

Projector

L50W

User's Manual

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NOTES

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

Important Information

Safety Cautions

Precautions

Please read this manual carefully before using your NEC L50W projector and keep the manual handy for future reference.

CAUTION



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

CAUTION



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



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



This symbol alerts the user that important information concerning the operation and maintenance of this unit has been provided. The information should be read carefully to avoid problems.

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

DOC Compliance Notice (for Canada only)

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

Machine Noise Information Regulation - 3. GPSGV,

The highest sound pressure level is less than 70 dB (A) in accordance with EN ISO 7779.

Disposing of your used product



EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes projectors and their electrical accessories. 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 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 Display Solutions of America, Inc. in this manual. Failure to comply with this government regulation could void your right to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

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

Important Safeguards

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

Installation

- Do not place the projector in the following conditions:
 - on an unstable cart, stand, or table.
 - near water, baths, or damp rooms.
 - in direct sunlight, near heaters, or heat radiating appliances.
 - in a dusty, smoky or steamy environment.
 - on a sheet of paper or cloth, rugs or carpets.
- Do not mount the projector on the ceiling or wall. The projector is not designed for that purpose.

WARNING

- Do not use any other object than the projector's sliding lens cover to cover the lens while the projector is on. Doing so can cause the object to get extremely hot, and possibly resulting in a fire or damage due to the heat emitted from the light output.
- Do not place any objects, which are easily affected by heat, in front of the projector lens. Doing so could lead to the object melting from the heat that is emitted from the light output.



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



- Keep any items (magnifying glass etc.) out of the light path of the projector. The light path 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 a fire or injury to the eyes.
- Do not block the light path between the light source and the lens with any objects. Doing so could cause the object to catch on fire.
- Handle the power cord carefully. A damaged or frayed power cord can cause electric shock or fire.
 - Do not use any power cord other than the one supplied.
 - Do not bend or tug the power cord excessively.
 - Do not place the power cord under the projector, or any heavy object.
 - Do not cover the power cord with other soft materials such as rugs.
 - Do not heat the power cord.
 - Do not handle the power plug with wet hands.
- Turn off the projector, unplug the power cord and have the projector serviced by a qualified service personnel under the following conditions:
 - When the power cord or plug is damaged or frayed.
 - If liquid has been spilled into the projector, or if it has been exposed to rain or water.
 - If the projector does not operate normally when you follow the instructions described in this user's manual.
 - If the projector has been dropped or the cabinet has been damaged.
 - If the projector exhibits a distinct change in performance, indicating a need for service.
- Disconnect the power cord and any other cables before carrying the projector.
- Turn off the projector and unplug the power cord if the projector is not to be used for an extended period of time.
- 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.

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 short, heat, or take apart battery.
- Do not throw battery into fire.
- If you will not be using the remote control for a long time, remove the battery.
- Dispose of used battery according to your local regulations.
- Do not place the battery upside down.

NOTE:

- * Keep the coin cell battery out of reach of children so as not to allow them to swallow the cell battery.

About High Altitude mode

- Set [Fan Mode] to [High] when using the projector at altitudes approximately 2500 feet/760 meters or higher.
- Using the projector at altitudes approximately 2500 feet/760 meters or higher without setting to [High] can cause the projector to overheat and the projector could shut down. If this happens, wait a couple minutes and turn on the projector.

About Copyright of original projected pictures:

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

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Precautions



Follow all warnings, precautions and maintenance as recommended in this user's guide to maximize the life of your unit.

- Warning- Turn on the projector first and then the signal sources.

Turkish RoHS information relevant for Turkish market
EEE Yonetmeliğine Uygundur.

High gain type screens are not optimal for use with this projector. The lower the screen gain (i.e., screen gain on the order of 1), the better the appearance of the projected image.

Usage Notice

Do:

- Turn off the product before cleaning.
- Use a soft cloth moistened with mild detergent to clean the cabinet.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.
- If the lens is soiled, use a commercially available cleaning cloth for lens.

Do not:

- Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
 - Extremely heat, cold or humidity.
 - In areas susceptible to excessive dust and dirt.
 - In direct sunlight.
 - Apply excessively strong pressure against the lens.

Introduction

Product Features

This product is a WXGA single chip 0.45" DLP™ projector.

Features you'll enjoy:

- **Light and small LED projector**

The projector uses LED as a light source instead of lamp.

- **Display popular wide screen**

High resolution display - 1,039,680 pixels (similar to WXGA)

- **Quick start (4 seconds), Quick Power Off (0.5 second), Direct Power Off**

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

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

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

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

- **0.5W in standby condition with energy saving technology**

The projector consumes only 0.5W in standby mode.

- **Eco Mode**

This feature will save electricity cost when "Eco Mode" is set to "On" in the Options menu.

- **HDMI input port provides digital signal**

The HDMI input provides HDCP compatible digital signals. The HDMI input also supports audio signal.

- **2W built-in speaker for an integrated audio solution**

Monaural 2 watt speaker provides volume need for large rooms.

- **USB Display**

Using a commercially available USB cable (compatible with USB 2.0 specifications) to connect the computer with the projector allows you to send your computer screen image to the projector without the need of a traditional computer cable (VGA)

- **Multimedia**

This allows you to view photo, music, video, or Office Reader supported file (Adobe PDF or Microsoft Word/Excel/PowerPoint) stored in SD card or USB memory device.

This also allows you to use part of the memory inside the projector as your storage device.

- **Auto Power On and Auto Power Off features**

The Auto Power On, Auto Power Off, and Off Timer features eliminate the need to always use the POWER button on the remote control or projector cabinet.

- **Wall Color Correction**

Built-in Wall Color correction presets provide for adaptive color correction when projecting onto non-white screen material.

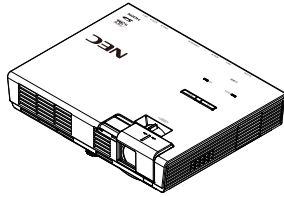
Introduction

NOTE

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

Package Overview

This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if anything is missing.



Projector

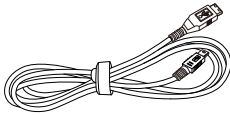


Remote Control
(P/N:79TC5091)
Battery (CR2025)

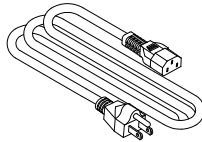


Inner Case
(P/N: 79TC5011)

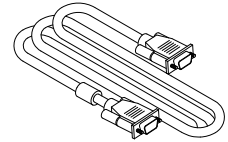
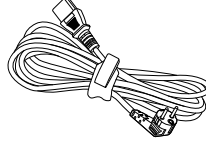
US (P/N:79TC5021) EU (P/N:79TC5031)



USB Cable
(P/N: 79TC5071)



Power Cord x1



Computer Cable (VGA)
(P/N:79TC5061)

NOTE

❖ Due to the difference in applications for each country, some regions may have different accessories.

Cleaning Cloth (For cleaning the cabinet only)

(P/N: 79TC5081)

Documentation:

NEC Projector CD-ROM

(P/N: 7N951672)

Quick Setup Guide (P/N: 7N8N2201)

For Europe:

Guarantee Policy

For customers in Europe: You will find our current valid Guarantee Policy on our Web Site: www.nec-display-solutions.com

Important Information (For

North America: 7N8N2181)

(For Other countries than

North America: 7N8N2181

and 7N8N2191)

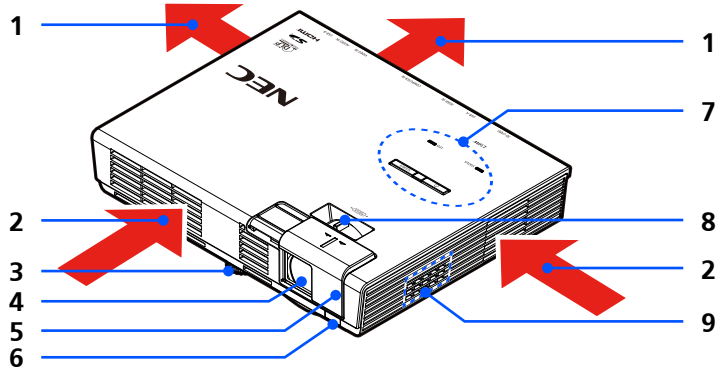
For North America:

Registration Card

Limited Warranty

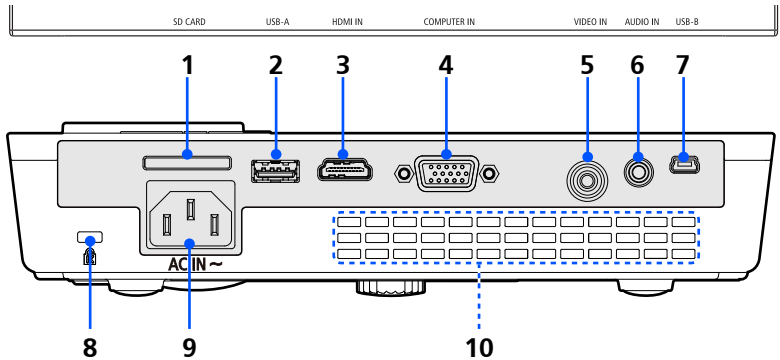
Product Overview

Projector



1. Ventilation (outlet)
2. Ventilation (inlet)
3. Tilt Adjusting Foot
4. Lens
5. Lens Cover
6. Remote Sensor
7. Control Panel
8. Focus Lever
9. Speaker

Connection Ports



❖ We do not warrant that the projector supports all SD cards and all USB devices in the market.

