

Portable Projector

VT580/VT480/VT58/VT57/VT48

User's Manual



Download from Www.Somanuals.com. All Manuals Search And Download.

- IBM is a trademark or registered trademark of International Business Machines Corporation.
- Macintosh, Mac OS X 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.

NOTES

- (1) The contents of this guide may not be reprinted in part or whole without permission.
- (2) The contents of this guide are subject to change without notice.
- (3) Great care has been taken in the preparation of this manual; however, should you notice any questionable points, errors or omissions, please contact us.
- (4) Notwithstanding article (3), NEC will not be responsible for any claims on loss of profit or other matters deemed to result from using the Projector.

Important Information

Safety Cautions

Precautions

Please read this manual carefully before using your NEC VT580/VT480/VT58/VT57/VT48 projector and keep the manual handy for future reference. Your serial number is located on the bottom of your projector. Record it here:

CAUTION



To turn off main power, be sure to remove the plug from power outlet. The power outlet socket should be installed as near to the equipment as possible, and should be easily accessible.

CAUTION



TO PREVENT SHOCK, DO NOT OPEN THE CABINET. THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED 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 THE PRONGS. CAN BE FULLY INSERTED.

DOC Compliance Notice (for Canada only)

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

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

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

CAUTION

Avoid displaying stationary images for a prolonged period of time.

Doing so can result in these images being temporarily sustained on the surface of the LCD panel.

If this should happen, continue to use your projector. The static background from previous images will disappear.

Disposing of your used product



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

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

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

WARNING TO CALIFORNIA RESIDENTS:

Handling the cables supplied with this product, will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

RF Interference (for USA only)

WARNING

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

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

Important Safeguards

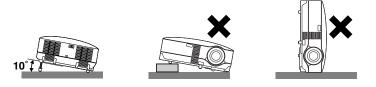
These safety instructions are to ensure the long life of your projector and to prevent fire and shock. Please read them carefully and heed all warnings.

1 Installation

- Do not place the projector in the following conditions:
 - on an unstable cart, stand, or table.
 - near water, baths or damp rooms.
 - in direct sunlight, near heaters or heat radiating appliances.
 - in a dusty, smoky or steamy environment.
 - on a sheet of paper or cloth, rugs or carpets.
- If you wish to have the projector installed on the ceiling:
 - Do not attempt to install the projector yourself.
 - The projector must be installed by qualified technicians in order to ensure proper operation and reduce the risk of bodily injury.
 - In addition, the ceiling must be strong enough to support the projector and the installation must be in accordance with any local building codes.
 - Please consult your dealer for more information.

Place the projector in a horizontal position

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



🕂 Fire and Shock Precautions 🔺

- Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the build-up of heat inside your projector. Allow at least 4 inches (10cm) of space between your projector and a wall.
- Do not try to touch the ventilation outlet on the left front (when seen from the front) as it can become heated while the projector is turned on and immediately after the projector is turned off.
- Prevent foreign objects such as paper clips and bits of paper from falling into your projector. Do not attempt to retrieve any objects that might fall into your projector. Do not insert any metal objects such as a wire or screwdriver into your project. If something should fall into your projector, disconnect it immediately and have the object removed by a qualified service personnel.
- Do not place any objects on top of the projector.
- Do not touch the power plug during a thunderstorm. Doing so can cause electrical shock or fire.
- The projector is designed to operate on a power supply of 100-240V AC 50/60 Hz. Ensure that your power supply fits this requirement before attempting to use your projector.
- Do not look into the lens while the projector is on. Serious damage to your eyes could result.
- Keep any items such as magnifying glass out of the light path of the projector. The light being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause unpredictable outcome such as fire or injury to the eyes.
- Do not cover the lens with the black lens cap or equivalent while the projector is on. Doing so can lead to melting of the cap and possibly burning your hands due to the heat emitted from the light output.
- Do not place any objects, which are easily affected by heat, in front of the projector lens or a projector exhaust vent.
 Doing so could lead to the object melting or getting your hands burned from the heat that is emitted from the light output and exhaust.
- · Handle the power cable carefully. A damaged or frayed power cable can cause electric shock or fire.
 - Do not use any power cables than the supplied one.
 - Do not bend or tug the power cable excessively.
 - Do not place the power cable under the projector, or any heavy object.
 - Do not cover the power cable with other soft materials such as rugs.
 - Do not heat the power cable
 - Do not handle the power plug with wet hands.
- Turn off the projector, unplug the power cable and have the object removed by a qualified NEC service personnel under the following conditions:
 - When the power cable or plug is damaged or frayed.
 - If liquid has been spilled into the projector, or if it has been exposed to rain or water.
 - If the projector does not operate normally when you follow the instructions described in this user's manual.
 - If the projector has been dropped or the cabinet has been damaged.
 - If the projector exhibits a distinct change in performance, indicating a need for service.
 - If the projector is not to be used for an extended period of time.
- · Disconnect the power cable and any other cables before carrying the projector
- Turn off the projector and unplug the power cable before cleaning the cabinet or replacing the lamp.

CAUTION

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

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

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

Remote Control Precautions

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

Lamp Replacement

- To replace the lamp, follow all instructions provided on page 51.
- Be sure to replace the lamp when the message [The lamp has reached the end of its usable life. Please replace the lamp.] appears. If you continue to use the lamp after the lamp has reached the end of its usable life, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury.

If this happens, contact your dealer for lamp replacement.

A Lamp Characteristic

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

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

Table of Contents

mportant Information	i
1. Introduction	1
What's in the Box?	
 Introduction to the Projector 	
3 Part Names of the Projector	
Attaching the supplied carrying handle	
Top Features	
Terminal Panel Features	
Part Names of the Remote Control	
Battery Installation	
Remote Control Precautions	
Operating Range for Wireless Remote Control	
2. Installation and Connections	
Setting Up the Screen and the Projector	
Selecting a Location (VT580/VT480/VT58/VT57)	
Selecting a Location (VT48)	
Throw Distance and Screen Size	
2 Making Connections	
Enabling the computer's external display	
Connecting Your PC or Macintosh Computer	
To connect SCART output (RGB)	
Connecting an External Monitor	
Connecting Your DVD Player with Component Output	
Connecting Your VCR or Laser Disc Player	
Connecting the Supplied Power Cable	18
. Projecting an Image (Basic Operation)	
1 Turning on the Projector	
Note on Startup screen (Menu Language Select screen)	
2 Selecting a Source	
Adjusting the Picture Size and Position	
Correcting Keystone Distortion	
Optimizing RGB Picture Automatically	
6 Turning Up or Down Volume	
Turning off the Projector	
8 After Use	28

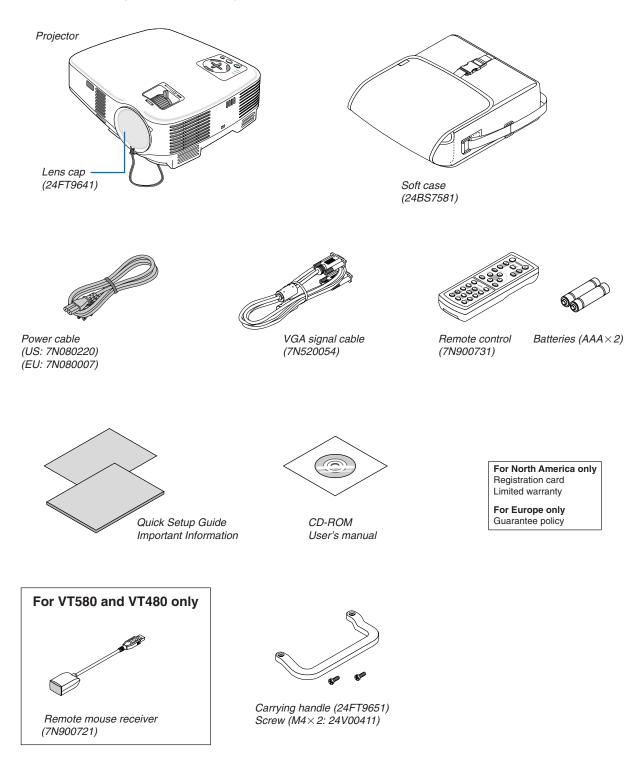
Table of Contents

4. Convenient Features	
Turning off the Image and Sound	29
2 Freezing a Picture	
3 Enlarging a Picture	
Ohanging Lamp Mode	
6 Preventing the Unauthorized Use of the Projector	30
Using Remote Mouse Receiver (VT580/VT480 only)	33
5. Using On-Screen Menu	
Using the Menus	
2 Menu Elements	
3 List of Menu Items	
4 Menu Descriptions & Functions [Picture]	
6 Menu Descriptions & Functions [Image Options]	
Menu Descriptions & Functions [Setup]	43
Menu Descriptions & Functions [Information]	
8 Menu Descriptions & Functions [Reset]	
6. Maintenance	
Cleaning or Replacing the Filters	
2 Cleaning the Cabinet and the Lens	
8 Replacing the Lamp	51
7. Appendix	
Troubleshooting	
 Specifications 	
3 Cabinet Dimensions	
Pin Assignments of D-Sub COMPUTER Input Connector	
6 Compatible Input Signal List	
6 PC Control Codes and Cable Connection	
Troubleshooting Check List	
TravelCare Guide	66

1. Introduction

1 What's in the Box?

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



Introduction to the Projector

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

Congratulations on Your Purchase of the Projector

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

You can use the projector on a tabletop or cart, you can use the projector to project images from behind the screen, and the projector can be permanently mounted on a ceiling^{*1}. The remote control can be used wirelessly.

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

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

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

Features you'll enjoy:

- Auto vertical keystone correction up to +/- 30 degrees (VT580 only)
- Built-in Wall Color Correction presets provide for adaptive color correction when projecting onto non-white screen material
- Quick start & quick cool down

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

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

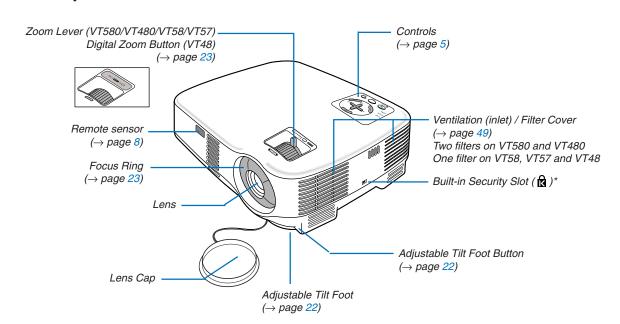
Also, the main power of the projector can be turned off by pressing the main power switch or unplugging the power cable even during the cool down period after the projector is turned off.

- HDTV (1080i, 720p) and SDTV (576p, 480p) compatibility
- Color Management system
- Short focal length lens
- Display popular wide screen and full screen aspect ratios 16:9 and 4:3
- Built-in speaker for an integrated audio solution
- High resolution display up to UXGA compatible, XGA native resolution (SVGA: VT480 and VT48).
- Multiple video mode selections (depending on your source)
- · Security feature prevents unauthorized individuals from displaying images.
- You can control the projector with a PC or control system using the PC Control port.
- Easy set up and operation
- The contemporary cabinet design is light, compact and complements any office, boardroom Auditorium.
- You can use the supplied wireless remote control and remote mouse receiver to operate your PC mouse from across the room. The remote mouse receiver supports almost any PC using a USB connection (VT580 and VT480 only).

