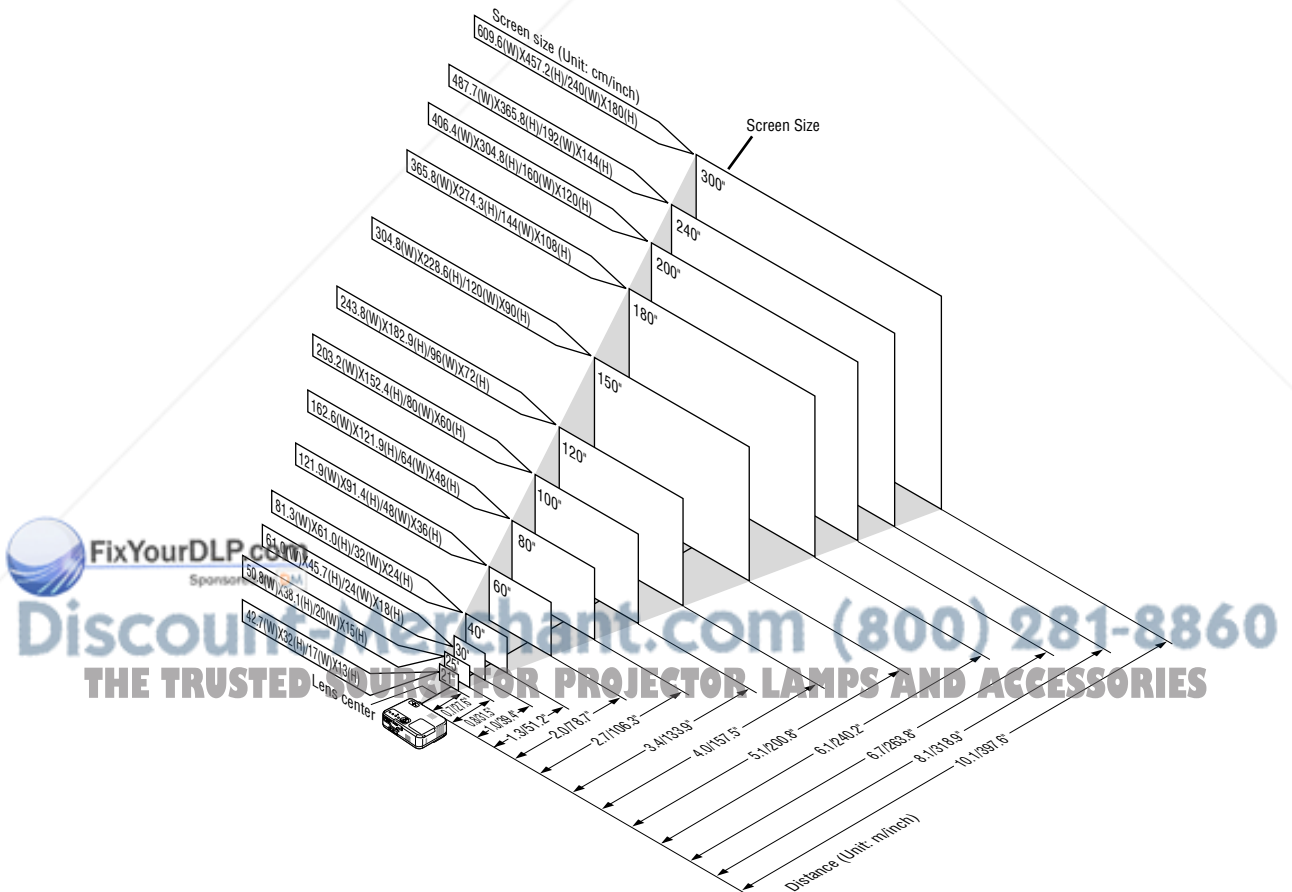
- 1 Set up a screen and the projector.
- 2 Connect your computer or video equipment to the projector. See page E-12 – 14.
- 3 Connect the supplied power cable. See page E-14.

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.

Setting Up the Screen and the Projector

Selecting a Location

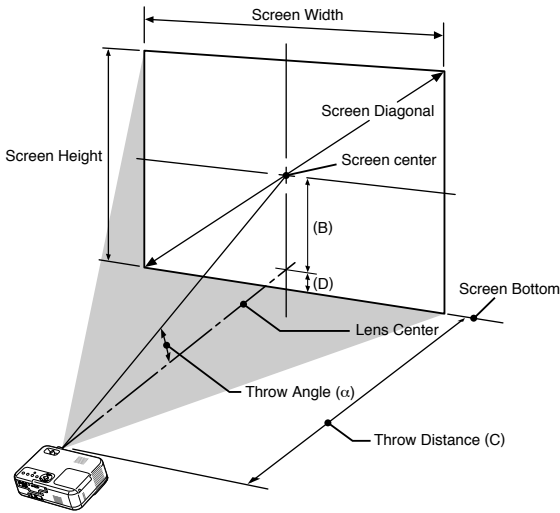
The further your projector is from the screen or wall, the larger the image. The minimum size the image can be is approximately 21" (0.53 m) measured diagonally when the projector is roughly 27.6 inches (0.7 m) from the wall or screen. The largest the image can be is 300" (7.6 m) when the projector is about 393.7 inches (10 m) from the wall or screen. Use the drawing below as a guide.



Throw Distance and Screen Size

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

Distance Chart



B = Vertical distance between lens center and screen center

C = Throw distance

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

α = Throw angle

NOTE: Distances may vary +/-5%.

| Screen Size | | | B inch | C Wide - Tele inch | D inch | α Wide - Tele degree |
|------------------|---------------|----------------|-----------|--------------------------|-----------|-----------------------------------|
| Diagonal inch | Width inch | Height inch | | | | |
| 21 | 17 | 13 | 5 | — - 29 | 1 | — - 10.0 |
| 25 | 20 | 15 | 6 | 29 - 35 | 1 | 11.8 - 9.9 |
| 30 | 24 | 18 | 7 | 35 - 42 | 2 | 11.7 - 9.8 |
| 40 | 32 | 24 | 10 | 47 - 57 | 2 | 11.6 - 9.7 |
| 60 | 48 | 36 | 15 | 71 - 86 | 3 | 11.5 - 9.6 |
| 72 | 58 | 43 | 17 | 86 - 103 | 4 | 11.4 - 9.6 |
| 80 | 64 | 48 | 19 | 96 - 115 | 5 | 11.4 - 9.6 |
| 84 | 67 | 50 | 20 | 101 - 121 | 5 | 11.4 - 9.6 |
| 90 | 72 | 54 | 22 | 108 - 129 | 5 | 11.4 - 9.5 |
| 100 | 80 | 60 | 24 | 120 - 144 | 6 | 11.4 - 9.5 |
| 120 | 96 | 72 | 29 | 144 - 173 | 7 | 11.4 - 9.5 |
| 150 | 120 | 90 | 36 | 181 - 217 | 9 | 11.4 - 9.5 |
| 180 | 144 | 108 | 44 | 217 - 260 | 10 | 11.3 - 9.5 |
| 200 | 160 | 120 | 48 | 241 - 290 | 12 | 11.3 - 9.5 |
| 210 | 168 | 126 | 51 | 253 - 304 | 12 | 11.3 - 9.5 |
| 240 | 192 | 144 | 58 | 290 - 348 | 14 | 11.3 - 9.5 |
| 270 | 216 | 162 | 65 | 326 - 391 | 16 | 11.3 - 9.5 |
| 300 | 240 | 180 | 73 | 363 - 400 | 17 | 11.3 - 9.5 |

| Screen Size | | | B mm | C Wide - Tele mm | D mm | α Wide - Tele degree |
|----------------|-------------|--------------|---------|------------------------|---------|-----------------------------------|
| Diagonal mm | Width mm | Height mm | | | | |
| 533 | 427 | 320 | 130 | — - 740 | 30 | — - 10.0 |
| 635 | 508 | 381 | 150 | 740 - 880 | 40 | 11.8 - 9.9 |
| 762 | 610 | 457 | 180 | 890 - 1070 | 40 | 11.7 - 9.8 |
| 1016 | 813 | 610 | 250 | 1200 - 1440 | 60 | 11.6 - 9.7 |
| 1524 | 1219 | 914 | 370 | 1810 - 2180 | 90 | 11.5 - 9.6 |
| 1829 | 1463 | 1097 | 440 | 2180 - 2620 | 110 | 11.4 - 9.6 |
| 2032 | 1626 | 1219 | 490 | 2430 - 2920 | 120 | 11.4 - 9.6 |
| 2134 | 1707 | 1280 | 520 | 2550 - 3060 | 120 | 11.4 - 9.6 |
| 2286 | 1829 | 1372 | 550 | 2740 - 3290 | 130 | 11.4 - 9.5 |
| 2540 | 2032 | 1524 | 610 | 3050 - 3660 | 150 | 11.4 - 9.5 |
| 3048 | 2438 | 1829 | 740 | 3660 - 4400 | 180 | 11.4 - 9.5 |
| 3810 | 3048 | 2286 | 920 | 4590 - 5510 | 220 | 11.4 - 9.5 |
| 4572 | 3658 | 2743 | 1110 | 5510 - 6610 | 270 | 11.3 - 9.5 |
| 5080 | 4064 | 3048 | 1230 | 6130 - 7350 | 300 | 11.3 - 9.5 |
| 5334 | 4267 | 3200 | 1290 | 6440 - 7720 | 310 | 11.3 - 9.5 |
| 6096 | 4877 | 3658 | 1470 | 7360 - 8830 | 350 | 11.3 - 9.5 |
| 6858 | 5486 | 4115 | 1660 | 8290 - 9940 | 400 | 11.3 - 9.5 |
| 7620 | 6096 | 4572 | 1840 | 9210 - 11050 | 440 | 11.3 - 9.5 |

WARNING

* Installing your projector on the ceiling must be done by a qualified technician. Contact your NEC dealer for more information.

* Do not attempt to install the projector yourself.

Use your projector on a solid, level surface. If the projector falls to the ground, you can be injured and the projector severely damaged.