❖ Mobile phones or iPod cannot be connected to the USB-A port.

1. SD CARD Slot

Used for Multimedia.

Note:

Supported SD card types are:

- SD card up to 2 GB
- SDHC card up to 32 GB

(Mini/Micro SD and Mini/Micro SDHC cards require an adapter.)

2. USB-A Port

Connect a commercially available USB device. Used for Multimedia.

3. HDMI IN Connector

4. COMPUTER IN Connector

5. VIDEO IN Connector

6. AUDIO IN Connector

7. USB-B Port

Used for Multimedia and USB Display.

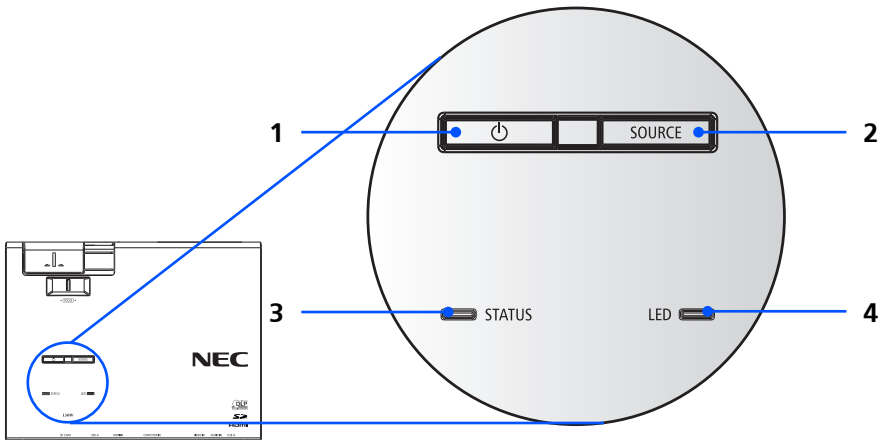
8. Kensington™ Lock Port (This security slot supports the MicroSaver® Security System)



9. AC IN

10. Ventilation (outlet)

Introduction

Control Panel

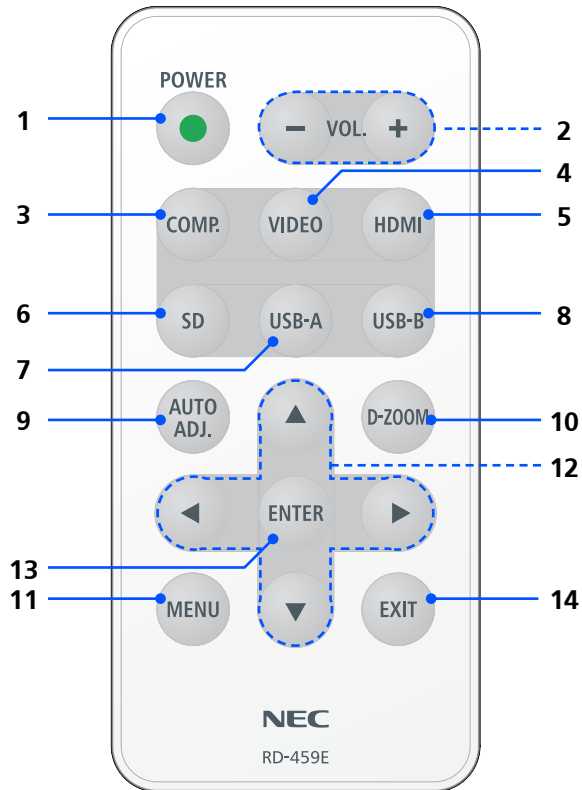
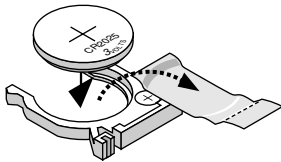



1	 POWER and indicator	Press the “  ” button to turn on the projector. Refer to the “Power On/Off the Projector” section on pages 14-15.
2	SOURCE	Press “SOURCE” to select an input signal.
3	STATUS indicator	Indicate the projector’s temperature status and Control Panel Lock is enabled. Refer to the Status Indicator on page 44.
4	LED indicator	Indicate the projector’s light source (LED) status. Refer to the LED Indicator on page 44.

Remote Control




❖ Before using the remote control for the first time, remove the transparent insulation tape. See page 11 for battery installation.



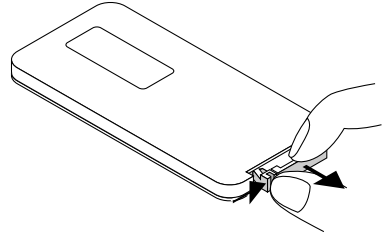
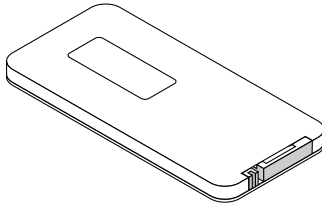
1	 POWER	Refer to the “Power On/Off the Projector” section on pages 14-15
2	VOL. +/-	Increase/decrease speaker volume.
3	COMP.	Press “COMP.” to choose COMPUTER IN connector.
4	VIDEO	Press “VIDEO” to choose the VIDEO IN connector.
5	HDMI	Press “HDMI” to choose the HDMI IN connector.

Introduction

6	SD	Press “SD” to choose the SD CARD slot. Multimedia will start.
7	USB-A	Press “USB-A” to choose the USB-A port. Multimedia will start.
8	USB-B	Press “USB-B” to choose the USB-B port. (USB Display)
9	AUTO ADJ.	Optimizing a computer image automatically.
10	D-ZOOM	Zoom in/out the projected image.
11	MENU	Press “MENU” to launch the Onscreen display (OSD), back to the top level of OSD for the OSD main menu operation
12	 Four Directional Select Buttons	Use ▲ or ▼ or ◀ or ▶ to select items or make adjustments to your selection.
13	ENTER	Confirm your section of items in sub menu operation.
14	EXIT	Exit the settings.

Battery Installation

1. Press firmly and slide the battery cover off.

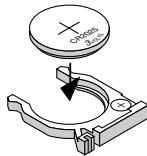


❖ The infrared signal operates by line-of-sight up to a distance of about 22 feet/7 m and within a 60-degree angle of the remote sensor on the projector cabinet.

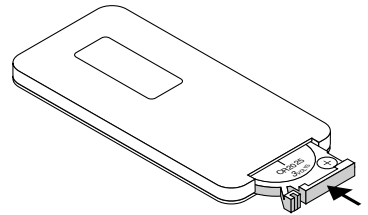
❖ The projector will not respond if there are objects between the remote control and the sensor, or if strong light falls on the sensor. Weak battery will also prevent the remote control from properly operating the projector.

❖ Keep the coin cell battery out of reach of children so as not to allow them to swallow the cell battery.

2. Remove the old Lithium coin cell and install new one (CR2025). Ensure that the side with a "+" is facing up.



3. Put the cover back.



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 place the battery upside down.