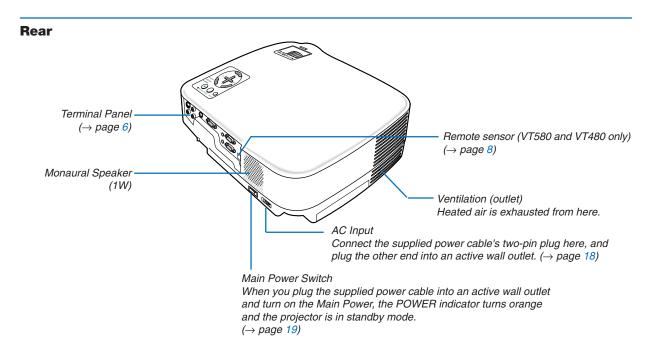
About this user's manual

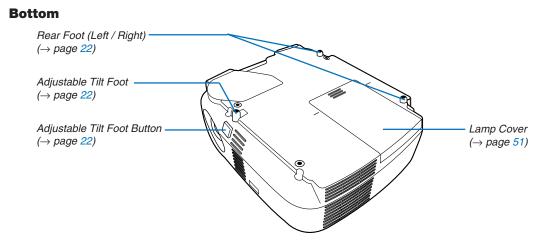
The fastest way to get started is to take your time and do everything right the first time. Take a few minutes now to review the user's manual. This may save you time later on. At the beginning of each section of the manual you'll find an overview. If the section doesn't apply, you can skip it.

Part Names of the Projector Front/Top



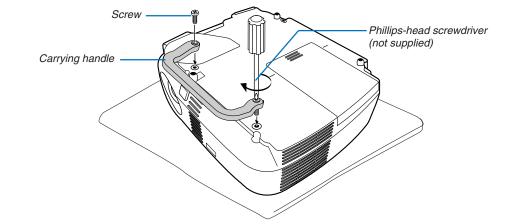
* This security slot supports the MicroSaver ® Security System. MicroSaver ® is a registered trademark of Kensington Microware Inc. The logo is trademarked and owned by Kensington Microware Inc.





Attaching the supplied carrying handle

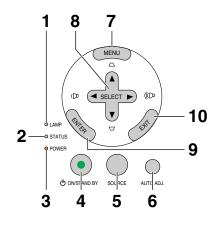
You can carry the projector by attaching the supplied carrying handle securely to the projector. To attach the supplied carrying handle, use a Phillips-head screwdriver and the supplied two screws. Place a soft cloth on the working surface before turning the projector over to prevent scratching the top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



CAUTION

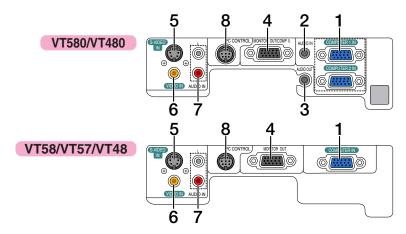
When carrying the projector by the carrying handle, make sure the two screws that attach the carrying handle to the projector cabinet are tight.

Top Features



- 1. LAMP Indicator (→page 51,54)
- **2.** STATUS Indicator (\rightarrow page 54)
- 3. POWER Indicator (→page 19,27,54)
- 4. POWER Button (ON / STAND BY) (₼) (→page 19,27)
- 5. SOURCE Button
- 6. AUTO ADJ. Button (\rightarrow page 26)
- 7. MENU Button
- SELECT ▲▼ <> / Volume Buttons <> / Keystone Buttons ▲▼
- 9. ENTER Button
- 10. EXIT Button

Terminal Panel Features

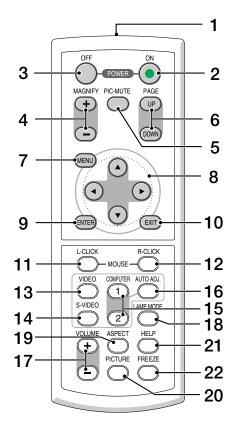


1. COMPUTER 1 and 2 IN/ Component Input Connector (Mini D-Sub 15 Pin) (VT580/VT480) (→page 13,14,16)

COMPUTER IN/ Component Input Connector (Mini D-Sub 15 Pin) (VT58/VT57/VT48) (->page 13,14,16)

- 2. AUDIO IN Mini Jack (Stereo Mini) (→page 13,15,16) (Not available on VT58/VT57/VT48)
- AUDIO OUT Mini Jack (Stereo Mini) (→page 15) (Not available on VT58/VT57/VT48)
- 4. MONITOR OUT Connector (Mini D-Sub 15 Pin) (→page 15)
- 5. S-VIDEO IN Connector (Mini DIN 4 Pin) (→page 17)
- 6. VIDEO IN Connector (RCA) (→page 17)
- 7. AUDIO Input Jacks L/R (RCA) (→page 17)
- PC CONTROL Port (DIN 8 Pin) (→page 62,63) Use this port to connect a PC or control system. This enables you to control the projector using serial communication protocol. If you are writing your own program, typical PC control codes are on page 62.

Part Names of the Remote Control



- 1. Infrared Transmitter $(\rightarrow \text{ page 8})$
- 2. POWER ON Button $(\rightarrow page 19)$
- 3. POWER OFF Button $(\rightarrow page 27)$
- MAGNIFY (+)(−) Button (→ page 29)
- 5. PIC-MUTE Button $(\rightarrow page 29)$
- 6. PAGE UP/DOWN Button* (Not available on VT58, VT57 and VT48) (→ page 33,34)
- 7. MENU Button
- 8. SELECT ▲▼ ◄► Button
- 9. ENTER Button
- 10. EXIT Button
- 11. MOUSE L-CLICK Button* (Not available on VT58, VT57 and VT48) $(\rightarrow page 33,34)$

- 12. MOUSE R-CLICK Button* (Not available on VT58, VT57 and VT48) $(\rightarrow page 33,34)$
- 13. VIDEO Button $(\rightarrow page 21)$
- 14. S-VIDEO Button $(\rightarrow page 21)$
- 15. COMPUTER 1/2 Button

 (The COMPUTER 2 button is not available on VT58, VT57 and VT48)
 (→ page 21)
- **16. AUTO ADJ. Button** $(\rightarrow page 26)$
- **17. VOLUME (+)(−) Button** (→ page 26)
- **18. LAMP MODE Button** (\rightarrow page **30**)
- **19. ASPECT Button** $(\rightarrow \text{ page } 41)$
- **20. PICTURE Button** $(\rightarrow \text{ page 40 to 41})$
- **21. HELP Button** $(\rightarrow \text{ page 47})$
- 22. FREEZE Button

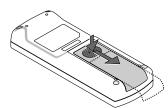
 $(\rightarrow \text{page } 29)$

* The PAGE UP/DOWN, MOUSE L-CLICK and MOUSE R-CLICK buttons work only when the supplied remote mouse receiver is connected with your computer.

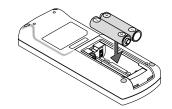
7 Download from Www.Somanuals.com. All Manuals Search And Download.

Battery Installation

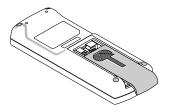
1 Press firmly and slide the battery cover off.



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



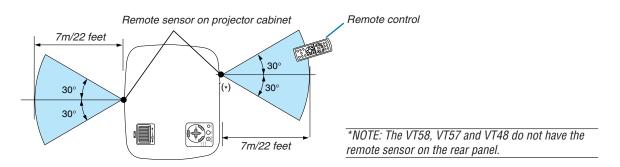
3 Slip the cover back over the batteries until it snaps into place. Do not mix different types of batteries or new and old batteries.



Remote Control Precautions

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

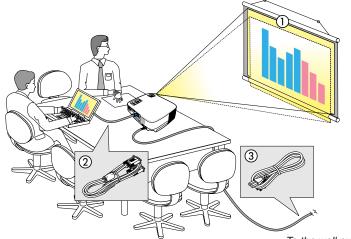
Operating Range for Wireless Remote Control



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

2. Installation and Connections

This section describes how to set up your projector and how to connect video and audio sources. Your projector is simple to set up and use. But before you get started, you must first:



- 1 Set up a screen and the projector.
- 2 Connect your computer or video equipment to the projector. (→ pages 13 to 17)
- 3 Connect the supplied power cable. $(\rightarrow page 18)$

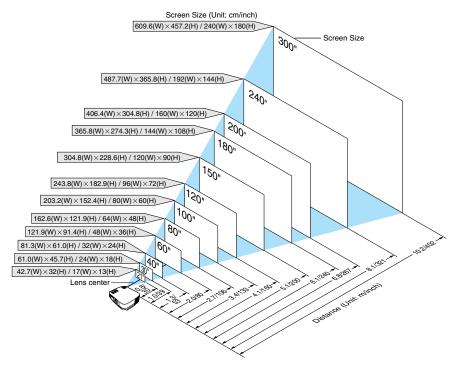
NOTE: Ensure that the power cable and any other cables are disconnected before moving the projector. When moving the projector or when it is not in use, cover the lens with the lens cap.

To the wall outlet.

1 Setting Up the Screen and the Projector

Selecting a Location (VT580/VT480/VT58/VT57)

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 30 inches (0.8 m) from the wall or screen. The largest the image can be is 300" (7.6 m) when the projector is about 400 inches (10 m) from the wall or screen.

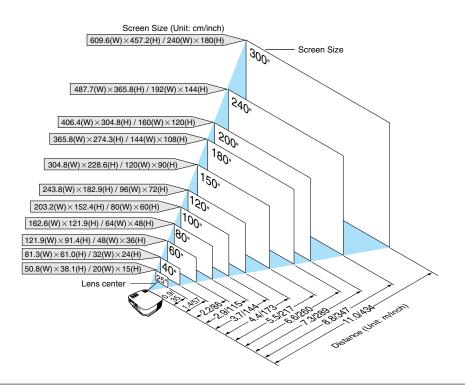


TIP:

- The distances are indicated by intermediate values between tele and wide. Use as a rule of thumb.
- The Zoom lever adjusts the image size +/-10%
- For more details on throw distance, see page 11.

Selecting a Location (VT48)

The further your projector is from the screen or wall, the larger the image. The minimum size the image can be is approximately 25" (0.64 m) measured diagonally when the projector is roughly 35 inches (0.9 m) from the wall or screen. The largest the image can be is 300" (7.6 m) when the projector is about 434 inches (11.0 m) from the wall or screen. Use the drawing below as a guide.



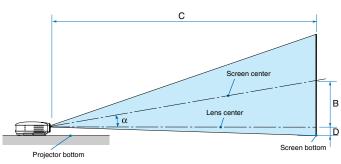
TIP:

- The distances are indicated by intermediate values between tele and wide. Use as a rule of thumb.
- Digital Zoom can result in a blurry image due to the electronic zoom.
- The Zoom button adjusts the image size -10%
- For more details on throw distance, see next page.

Throw Distance and Screen Size

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

Distance Chart



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

NOTE: Distances may vary +/-5%.