- Do not use the projector where temperatures vary greatly. The projector must be used at temperatures between 32° F (0° C) and 95° F (35° C).
- Do not expose the projector to moisture, dust, or smoke. This will harm the screen image.
- Ensure that you have adequate ventilation around your projector so heat can dissipate. Do not cover the vents on the side or the front of the projector.

Reflecting the Image

Using a mirror to reflect your projector's image enables you to enjoy a much larger image. Contact your NEC dealer if you need a mirror. If you're using a mirror and your image is inverted, use the MENU and SELECT buttons on your projector cabinet or your remote control to correct the orientation. (See page E-22.)

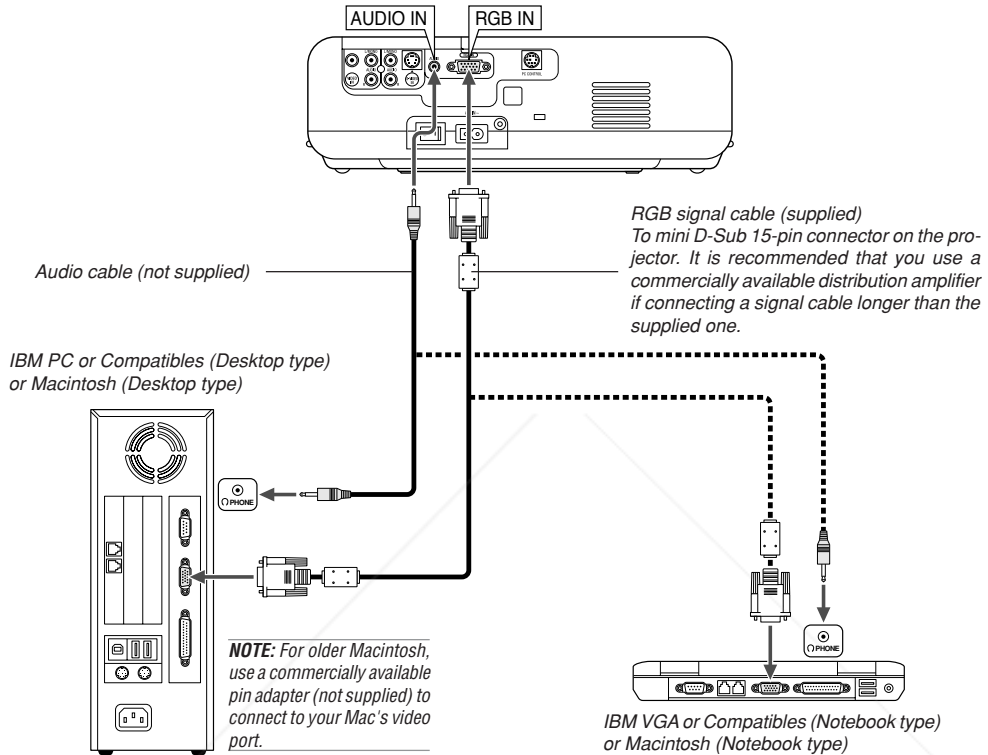
Making Connections

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

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

* If you accidentally hit the POWER (ON/STAND BY) button on the remote control, wait 60 seconds and then press the POWER (ON/STAND BY) button again to resume.

Connecting Your PC or Macintosh Computer



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

To connect to a PC or Macintosh, simply:

1. Turn off the power to your projector and computer.

2. Use the supplied signal cable to connect your PC or Macintosh to the projector.
3. Turn on the projector and the computer.
4. If the projector goes blank after a period of inactivity, it may be caused by a screen saver installed on the computer you've connected to the projector.

To connect SCART output (RGB)

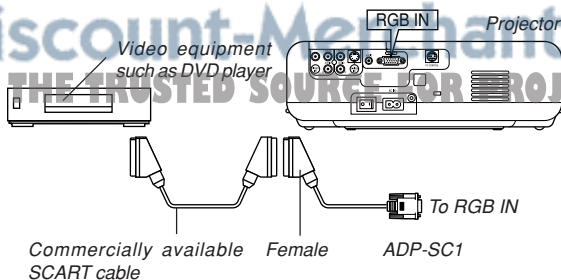
Before connections: An exclusive SCART adapter (ADP-SC1) and a commercially available SCART cable are required for this connection.

NOTE: Audio signal is not available for this connection.



Sponsored by

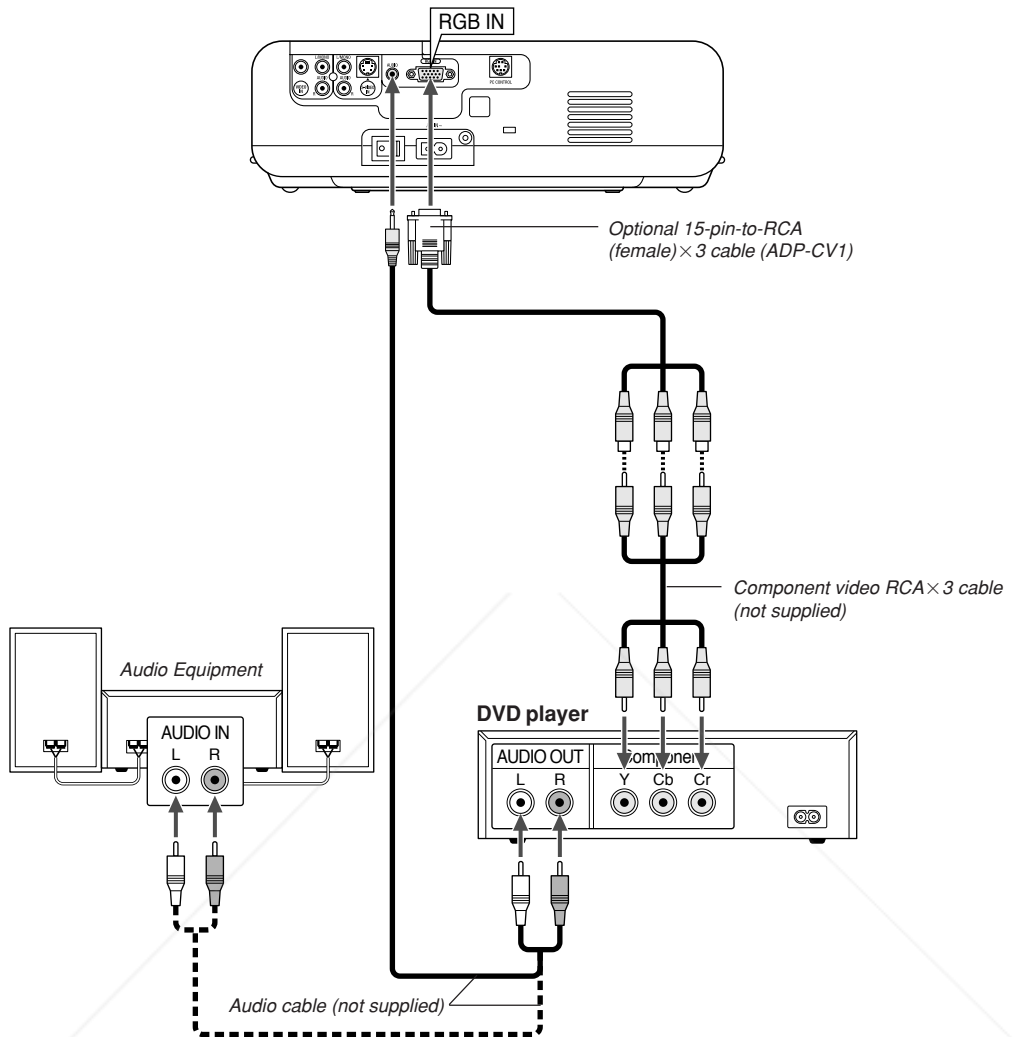
Discount-Me.com THE TRUSTED SOURCE FOR PROJECTOR ACCESSORIES



1. Turn off the power to the projector and your video equipment.
2. Use the NEC ADP-SC1 SCART adapter and a commercially available SCART cable to connect the RGB input of your projector and a SCART output (RGB) of your video equipment.
3. Turn on the power to the projector and your video equipment.
4. Use the RGB button on the projector cabinet to select the RGB input.
5. Press the MENU button on the projector cabinet to display the menu.
6. From the menu, select [Advanced] → [Signal Select RGB] → [Scart]. SCART is a standard European audio-visual connector for TVs, VCRs and DVD players. It is also referred to as Euro-connector.

NOTE: The ADP-SC1 SCART adapter is obtainable from your NEC dealer in Europe. Contact your NEC dealer in Europe for more information.

Connecting Your DVD Player



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

1. Turn off the power to your projector and DVD player.
2. If your DVD player has the component video (Y,Cb,Cr) output, use a commercially available component video cable (RCAX3) and the optional 15-pin-to-RCA (female) x 3 cable to connect your DVD player to the RGB IN connection on the projector.