CAUTION:

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

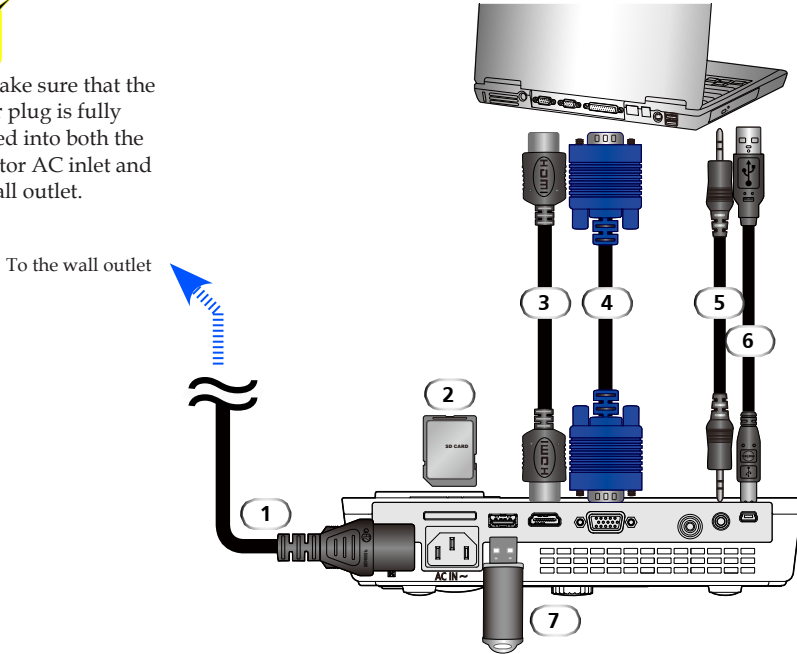
Installation

Connecting the Projector

Connect to Computer/Notebook



❖ Make sure that the power plug is fully inserted into both the projector AC inlet and the wall outlet.



Note:

When Viewing a DVI Digital Signal

- Use a DVI-to-HDMI cable compliant with DDWG (Digital Display Working Group) DVI (Digital Visual Interface) revision 1.0 standard. The cable should be within 197"/5 m long.
- Turn off the projector and the PC before connecting the DVI-to-HDMI cable.
- To project a DVI digital signal: Connect the cables, turn the projector on, then select the HDMI input. Finally, turn on your PC.

Failure to do so may not activate the digital output of the graphics card resulting in no picture being displayed. Should this happen, restart your PC.

- Some graphics cards have both analog RGB (15-pin D-Sub) and DVI (or DFP) outputs. Use of the 15-pin D-Sub connector may result in no picture being displayed from the digital output of the graphics card.
- Do not disconnect the DVI-to-HDMI cable while the projector is running. If the signal cable

- 1.....Power cord (supplied)
- 2.....SD Card
- 3.....HDMI cable
- 4..... Computer cable (VGA) (supplied)
- 5.....Audio in cable
- 6.....USB cable (supplied)
- 7..... USB memory device

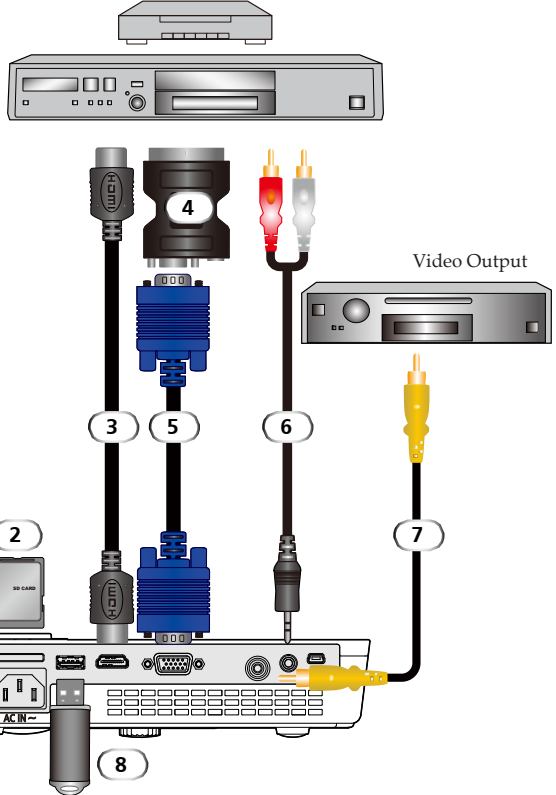
Installation

Connect to Video Sources



❖ Make sure that the power plug is fully inserted into both the projector AC inlet and the wall outlet.

DVD Player, Blu-ray Player,
Set-top Box, HDTV receiver



To the wall outlet



❖ Due to the difference in applications for each country, some regions may have different accessories.

- | | |
|--------|---------------------------------|
| 1..... | Power cord (supplied) |
| 2..... | SD Card |
| 3..... | HDMI cable |
| 4..... | SCART/VGA adaptor |
| 5..... | Computer cable (VGA) (supplied) |
| 6..... | Audio in cable |
| 7..... | Composite video cable |
| 8..... | USB memory device |

HDMI cable: Use High Speed HDMI® Cable.


Installation

Powering On/Off the Projector

Powering On the Projector

NOTE

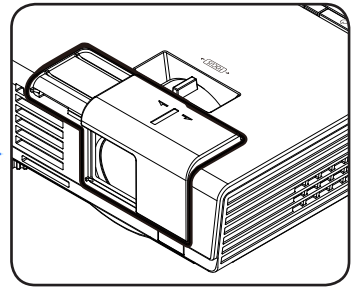
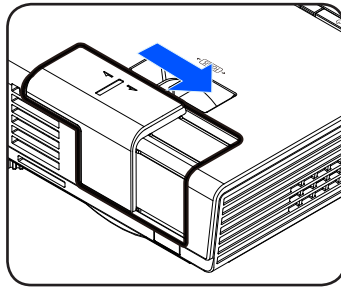
❖ When you first turn on the projector, you will get the Startup menu. This menu gives you the opportunity to select the menu languages. Select your language. Refer to Language on page 27.

1. Slide the lens cover. ❶
 1. Ensure that the power cord and signal cable are securely connected. The Power indicator will turn red.
 2. Turn on the projector by pressing "POWER" on the remote control or  on the control panel. ❷ The Power indicator will flash blue. The startup screen (NEC logo) will display and the Power indicator will turn steady blue.
 4. Turn on your source (computer, notebook, video player, etc.) The projector will detect your source automatically.
- ❖ If you connect multiple sources at the same time, use the "SOURCE" button on the control panel or use "COMP.", "VIDEO", "HDMI", "SD", "USB-A", "USB-B" on the remote control to switch inputs.

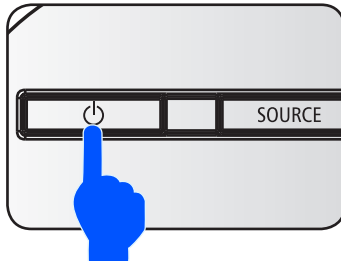
NOTE

❖ Turn on the projector first and then the signal sources.

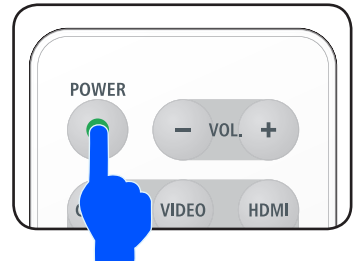
1 Lens Cover



2 POWER



OR




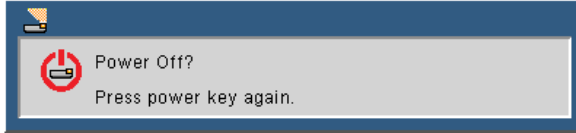
Powering Off the Projector



❖ In some cases the POWER indicator can stay light for a certain period of time after the power cord is unplugged.

This is not a fault. Press the POWER button again with the power cord unplugged and the indicator light will go off.

1. Press the "POWER" button on the remote control or the  button on the control panel to turn off the projector, you will see a message as below on the on-screen display.

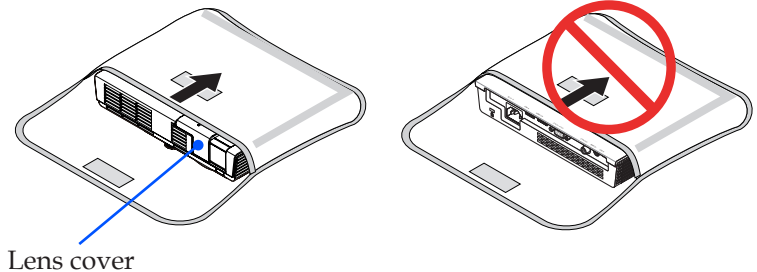


2. Press the "POWER" button again to confirm. When the light turns red, the projector has entered standby mode.
3. Disconnect the power cord from the electrical outlet and the projector.
4. Do not turn on the projector immediately following a power off procedure.