VT580/VT480/VT58/VT57

		Scree	n Size							С				D		α	
Diag	jonal	Wi	dth	Hei	ght	1	3	W	ide		te	ele	l	D	wide		tele
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	-	inch	mm	inch	mm	degree	-	degree
21	533	17	427	13	320	4	110	-	-	-	30	750	-2	-50	-	-	8.6
25	635	20	508	15	381	5	140	29	740	-	35	900	-2	-60	10.3	-	8.5
30	762	24	610	18	457	6	160	35	900	-	43	1090	-3	-70	10.2	-	8.5
40	1016	32	813	24	610	9	220	48	1210	-	57	1460	-3	-90	10.1	-	8.4
60	1524	48	1219	36	914	13	320	72	1830	-	87	2200	-5	-130	10.1	-	8.4
72	1829	58	1463	43	1097	15	390	87	2200	-	104	2650	-6	-160	10.0	-	8.4
80	2032	64	1626	48	1219	17	430	96	2450	-	116	2940	-7	-180	10.0	-	8.4
84	2134	67	1707	50	1280	18	450	101	2570	-	122	3090	-7	-190	10.0	-	8.4
90	2286	72	1829	54	1372	19	490	109	2760	-	131	3310	-8	-200	10.0	-	8.4
100	2540	80	2032	60	1524	21	540	121	3070	-	145	3690	-9	-220	10.0	-	8.3
120	3048	96	2438	72	1829	26	650	145	3690	-	174	4430	-10	-270	10.0	-	8.3
150	3810	120	3048	90	2286	32	810	182	4620	-	218	5540	-13	-330	10.0	-	8.3
180	4572	144	3658	108	2743	38	970	218	5540	-	262	6660	-16	-400	10.0	-	8.3
200	5080	160	4064	120	3048	43	1080	243	6160	-	291	7400	-17	-440	10.0	-	8.3
210	5334	168	4267	126	3200	45	1140	255	6470	-	306	7770	-18	-460	10.0	-	8.3
240	6096	192	4877	144	3658	51	1300	291	7400	-	350	8890	-21	-530	9.9	-	8.3
270	6858	216	5486	162	4115	57	1460	328	8330	-	394	10000	-24	-600	9.9	-	8.3
300	7620	240	6096	180	4572	64	1620	365	9260	-	438	11120	-26	-660	9.9	-	8.3

VT48

Screen Size							D		`			
Diag	gonal	Wi	dth	Hei	ight		B C D		5	α		
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	degree
25	635	20	508	15	381	5	140	35	890	-2	-60	8.7
30	762	24	610	18	457	6	160	42	1070	-3	-70	8.6
40	1016	32	813	24	610	9	220	57	1440	-3	-90	8.5
60	1524	48	1219	36	914	13	320	86	2180	-5	-130	8.5
72	1829	58	1463	43	1097	15	390	103	2620	-6	-160	8.4
80	2032	64	1626	48	1219	17	430	115	2920	-7	-180	8.4
84	2134	67	1707	50	1280	18	450	121	3060	-7	-190	8.4
90	2286	72	1829	54	1372	19	490	129	3290	-8	-200	8.4
100	2540	80	2032	60	1524	21	540	144	3650	-9	-220	8.4
120	3048	96	2438	72	1829	26	650	173	4390	-10	-270	8.4
150	3810	120	3048	90	2286	32	810	217	5500	-13	-330	8.4
180	4572	144	3658	108	2743	38	970	260	6610	-16	-400	8.4
200	5080	160	4064	120	3048	43	1080	289	7340	-17	-440	8.4
210	5334	168	4267	126	3200	45	1140	304	7710	-18	-460	8.4
240	6096	192	4877	144	3658	51	1300	347	8820	-21	-530	8.4
270	6858	216	5486	162	4115	57	1460	391	9930	-24	-600	8.4
300	7620	240	6096	180	4572	64	1620	434	11030	-26	-660	8.4

WARNING

- * Installing your projector on the ceiling must be done by a qualified technician. Contact your NEC dealer for more information.
- * Do not attempt to install the projector yourself.
- Only use your projector on a solid, level surface. If the projector falls to the ground, you can be injured and the projector severely damaged.
- Do not use the projector where temperatures vary greatly. The projector must be used at temperatures between 41°F (5°C) and 104°F (40°C) (Eco mode selected automatically at 95°F to 104°F/35°C to 40°C).
- Do not expose the projector to moisture, dust, or smoke. This will harm the screen image.
- Ensure that you have adequate ventilation around your projector so heat can dissipate. Do not cover the vents on the side or the front of the projector.

Reflecting the Image

Using a mirror to reflect your projector's image enables you to enjoy a much larger image when a smaller space is required. Contact your NEC dealer if you need a mirror system. If you're using a mirror system and your image is inverted, use the MENU and SELECT buttons on your projector cabinet or your remote control to correct the orientation. (\rightarrow page 44)

Ø Making Connections

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

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

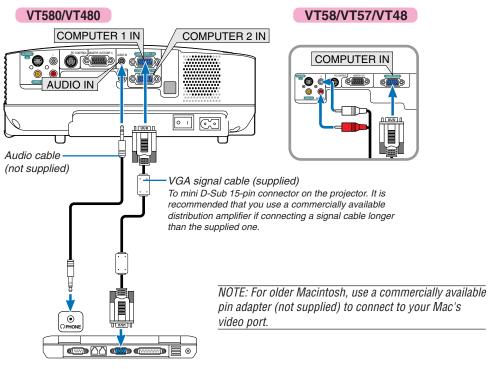
* If the screen goes blank while using your remote control, it may be the result of the computer's screen-saver or power management software.

Enabling the computer's external display

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

Connecting Your PC or Macintosh Computer

NOTE: • VT580/VT480: The COMPUTER 1 connector supports Plug & Play (DDC2). • VT58/VT57/VT48: The COMPUTER connector supports Plug & Play (DDC2).



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

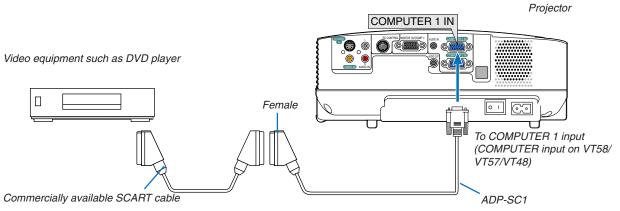
NOTE: The projector is not compatible with video decoded outputs of either the NEC ISS-6020 and ISS-6010 switchers.

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

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

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

To connect SCART output (RGB)



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

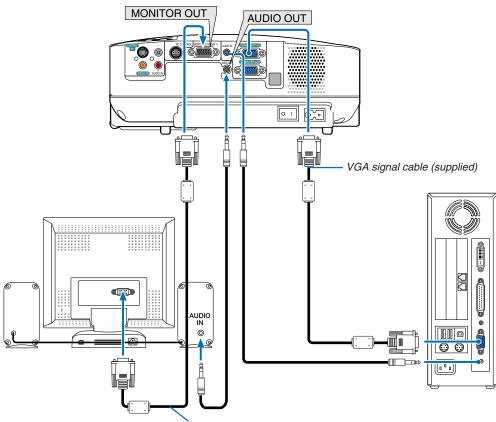
From the menu, select [Setup] \rightarrow [Options] \rightarrow [Signal Select] \rightarrow [Computer 1 ([Computer] on VT58/VT57/VT48)] \rightarrow [Scart]. SCART is a standard European audio-visual connector for TVs, VCRs and DVD players. It is also referred to as Euroconnector.

TIP: If a DVD or VCR source will not be displayed correctly, stop playback and restart it.

NOTE: Audio signal is not available for this connection.

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

Connecting an External Monitor

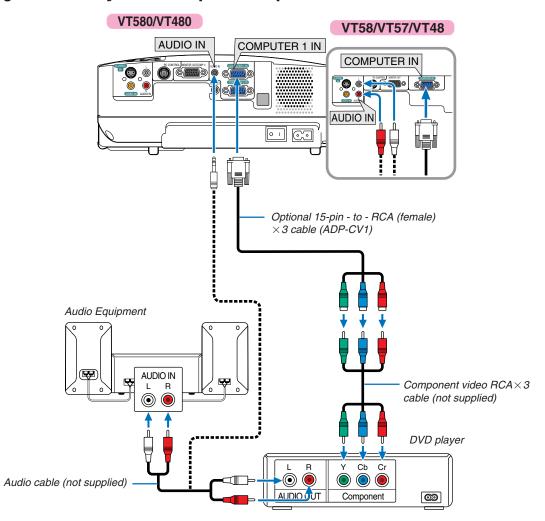


VGA signal cable (not supplied)

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

NOTE:

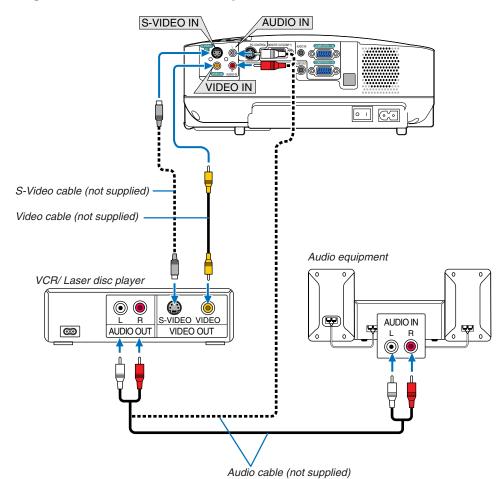
- Daisy chain connection is not possible.
- The signal from the COMPUTER 2 IN connector cannot be output from the MONITOR OUT connector on VT580 and VT480.
- The VT58, VT57 and VT48 do not have the AUDIO OUT connector.



Connecting Your DVD Player with Component Output

A component signal will be automatically displayed. If not, from the menu, select [Setup] \rightarrow [Options] \rightarrow [Signal Select] \rightarrow [Computer 1 ([Computer] on VT58/VT57/VT48)], and then place a check mark in the Component radio button.

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



Connecting Your VCR or Laser Disc Player

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

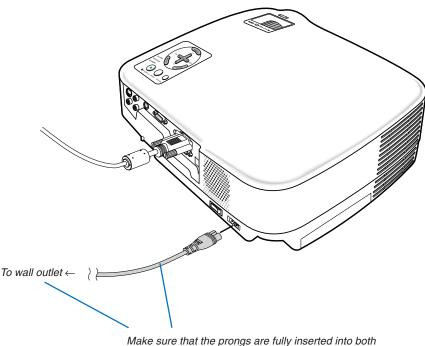
NOTE: Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.

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

Connecting the Supplied Power Cable

Connect the supplied power cable to the projector.

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



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

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

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

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

3. Projecting an Image (Basic Operation)

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

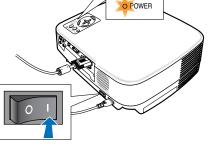
1 Turning on the Projector

NOTE:

- The projector has two power switches: a main power switch and a POWER (ON/STAND BY) button (POWER ON and OFF on the remote control).
- When plugging in or unplugging the supplied power cable, make sure that the main power switch is pushed to the off (○) position. Failure to do so may cause damage to the projector.
- 1. To turn on the main power to the projector, press the Main Power switch to the on position (1).

The POWER indicator will light orange. See the Power Indicator section.(\rightarrow page 54)

2. Remove the lens cap



STATUS

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

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

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

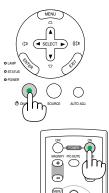
NOTE: When no signal is available, a blue screen is displayed at the factory default.

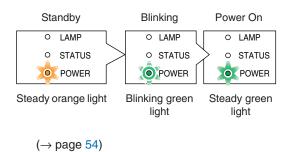
When the projector displays a blue or black screen, the projector will automatically switch to the Eco mode.

The projector will return to the Normal mode once a signal is connected.

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

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





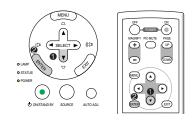
Note on Startup screen (Menu Language Select screen)

When you first turn on the projector, you will get the Startup menu. This menu gives you the opportunity to select one of the 8 menu languages.