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

3. Turn on the projector and DVD player.

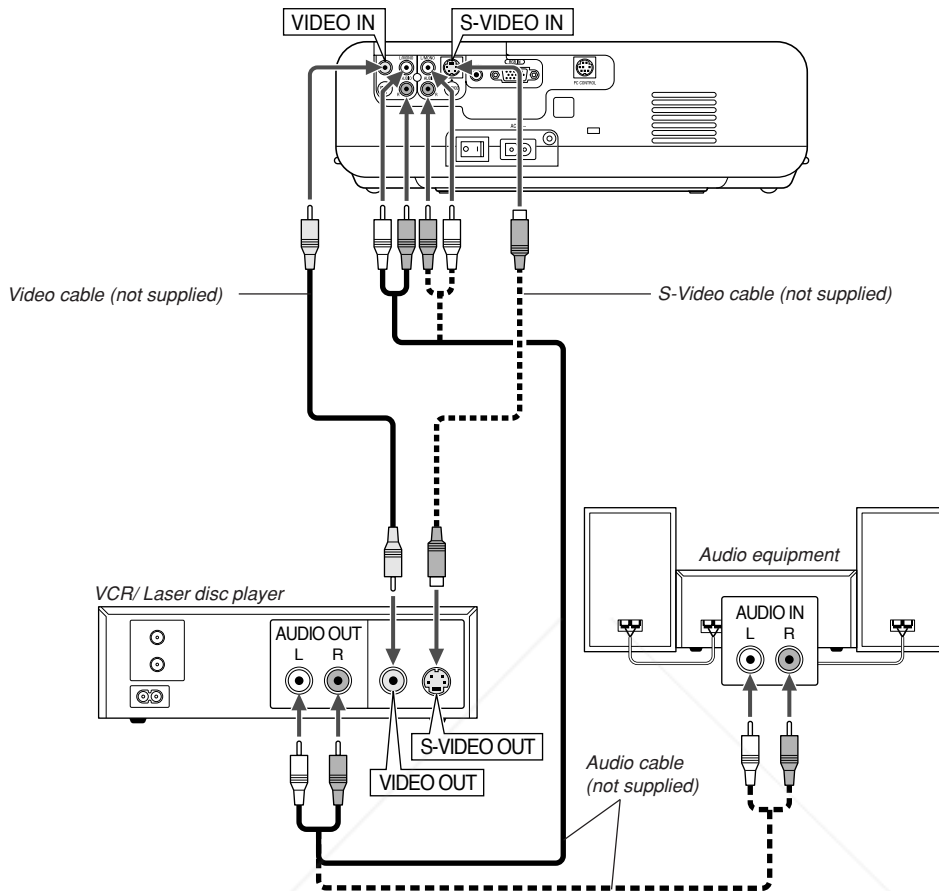
NOTE: Refer to your DVD player's owner's manual for more information about your DVD player's video output requirements.



Sponsored by DM

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

Connecting Your VCR or Laser Disc Player



Use common RCA cables (not provided) to connect your VCR, laser disc player or document camera to your projector.

To make these connections, simply:

1. Turn off the power to the projector and VCR, laser disc player or document camera.
2. Connect one end of your RCA cable to the video output connector on the back of your VCR or laser disc player, connect the other end to the Video input on your projector. Use an audio cable (not supplied) to connect the audio from your VCR or laser disc player to your audio equipment (if your VCR or laser disc player has this capability). Be careful to keep your right and left channel connections correct for stereo sound.
3. Turn on the projector and the VCR or laser disc player.

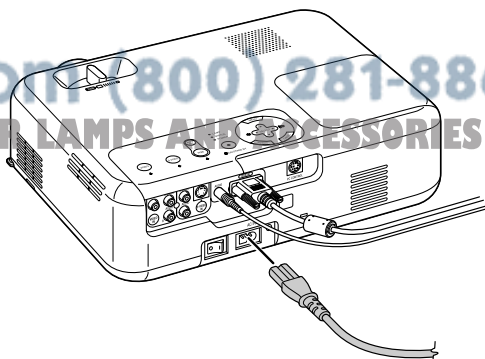
NOTE: Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.

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

Connecting the Supplied Power Cable

Connect the supplied power cable to the projector.

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



PROJECTING AN IMAGE (BASIC OPERATION)

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

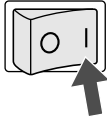
2. Press the ENTER button to execute the selection.

Turning on the Projector

NOTE:

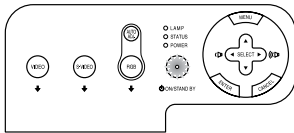
- The projector has two power switches: main power switch and POWER (ON/STAND BY) button.
- When plugging in or unplugging the supplied power cable, make sure that the main power switch is pushed to the off (O) position. Failure to do so may cause damage to the projector.

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



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

Only after you press the POWER (ON/STAND BY) button on the projector cabinet or the remote control for a minimum of 2 seconds will the power indicator turn to green and the projector become ready to use.

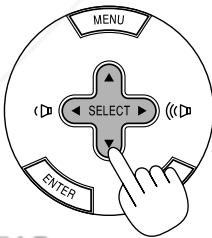


Note on Startup screen (Menu Language Select screen)

When you first turn on the projector, you will get the Startup screen. This screen gives you the opportunity to select one of the 19 menu languages: English, German, French, Italian, Spanish, Swedish, Japanese, Korean, the Simplified Chinese, Polish, Hungarian, Russian, Greek, Turkish, Dutch, Norwegian, Finnish, Portuguese and Czech.

To select a menu language, follow these steps:

1. Use the SELECT ▲ or ▼ button to select one of the 19 languages for the menu.



After this has been done, you can proceed to the menu operation. If you want, you can select the menu language later. See "Language" on page E-22.

NOTE: Immediately after turning on the projector, screen flicker may occur. This is not a fault. Wait 3 to 5 minutes until the lamp lighting is stabilized.

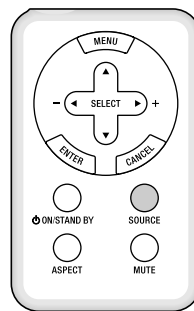
If one of the following things happens, the projector will not turn on.

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

Selecting a Source

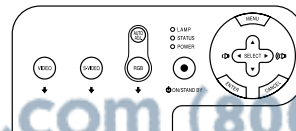
Selecting the computer or video source

Using the Remote Control

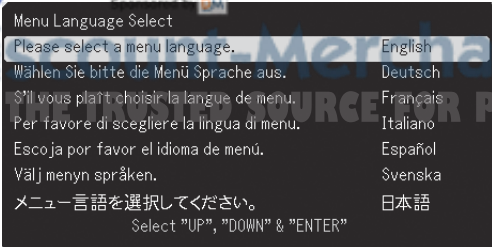


Press the SOURCE button.

Using the cabinet buttons



Press any one of the RGB, VIDEO or S-VIDEO buttons.



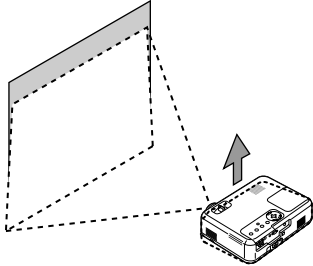
NOTE: If no input signal is available, the projector will display a blue background (factory preset).

Adjusting the Picture Size and Position

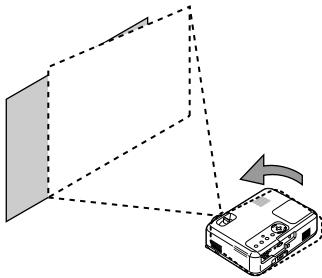
Place your projector on a flat level surface and ensure that the projector is square to the screen.

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

* If the projected image does not appear square to the screen then use the Keystone feature for proper adjustment. See page E-21.

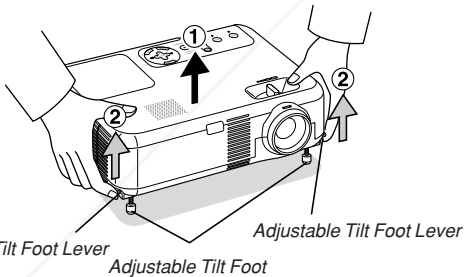


Move the projector left to center the image horizontally on the screen.



Adjust the Tilt Foot

1. Lift the front edge of the projector.



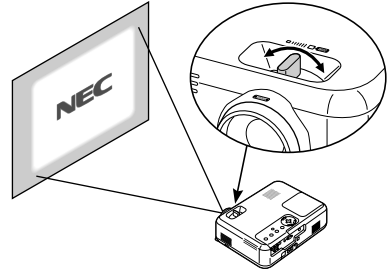
2. Push up the Adjustable Tilt Foot Levers on the right and left sides of the projector to extend the adjustable tilt feet (maximum height).
3. Push down the Adjustable Tilt Foot Levers.

CAUTION

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

Zoom

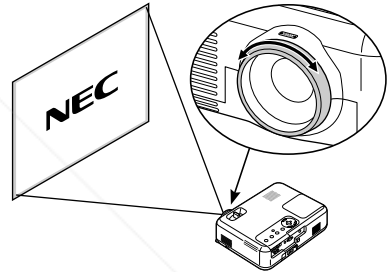
Use the ZOOM lever to finely adjust the image size on the screen.



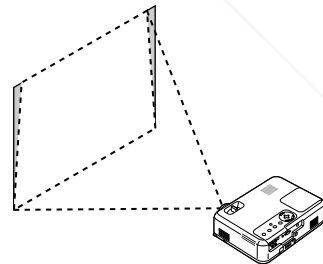
You can use the ZOOM lever to enlarge or reduce an image size.

Focus

Use the FOCUS ring to obtain the best focus.



Correcting the Vertical Keystone Distortion



Use Keystone correction for proper adjustment. See page E-21.

FixYourDLP.com
Sponsored by DLP

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

4. Lower the front of the projector to the desired height (max. 40mm/ 1.6") and release the Adjustable Tilt Foot Lever to lock the Adjustable tilt foot. There is approximately 10 degrees of up and down adjustment for the front of the projector.

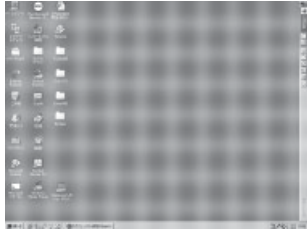
Optimizing RGB Picture Automatically

Adjusting the Image Using Auto Adjust

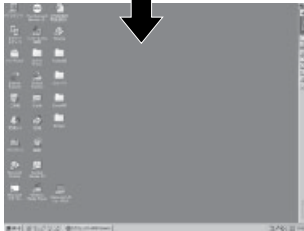
Optimizing RGB image automatically

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

[Poor picture]



[Normal picture]



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

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

NOTE:

- Some signals may not be displayed correctly or take time.
- The Auto Adjust function does not work for component and video signal.
- If the Auto Adjust operation cannot optimize the RGB signal, try to adjust Clock and Phase manually. See page E-24.

Turning Up or Down Volume

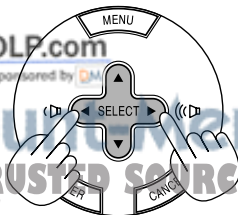
Sound level from the speaker on the projector can be adjusted.