After Use

When storing the projector in the supplied soft case, insert the projector with the top cabinet facing upward.

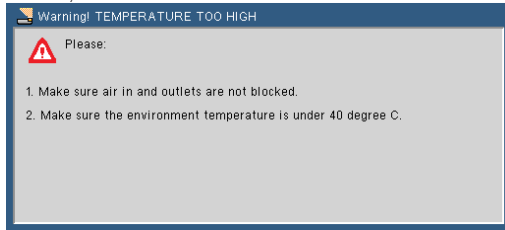
The remote control can be stored in the inner pocket inside the soft case.



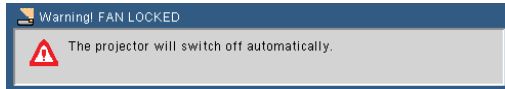
Lens cover

Warning Indicator

- ❖ When the “STATUS” indicator flashes red in two cycles, it indicates the projector has overheated. The projector will automatically shut itself down.



- ❖ When the “STATUS” indicator flashes red in four cycles and the message below displays on-screen, it indicates the fan failed. Stop using the projector and disconnect the power cord from the electrical outlet, then contact your local dealer or our service center.

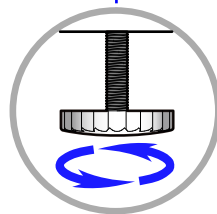
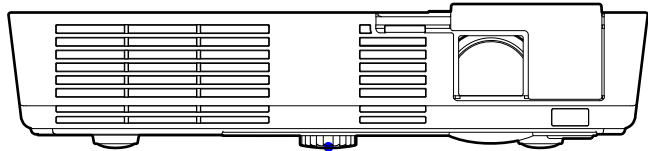


Adjusting the Projected Image

Adjusting the Height of Projector Image

The projector is equipped with an adjustable foot to raise and lower the image to fill the screen.

Rotate the tilt adjustable foot counter clockwise to raise the projector or clockwise to lower it.

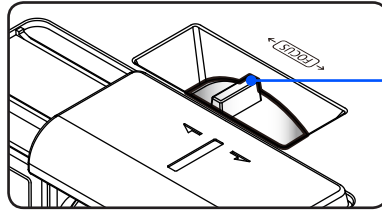


Tilt adjusting foot

Adjusting the Projector Focus

To focus the image, rotate the focus lever until the image is clear.

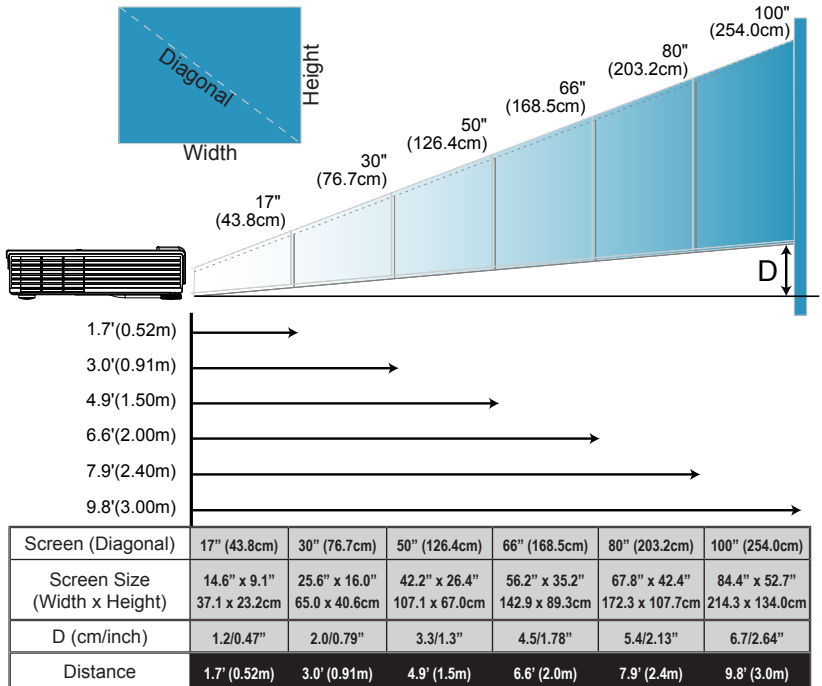
- ▶ L50W series: The projector will focus at distances from 20.5" to 118.1"/52 to 300 cm.



Focus Lever

Adjusting Projection Image Size

- ▶ L50W series: Projection Image Size from 17" to 100" (0.438 to 2.540 meters).



On Screen Display

The Projector has a multilingual On Screen Display (OSD) that allows you to make image adjustments and change a variety of settings. The projector will automatically detect the source.



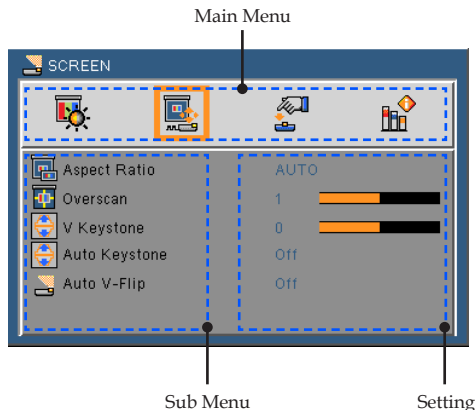
❖ When “Advanced”, “Signal”, or “Information” is selected for the sub menu, you cannot select any item in the main menu.

How to operate

1. To open the OSD, press the MENU button on the Remote Control.
2. When OSD is displayed, use the ◀ ▶ buttons to select any item in the main menu. While making a selection on a particular page, press the ▼ button to enter sub menu.
3. Use the ▲ ▼ buttons to select the desired item in the sub menu and adjust the settings by using the ◀ or ▶ button.
4. If the setting has ↵ icon, you could press the ENTER button to enter another sub menu. Press the MENU button to close the sub menu after adjustment.
5. After adjusting the settings, press the MENU button to go back to the main menu.
6. To exit, press the MENU button again. The OSD will be closed and the projector will automatically save the new settings.

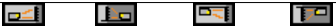



❖ If no button operation is made for 30 seconds, the OSD will be closed automatically.



User Controls

Menu Tree

Main Menu	Sub Menu	Settings	
IMAGE	Picture Mode	Presentation / High-Bright / Video / Movie / sRGB / Blackboard / AdobeRGB / User	
	Wall Color	Off / Red / Green / Blue / Cyan / Magenta / Yellow	
	Brightness	0~100	
	Contrast	0~100	
	Sharpness	0~31	
	Saturation	0~100	
	Hue	0~100	
	Advanced	Gamma	Film / Video / Graphics / PC / Blackboard
		BrilliantColor™	0~10
		Color Temp.	Low / Medium / High
		Color Space	AUTO / RGB / YUV
		Input	HDMI / Computer / Video / Multimedia / Exit
		Exit	
SCREEN	Aspect Ratio	AUTO / 4:3 / 16:9 / Fill	
	Overscan	0~3	
	V Keystone	-40 ~40	
	Auto Keystone	Off / On	
	Auto V-Flip	Off / On	
SETTING	Language	English / Deutsch / Français / Italiano / Español / Português / Polski / Русский / Svenska / Norsk / Türkçe / Nederlands / ελληνικά / Čeština / عربي / 繁體中文 / 简体中文 / 日本語 / 한국어 / Indonesia / Suomi	
	Image Flip		
	Menu Location		
	Signal	Phase 0~31	
		Clock -5~5	
		H. Position -10~10	
		V. Position -10~10	
		Exit	
	Mute	Off / On	
	Volume	#1 0~20	
Advanced	Logo	Off / On	
	Closed Caption	Off / CC1 / CC2 / CC3 / CC4	
	Video Level	AUTO / Normal / Enhance	
	Exit		