To select a menu language, follow these steps:

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

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



2. Press the ENTER button to execute the selection.

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

If you want, you can select the menu language later.

 $(\rightarrow$ [Language] on page 38 and 43)

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

When the Lamp mode is set to Eco, the LAMP indicator will light green.

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

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

2 Selecting a Source

Selecting the computer or video source

NOTE: Turn on the computer or VCR connected to the projector.

Selecting from Source List

Press and quickly release the SOURCE button on the projector cabinet to display the Source list. Each time the SOURCE button is pressed, the input source will change as follows: "Computer 1", "Computer 2" (VT580/VT480 only), "Video" (VCR or laser disc player), "S-Video", To display the selected source, allow 1 second to elapse.

Detecting the Signal Automatically

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

VT580/VT480

 $Computer1 \rightarrow Computer2 \rightarrow Video \rightarrow S\text{-}Video \rightarrow \ Computer1 \rightarrow ...$

VT58/VT57/VT48

 $Computer \rightarrow Video \rightarrow S\text{-}Video \rightarrow \ Computer \rightarrow ...$

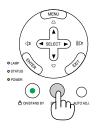
TIP:

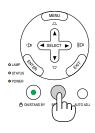
If no input signal is present, the input will be skipped. When the input source you wish to project is displayed, release the SOURCE button.

Using the Remote Control

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

NOTE: the COMPUTER 2 button is not available on the VT58, VT57 and VT48.







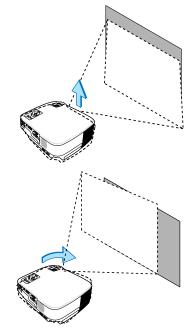
Adjusting the Picture Size and Position

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

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

If the projected image does not appear square to the screen then use the Keystone feature for proper adjustment. (→ page 24)

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



Adjust the Tilt Foot

1. Lift the front edge of the projector.

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

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

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

Adjusting the height of a projected image or changing projection angle will run the Auto Keystone correction function to quickly correct the vertical distortion. The "Keystone" screen will be displayed.

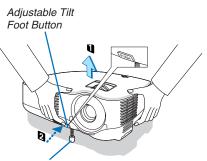
For operating the "Keystone" screen, see " Correcting Keystone Distortion" on page 24.

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

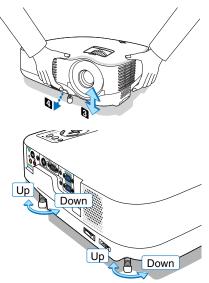
Rotate the rear foot to the desired height in order to square the image on the projection surface, but the vertical distance from the bottom to the desk or floor should be 0.4 inch /10mm to make the projector horizontal on the flat surface.

NOTE: If you rotate the rear foot too much, it will come off from the bottom.

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



Adjustable Tilt Foot



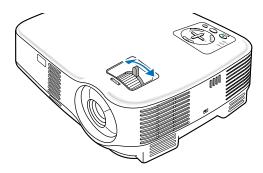
22

Zoom

VT580/VT480/VT58/VT57

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

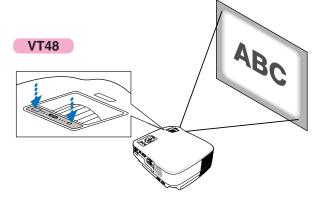
VT580/VT480/VT58/VT57



VT48

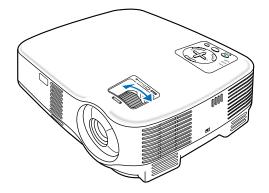
Use the Digital ZOOM button on the projector cabinet to electronically enlarge or reduce the image size.

NOTE: Digital Zoom can result in a blurry image due to the electronic zoom.



Focus

Use the FOCUS ring to obtain the best focus.



4 Correcting Keystone Distortion

Correcting Keystone Distortion

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



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

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

Adjusting with buttons on the cabinet

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

After the Keystone screen is displayed, press the SELECT ▲ or ▼ button to correct the keystone distortion.

Keystone	

2. Press the EXIT button.

The Keystone screen will be closed. The changes will take effect.

NOTE: When the menu is displayed, the above operation is not available. When the menu is displayed, press the MENU button to display the menu and start the Keystone correction from the menu. From the menu, select [Setup] \rightarrow [General] \rightarrow [Keystone]. The changes can be saved with [Keystone Save]. (\rightarrow page 43)

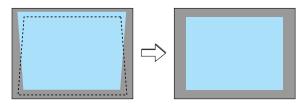
Adjusting with the Remote Control

1. Press the MENU button.

The menu will be displayed.

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

Adjust so that the image is rectangular.



5. Press the MENU button.

The menu will be closed.

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

TIP: The changes can be saved with [Keystone Save]. $(\rightarrow page 43)$

Adjusting with the Auto Keystone Function (VT580 only)

The Auto Keystone correction feature will correct the vertical distortion of a projected image on the screen. No special operation required. Just put the projector on a flat surface.

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

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

1. Press the MENU button

The menu will be displayed.

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

3. Press the SELECT ▼ button.

The [Auto Keystone] will be highlighted.

Picture	General Installation Options								
Image Options	Auto Keystone	●Off OOn							
Setup	Keystone								
Information	Keystone Save	●Off On	_						
Reset	Wall Color								
		√ Off	•						
	Lamp Mode	√ Normal	•						
	Language 🄀	√ English	•						
Computer1	,								

5. Press the MENU button.

The menu will be closed.

NOTE:

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

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

NOTE:

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

NOTE:

- When the menu is displayed, the Keystone Correction operation is not available by using the buttons on the projector cabinet. When the menu is displayed, press the EXIT button to close the menu and then perform the Keystone correction.
- From the menu, select [Setup] → [General] → [Keystone]. The changes can be saved with [Keystone Save].
 (→page 43)

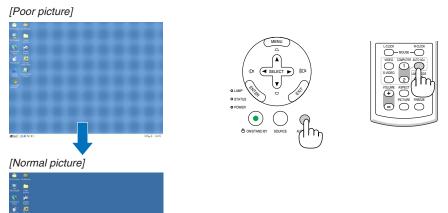
6 Optimizing RGB Picture Automatically

Adjusting the Image Using Auto Adjust

Optimizing an RGB image automatically.

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

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

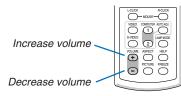


NOTE:

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

- The Auto Adjust function does not work for component and video signals.
- If the Auto Adjust operation cannot optimize the RGB signal, try to adjust Horizontal/Vertical Position Clock and Phase manually. (→page 42)

Turning Up or Down Volume



Sound level from the speaker can be adjusted.

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

Turning off the Projector

To turn off the projector:

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



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

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

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

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

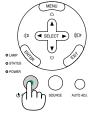
TIP: The main power of the projector can be turned off by pressing the main power switch or by unplugging the power cable even during the cool down period after the projector is turned off.

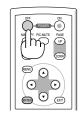
NOTE: Do not turn off the main power within 10 seconds of making adjustment or setting changes and closing the menu. Doing so can cause loss of adjustments and settings.

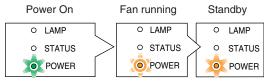
Parts of the projector will become heated during operation. Use caution when picking up the projector immediately after it has been operating.

CAUTION:

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



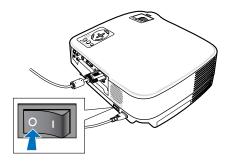




Steady green light

Blinking Sorange light





8 After Use

Preparation: Make sure that the projector is turned off.

- 1. Unplug the power cable.
- 2. Disconnect any other cables.
- 3. Retract adjustable tilt feet if extended.
- 4. Cover the lens with the lens cap.
- 5. Put the projector and accessories in the supplied soft case.

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

2 Freezing a Picture

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

Enlarging a Picture

You can enlarge the picture up to four times.

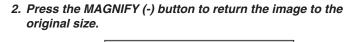
NOTE: The maximum magnification may be less than four times depending on a signal.

To do so:

NOTE:

turned off.

 Press the MAGNIFY (+) button to magnify the picture. To move the magnified image, use the SELECT ▲,▼, ◄ or ▶ button.



29 Download from Www.Somanuals.com. All Manuals Search And Download.



① Turning off the Image and Sound

period of time. Press again to restore the image and sound.

Press the PIC-MUTE button to turn off the image and sound for a short

Sound from the AUDIO OUT jack (Stereo mini) on the VT580/VT480 can be

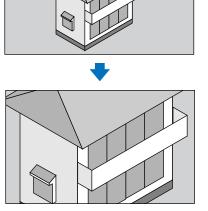












Changing Lamp Mode

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

Lamp Mode	Description	Status of LAMP indicator
Normal Mode	This is the default setting (100% Brightness).	Off
Eco Mode	Select this mode to increase the lamp life (80% Brightness).	Steady Green light

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

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

3. Press the ENTER button.

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

NOTE:

high.

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

Preventing the Unauthorized Use of the Projector

To enable the Security function:

1. Press the MENU button.

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

Picture	General Installation C)ptions	
Image Options	Orientation		
Setup	√ Des	ktop Front	•
Information	Communication Speed	√ 19200bps	•
Reset	Control Panel Lock	√ Off	•
	Security	√ Off	•
	Menu Color Select	√ Color	•
	Menu Display Time	√ Auto 45 sec	•
	Background	√ Blue	

Example of menu for VT580, VT480, VT58 and VT57

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

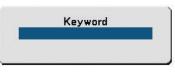
5. Use the SELECT ▲ or ▼ button to select [On] and press the ENTER button.

Picture	General Installation Options	
lmage Options <mark>Setup</mark>	Orientation ✓ Desktop Front	•
Information Reset	 ○ Off ○ Off ○ OK ○ Off ○ Off ○ Cancel ✓ Color 	* * * *
	Menu Display Time 🗸 Auto 45 sec Background 🗸 Blue	•

The [Keyword] screen will be displayed.

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

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

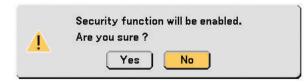


The [Confirm Keyword] screen will be displayed.

NOTE:

Do not forget your keyword. However, if you forget your keyword, NEC or your dealer will provide you with your Release Code upon proof of ownership. See more information at the end of this section. (\rightarrow page 32)

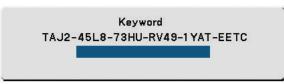
- 7. Type in the same combination of SELECT button ▲▼◀▶ and press the ENTER button.
- The confirmation screen will be displayed.
- 8. Select [Yes] and press the ENTER button.



The Security function has been enabled.

To turn on the projector when Security is enabled:

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



The Keyword screen will be displayed.

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

You can view the projected image.

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

To disable the Security function:

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

Picture	General Installation Options	
Image Options <mark>Setup</mark>	Orientation ✓ Desktop Front	•
Information Reset	● Off ○ On Cancel ✓ 19200bps Off On ✓ Color	* * * *
	Menu Display Time - v Auto 45 sec Background - v Blue	•
Computer1		

The keyword confirmation screen will be displayed.



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

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

NOTE:

- If you forget your keyword, contact your dealer. Your dealer will provide you with your keyword in exchange for your request code. Your request code is displayed in the Keyword Confirmation screen. In this example [TAJ2-45L8-73HU-RV49-1YAT-EETC] is a request code.
- The [Security] setting cannot be cancelled by using the [Reset] of the menu.