NOTE: When the menu appears, you cannot adjust the volume.



FixYourDLP.com

Sponsored by DLP

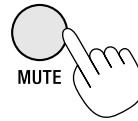


decrease volume

increase volume

Turning off the Image and Sound

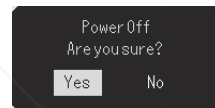
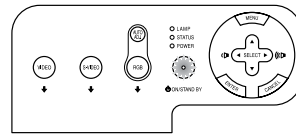
Press the MUTE button on the remote control to turn off the image and sound for a short period of time. Press again to restore the image and sound.



Turning off the Projector

To turn off the projector:

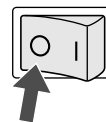
First, press the POWER (ON/STAND BY) button on the projector cabinet or the remote control. The "Power Off / Are you sure?" message will appear.



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

The power indicator will glow orange. After the projector turns off, the cooling fans keep operating for 60 seconds (Cooling-off time).

Lastly, turn off the Main Power switch. The power indicator will go out. Last unplug the power cable.



CAUTION

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

- While the Hour Glass icon appears.
- While the cooling fans are running. (The cooling fans continue to work for 60 seconds after the projector is turned off).

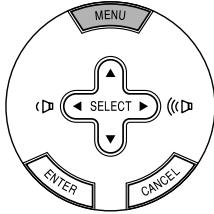
USING ON-SCREEN MENU

Basic Menu Operation

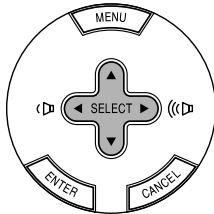
Using the Menus

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

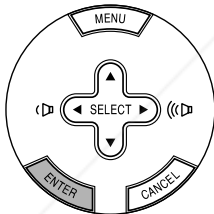
1. Press the MENU button on the remote control or projector cabinet to display the Menu.



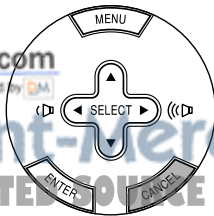
2. Press the SELECT ▲▼ buttons on the remote control or the projector cabinet to highlight the menu for the item you want to adjust or set.



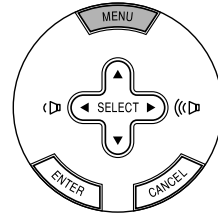
3. Press the SELECT ► button or the ENTER button on the remote control or the projector cabinet to select a submenu or item.



4. Adjust the level or turn the selected item on or off by using SELECT ◀ or ▶ buttons on the remote control or the projector cabinet.
The on-screen slide bar will show you the amount of increase or decrease.
5. Changes are stored until you adjust it again.
CANCEL Return to the previous screen.



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

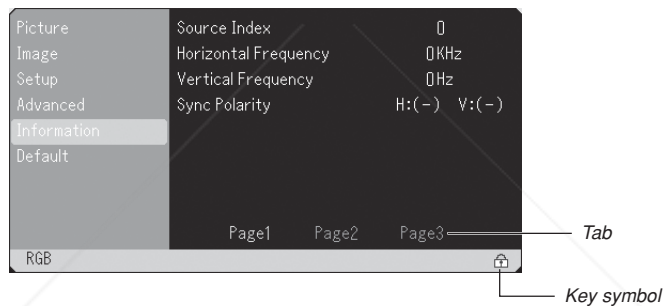
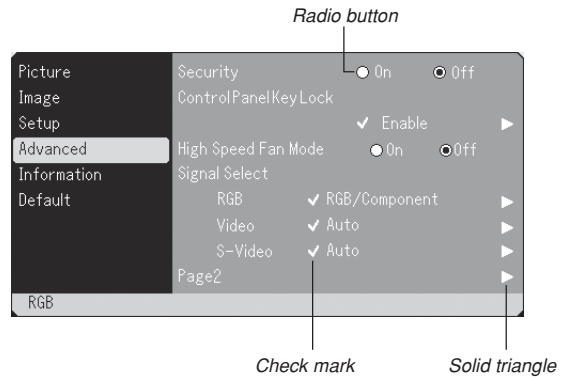
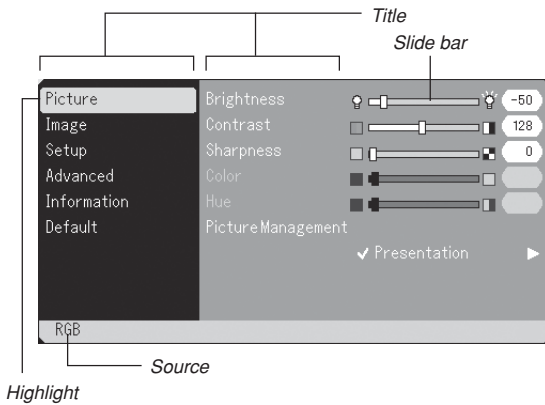


List of Menu Items

| | |
|--|---|
| Picture Brightness Contrast Sharpness Color Hue Picture Management | Presentation, Video, Movie, Graphic, sRGB User Base Setting Presentation, Video, Movie, Graphic, sRGB White Balance Brightness R,G,B Contrast R,G,B Gamma Correction Dynamic, Black Detail, Natural |
| Image Keystone Keystone Save Aspect Ratio Cinema Position | On, Off Normal, Wide Zoom, Cinema, Native |
| Setup Language Menu Color Select Menu Display Time Background Orientation | Language-1 English, Deutsch, Français, Italiano, Español, Português, Nederlands Language-2 Svenska, Norsk, Suomi, Česky, Magyar, Polski, Türkçe Language-3 Русский, Ελληνικά, 日本語, 中文, 한국어 Color, Monochrome Manual, Auto 5 sec, Auto 15sec, Auto 45 sec Blue, Black, Logo Desktop Front, Ceiling Rear, Desktop Rear, Ceiling Front |
| Advanced Security Control Panel Key Lock High Speed Fan Mode Signal Select RGB Video S-Video Page2 | On, Off Enable, Disable On, Off RGB/Component, RGB, Component, Scart Auto, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM Auto, NTSC3.58, NTSC4.43, PAL, PAL-M, PAL-N, PAL60, SECAM Power Management On, Off Noise reduction Off, Low, High Auto Adjust On, Off Vertical Horizontal Clock Phase Communication Speed 4800, 9600, 19200 |
| Information Page1 Page2 Page3 | Source Index, Horizontal Frequency, Vertical Frequency, Sync Polarity Signal Type, Video Type, Sync Type, Interlace Remaining Lamp Time, Lamp Hour Meter, Filter Usage, Projector Usage |
| Default Factory Default Clear Filter Usage Clear Lamp Hour Meter | Current Signal All Data |

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

Menu Elements

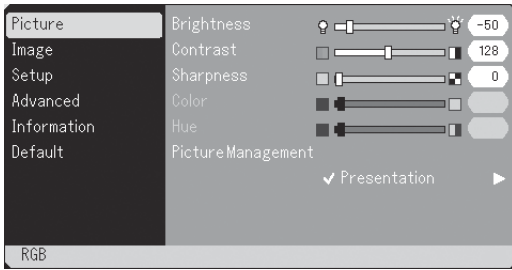


Menu windows or dialog boxes typically have the following elements:

- Title Indicates the menu title.
- Highlight Indicates the selected menu or item.
- Source Indicates the currently selected source.
- Solid triangle Indicates further choices are available. A highlighted triangle indicates the item is active.
- Tab Indicates a group of features in a dialog box. Selecting on any tab brings its page to the front.
- Radio button Use this round button to select an option in a dialog box.
- Check mark Indicates the item is selected.
- Slide bar Indicates settings or the direction of adjustment.
- Key symbol Indicates the Control Panel Key Lock is enabled.

Menu Descriptions & Functions

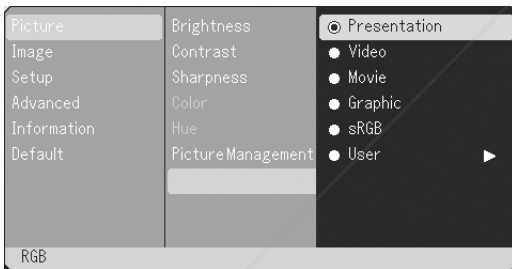
Picture



Adjusting Brightness, Contrast, Sharpness, Color, Hue and Picture Management.

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

Picture Management



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

- Presentation .. Recommended for making a presentation using a PowerPoint file
- Video Recommended for regular picture such as TV program
- Movie Recommended for movie
- Graphic Recommended for graphics
- sRGB Standard color values
- User User adjustable

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

User Adjust (when using User)

When selecting user adjustable presetting (User), the submenu will be displayed. You can customize each gamma or color. To do so, first select "User" and press the ENTER button, and then proceed the following steps.

Selecting Base Setting <Base Setting>

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

- Presentation
- Video
- Movie
- Graphic
- sRGB

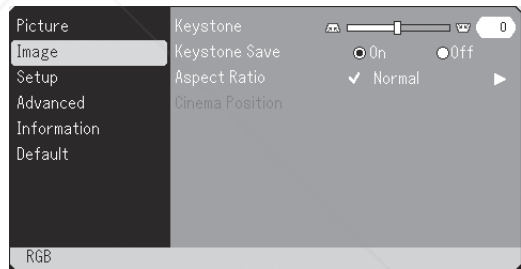
Adjusting White Balance <White Balance>

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

Selecting Gamma Correction Mode <Gamma Correction>

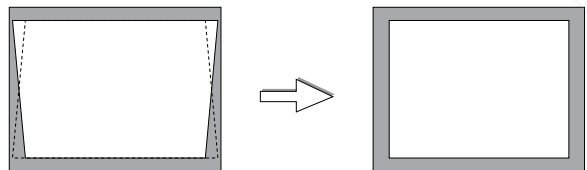
- Each mode is recommended for :
 - Dynamic For true color reproduction of natural tones
 - Black Detail For dark portions of a picture
 - Natural Normal settings

Image



Correcting Vertical Keystone Distortion [Keystone]

This feature corrects the keystone (trapezoidal) distortion to make the top of the screen longer or shorter to be the same as the bottom. Use the ◀ or ▶ buttons on the slide bar to correct the keystone (trapezoidal) distortion.