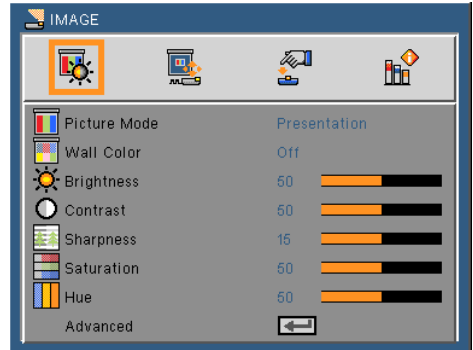
User Controls

Main Menu	Sub Menu	Settings	
OPTIONS	Input Search	Off / On	
	Fan Mode	AUTO / High Speed	
	Eco Mode	Off / On	
	Information Hide	Off / On	
	Background Color	Black / Blue	
	Information	Model Name	
		Serial Number	
		Source	
		Resolution	
		Software Version	
		Software2 Version	
		Video Level	
		Aspect Ratio	
		Color Space	
		Projector Hours Used	
		Exit	
	Advanced	Direct Power On	Off / On
		Auto Power Off (min.)	0~180
		Off Timer (min.)	0~995
		Control Panel Lock	Off / On
Exit			
Reset	No / Yes		



- ❖ Please note that the on-screen display (OSD) menus vary according to the signal type selected and the projector model you are using.
- ❖ (#1) 10 at factory default

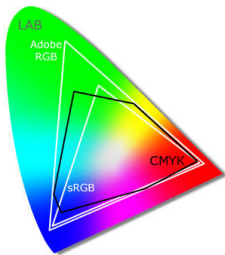
IMAGE



Picture Mode

There are many factory presets optimized for various types of images. Use the ◀ or ▶ button to select the item.

- ▶ Presentation: For computer or notebook.
- ▶ High-Bright: Maximum brightness from PC input.
- ▶ Video: This mode is recommended for typical TV program viewing.
- ▶ Movie: For home theater.
- ▶ sRGB: Standardized accurate color.
- ▶ Blackboard: This mode should be selected to achieve optimum color settings when projecting onto a blackboard (green).
- ▶ User: Memorize user's settings.
- ▶ AdobeRGB: AdobeRGB is an RGB color space developed by Adobe Systems. AdobeRGB is a wider gamut color space than sRGB. It is suitable for printing photos.



Wall Color

Use this function to choose a proper color according to the wall. It will compensate the color deviation due to the wall color to show the correct image tone.

Brightness

Adjust the brightness of the image.

- ▶ Press the ◀ button to darken image.
- ▶ Press the ▶ button to lighten the image.

Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

- ▶ Press the ◀ button to decrease the contrast.
- ▶ Press the ▶ button to increase the contrast.



- ❖ “Sharpness”, “Saturation” and “Hue” functions are only supported under Video mode.

Sharpness

Adjust the sharpness of the image.

- ▶ Press the ◀ button to decrease the sharpness.
- ▶ Press the ▶ button to increase the sharpness.

Saturation

Adjust a video image from black and white to fully saturated color.

- ▶ Press the ◀ button to decrease the amount of saturation in the image.
- ▶ Press the ▶ button to increase the amount of saturation in the image.

Hue

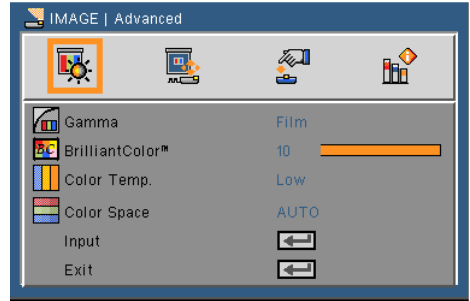
Adjust the color balance of red and green.

- ▶ Press the ◀ button to increase the amount of green in the image.
- ▶ Press the ▶ button to increase the amount of red in the image.

Advanced

Refer to next page.

IMAGE | Advanced



Gamma

This allows you to choose a gamma table that has been fine-tuned to bring out the best image quality for the input.

- ▶ Film: for home theater.
- ▶ Video: for video or TV source.
- ▶ Graphics: for image source.
- ▶ PC: for PC or computer source.
- ▶ Blackboard: This mode should be selected to achieve optimum color settings when projecting onto a blackboard (green).

BrilliantColor™

This adjustable item utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing true, more vibrant colors. The range is from “0” to “10”. If you prefer a stronger enhanced image, adjust toward the maximum setting. For a smoother, more natural image, adjust toward the minimum setting.

Color Temp.

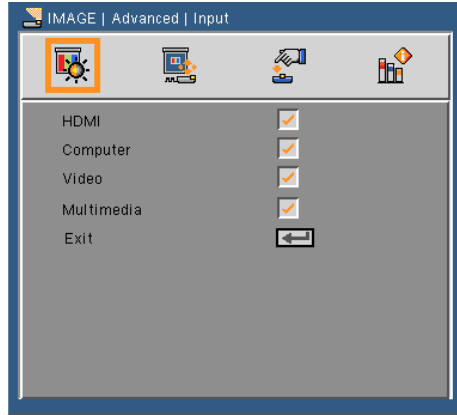
Adjust the color temperature. At higher temperature, the screen looks colder; at lower temperature, the screen looks warmer.

Color Space

Select an appropriate color matrix type from AUTO, RGB or YUV.

Input

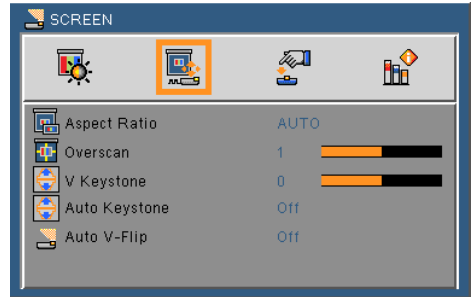
Use this option to enable / disable input sources. Press **←** to enter the sub menu and select which sources you require. Press the ENTER button to finalize the selection. The projector will not search for inputs that are not selected.



Exit

Press **←** to return to the previous menu.

SCREEN



Aspect Ratio

Use this function to choose your desired aspect ratio.

- ▶ 4:3: This format is for 4×3 input sources.
- ▶ 16:9: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- ▶ Fill: for Fullscreen.
- ▶ AUTO: Automatically selects the appropriate display format.

Overscan

Overscan function removes the noise in a video image. Overscan the image to remove video encoding noise on the edge of video source.

V Keystone

Press the ◀ or ▶ button to adjust image distortion vertically. If the image looks trapezoidal, this option can help make the image rectangular.

Auto Keystone

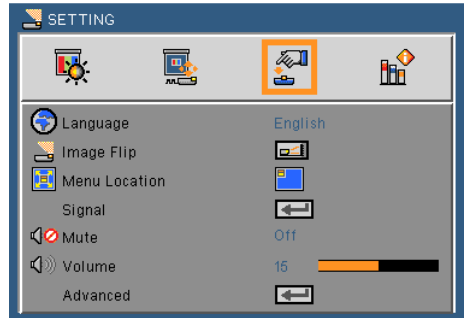
Automatically adjusts vertical image distortion.

Auto V-Flip

Automatically flip vertical image.



SETTING



Language





Choose the multilingual OSD menu. Press the ◀ or ▶ button into the sub menu and then use the ▲ or ▼ button to select your preferred language. Press ↵ to finalize the selection.







- ❖ The rear projection is to be used with a translucent screen.



Image Filp

- ▶  Standard: Normal screen.
- ▶  H Flip: Horizontally flip the image.
- ▶  V Flip: Vertically flip the image.
- ▶  H+V Flip: Flip the image by horizontal and vertical.

User Controls

Standard	V Flip
	
H Flip	H+V Flip
	

Menu Location

Choose the menu location on the display screen.

Signal

Refer to next page.

Mute

- ▶ Choose "On" to turn mute on.
- ▶ Choose "Off" to turn mute off.

Volume

- ▶ Press the ◀ button to decrease the volume.
- ▶ Press the ▶ button to increase the volume.

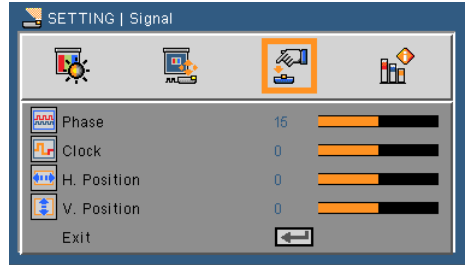
Advanced

Refer to page 30.

SETTING | Signal (RGB)



- ❖ “Signal” is only supported in Analog VGA (RGB) signal.



Phase

Synchronize the signal timing of the display with the graphic card. If the image appears to be unstable or flickers, use this function to correct it.

Clock

Change the display data frequency to match the frequency of your computer's graphic card. Use this function only if the image appears to flicker vertically.