6 Using Remote Mouse Receiver (VT580/VT480 only)

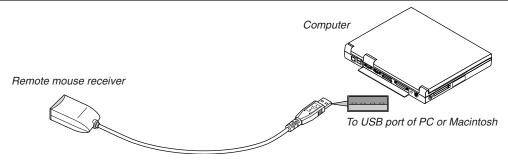
The remote mouse receiver enables you to operate your computer's mouse functions from the remote control. It is a great convenience for clicking through your computer-generated presentations.

TIP: The mouse receiver is available as an option for VT58/VT57/VT48

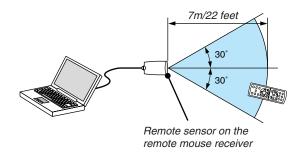
Connecting the remote mouse receiver to your computer

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

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



When operating a computer via the remote mouse receiver



When connecting using the USB terminal

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

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

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

Operating your computer's mouse from the remote control

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

- PAGE UP/DOWN Button: scrolls the viewing area of the window or to move to the previous or next slide in PowerPoint on your computer.
- SELECT▲▼◀▶ Buttons: moves the mouse cursor on your computer.

MOUSE L-CLICK Button: works as the mouse left button.

MOUSE R-CLICK Button: works as the mouse right button.

About Drag Mode:

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

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

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

5. Using On-Screen Menu

Using the Menus

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

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

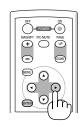
Picture Image Options Setup Information Reset	Preset Detail Settings Brightness Contrast Sharpness Color Hue Reset	✓ 2: Presentation	
---	---	-------------------	--

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

Picture Image Options Setup Information Reset	Aspect Ratio Cinema Position Horizontal Vertical Clock Phase Noise Reduction	✓ Normal 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Computer1	1		

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

Picture	Aspect Ratio		
Image Options		√ Normal	•
Setup	Cinema Position		
Information	Horizontal		290
Reset	Vertical		35
	Clock		1344
	Phase		8
	Noise Reduction	√ Off	-
Computer1	r		

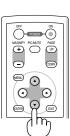


Use the SELECT ▲ or ▼ button on the remote control or the projector cabinet to select the item you want to adjust or set.

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

Changes are stored until you adjust it again. Press the EXIT button to return to the previous screen.

Picture Image Options Setup Information Reset	Aspect Ratio Cinema Position Horizontal Vertical Clock Phase Noise Reduction	✓ Normal	Slide bar Solid triangle
Computer1			
Radio button	● Normal ○ Wide Zoom		



(IENU)

(ENTER)

 \odot

G

For Adjusting items (Slide bar)

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

Cinema
 Native

For Selecting items (Solid triangle)

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

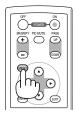
- (1) Use the SELECT ► button to select the item.
- (2) Use the SELECT ▲▼ buttons to highlight the item you want to set.
- (3) Press the ENTER button. The selected item will be displayed.

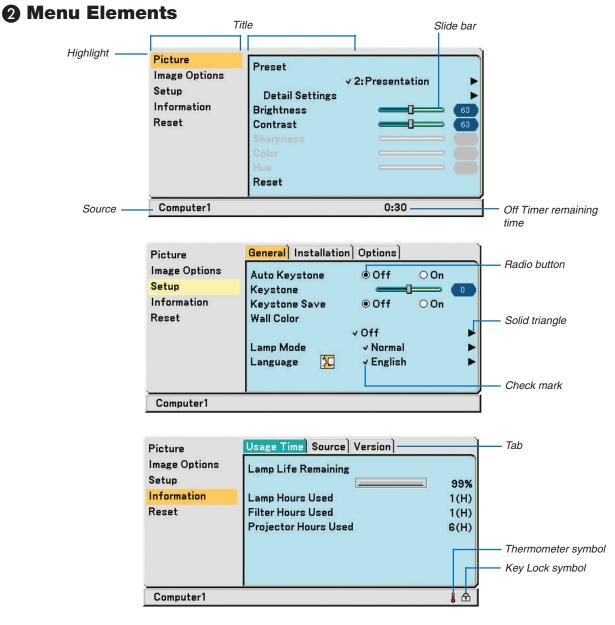
For Selecting items (Radio button)

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

• Use the SELECT ▲▼ buttons to select the item.

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





Menu windows or dialog boxes typically have the following elements:

Title Indicates the menu title.
Highlight Indicates the selected menu or item.
Source Indicates the currently selected source.
Remaining countdown time Indicates the remaining countdown time when the Off Timer is preset.
Solid triangleIndicates 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 Lock symbol Indicates the Control Panel Lock is enabled.
Thermometer symbol Indicates the lamp mode is forcibly set to Eco mode because the internal temperature is too
high. 37
high. 37

Download from Www.Somanuals.com. All Manuals Search And Download.

③ List of Menu Items

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

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

Image Options	Default	Item	Resettable
Aspect Ratio	*	Normal, Wide Zoom, Cinema, Native	Yes
Cinema Position			Yes
Horizontal	*		Yes
Vertical	*		Yes
Clock	*		Yes
Phase	*		Yes
Noise Reduction	Off	Off, Low, High	Yes

Setup		Default	Item	Resettable
General	Auto Keystone (VT580 only)	Off	Off, On	Yes
	Keystone			Yes
	Keystone Save	Off	Off, On	Yes
	Wall Color	Off	Off, Blackboard, Blackboard(Gray), Light yellow,	Yes
			Light green, Light blue, Sky blue, Light rose, Pink	
	Lamp Mode	Normal	Normal, Eco	Yes
	Language	English	English, Deutsch, Français, Italiano, Español,	-
			Português, Nederlands, Svenska, Norsk, Suomi,	
			Čeština, Magyar, Polski, Türkçe, Русский,	
			Ελληνικά, 日本語, 中文, 한국어, عرب, Dansk	
Installation	Orientation	Desktop Front	Desktop Front, Ceiling Rear, Desktop Rear,	Yes
			Ceiling Front	
Co	Communication Speed	19200	4800, 9600, 19200	-
	Control Panel Lock	Off	Off, On	Yes
	Security	Off	Off, On	Yes
	Menu Color Select	Color	Color, Monochrome	Yes
	Menu Display Time	Auto 45 sec	Manual, Auto 5 sec, Auto 15sec, Auto 45 sec	Yes
	Background	Blue	Blue, Black, Logo	Yes
Options	Off Timer	Off	Off, 0:30, 1:00, 2:00, 4:00, 8:00, 12:00, 16:00	Yes
	Auto Adjust	Normal	Off, Normal, Fine	Yes
	Auto Start	Off	Off, On	Yes
	Power Management	Off	Off, 0:05, 0:10, 0:20, 0:30	Yes
	Fan Mode	Auto	Auto, High	Yes
	Signal Select			
	Computer 1(VT580/VT480)	RGB/Component	RGB/Component, RGB, Component, Scart	Yes
	Computer 2(VT580/VT480)	RGB/Component	RGB/Component, RGB, Component	Yes
	Computer(VT58/VT57/VT48)	RGB/Component	RGB/Component, RGB, Component, Scart	Yes
	Video	Auto	Auto, NTSC3.58, NTSC4.43, PAL, PAL-M,	Yes
			PAL-N, PAL60, SECAM	
	S-Video	Auto	Auto, NTSC3.58, NTSC4.43, PAL, PAL-M,	Yes
			PAL-N, PAL60, SECAM	
	Deinterlace	On	Off, On	
	Веер	On	Off, On	

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

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

Clear Filter Hours

4 Menu Descriptions & Functions [Picture]

Preset

Picture	Preset	I:High-Bright
Image Options Setup Information Reset	V 1:High-Bright Detail Settings Brightness Contrast Sharpness Color	 2:Presentation 3: Video 4: Movie 5: Graphic 6: sRGB
	Hue Contraction Reset	

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

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

Detail Settings

Picture Image Options Setup Information Reset	Preset V1:High-Bright Detail Settings Brightness Contrast Color Hue	<mark>Picture</mark> Image Options Setup Information Reset	General White Balance Reference v High-Bright Gamma Correction v Black Detail Color Temperature v >
 Computer1	Hue Contraction Co		

Selecting Reference Setting [Reference]

This option allows you to adjust neutral tint for yellow, cyan or magenta. There are 6 factory presets optimized for various types of images, you can set user adjustable settings.

High-Bright F	Recommended for the use in a brightly lit room.
Presentation F	Recommended for making a presentation using a PowerPoint file.
Video F	Recommended for standard video such as a TV program.
MovieF	Recommended for film based video such as a movie (DVD or HDTV).
Graphic F	Recommended for viewing accurate colors in graphics.
sRGB S	Standard color values.

Selecting Gamma Correction Mode [Gamma Correction]

Each mode is recommended for:

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

Adjusting Color Temperature [Color Temperature]

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

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

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.

Adjusting Brightness, Contrast, Sharpness, Color and Hue

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

TIP: When one of [Brightness],[Contrast],[Sharpness],[Color] or [Hue] is highlighted, pressing the ENTER button will display its slide bar for adjustment.

- Brightness Adjusts the brightness level or the black level of the image.
- Contrast Adjusts the intensity of the image according to the incoming signal (White level of the image).
- Sharpness Controls the detail of the image for Video (not valid for RGB).
- Color Increases or decreases the color saturation level (not valid for RGB).

Reset

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

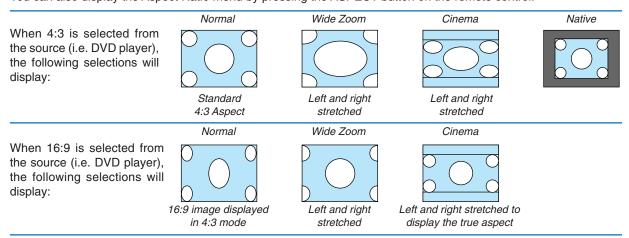
The settings and adjustments under [Detail Settings] within the [Preset] screen that are not currently selected will not be reset.

6 Menu Descriptions & Functions [Image Options]

Picture	Aspect Ratio	
Image Options	Aspect Natio	√ Normal 🔹 🕨
Setup	Cinema Position	
Information	Horizontal	[290
Reset	Vertical	
	Clock	—— [— — (1344)
	Phase	
	Noise Reduction	v Off ►
Computer1		

Selecting Aspect Ratio [Aspect Ratio]

Aspect Ratio allows you to select the best Aspect mode to display your source image. You can also display the Aspect Ratio menu by pressing the ASPECT button on the remote control.



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

NOTE:

• When you are displaying an RGB image with a higher resolution than the projector's native resolution, the image will be displayed in [Normal] even if [Native] is selected.

Only when displaying an RGB image with a lower resolution than the projector's native resolution, will the image be able to be displayed in its true resolution [Native].

• You can adjust the image position for Cinema aspect. See [Cinema Position] for setting the image position.

Copyright

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

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

This feature adjusts the vertical position of the image when viewing video with Cinema aspect ratio selected. When [Cinema] is selected in [Aspect Ratio], the image is displayed with black borders on the top and bottom. You can adjust the vertical position between top and bottom.

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

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

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

[Horizontal/Vertical]

Adjusts the image location horizontally and vertically.

[Clock]

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

[Phase]

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

NOTE:

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

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

Selecting Noise Reduction Level [Noise Reduction]

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

NOTE:

• Noise reduction set to off gives best image quality by way of higher bandwidth. Noise reduction set to on softens the image.

6 Menu Descriptions & Functions [Setup]

[General]

Picture	General Installation Options	Picture	General Installation Options
Image Options Setup Information Reset	Auto Keystone © Off ○ On Keystone Save © Off ○ On Wall Color ↓ Off ↓ Lamp Mode ↓ Normal ↓ Language 🕵 ↓ English ↓	Image Options Setup Information Reset	Keystone
Computer1	·	Computer1	

Enabling Auto Keystone [Auto Keystone] (VT580 only)

This feature allows the projector to detect its tilt and correct vertical distortion automatically. Turn on the Auto Keystone feature, select [On].