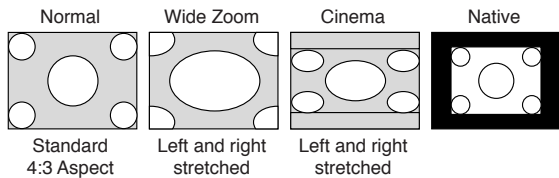
NOTE: The keystone angle can be corrected between 30 degrees upward and 30 degrees downward at a 0 degree-projection angle. Depending on the type of graphics being used, the picture may get blurred or keystone correction may not be possible when excessive keystone correction is used. The idea is, the closer you are to native resolution, the better image you will see.

Saving Vertical Keystone Correction [Keystone Save]

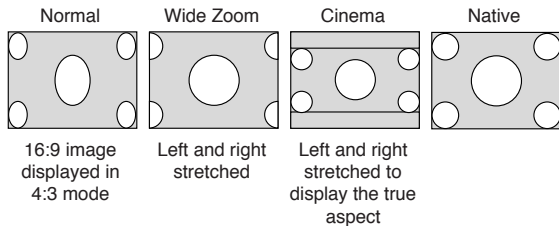
This option enables you to save your current keystone settings. Saving your change once affects all sources. The changes are saved when the projector is off.

Selecting Aspect Ratio [Aspect Ratio]

Aspect Ratio allows you to select the best Aspect mode to display your source image. You can also display the Aspect Ratio window by pressing the "ASPECT" button on the remote control. (See page E-8). When 4:3 is selected from the source (i.e. DVD player), the following selections will display:



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



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

NOTE:

* While you are displaying an image with higher resolution than the projector's native resolution, "Native" is not available.

* You can adjust image positions for Cinema. See "Cinema Position" for setting image positions.

Copyright

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

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

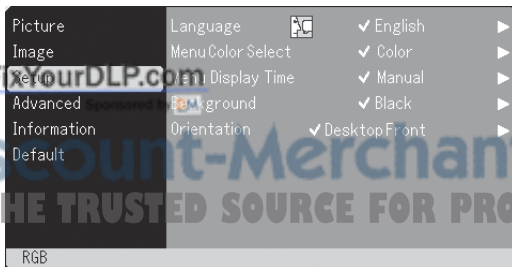
This feature adjusts the vertical position of the image when viewing video with an aspect ratio selected.

When "Cinema" is selected in "Aspect Ratio", the image is displayed with black borders on the top and bottom.

You can adjust the vertical position between top and bottom.

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

Setup



Selecting Menu Language [Language]

You can choose one of 19 languages for on-screen instructions. The options are: English, German, French, Italian, Spanish, Swedish, Japanese, Korean, the Simplified Chinese, Polish, Hungarian, Russian, Greek, Turkish, Dutch, Norwegian, Finnish, Portuguese and Czech.

Selecting Menu Color [Menu Color Select]

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

Selecting Menu Display Time [Menu Display Time]

This option allows you to select how long the projector waits after the last touch of a button to turn off the menu.

The preset choices are "Manual", "Auto 5 sec", "Auto 15 sec", and "Auto 45 sec". The "Auto 45 sec" is the factory preset.

Selecting a Color or Logo for Background [Background]

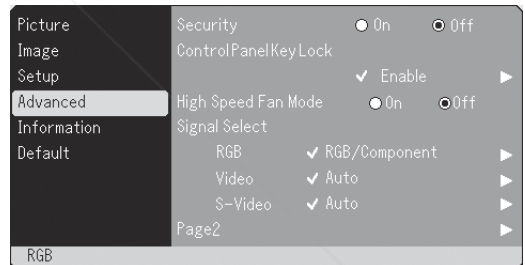
Use this feature to display a black/ blue screen or logo when no signal is available.

Selecting Projector Orientation [Orientation]

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

NOTE: Selecting "Ceiling front" or "Ceiling rear" will turn on the Auto Adjust feature to optimize an RGB image automatically. (See page E-24)

Advanced

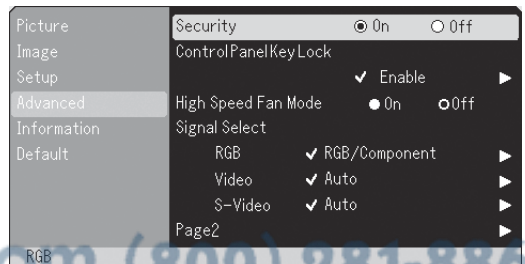


Security

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

To enable the Security function:

1. Select [Advanced] → [Security] and press the ◀ button to select "On".



The [Keyword] screen will be displayed.

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

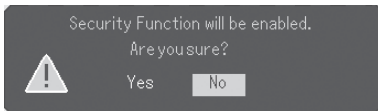
NOTE: A keyword must be four to 10 digits in length.



The [Confirm Keyword] screen will be displayed.



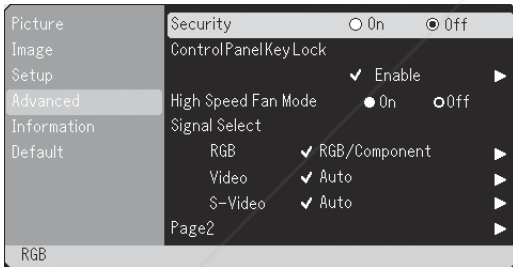
- Type in the same combination of SELECT buttons (▲▼◀▶) and press the ENTER button. The confirmation screen will be displayed.



- Select "Yes" and press the ENTER button. The Security function has been enabled.

To disable the Security function:

- Select [Advanced] → [Security] and press the ▶ button to select "Off".



The Keyword confirmation screen will be displayed.



- Type in your keyword and press the ENTER button. When the correct keyword is entered, the Security function will be disabled.

When the Security function is enabled and the projector is turned on, the projector will display a blue background. To display an image at this time, press the MENU button to display the Keyword input screen.




Type in the correct keyword. The projector will display an image.

NOTE: If you forget your keyword, contact your dealer. Your dealer will provide you with your keyword in exchange for your request code. Your request code is displayed in the Keyword Confirmation screen. In this example "K992-45L8-JNGJ-4XU9-1YAT-EEA2" is a request code.

Disabling the Cabinet Buttons [Control Panel Key Lock]

This option turns on or off the Control Panel Key Lock function.

NOTE:

- * This Control Panel Key Lock does not affect the remote control and the PC Control functions.
- * When the cabinet buttons are disabled, pressing and holding the CANCEL button for about 10 seconds will change the setting to enable.
- * Key symbol  indicates the Control Panel Key Lock is enabled.

Enabling High Speed Fan Mode [High Speed Fan Mode]

This option allows you to select two modes for fan speed: high-speed mode and normal speed mode. When you wish to cool down the temperature inside the projector quickly, select "On".

NOTE: Enable High Speed Fan mode if you continue to use the projector for consecutive days.

Selecting Signal Format [Signal Select]

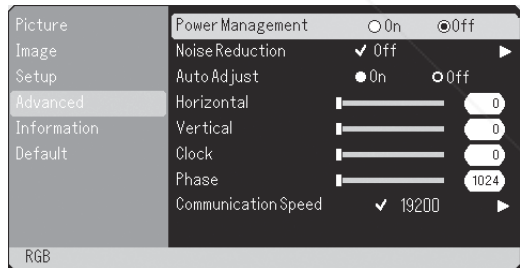
<RGB>

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

<Video & S-Video System Select>

This feature enables you to select composite video standards manually. Normally select "Auto". When you select the video standard for Video and S-Video, select the video standard from the pull-down menu. This must be done for Video and S-Video respectively.

Page2



Enabling Power Management [Power Management]

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

Selecting Noise Reduction Level [Noise Reduction]

Select one of the three levels for reducing video noise: Off, Low, or High.

NOTE: The lower the Noise Reduction level, the better the image quality by way of higher video bandwidth.

Enabling Auto Adjust [Auto Adjust]

When "Auto Adjust" is set to "On", the projector automatically determines the best resolution for the current RGB input signal to project an image using NEC's Advanced AccuBlend Intelligent Pixel Blending Technology.

The image can be automatically adjusted for position and stability; "Horizontal Position", "Vertical Position", "Clock" and "Phase".

On Automatically adjusts image "Horizontal Position", "Vertical Position", "Clock" and "Phase".

Off User can adjust the image display functions ("Horizontal Position", "Vertical Position", "Clock" and "Phase") manually.

NOTE: Selecting "Ceiling front" or "Ceiling rear" for "Orientation" will automatically turn on this feature.

Adjusting Position/Clock (when Auto Adjust is off)

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

<Horizontal/Vertical>

Adjusts the image location horizontally and vertically.

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

<Clock>

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

<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.

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

Selecting Communication Speed [Communication Speed]

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

The default is 19200 bps.

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

Information

| | | |
|-------------|----------------------|-------------|
| Picture | Source Index | 0 |
| Image | Horizontal Frequency | 0 KHz |
| Setup | Vertical Frequency | 0 Hz |
| Advanced | Sync Polarity | H:(-) Y:(-) |
| Information | | |
| Default | | |

Page1 Page2 Page3

RGB Sponsored by DM

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

[Page 1]
Source Index
Horizontal Frequency
Vertical Frequency
Sync Polarity

[Page 2]
Signal Type
Video Type
Sync Type
Interlace

[Page 3]
Remaining Lamp Time (%)*
Lamp Hour Meter (H)
Filter Usage
Projector Usage

* The progress indicator shows the percentage of remaining bulb life. The value informs you of the amount of lamp usage. When the remaining lamp time reaches 0, the Remaining Lamp Time bar indicator changes from 0% to 100 Hours and starts counting down. If the remaining lamp time reaches 0 hours, the projector will not turn on.