H. Position

- ▶ Press the ◀ button to move the image left.
- ▶ Press the ▶ button to move the image right.

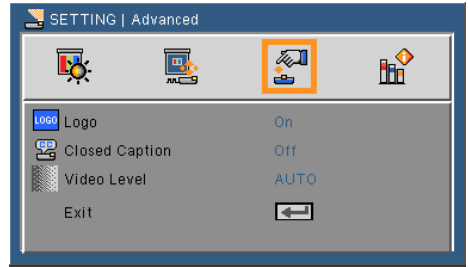
V. Position

- ▶ Press the ◀ button to move the image down.
- ▶ Press the ▶ button to move the image up.

Exit

Press ◀ to return to the previous menu.

SETTING | Advanced



Logo

Use this function to display the startup screen (NEC logo).

- ▶ On: Displays the NEC logo.
- ▶ Off: No logo is displayed.


Closed Caption

Use this function to enable close caption and activate the closed caption menu. Select an appropriate closed captions option: Off, CC1, CC2, CC3 and CC4.

Video Level

Select "AUTO" to automatically detect video level. If automatic detection may not work well, select "Normal" to disable the "Enhance" feature of your HDMI equipment or select "Enhance" to improve image contrast and increase detail in the dark areas.

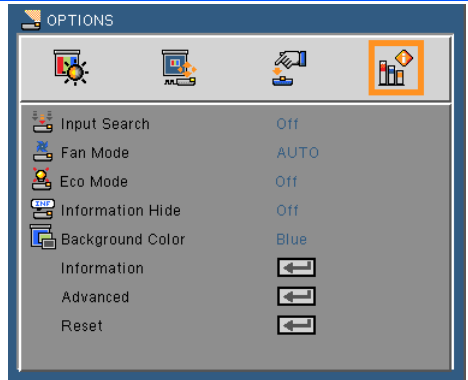
Exit

Press  to return to the previous menu.



- ❖ "Video Level" is only supported under HDMI source.

OPTIONS



Input Search

- ▶ On: The projector will search for other signals if the current input signal is lost.
- ▶ Off: The projector will only search current input connection.

Fan Mode

- ▶ AUTO: The built-in fans automatically run at a variable speed according to the internal temperature.
- ▶ High Speed: The built-in fans run at high speed.

The built-in fans run at a high speed. Select this option when using the projector at altitudes approximately 2500 feet/760 meters or higher.

Eco Mode

- ▶ On: Dim the projector light source which will lower power consumption and extend the light source life.
- ▶ Off: Normal mode.

Information Hide

- ▶ On: Choose "On" to hide the info message.
- ▶ Off: Choose "Off" to show the "searching" message.

Background Color

Use this feature to display a "Black" or "Blue" screen when no signal is available.

User Controls

Information

Refer to next page.


Advanced

Refer to page 34.

Reset

Choose "Yes" to return the display parameters on all menus to the factory default settings.

OPTIONS | Information



OPTIONS Information	
Model No.	Model
Serial Number	000000
Source	HDMI
Resolution	1024X768
Software Version	1.00
Software2 Version	1.00
Video Level	Normal
Aspect Ratio	4:3
Color Space	RGB
Projector Hours Used	0

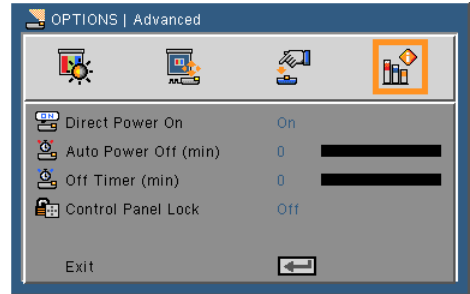


- ❖ “Video Level”, “Aspect Ratio”, and “Color Space” are only supported under HDMI source.


Information

To display the projector information for source, resolution, and software version on the screen.

OPTIONS | Advanced



Direct Power On

Choose "On" to activate Direct Power mode. The projector will automatically power on when AC power is supplied, without pressing the  button on the projector control panel or the POWER ON button on the remote control.

Auto Power Off (min)

Sets the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

Off Timer (min)

Sets the countdown timer interval. The countdown timer will start, with or without a signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

Control Panel Lock

When the keypad lock function is "On", the control panel will be locked however, the projector can be operated by the remote control. By selecting "Off", you will be able to reuse the control panel. Press and hold the SOURCE button on the projector cabinet for about 10 seconds to turn off "Control Panel Lock".

Using Multimedia

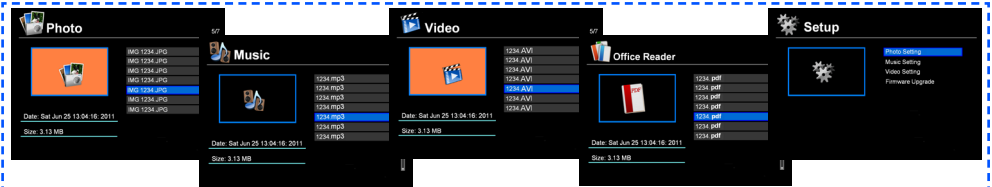
Multimedia is an interactive PC-less presentation solution. It equipped several mode (Photo, Video, Music, Office Reader, and Setting) with user-friendly user interface.

To display the main menu of the Multimedia, press the USB-A, USB-B or SD button on the remote control or press the SOURCE button.

Layer1: Main Menu



Layer2: Sub Menu



Layer3: Setting

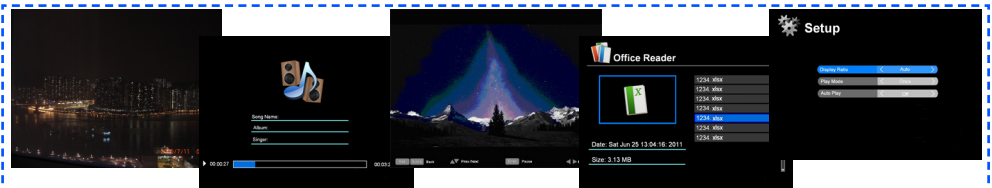


Photo	Min:64x64, Max: Over 4000x4000
Music	File size: Max. 2GB
Video	File size: Max. 2GB
OfficeReader	Support Word/Excel/PowerPoint/Adobe PDF playback
Settings	Photo/Music/Video/Office Reader settings

User Controls

How to operate

1. To open the OSD, press the MENU button on the Remote Control.
2. When OSD is displayed, use the ◀ ▶ buttons to select any item in the main menu. While making a selection on a particular page, press the ENTER button to enter sub menu.
3. Use the ▲ ▼ buttons to select the desired item in the sub menu and adjust the settings by using the ◀ or ▶ button.
5. After adjusting the settings, press the EXIT button to go back to the main menu.
6. To exit, press the MENU button again. The OSD will be closed and the projector will automatically save the new settings.

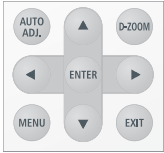
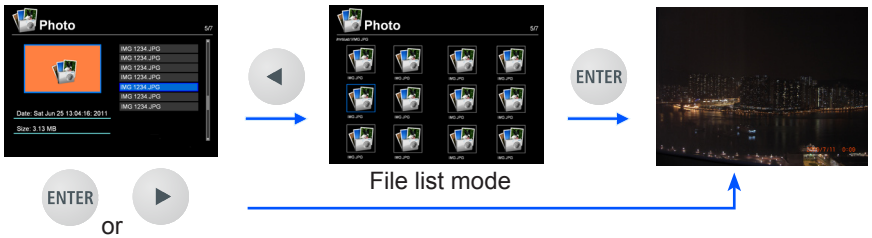
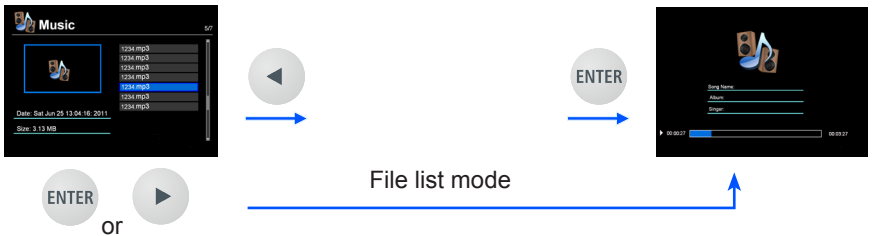