Correcting Vertical Keystone Distortion Manually [Keystone]

You can correct vertical distortion manually.

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

Saving Vertical Keystone Correction [Keystone Save]

This option enables you to save your current keystone settings.

Off Does not save current keystone correction settings

On Saves current keystone correction settings

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

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

Selecting Wall Color Correction Mode [Wall Color]

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

Selecting Lamp Mode [Lamp Mode]

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

Lamp Mode	Description	Status of LAMP indicator
Normal Mode	This is the default setting (100% Brightness).	Off
Eco Mode	Select this mode to increase the lamp life (80% Brightness).	Steady Green light

Selecting Menu Language [Language]

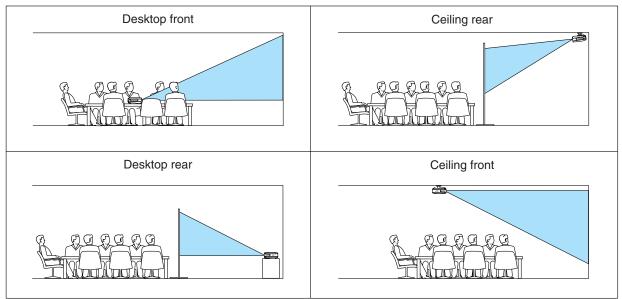
You can choose one of 21 languages for the on-screen menu.

[Installation]

Picture	General Installation C)ptions	
Image Options	Orientation		
Setup	√ Des	ktop Front	•
Information	Communication Speed	√ 19200bps	
Reset	Control Panel Lock	√ Off	•
	Security	√ Off	
	Menu Color Select	√ Color	•
	Menu Display Time	√ Auto 45 sec	
	Background	√ Blue	•

Selecting Projector Orientation [Orientation]

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



Selecting Communication Speed [Communication Speed]

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

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

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

Disabling the Cabinet Buttons [Control Panel Lock]

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

NOTE:

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

Enabling Security [Security]

This feature turns on or off the Security function. Unless the correct keyword is entered, the projector cannot project an image. (\rightarrow page 30)

Selecting Menu Color [Menu Color Select]

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

Selecting Menu Display Time [Menu Display Time]

This option allows you to select how long the projector waits after the last touch of a button to turn off the menu. The preset choices are [Manual], [Auto 5 sec], [Auto 15 sec], and [Auto 45 sec].

Selecting a Color for Background [Background]

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

[Options]

	General Installation Options			
Image Options	Off Timer	√ Of	f	
Setup	Auto Adjust	✓ No.	rmal	
Information	Auto Start	√ Of	f	
Reset	Power Management	√ Of	f	•
	Fan Mode	Auto	⊖ High	
	Signal Select			
	Deinterlace	O Off	On	
	Beep	O Off	On	

Setting Off Timer [Off Timer]

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

Setting Auto Adjust [Auto Adjust]

This feature sets the Auto Adjust mode so that the RGB image can be automatically or manually adjusted for noise and stability. You can automatically make adjustment in two ways: Normal and Fine

Off The RGB image will not be automatically adjusted.

You can manually optimize the RGB image.

- Normal Default setting. The RGB image will be automatically adjusted. Normally select this option.
- Fine Select this option if fine adjustment is needed. It takes more time to switch to the source than when [Normal] is selected.

Enabling Auto Start [Auto Start]

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

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

Enabling Power Management [Power Management]

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

Enabling Fan Speed Mode [Fan Mode]

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

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

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

NOTE: It is recommended that you select High speed mode if you continue to use the projector for consecutive days.

Selecting Signal Format [Signal Select]

[Computer],[Computer 1],[Computer 2]

Allows you to choose [Computer] 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] in [Computer 1] (Computer on VT58/VT57/VT48) for the European Scart signal.

[Video & S-Video System Select]

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

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

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

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

Enabling the deinterlace [Deinterlace]

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

On ----- Default standard setting.

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

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

Enabling Key Sound and Error Sound [Beep]

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

Ø Menu Descriptions & Functions [Information]

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

[Usage Time]

Picture	Usage Time Source Version	
Image Options	Lamp Life Remaining	
Setup		99%
Information	Lamp Hours Used	1(H)
Reset	Filter Hours Used	1(H)
	Projector Hours Used	6(H)
Computer1		

[Lamp Life Remaining] (%)* [Lamp Hours Used] (H)

[Filter Hours Used] (H)

[Projector Hours Used] (H)

* The progress indicator shows the percentage of remaining bulb life.

The value informs you of the amount of lamp usage. When the remaining lamp time reaches 0, the Remaining Lamp Time bar indicator changes from 0% to 100 Hours and starts counting down.

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

Model	Lamp life(H)		Replacement lamp
Model	Normal	Eco	neplacement lamp
VT580/VT480	2000	3000	VT85LP
VT58/VT57/VT48	3000	4000	VT80LP

[Source]

Picture	Usage Time Source Version		
Image Options Setup	Source Index 108 Horizontal Frequency 48kHz		
Information	Vertical Frequency	40KHZ 60Hz	
Reset	Signal Type Video Type	RGB	
	Sync Type	Separate Sync	
	Sync Polarity	H:(-) V:(-)	
	Scan Type	Non-Interlace	
Computer1	,		

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

Download from Www.Somanuals.com. All Manuals Search And Download.

[Version]

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

[Firmware] Version [Data] Version

③ Menu Descriptions & Functions [Reset]

Picture	Reset
Image Options	Current Signal
Setup	All Data
Information	Clear Lamp Hours
Reset	Clear Filter Hours
Computer1	

Returning to Factory Default [Reset]

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

[Current Signal]

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

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

[All Data]

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

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

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

Clearing Lamp Hour Meter [Clear Lamp Hours]

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

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

NOTE: The projector will turn off and go into standby mode after 2100* hours (up to 3100* hours in Eco mode) of service. If this happens, press the HELP button on the remote control for ten seconds to reset the lamp clock back to zero. Do this only after replacing the lamp. * VT58, VT57 and VT48: 3100 hours (up to 4100 hours in Eco mode).

Clearing the Filter Usage Hours [Clear Filter Hours]

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

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

48

6. Maintenance

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

O Cleaning or Replacing the Filters

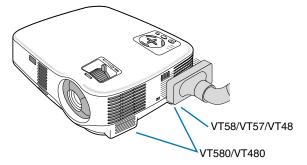
The air-filter sponge keeps dust and dirt from getting inside the projector and should be cleaned after every 100 hours of operation (more often in dusty conditions). If the filter is dirty or clogged, your projector may overheat.

CAUTION

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

To clean the air-filter:

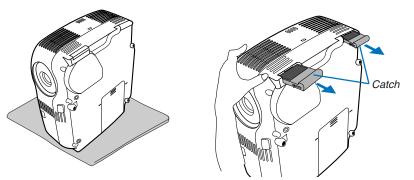
Vacuum the filter-through the filter cover.



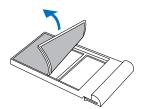
To replace the filter (sponge):

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

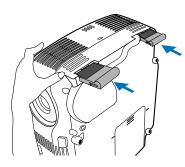
NOTE: The VT580 and VT480 have two filters; the VT58, VT57 and VT48 have one filter only.



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



3. Reinstall the new filter cover.



4. Clear the filter hours used.

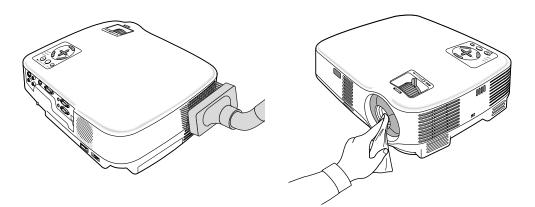
To reset the filter usage time, from the menu, select [Reset] \rightarrow [Clear Filter Hours]. (\rightarrow page 48 for resetting the filter usage time.)

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

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

O Cleaning the Cabinet and the Lens

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



③ Replacing the Lamp

After your lamp has been operating for 2000* hours (up to 3000* hours in Eco mode) or longer, the LAMP indicator in the cabinet will blink red and the message **[The lamp has reached the end of its usable life. Please replace the lamp.]** will appear. Even though the lamp may still be working, replace it at 2000* (up to 3000* hours in Eco mode) hours to maintain optimal projector performance. After replacing the lamp, be sure to clear the lamp hour meter. (\rightarrow page 48)

CAUTION

- DO NOT TOUCH THE LAMP immediately after it has been used. It will be extremely hot. Turn the projector off, wait 30 seconds, turn off the main power switch and then disconnect the power cable. Allow at least one hour for the lamp to cool before handling.
- DO NOT REMOVE ANY SCREWS except two lamp case screws. You could receive an electric shock.
- Do not break the glass on the lamp housing.

Keep finger prints off the glass surface on the lamp housing. Leaving finger prints on the glass surface might cause an unwanted shadow and poor picture quality.

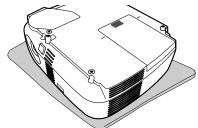
The projector will turn off and go into standby mode after 2100* (up to 3100* hours in Eco mode) hours of service. If this happens, be sure to replace the lamp. If you continue to use the lamp after 2000* hours (up to 3000* hours in Eco mode) of use, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury. If this happens, contact your NEC dealer for lamp replacement.

*NOTE: Lamp life for VT58/VT57/VT48 is 3000 hours in Normal mode and 4000 hours in Eco mode. The projector will turn off and go into standby mode after 3100 (up to 4100 hours in Eco mode) hours of service.

To replace the lamp:

Optional lamp and tools needed for replacement:

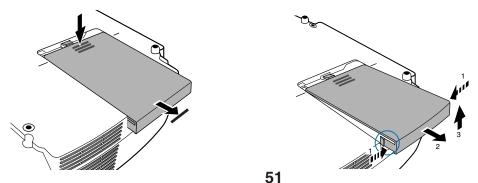
- Replacement lamp VT85LP (VT580/VT480) or VT80LP (VT58/VT57/VT48)
- 1. Place the projector on a soft cloth and turn it over to access the lamp cover on the bottom.



2. Remove the lamp cover.

- (1)Press firmly and slide the lamp cover by 1 cm (0.4")
 - Do not force to pull the lamp cover

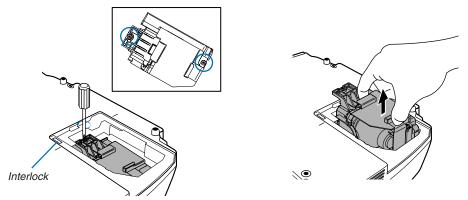
(2) Push to release two catches on both sides and slide the lamp cover off.



Download from Www.Somanuals.com. All Manuals Search And Download.

3. Remove the lamp housing.

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



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

4. Install a new lamp housing.

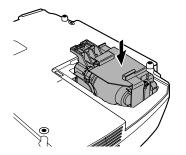
(1)Insert a new lamp housing until the lamp housing is plugged into the socket.

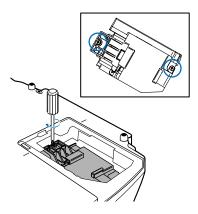
CAUTION

Do not use a lamp other than the NEC replacement lamp VT85LP (VT580/VT480) or VT80LP (VT58/VT57/VT48). Order this from your NEC dealer.