Default

| | |
|-------------|-----------------------|
| Picture | Factory Default |
| Image | Current Signal |
| Setup | All Data |
| Advanced | Clear Filter Usage |
| Information | Clear Lamp Hour Meter |
| Default | |

RGB

Returning to Factory Default [Factory Default]

The Factory Default feature allows you to change adjustments and setting to the factory preset for source except the following:

<Current Signal>

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

The items that can be reset are: Brightness, Contrast, Color, Hue, Sharpness, Aspect Ratio, Horizontal Position, Vertical Position, Clock, Phase and Picture Management.

<All Data>

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

The items can be reset except Language, Lamp Remaining Time, Lamp Hour Meter and Filter Usage. To reset the lamp usage time, see "Clear Lamp Hour Meter" and "Clear Filter Usage".

Resetting the Filter Usage Hours [Clear Filter Usage]

Resets the filter usage back to zero. Selecting this option displays submenu for a confirmation.

Clearing Lamp Hour Meter [Clear Lamp Hour Meter]

Resets the lamp clock back to zero. Selecting this option displays submenu for a confirmation.

NOTE: The projector will turn off and go into standby mode after 3100 hours of service. If this happens, press and hold the ON/STAND BY and CANCEL buttons on the remote control simultaneously for a minimum of 10 seconds to reset the lamp clock back to zero. Do this only after replacing the lamp.



FixYourDIY.com Page1 Page2 Page3

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

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

MAINTENANCE

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

Replacing the Lamp

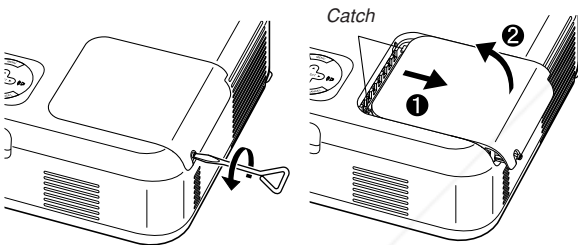
After your lamp has been operating for 3000 hours or longer, the LAMP indicator in the cabinet will blink red and the message will appear. Even though the lamp may still be working, replace it at 3000 hours to maintain optimal projector performance.

CAUTION

- **DO NOT TOUCH THE LAMP** immediately after it has been used. It will be extremely hot. Turn the projector off, wait 60 seconds, turn off the main power switch and then disconnect the power cable. Allow at least one hour for the lamp to cool before handling.
- **DO NOT REMOVE ANY SCREWS** except the lamp cover screw and two lamp case screws. You could receive an electric shock.
- The projector will turn off and go into stand by mode after 3100 hours of service. If this happens, be sure to replace the lamp. If you continue to use the lamp after 3000 hours of use, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury. If this happens, contact your NEC dealer for lamp replacement.

To replace the lamp:

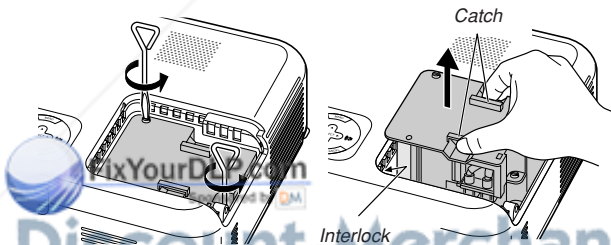
1. Loosen the lamp cover screw until the screwdriver goes into a free-wheeling condition and remove the lamp cover. The lamp cover screw is not removable.



2. Loosen the two screws securing the lamp housing until the 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.

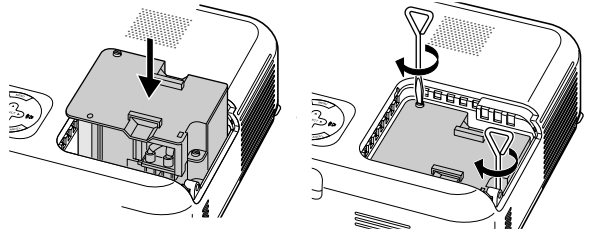


3. Insert a new lamp housing until the lamp housing is plugged into the socket.

CAUTION

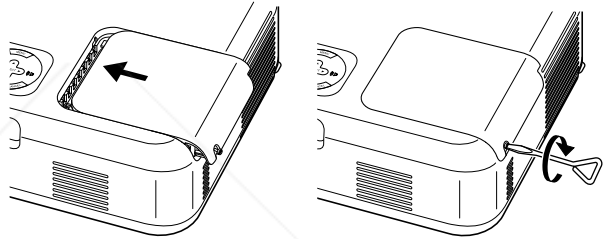
Do not use a lamp other than the NEC replacement lamp (VT60LP). Order this from your NEC dealer.

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



4. Reattach the lamp cover.

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



5. After you install a new lamp, select the menu → [Default] → [Clear Lamp Hour Meter] to reset the lamp usage hours.

NOTE: When the lamp exceeds 3100 hours of service, the projector cannot turn on and the menu is not displayed. If this happens, press and hold the ON/STAND BY and CANCEL buttons on the remote control simultaneously for a minimum of 10 seconds while in standby mode. When the lamp time clock is reset to zero, the LAMP indicator goes out.

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

Cleaning

Cleaning or Replacing the Filter

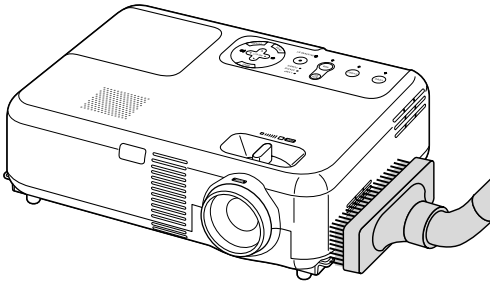
The air-filter sponge keeps the inside of the projector from dust or dirt and should be cleaned after every 100 hours of operation (more often in dusty conditions). If the filter is dirty or clogged, your projector may over-heat.

CAUTION

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

To clean the air-filter:

Vacuum the filter-through the filter cover.

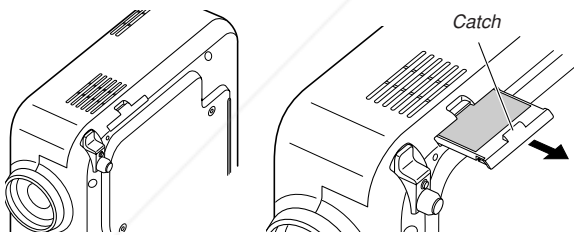


To reset the filter usage time, from the menu, select [Default] → [Clear Filter Usage].

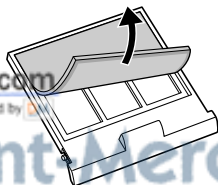
See also page E-24 for resetting the filter usage time.

To replace the filter (sponge):

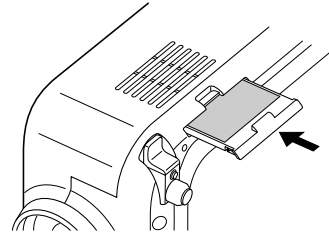
1. Remove the filter cover by pushing up on the catch of the cover until you feel it detach.



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



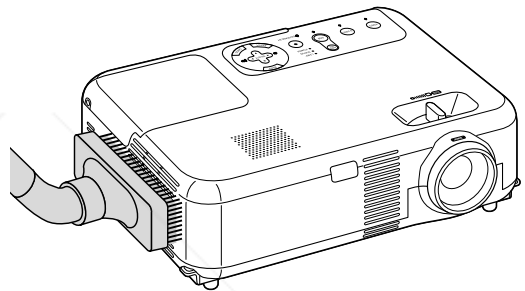
3. Reinstall the new filter cover.



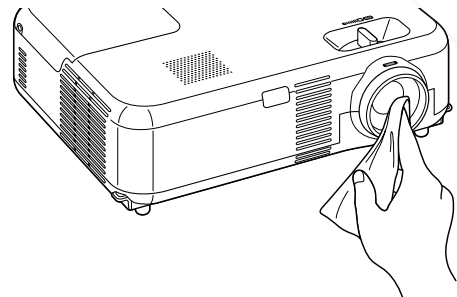
NOTE: Do not wash the filter with soap and water. Soap and water will damage the filter membrane. Before replacing the filter, remove dust and dirt from the projector cabinet. Keep out dust and dirt during filter replacement.

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

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.



FixYourDLP.com

Sponsored by

Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

TROUBLESHOOTING

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

Power Indicator

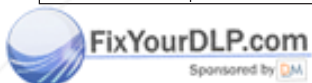
| Indicator Condition | | | Projector Condition | Note |
|---------------------|--------|----------------------------|--|--------------------|
| Off | | | The main power is off. | – |
| Blinking light | Green | 0.5 sec On, 0.5 sec Off | The projector is getting ready to turn on. | Wait for a moment.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

Status Indicator

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

Lamp Indicator

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



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

Common Problems & Solutions

| Problem | Check These Items |
|---|--|
| Does not turn on | <ul style="list-style-type: none"> • Check that the power cable is plugged in and that the power button on the projector cabinet or the remote control is on. See pages E-14 and 15. • Ensure that the lamp cover or lamp housing is installed correctly. See page E-25. • Check to see if the projector has overheated or the lamp has reached the end of its usable life. If there is insufficient ventilation around the projector or if the room where you're presenting is particularly warm, move the projector to a cooler location. |
| No picture | <ul style="list-style-type: none"> • Use the RGB, VIDEO or S-VIDEO button on the cabinet or the SOURCE button on the remote control to select your source (RGB, Video or S-Video). See page E-15. • Ensure your cables are connected properly. • Use menus to adjust the brightness and contrast. See page E-21. • Remove the lens cap. • Reset the settings or adjustments to factory preset levels using "Factory Default" in the menu. See page E-24. |
| Image isn't square to the screen | <ul style="list-style-type: none"> • Reposition the projector to improve its angle to the screen. See page E-16. • Use the Keystone correction function to correct the trapezoid distortion. See page E-21. |
| Picture is blurred | <ul style="list-style-type: none"> • Adjust the focus. See page E-16. • Reposition the projector to improve its angle to the screen. See page E-16. • Ensure that the distance between the projector and screen is within the adjustment range of the lens. See pages E-10 and 11. • Condensation may form on the lens if the projector is cold, brought into a warm place and is then turned on. Should this happen, let the projector stand until there is no condensation on the lens. |
| Image is scrolling vertically, horizontally or both | <ul style="list-style-type: none"> • Use the RGB, VIDEO or S-VIDEO button on the cabinet or the SOURCE button on the remote control to select your source (RGB, Video or S-Video). See page E-15. |
| Remote control does not work | <ul style="list-style-type: none"> • Install new battery. See page E-9. • Make sure there are no obstacles between you and the projector. • Stand within 22 feet (7 m) of the projector. See page E-9. |
| Indicator is lit or blinking | <ul style="list-style-type: none"> • See the Power/Status/Lamp Indicator on page E-27. |
| Cross color in RGB mode | <ul style="list-style-type: none"> • If Auto Adjust is off, turn it on or adjust the image manually with Horizontal / Vertical / Clock / Phase in the Advanced menu. See page E-24. |



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

SPECIFICATIONS

This section provides technical information about the VT46 Projector's performance.