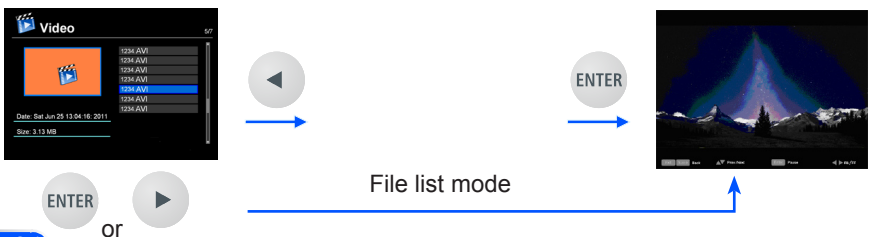
Photo Viewer



Music Player

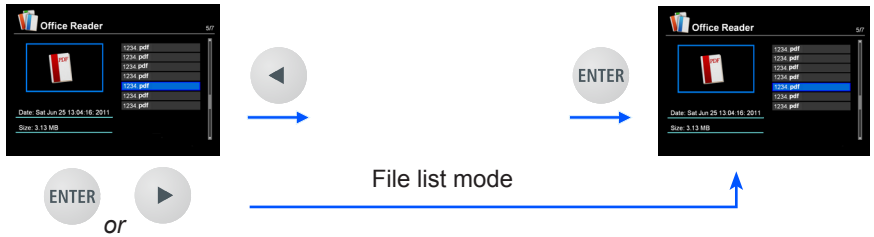


Video Player



User Controls

Office Reader



Setup



Multimedia Menu Tree

Level 1	Level 2	Level 3	Level 4
Settings	Photo Setup	Display Ratio	Auto/Full
		Slideshow Duration	5 sec./15 sec./30 sec./1 min./5 min./15 min.
		Slideshow Repeat	On/Off
		Slideshow Effect	Random/Snake/Partition/Erase/Blinds/Lines/GridCross/Cross/Spiral/Rect/Off
	Music Setup	Play Mode	Once/Repeat Once/Repeat/Random
		Show Spectrum	On/Off
		Auto Play	On/Off
	Video Setup	Display Ratio	Auto/Original Size
		Play Mode	Once/Repeat Once/Repeat/Random
		Auto Play	On/Off
	Firmware Upgrade	Yes/No	



To upgrade the firmware, visit at: <http://www.nec-display.com/dl/en/index.html>

To check the version of your projector, from the menu, select [Options] -> [Information] -> [Software2 Version].

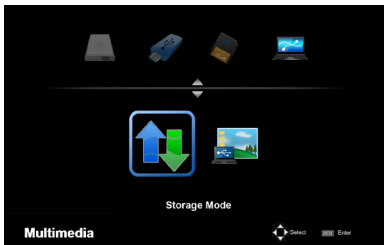
Supported Formats

- Supported graphic formats:
 - JPG, BMP
 - JPG file supports JPEG Baseline and progressive JPEG.
 - BMP file supports full color only.
 - Some files supported by the above requirements may not be displayed
- Supported audio formats:
 - WAV, MP3, WMA
 - WAV supports PCM and AD-PCM.
 - Some files supported by the above requirements may not be played.
- Supported video formats:
 - AVI, MOV, MPG, MP4, WMV, MKV
 - Motion JPEG, MPEG2, MPEG4 (H.264, AAC), and Windows Media Video (VC-1) are supported.
 - Some files supported by the above requirements may not be played.
- Supported formats for Office Reader:
 - Microsoft Word
97/2000/XP/2003/2007
 - Microsoft Excel
97/2000/XP/2003/2007
 - Microsoft PowerPoint
97/2000/XP/2003/2007
 - PDF
1.0/1.1/1.2/1.3/1.4/1.5/1.6/1.7

Using the Projector as a Storage Device

Important:

- Use the projector's storage area as a temporary storage. Back up your data on your computer's hard disk drive before using the projector as a storage device. We will not be liable for any data loss or damage that could result from using the projector. If your data is not to be used for a long period time, delete them from the projector's storage area.
- We will not be liable for any data loss or damage that could result from the projector's failure or any cause, and we will not be liable for your loss of business arising from the data loss or damage. Our service includes hardware only (not including data recovery).



You can use part of the memory inside the projector as your storage device.

This memory area can be used for saving and loading your photos, audio, video, and Office Reader files.

1. Turn on the projector.
2. Display the Multimedia and select USB-B (Connect PC) source.
3. Use the supplied USB cable to connect the USB-B port of the projector and the USB port (A type) of your computer.
4. Select "Storage Mode" and then press "Enter".

Connecting PC...
Unplug to stop connection.

When you see a message as left, the drive has been added to your computer. This allows you to read and write files to the drive of the projector.

5. Double clicks the drive of the projector on the Windows "My Computer" on your computer.

You can access the drive of the projector to read or write files.

Note:

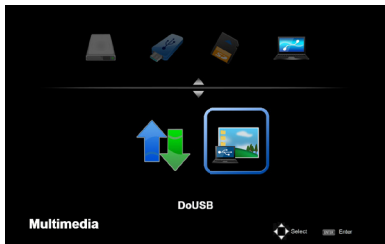
- Wait at least 5 seconds after disconnecting a USB memory device before reconnecting it and vice versa. The computer may not identify the USB memory device if it is repeatedly connected and disconnected in rapid intervals.
- To disconnect the USB cable from the projector, first click the USB icon on the Windows taskbar on your computer.
- Do not disconnect the power cord during data writing.
- Files in the drive of the projector will not be affected even when "Reset" is done from the menu.
- Data of up to 1GB can be stored in the drive of the projector.

Projecting Your Computer's Screen Image from the Projector via the USB Cable (USB Display)

Using the supplied USB cable (or a commercially available USB cable compatible with USB 2.0 specifications) to connect the computer with the projector allows you to send your computer screen image to the projector for displaying. Power On/Off and source selection of the projector can be done from your computer without connecting a computer cable (VGA).

Note:

- To make USB DISPLAY available on Windows XP, the Windows user account must have "Administrator" privilege.
- USB Display will not work in standby condition.



1. Turn on the projector.
2. Display the Multimedia and select USB-B (Connect PC) source.
3. Use the supplied USB cable to connect the USB-B port of the projector and the USB port (A type) of your computer.
4. Select "DoUSB" and then press "Enter".

Connecting PC...
Unplug to stop connection.

When you see a message as left; Wait at least 10 seconds. This allows you to project your computer's screen image.

Troubleshooting

If you experience trouble with the projector, refer to the following information. If the problem persists, please contact your local dealer or service center.

Problem: No image appears on screen

- ▶ Ensure all the cables and power connections are correctly and securely connected as described in the “Installation” section.
- ▶ Ensure the pins of connectors are not crooked or broken.
- ▶ Make sure the projector is switched on.

Problem: Partial, scrolling or incorrectly displayed image

- ▶ Press “AUTO ADJ.” on the remote control.
- ▶ If you are using a PC:

For Windows 95, 98, 2000, XP, Windows 7:

1. From the “My Computer” icon, open the “Control Panel” folder, and double click the “Display” icon.
2. Select the “Settings” tab
3. Click on the “Advanced Properties”.

For Windows Vista:

1. From the “My Computer” icon, open the “Control Panel” folder, and double click the “Appearance and Personalization”
2. Select “Personalization”
3. Click “Adjust screen resolution” to display “Display Settings”.
Click on the “Advanced Settings”.

If the projector is still not projecting the whole image, you will also need to change the monitor display you are using. Refer to the following steps.

4. Verify the resolution setting is less than or equal to 1280 x 1024 resolution.
5. Select the “Change” under the “Monitor” tab .

6. Click on "Show all devices". Next, select "Standard monitor types" under the SP box; choose the resolution mode you need under the "Models" box.
- ▶ If you are using a Notebook:
 1. First, follow the steps above to adjust resolution of the computer.
 2. Press the toggle output settings. example: [Fn]+[F4]

Compaq=>	[Fn]+[F4]	Hewlett	=>	[Fn]+[F4]
Dell =>	[Fn]+[F8]	Packard	=>	[Fn]+[F4]
Gateway=>	[Fn]+[F4]	NEC=>		[Fn]+[F3]
IBM=>	[Fn]+[F7]	Toshiba =>		[Fn]+[F5]
Macintosh Apple: System Preference-->Display-->Arrangement-->Mirror display				

- ▶ If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.