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

Be sure to tighten the screws.

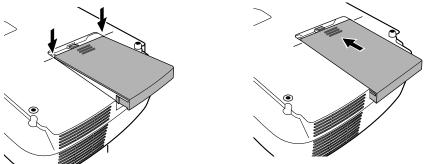




5. Reattach the lamp cover.

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

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



6. Connect the supplied power cable, turn on the Main Power switch and turn on the projector.

7. Finally, select the menu \rightarrow [Reset] \rightarrow [Clear Lamp Hours] to reset the lamp usage hours.

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

If this happens, press the HELP button on the remote control for ten seconds to reset the lamp clock back to zero. When the lamp time clock is reset to zero, the LAMP indicator goes out. * VT58, VT57 and VT48: 3100 hours (up to 4100 hours in Eco mode).

7. Appendix

Troubleshooting

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

Indicator Messages

Power Indicator

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

Status Indicator

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

Lamp Indicator

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

Common Problems & Solutions (\rightarrow "Power/Status/Lamp Indicator" on page 54.)

Problem	Check These Items
Does not turn on	 Check that the power cable is plugged in and that the power button on the projector cabinet or the remote control is on. (→ pages 18 and 19) Ensure that the lamp cover is installed correctly. (→ page 52) Check to see if the projector has overheated. If there is insufficient ventilation around the projector or if the room where you are presenting is particularly warm, move the projector to a cooler location. Check to see if the lamp usage exceeds 2100* hours (up to 3100* hours : Eco mode). If so, replace the lamp. After replacing the lamp, reset the lamp hours used. (→ page 48) * VT58, VT57 and VT48: 3100 hours (up to 4100 hours in Eco mode) The lamp may fail to light. Wait a full minute and then turn on the power again.
Will turn off	• Ensure that the Power Management or Off Timer is off. (\rightarrow page 45)
No picture	 Use the VIDEO, the S-VIDEO or the COMPUTER button on the remote control to select your source (Computer, Video or S-Video). (→ page 21) If there is still no picture, press the button again. Ensure your cables are connected properly. Use menus to adjust the brightness and contrast. (→ page 41) Remove the lens cap. Reset the settings or adjustments to factory preset levels using the [Reset] in the Menu. (→ page 48) Enter your registered keyword if the Security function is enabled. (→ page 30) Be sure to connect the projector and notebook PC while the projector is in standby mode and before turning on the power to the notebook PC. In most cases the output signal from the notebook PC is not turned on unless connected to the projector before being powered up. * If the screen goes blank while using your remote control, it may be the result of the computer's screensaver or power management software. See also the next page.
Picture suddenly becomes dark	 When one of the following happens, the Lamp mode automatically changes from Normal to Eco. * When there are no signals → To return to the Normal mode, select another available source. * When the room where you' re presenting is particularly warm → Move the projector to a cooler location.
Color tone or hue is unusual	 Check if an appropriate color is selected in [Wall Color]. If so, select an appropriate option. (→ page 43) Adjust [Hue] in [Picture]. (→ page 41)
Image isn't square to the screen	 Reposition the projector to improve its angle to the screen. (→ page 22) Use the Keystone correction function to correct the trapezoid distortion. (→ page 24)
Picture is blurred	 Adjust the focus. (→ page 23) Reposition the projector to improve its angle to the screen. (→ page 22) Ensure that the distance between the projector and screen is within the adjustment range of the lens. (→ page 9 for VT580/VT480/VT58/VT57 and 10 for VT48) 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	 Use the VIDEO, the S-VIDEO or the COMPUTER button on the remote control to select your source (Video, S-Video or Computer). (→ page 21) Adjust the computer image manually with the Horizontal/Vertical in the [Image Options]. (→ page 42)
Remote control does not work	 Install new batteries.(→ page 8) Make sure there are no obstacles between you and the projector. Stand within 22 feet (7 m) of the projector. (→ page 8)
Indicator is lit or blinking	• See the POWER/STATUS/LAMP Indicator. (\rightarrow page 54)
Cross color in RGB mode	 Press the AUTO ADJ. button on the projector cabinet or the remote control. (→ page 26) Adjust the computer image manually with Clock/Phase in [Image Options] in the menu. (→ pages 42)

For more information contact your dealer.

If there is no picture, or the picture is not displayed correctly.

· Power on process for the projector and the PC.

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

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

NOTE: You can check the horizontal frequency of the current signal in the projector's menu under Information. If it reads "OkHz", this means there is no signal being output from the computer. (\rightarrow page 47 or go to next step)

• Enabling the computer's external display.

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

• Non-standard signal output from the computer

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

• Image displayed is incorrect when using a Macintosh

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

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

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

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

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

2 Specifications

This section provides technical information about the VT580/VT480/VT58/VT57/VT48 projector's performance.

Model Number	VT580/VT480/VT58/VT57/VT48
Optical	
LCD Panel	0.6" p-Si TFT active-matrix with Micro Lens Array
Resolution	VT580/VT58/VT57: 1024 $ imes$ 768 pixels* native, up to UXGA with Advanced
	AccuBlend
	VT480/VT48: 800 \times 600 pixels* native, up to UXGA with Advanced AccuBlend
Lens	VT580/VT480/VT58/VT57: Manual zoom and manual focus
	F1.7 - 2.0 f=18.9 - 22.7 mm
	VT48: Digital zoom and manual focus
	F1.7 f=22.4 mm
Lamp	VT580/VT480: 190W DC lamp (150W Eco mode)
	VT58/VT57/VT48: 150W DC lamp (120W Eco mode)
Image Size (Diagonal)	VT580/VT480/VT58/VT57: 21 - 300 inches / 0.5 - 7.6 m
	VT48: 25 - 300 inches / 0.6 - 7.6 m
Projection Distance	VT580/VT480/VT58/VT57: 2.5 - 36.4 ft / 0.7 - 11.1 m
	VT48: 3.0 - 36.0 ft / 0.9 - 11.0 m
Projection Angle	VT580/VT480/VT58/VT57: Tele: 8.3° - 8.6°/ Wide: 9.9° - 10.3°
Kaustana Oamaatian	VT48: 8.4° - 8.7°
Keystone Correction	+/- 30° Vertical (Auto Keystone on VT580 only)
Electrical	
Inputs	VT580/VT480: 2 RGB/Component (D-Sub 15 Pin),
	1 S-Video (DIN 4 Pin), 1 Video (RCA), 1 (L/R) RCA Audio,
	1 Stereo Mini Audio, 1 PC Control (DIN 8 Pin)
	VT58/VT57/VT48: 1 RGB/Component (D-Sub 15 Pin), 1 S-Video (DIN 4 Pin),
	1 Video (RCA), 1 (L/R) RCA Audio, 1 PC Control (DIN 8 Pin)
Outputs	1 RGB (D-Sub 15 Pin), 1 Stereo Mini Audio (not available on VT58/VT57/VT48)
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: 540 TV lines
	SECAM: 300 TV lines
	RGB: VT580/VT58/VT57: 1024 dots (H) × 768 dots (V),
	VT480/VT48: 800 dots (H) × 600 dots (V)
External Control	RS232, IR

* Effective pixels are more than 99.99%.

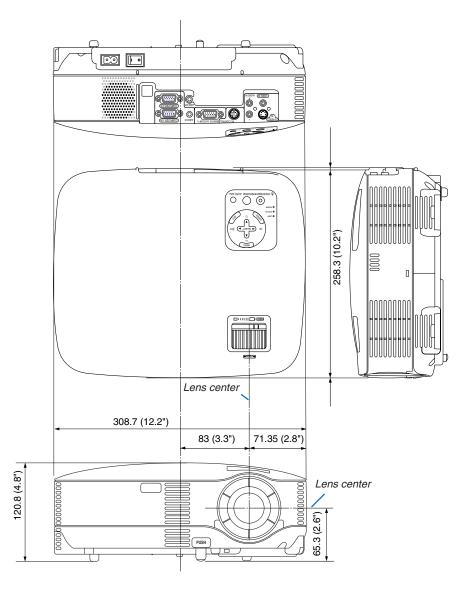
	••
Sync Compatibility	Separate Sync / Composite Sync / Sync on G
Built-in Speaker	1W (monaural)
Power Requirement	100 - 240V AC, 50 / 60 Hz
Input Current	VT580/VT480: 3.1 - 1.3A
	VT58/VT57/VT48: 2.4 - 1.0A
Power Consumption	VT580/VT480: 8W in Standby mode /
	280W in Lamp Normal mode / 221W in Lamp Eco mode
	VT58/VT57/VT48: 8W in Standby mode /
	190W in Lamp Normal mode / 155W in Lamp Eco mode
Mechanical	
Installation Orientation	Desktop/Front, Desktop/Rear, Ceiling/Front, Ceiling/Rear
Dimensions	12.2" (W)×4.4" (H)×10.2" (D)
	309mm (W)×112mm (H)×258mm (D)
	(not including protrusions)
Weight	VT580/VT480: approx. 6.4 lbs / 2.9 kg
	VT58/VT57/VT48: approx. 6.2 lbs / 2.8 kg
Environmental Considerations	Operational Temperatures : 41° to 104°F (5° to 40°C),
	(Eco mode selected automatically at 95°F to 104°F/35°C to 40°C)
	20% to 80% humidity (non-condensing)
	Storage Temperatures : 14° to 122°F (-10° to 50°C),
	20% to 80% humidity (non-condensing)
Regulations	
VT580/VT480/VT58/VT48:	
	UL Approved (UL 60950 - 1)
	Meets FCC Class B requirements
	For Canada:
	UL Approved (CSA 60950 - 1)
	Meets DOC Canada Class B requirements
	For Australia/New Zealand:
	Meets AS/NZS CISPR.22 Class B
	For Europe:
	Meets EMC Directive (EN55022, EN55024, EN61000-3-2, EN61000-3-3)
	Meets Low Voltage Directive (EN60950 - 1, TÜV GS Approved)
	CE
VT57:	Meets EMC Directive (EN55022, EN55024, EN61000-3-2, EN61000-3-3)
137.	Meets Low Voltage Directive (EN60950-1, TÜV GS Approved)
	CE

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

The specifications are subject to change without notice.

③ Cabinet Dimensions

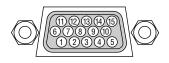
Although the appearance is slightly different, the VT580, VT480, VT58, VT57 and VT48 are the same in dimensions.



Unit: mm (inch)

O Pin Assignments of D-Sub COMPUTER Input Connector

Mini D-Sub 15 Pin Connector



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

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

* Only COMPUTER 1 input connector supported on VT580/VT480.