Model Number

VT46

Optical

| | |
|---------------------|--|
| LCD Panel | 0.7" p-Si TFT active-matrix |
| Resolution | 800 × 600 pixels* native, up to UXGA with Advanced AccuBlend |
| Lens | Manual zoom and focus: F1.7 - 2.0 f=21.6 - 25.9mm |
| Lamp | 160 W |
| Image Size | 21 - 300 inches (0.5 - 7.6 m) diagonal |
| Projection Distance | 2.38 - 35.8 ft / 7.3 (Tele) - 10.9 m (Tele) |
| Projection Angle | Tele : 9.5° - 10.0° Wide : 11.3° - 11.8° |
| Keystone Correction | +/- 30 degrees electronic |

Electrical

| | |
|-----------------------|---|
| Inputs | 1 RGB/Component (D-Sub 15 Pin), 1 S-Video (DIN 4 Pin), 1 Video (RCA), 1 Stereo Mini Audio, 2 (L/R) RCA Audio, 1 PC Control (DIN 8 Pin) |
| Video Compatibility | NTSC, NTSC4.43, PAL, PAL-60, PAL-N, PAL-M, SECAM, HDTV: 1080i, 1080i/50Hz, 720p, 576p, 480p, 480i/60Hz |
| Scan Rate | Horizontal: 15 kHz to 100 kHz (RGB: 24 kHz or over) / Vertical: 50 Hz to 120 Hz |
| Video Bandwidth | RGB: 80 MHz (-3dB) |
| Color Reproduction | 16.7 million colors simultaneously, Full color |
| Horizontal Resolution | NTSC / NTSC4.43/PAL/PAL-M/PAL-N/PAL60: 550 TV lines SECAM: 350 TV lines YCbCr: 800 TV lines RGB: 800 dots (H) × 600 dots (V) |
| External Control | RS232, IR |
| Sync Compatibility | Separate Sync / Composite Sync / Sync on G |
| Built-in Speaker | 1W (monaural) |
| Power Requirement | 100 - 120V AC / 200 - 240V AC, 50 / 60 Hz |
| Input Current | 2.3A (100 - 120V AC) / 1.1A (200 - 240V AC) |
| Power Consumption | 220W (7.5W in Standby mode) |

Mechanical

| | |
|------------------------------|--|
| Installation Orientation | Desktop/Front, Desktop/Rear, Ceiling/Front, Ceiling/Rear |
| Dimensions | 12.2" (W) × 3.5" (H) × 9.1" (D) 310mm (W) × 89mm (H) × 230mm (D) (not including protrusions) |
| Net Weight | 6.5 lbs / 2.9 kg |
| Environmental Considerations | Operational Temperatures : 32° to 95°F (0° to 35°C), 20% to 80% humidity (non-condensing) Storage Temperatures : 14° to 122°F (-10° to 50°C), 20% to 80% humidity (non-condensing) |
| Regulations | UL Approved (UL 60950, CSA 60950) Meets DOC Canada Class B requirements Meets FCC Class B requirements Meets AS/NZS3548 Class B Meets EMC Directive (EN55022:1998, EN55024-1998, EN61000-3-2, EN61000-3-3) Meets Low Voltage Directive (EN60950, TUV GS Approved) CE |



FixYourDLP.com

Additional information visit:

US : <http://www.necvisualsystems.com>

Europe : <http://www.nec-europe.com/>

Global : <http://www.nec-pj.com/>

Discount Merchant.com (800) 281-8860

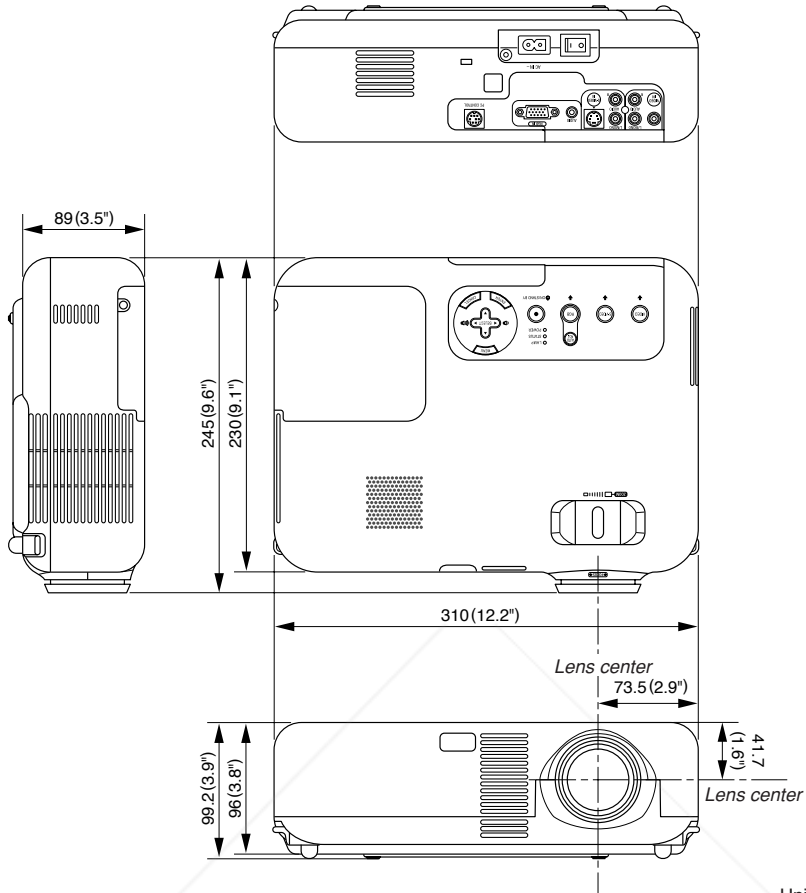
THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

* Effective pixels are more than 99.99%.

The specifications are subject to change without notice.

APPENDIX

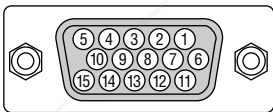
Cabinet Dimensions



Unit = mm (inch)

Pin Assignments of D-Sub RGB Input Connector

Mini D-Sub 15 Pin Connector



Signal Level
 Video signal : 0.7Vp-p (Analog)
 Sync signal : TTL level

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

FixYourDLP.com
 Sponsored by D.M.
 Discount-Merch.com (800) 281-8860
 THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Compatible Input Signal List

| Signal | Resolution (Dots) | Frequency H. (kHz) | Refresh Rate (Hz) |
|-----------------------|------------------------|-------------------------|------------------------|
| NTSC | – | 15.734 | 60 |
| PAL | – | 15.625 | 50 |
| PAL60 | – | 15.734 | 60 |
| SECAM | – | 15.625 | 50 |
| VESA | 640 × 480 | 31.47 | 59.94 |
| IBM | 640 × 480 | 31.47 | 60 |
| MAC | 640 × 480 | 31.47 | 60 |
| MAC | 640 × 480 | 34.97 | 66.67 |
| MAC | 640 × 480 | 35 | 66.67 |
| VESA | 640 × 480 | 37.86 | 72.81 |
| VESA | 640 × 480 | 37.5 | 75 |
| IBM | 640 × 480 | 39.375 | 75 |
| VESA | 640 × 480 | 43.269 | 85.01 |
| IBM | 720 × 350 | 31.469 | 70.09 |
| VESA | 720 × 400 | 37.927 | 85.04 |
| IBM | 720 × 350 | 39.44 | 87.85 |
| IBM | 720 × 400 | 39.44 | 87.85 |
| VESA | 800 × 600 | 35.16 | 56.25 |
| VESA | 800 × 600 | 37.879 | 60.32 |
| VESA | 800 × 600 | 48.077 | 72.19 |
| VESA | 800 × 600 | 46.88 | 75 |
| VESA | 800 × 600 | 53.674 | 85.06 |
| MAC | 832 × 624 | 49.725 | 74.55 |
| # VESA | 1024 × 768 | 35.5 | 43 Interlaced |
| # VESA | 1024 × 768 | 48.363 | 60 |
| # VESA | 1024 × 768 | 56.476 | 70.07 |
| # MAC | 1024 × 768 | 60.241 | 74.93 |
| # VESA | 1024 × 768 | 60.023 | 75.03 |
| # VESA | 1024 × 768 | 68.677 | 85 |
| # VESA | 1152 × 864 | 67.5 | 75 |
| # MAC | 1152 × 870 | 68.681 | 75.06 |
| # SUN | 1152 × 900 | 61.796 | 65.95 |
| # SGI | 1152 × 900 | 71.736 | 76.05 |
| # VESA | 1280 × 960 | 60 | 60 |
| # VESA | 1280 × 1024 | 63.981 | 60.02 |
| # MAC | 1280 × 1024 | 69.89 | 65.18 |
| # HP | 1280 × 1024 | 78.125 | 72.01 |
| # SUN | 1280 × 1024 | 81.13 | 76.11 |
| # VESA | 1280 × 1024 | 79.976 | 75.03 |
| # VESA | 1280 × 1024 | 91.146 | 85.02 |
| # SXGA+ | 1400 × 1050 | – | – |
| # HDTV (1080p) | 1920 × 1080 | 67.5 | 60 Progressive |
| # SDTV(576i)(625i) | – | 15.6 | 50 |
| # SDTV(576p)(625p) | – | 31.5 | 50 |
| # HDTV (1080i)(1125i) | 1920 × 1080 | 33.75 | 60 Interlace |
| # HDTV (1080i)(1125i) | 1920 × 1080 | 28.125 | 50 Interlace |
| HDTV (720p)(750p) | 1280 × 720 | 45 | 60 Progressive |
| SDTV (480p)(525p) | – | 31.47 | 59.94 Progressive |
| VESA | 1600 × 1200 | 75.0 | 60 |
| # VESA | 1600 × 1200 | 81.25 | 65 |
| # VESA | 1600 × 1200 | 87.5 | 70 |
| # VESA | 1600 × 1200 | 93.75 | 75 |
| DVD YCbCr | – | 15.734 | 59.94 Interlaced |
| DVD YCbCr | – | 15.625 | 50 Interlaced |