G Compatible Input Signal List

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

		Signal	Resolution	Frequency H.	Refresh Rate
		NTSC	(Dots)	(kHz) 15.73	(Hz) 59.94
		PAL	_	15.63	50.00
		PAL60		15.73	60.00
		SECAM		15.63	50.00
		VESA	640 × 480	31.47	59.94
		IBM	$\frac{640 \times 480}{640 \times 480}$	31.48	59.95
		MAC	640 × 480	35.00	66.67
		VESA	640 × 480	37.86	72.81
		VESA	640 × 480	37.50	75.00
		IBM	640 × 480	39.38	75.00
		VESA	640 × 480	43.27	85.01
		IBM	720 × 350	31.47	70.08
		IBM	720 × 350 720 × 350	39.44	87.85
		IBM	720 × 330	39.44	87.85
		VESA	800 × 600	35.16	56.25
		VESA	800 × 600 800 × 600	37.88	60.32
		VESA	800 × 600 800 × 600	48.08	72.19
		VESA	800 × 600 800 × 600	46.88	75.00
		VESA	800 × 600 800 × 600	53.67	85.06
@		MAC			
@		VESA	$\frac{832 \times 624}{1024 \times 768}$	49.72	74.55
@		-		48.36	60.00
		VESA	1024 × 768	56.48	70.07
@		MAC	1024 × 768	60.24	74.93
@		VESA	$\frac{1024 \times 768}{1024 \times 768}$	60.02	75.03
		VESA		68.68	85.00
@	#	VESA	1152 × 864	67.50	75.00
@	#	MAC	1152 × 870	68.68	75.06
@	#	VESA	1280 × 960	60.00	60.00
@	#		1280 × 960	75.00	75.00
@	#	1/504	1280 × 960	85.94	85.00
@	#	VESA	1280 × 1024	63.98	60.02
@	#	MAC	1280 × 1024	69.87	65.18
@	#	VESA	1280 × 1024	79.98	75.02
@	#	VESA	1280 × 1024	91.15	85.02
@	#	VESA	1600 × 1200	75.00	60.00
@	#	VESA	1600 × 1200	81.25	65.00
@	#	VESA	1600 × 1200	87.50	70.00
@	#	VESA	1600 × 1200	93.75	75.00
		SDTV(576i)(625i)	-	15.63	50.00 Interlace
		SDTV(576p)(625p)	-	31.25	50.00 Progressive
@	#	HDTV (1080i)(1125i)	1920 × 1080	33.75	60.00 Interlace
@	#	HDTV (1080i)(1125i)	1920 × 1080	28.13	50.00 Interlace
@	#	HDTV (720p)(750p)	1280 \times 720	45.00	60.00 Progressive
		SDTV (480p)(525p)	-	31.47	59.94 Progressive
		DVD YCbCr	-	15.73	59.94 Interlaced
		DVD YCbCr	-	15.63	50.00 Interlaced

: Images in above flagged with # are compressed with Advanced AccuBlend on VT580/VT58/VT57.

@ : Images in above flagged with @ are compressed with Advanced AccuBlend on VT480/VT48.

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

Signals other than those specified in the table above may not be displayed correctly. If this should happen, change the refresh rate or resolution on your PC. Refer to Display Properties help section of your PC for procedures. UXGA (1600×1200) is supported for separate sync signal only.

O PC Control Codes and Cable Connection

PC Control Codes (VT580/VT480)

Function	Code I	Data							
POWER ON	02H	00H	00H	00H	00H	02H			
POWER OFF	02H	01H	00H	00H	00H	03H			
INPUT SELECT COMPUTER 1	02H	03H	00H	00H	02H	01H	01H	09H	
INPUT SELECT COMPUTER 2	02H	03H	00H	00H	02H	01H	02H	0AH	
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH	
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H	0BH	13H	
PICTURE MUTE ON	02H	10H	00H	00H	00H	12H			
PICTURE MUTE OFF	02H	11H	00H	00H	00H	13H			
SOUND MUTE ON	02H	12H	00H	00H	00H	14H			
SOUND MUTE OFF	02H	13H	00H	00H	00H	15H			

PC Control Codes (VT58/VT57/VT48)

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

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

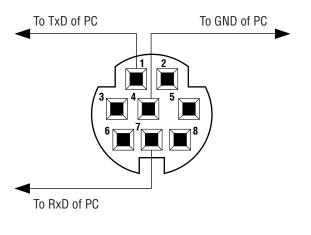
Cable Connection

Communication Protocol

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

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

PC Control Connector (DIN-8P)



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

Troubleshooting Check List

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

* Print the following pages.

Frequency of occurrence always sometimes (How often?_) 🗆 other ()
Power	
 No power (POWER indicator does not light green) See also "Status Indicator (STATUS)". Power cable's plug is fully inserted into the wall outlet. Main power switch is pressed to the ON position. Lamp cover is installed correctly . Lamp Hours Used (lamp operation hours) was cleared after lamp replacement. No power even though you press and hold the POWER button for 1 second. 	 Shut down during operation. Power cable's plug is fully inserted into the wall outlet. Lamp cover is installed correctly . Power Management is turned off (only models with the Power Management function). Off Timer is turned off (only models with the Off Timer function).
Video and Audio	
 No image is displayed from your PC or video equipment to the projector. Still no image even though you connect the projector to the PC first, then start the PC. Enabling your notebook PC's signal output to the projector. <i>A combination of function keys will enable/disable the external display. Usually, the combination of the "Fn" key along with one of the 12 function keys turns the external display on or off.</i> No image (blue or black background, no display). Still no image even though you press the AUTO ADJUST button. Still no image even though you carry out [Reset] in the projector's menu. Signal cable's plug is fully inserted into the input connector A message appears on the screen. The source connected to the projector is active and available. Still no image even though you adjust the brightness and/or the contrast. 	 Parts of the image are lost. Still unchanged even though you press the AUTO ADJUST button. Still unchanged even though you carry out [Reset] in the projector's menu. Image is shifted in the vertical or horizontal direction. Horizontal and vertical positions are correctly adjusted on a computer signal. Input source's resolution and frequency are supported by the projector. Some pixels are lost. Image is flickering. Still unchanged even though you press the AUTO ADJUST button. Still unchanged even though you carry out [Reset] in the projector's menu. Image shows flickering or color drift on a computer signal. Image appears blurry or out of focus. Still unchanged even though you checked the signal's resolution on PC and changed it to projector's native resolution.
	No sound.
 Image is too dark. Remains unchanged even though you adjust the brightness and/or the contrast. Image is distorted. Image appears to be trapezoidal (unchanged even though you carry out the [Keystone] adjustment). 	Audio cable is correctly connected to the audio input of the projector. Still unchanged even though you adjusted the volume level. AUDIO OUT is connected to your audio equipment (only models with the AUDIO OUT connector).
Other	
 Remote control does not work. No obstacles between the sensor of the projector and the remote control. Projector is placed near a fluorescent light that can disturb the infrared remote controls. Batteries are new and are not reversed in installation. 	 Buttons on the projector cabinet do not work (only models with the Key Lock function). Control Panel Lock is not turned on or is disabled in the menu. Still unchanged even though you press and hold the EXIT button for a minimum of 10 seconds.

In the space below please describe your problem in detail.

Information on application and environment where your projector is used

Projector		In
Model number:		S
Serial No.:		S
Date of purchase:		
Lamp operating time (hours):		T
Lamp Mode:	🗆 Normal 🔲 Eco	0
Information on input signal:		P
Horizontal synch frequency	[] kHz	
Vertical synch frequency	[] Hz	
Synch polarity	H 🗆 (+) 🔲 (-)	
	V 🗆 (+) 🖾 (-)	
Synch type	🗆 Separate 🔲 Composite	
	□ Sync on Green	
STATUS Indicator:		Co
Steady light	🗆 Orange 🔲 Green	M
Flashing light	[] cycles	M
Remote control model numbe	r:	N
		N
		R
_		Vi
Destination	PC	0
Projector		
	DVD player	
Signal apple		Vi
Signal cable NEC standard or other manufa	noturor'e ophio?	V
Model number:	Length: inch/m	
Distribution amplifier		M
Model number:		M
Switcher		L
Model number:		
Adapter		
Model number:		

Installation environment		
Screen size:		inch
Screen type:	White matte	🗆 Beads 🗀 Polarization
	Wide angle	🗆 High contrast
Throw distance:		feet/inch/m
Orientation:	Ceiling moun	nt 🗌 Desktop
Power outlet connection:		
Connected directly to wall outlet		
 Connected to power cord extender or other (the num- ber of connected equipment) 		
Connected to a power cord reel or other (the number of connected equipment)		
Computer		
Manufacturer:		
Model number:		
Model number:		
Notebook PC \square /	Desktop 🗌	
	Desktop 🗌	
Notebook PC 🗌 /	Desktop 🗌	
Notebook PC [] / Native resolution:	Desktop 🗌	

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

8 TravelCare Guide

TravelCare - a service for international travelers

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

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

Services offered with TravelCare

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

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

1 Repair services

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

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

2 Replacement product rental service

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

Fee: US\$200 for 12 days

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

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

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

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

refer to the "List of TravelCare Outlets".

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

Term of warranty

1

 Upon presentation of the warranty or receipt received upon purchase:

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

- b. When only the product is brought in: Valid for a period of within 14 months of the date of manufacture indicated by the serial number attached to the product.
- 2 When a product whose term of warranty is expired is brought in: Repairs will be offered for a fee. In this case the customer is not
- eligible for the replacement product rental service.
- 3 In the following cases, repairs may be charged, even if the product's warranty is still in effect:
 - If the term of warranty, model name, serial number and name of the store of purchase are not indicated on the warranty or have been altered.
 - Problems or damage caused by dropping or shocks during shipment or movement by the customer or by improper handling by the customers.
 - Problems or damage caused by improper usage or unwarrantable alterations or repairs by the customer.
 - 4) Problems or damage caused by fire, salt damage, gas damage, earthquakes, lightning damage, storm or flood damage or other natural disasters or such external factors as dust, cigarette smoke, abnormal voltage, etc.

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

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

List of TravelCare Outlets

This list applies as of December 1, 2004.

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 N. 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 +81 465 85 2393 Fax Line: 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. 7F, No.167, SEC.2, Nan King East Road, Taipei, Address: Taiwan, R.O.C. +886 2 8500 1734 Telephone: Fax Line: +886 2 8500 1420 Email Address: nickliao@nec.com.tw WEB Address: http://www.nec.com.tw (Regions Covered) Taiwan NEC Solutions Asia Pacific Pte. Ltd 401 Commonwealth Drive, #07-02, Haw Par Address: Technocentre, Singapore 149598 Telephone: +65 6 273 8333 Fax Line: +65 6 274 2226 Email Address: tehgh@rsc.ap.nec.com.sg WEB Address: http://www.nec.com.sg/ap (Regions Covered) Singapore NEC Systems Integration Malaysia Sdn Bhd Ground Floor, Menara TA One, 22, Jalan P. Ramlee, Address: 50250 Kuala Lumpur, Malaysia Telephone: +6 03 2164 1199 Fax Line: +6 03 2160 3900 Email Address: necare@nsm.nec.co.jp WEB Address: http://www.necmalaysia.com.my (Regions Covered) Malaysia Tele Service Co., Ltd. Address: 2nd Fl., Ire B/D. #2, 4Ga, Yangpyeng-Dong, Youngdeungpo-Gu, Seoul, Korea 150-967 Telephone: +82 2 2163 4193 Fax Line: +82 2 2163 4196 Email Address: moneybear@hyosung.com

(Regions Covered) South Korea Lenso Communication Co., Ltd. 292 Lenso House 4, 1st Floor, Srinakarin Road, Address: 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. Tariq Bin Ziyad Road, P.O.Box 327, Dubai, Address: United Arab Emirates +971 4 371800 Telephone: 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.

Date: / /

P-1/ ,

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

(Company & Name with signature)

Dear Sir (s),

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

Application Sheet for TravelCare Service Program

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

Condition of your TravelCare Service Program

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

1. Service Options:

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

1) Repair and Return:

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

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

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

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

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

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

3) Loan Only:

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

2. Warranty Exclusions:

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

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

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

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

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

4. Dead on Arrival (DOA):

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

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

5. Loan Service Charges and Conditions:

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

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

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

Thank you for your understanding of this program.

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com