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

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

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

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

PC Control Codes

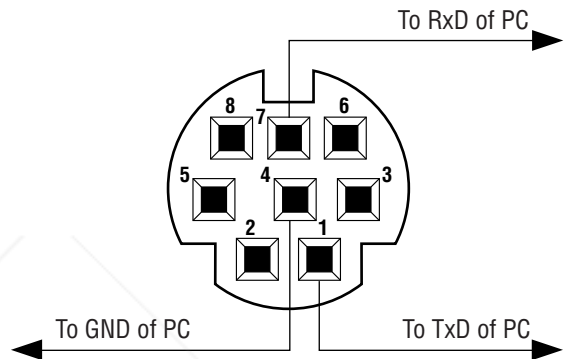
| Function | Code Data |
|----------------------|---------------------------------|
| POWER ON | 02H 00H 00H 00H 00H 02H |
| POWER OFF | 02H 01H 00H 00H 00H 03H |
| INPUT SELECT RGB | 02H 03H 00H 00H 02H 01H 01H 09H |
| INPUT SELECT VIDEO | 02H 03H 00H 00H 02H 01H 06H 0EH |
| INPUT SELECT S-VIDEO | 02H 03H 00H 00H 02H 01H 0BH 13H |
| PICTURE MUTE ON | 02H 10H 00H 00H 00H 12H |
| PICTURE MUTE OFF | 02H 11H 00H 00H 00H 13H |
| SOUND MUTE ON | 02H 12H 00H 00H 00H 14H |
| SOUND MUTE OFF | 02H 13H 00H 00H 00H 15H |

Cable Connection

Communication Protocol

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

PC Control Connector (DIN-8P)



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

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



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

TravelCare Guide

TravelCare - a service for international travelers

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

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

Services offered with TravelCare

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

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

1 Repair services

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

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

2 Replacement product rental service

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

Fee: US\$200 for 12 days

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

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

The replacement product will be delivered within 3 business days.

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

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

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

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

Term of warranty

1

- a. Upon presentation of the warranty or receipt received upon purchase:

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

- b. When only the product is brought in:

Valid for a period of within 14 months of the date of manufacture indicated by the serial number attached to the product.

2 When a product whose term of warranty is expired is brought in:

Repairs will be offered for a fee. In this case the customer is not eligible for the replacement product rental service.

3 In the following cases, repairs may be charged, even if the product's warranty is still in effect:

- 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.
- 2) Problems or damage caused by dropping or shocks during shipment or movement by the customer or by improper handling by the customers.
- 3) Problems or damage caused by improper usage or 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.
- 5) Problems or damage caused by use in hot or humid places, in vehicles, boats or ships, etc.

- 6) Problems or damage caused by expendable supplies or devices connected to the product other than those designated by NEC.
- 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.
- 9) Other conditions stipulated in the warranty included with the product also apply.

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

List of TravelCare Outlets

This list applies as of June 1, 2002.

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

In Europe

NEC Europe, Ltd. / European Technical Centre

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

(Regions Covered)

EU: Austria*, Belgium*, Denmark*, Finland*, France*, Germany*, Greece*, Ireland*, Italy*, Luxembourg*, The Netherlands*, Portugal*, Spain*, Sweden* and the United Kingdom*
EEA: Norway*, Iceland and Liechtenstein

In North America

NEC Solutions (America), Inc.

Address: 1250 Arlington Heights Road, Itasca, Illinois 60143, U.S.A.
Telephone: +1 800 836 0655
Fax Line: +1 800 356 2415
Email Address: vsd-tech-support@necsam.com
WEB Address: <http://www.necvisualsystems.com>

(Regions Covered)

U.S.A. *, Canada*

In Oceania

NEC Australia Pty., Ltd.

Address: New South Wales;
184 Milperra Road, Reversby 2212
Victoria;
480 Princess Hwy Noble Park 3174
South Australia;
84A Richmond Road, Keswick 5035
Queensland;
116 Ipswich Road, Woollongabba 4102
Western Australia;
45 Sarich Court Osborne Park 6017
Telephone: 131 632 (from domestic)
+61 8 8375 5706 (from overseas)
Fax Line: +61 8 8375 5757
Email Address: lee.gramola@nec.com.au
WEB Address: <http://www.nec.com.au>

(Regions Covered)

Australia*, New Zealand

In Asia and Middle East

NEC Viewtechnology, Ltd.

Address: 686-1, Nishioi, Oi-Machi, Ashigarakami-Gun,
Kanagawa 258-0017, Japan
Telephone: +81 465 85 2369
Fax Line: +81 465 85 2393
Email Address: support_pjweb@nevt.nec.co.jp
WEB Address: http://www.nec-pj.com

(Regions Covered)
Japan*

NEC Hong Kong Ltd.

Address: 11th Floor, Tower B, New Mandarin Plaza, 14
Science Museum Road,
Tsim Sha Tsui East, Kowloon, Hong Kong
Telephone: +852 2369 0335
Fax Line: +852 2795 6618
Email Address: esmond_au@nechk.nec.com.hk
WEB Address: http://www.nec.com.hk

(Regions Covered)
Hong Kong

NEC Taiwan Ltd.

Address: 7F, No.167, SEC.2, Nan King East Road, Taipei,
Taiwan, R.O.C.
Telephone: +886 2 8500 1734
Fax Line: +886 2 8500 1420
Email Address: nickliao@nec.com.tw
WEB Address: http://www.nec.com.tw

(Regions Covered)
Taiwan

NEC Singapore Pte. Ltd

Address: 401 Commonwealth Drive, #07-02, Haw Par
Technocentre, Singapore 149598
Telephone: +65 6 273 8333
Fax Line: +65 6 274 2226
Email Address: daniel@rsc.necsin.nec.com.sg
WEB Address: http://www.nec.com.sg

(Regions Covered)
Singapore

Hyosung Data System, Ltd.

Address: 7th Floor, Cheongdam Building, 52,
Cheongdam-Dong,
Kangnam-Ku, Seoul, Korea 135-100
Telephone: +82 2 510 0234
Fax Line: +82 2 540 3590
Email Address: hds-ykc@hyosung.com

(Regions Covered)
South Korea

Lenso Communication Co., Ltd.

Address: 292 Lenso House 4, 1st Floor, Srinakarin Road,
Huamark, Bangkapi, Bangkok 10240, Thailand
Telephone: +66 2 375 2425
Fax Line: +66 2 375 2434
Email Address: pattara@lenso.com
WEB Address: http://www.lenso.com

(Regions Covered)
Thailand

ABBA Electronics L.L.C.

Address: Tariq Bin Ziyad Road, P.O.Box 327, Dubai,
United Arab Emirates
Telephone: +971 4 371800
Fax Line: +971 4 364283
Email Address: ABBA@emirates.net.ae

(Regions Covered)
United Arab Emirates

Samir Photographic Supplies

Address: P.O.Box 599, Jeddah 21421, Saudi Arabia
Telephone: +966 2 6828219
Fax Line: +966 2 6830820
Email Address: vartkes@samir-photo.com

(Regions Covered)
Saudi Arabia

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



Discount-Merchant.com (800) 281-8860

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

Date: / / ,

P-1/ ,

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

(Company & Name with signature)

Dear Sir (s),

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

Application Sheet for TravelCare Service Program

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



FixYourDLP.com
Sponsored by DM

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

Condition of your TravelCare Service Program

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

1. Service Options:

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

1) Repair and Return:

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

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

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

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

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

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

3) Loan Only:

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

2. Warranty Exclusions:

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

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

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

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

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

4. Dead on Arrival (DOA):

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

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

5. Loan Service Charges and Conditions:

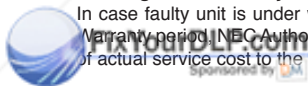
Upon acceptance of this NEC Projector, Customer agrees to assume liability for this loan unit.

The current cost of use of this loan unit is \$200.00 USD for 12 calendar days.

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

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

Thank you for your understanding of this program.



Digital Planet.com (800) 281-8860
AUTHORIZED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

NEC

 **FixYourDLP.com**
Sponsored by 

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



Disclaimer

This user manual is provided as a free service by FixYourDLP.com. FixYourDLP is in no way responsible for the content of this manual, nor do we guarantee its accuracy. FixYourDLP does not make any claim of copyright and all copyrights remain the property of their respective owners.

About FixYourDLP.com

FixYourDLP.com (<http://www.fixyourdpl.com>) is the World's #1 resource for media product news, reviews, do-it-yourself guides, and manuals.

Informational Blog: <http://www.fixyourdpl.com>

Video Guides: <http://www.fixyourdpl.com/guides>

User Forums: <http://www.fixyourdpl.com/forum>

FixYourDLP's Fight Against Counterfeit Lamps:

<http://www.fixyourdpl.com/counterfeits>

Sponsors:

RecycleYourLamp.org – Free lamp recycling services for used lamps:

<http://www.recycleyourlamp.org>

Lamp Research - The trusted 3rd party lamp research company:

<http://www.lampresearch.com>

Discount-Merchant.com – The worlds largest lamp distributor:

<http://www.discount-merchant.com>



FixYourDLP.com

Sponsored by 