Problem: The screen of the Notebook or PowerBook computer is not displaying a presentation

- ▶ If you are using a Notebook PC:

Some Notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer's documentation for detailed information.

Problem: Image is unstable or flickering

- ▶ Adjust the "Phase" to correct it. Refer to the "SETTING" section for more information.
- ▶ Change the monitor color setting from your computer.

Problem: Image has vertical flickering bar

- ▶ Use "Clock" to make an adjustment.
- ▶ Check and reconfigure the display mode of your graphic card to make it compatible with the product.

Problem: Image is out of focus

- ▶ Adjust the Focus Lever on the projector lens.
- ▶ Make sure the projection screen is between the required distance 20.5" to 118.1"/52 to 300 mm from the projector (refer to page 18).

Problem: The image is stretched when displaying 16:9 DVD

The projector automatically detects 16:9 DVD and adjusts the aspect ratio by digitizing to full screen with 4:3 default setting.

If the image is still stretched, you will also need to adjust the aspect ratio by referring to the following:

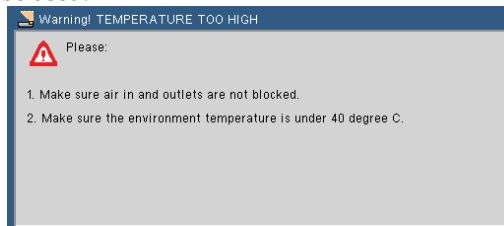
- ▶ Please select 4:3 aspect ratio type on your DVD player if you are playing a 16:9 DVD.
- ▶ If you can't select 4:3 aspect ratio type on your DVD player, please select 4:3 aspect ratio in the on screen menu.

Problem: Image is reversed

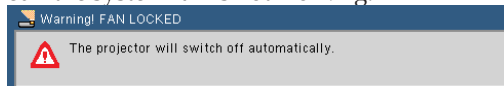
- ▶ Select "SETTING-->Image Flip" from the OSD and adjust the projection direction.

Problem: Message Reminders

- ▶ Over temperature - the projector has exceeded its recommended operating temperature and must be allowed to cool down before it may be used.



- ▶ Fan failed - the system fan is not working.



Appendices

Problem: Indicator lighting message

Power Indicator

Indicator Condition		Projector Condition	Note	
Off		The main power is off	--	
Blinking light	Blue	0.5 sec On, 0.5 sec Off	The projector is getting ready to turn on.	Wait for a moment.
		2.5 sec On, 0.5 sec Off	Off Timer is enabled.	--
Steady light	Blue		The projector is turned on.	--
	Red		The projector is in standby.	--

Status Indicator

Indicator Condition		Projector Condition	Note	
Off		Normal	--	
Blinking light	Red	1 cycle (0.5 sec On, 0.5 sec Off)	light source error	Light source fails to light. Wait for a moment.
		2 cycle (0.5 sec On, 0.5 sec Off)	Temperature error	The projector is overheated. Move the projector to a cooler location.
		4 cycle (0.5 sec On, 0.5 sec Off)	Fan error	Fans will not work correctly. Contact your dealer.
Steady light	Red		Control Panel Lock is enabled.	To disable Control Panel Lock, see page 34.

LED Indicator

Indicator Condition		Projector Condition	Note	
Off		Normal	--	
Blinking light	Red		LED light source fails to light.	Try to turn on the projector again. If the problem still remains unsolved, contact your dealer.


Specifications

Optical	
Projection System	Single DLP® chip (0.45", aspect ratio 16:10)
Resolution *1	1,039,680 pixels (similar to WXGA)
Lens	Fixed lens, manual focus
	F/15
Light Output *2*3	500 lumens
Contrast Ratio *3 (full white:full black)	2500:1
Image Size (Diagonal)	17 to 100 inches / 0.432 to 2.540 m
Projection Distance (mini. - max.)	20.5 to 118.1 inches / 52 to 300 mm
*1 Effective pixels are more than 99.99%.	
*2 This is the light output value (lumens) when [Picture Mode] is set to [High-Bright] in the menu. If any other mode is selected as [Picture Mode], the light output value may drop slightly.	
*3 Compliance with ISO21118-200	

Electrical	
Inputs	1 x RGB/Component (D-Sub 15P), 1 x HDMI (19P) HDCP supported *4, 1 x SD Slot, 1 x Video (RCA), 1 x USB Type-A, 1 x USB mini-B, 1 x Stereo Mini Audio
Service Port	1 x mini-B USB (for service purpose /shared with USB Display)
Color Reproduction	16.7 million colors simultaneously, Full color
Compatible Signals *5	Analog: VGA/SVGA/XGA/WXGA/Quad-VGA/SXGA/SXGA+/WSXGA+/480i/480p/576i/576p/720p/1080i/1080p HDMI: VGA/SVGA/XGA/WXGA/Quad-VGA/SXGA/SXGA+/WSXGA+/480p/576p/720p/1080i/1080p
Horizontal Resolution	540 TV lines: NTSC/NTSC4.43/PAL/PAL-M/PAL-N/PAL60 300 TV lines: SECAM
Scan Rate	Horizontal: 30kHz to 100kHz Vertical: 50 Hz to 85 Hz
Built-in Speaker	2W (monaural)
Power Requirement	100 - 240V AC, 50/60 Hz
Input Current	100 - 240V AC, 50-60Hz, 1.3-0.5A
Power Consumption	Eco Mode: Off 110W +/-25%@ 110V AC(100-130V) / 105W +/-25%@ 220V AC(200-240V) Eco Mode: On 75W +/-25% @ 110V AC(100-130V) / 70W +/-25% @ 220V AC(200-240V) Standby: <0.5W (100-130V)/ <0.5W (200-240V)

Appendices

Electrical	
<p>*4 HDMI® (Deep Color) with HDCP What is HDCP/HDCP technology? HDCP is an acronym for High-bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI). If you are unable to view material via the HDMI input, this does not necessarily mean the projector is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).</p>	<p>*5 An image with any resolution will be displayed with scaling technology.</p>

Mechanical	
Dimensions	8.89" (W) × 1.69" (H) × 6.87" (D) / 225.8 mm (W) × 43 mm (H) × 174.4 mm (D)
Weight	2.7 lb / 1.2 kg
Environmental Considerations	Operational Temperatures : 41° to 95°F (5° to 35°C), 20% to 80% humidity (non-condensing) Storage Temperatures : -4° to 140°F (-20° to 60°C), 20% to 80% humidity (non-condensing)
Regulations	UL/C-UL Approved (UL 60950-1, CSA 60950-1) Meets DOC Canada Class B requirements Meets FCC Class B requirements Meets AS/NZS CISPR.22 Class B Meets EMC Directive (EN55022, EN55024, EN61000-3-2, EN61000-3-3) Meets Low Voltage Directive (EN60950-1, TÜV GS Approved) 

Compatibility Modes

▶ Analog RGB

Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
VGA	640x480	4:3	60/72/75/85
SVGA	800x600	4:3	56/60/72/75/85
XGA	1024x768	4:3	60/70/75/85
XGA+	1152x864	4:3	70/75/85
HD	1280x720	16:9	60
WXGA	1280x768	15:9	60/75/85
	1280x800	16:10	60
	1366x768	16:9	60
Quad-VGA	1280x960	4:3	60/75
SXGA	1280x1024	5:4	60/72/75
SXGA+	1400x1050	4:3	60
WXGA+	1440x900	16:10	60
WXGA++	1680x1050	16:10	60
	1920x1080	16:9	60
MAC 13"	640x480	4:3	60/67
MAC	800x600	4:3	60
MAC 19"	1024x768	4:3	60/75
MAC 21"	1152x870	4:3	75
MAC	1280x960	4:3	75

▶ Component

Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
HDTV(1080i)	1920x1080	16:9	50/60
HDTV(1080p)	1920x1080	16:9	60
HDTV(720p)	1280x720	16:9	50/60
SDTV(480p)	720x480	4:3/16:9	60
SDTV(576p)	720x576	4:3/16:9	50
SDTV(480i)	720x480	4:3/16:9	60
SDTV(576i)	720x576	4:3/16:9	50

▶ HDMI

Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)
VGA	640x480	4:3	60/72/75/85
SVGA	800x600	4:3	56/60/72/75/85
XGA	1024x768	4:3	60/70/75/85
XGA+	1152x864	4:3	70/75/85
HDTV(1080p)	1920x1080	16:9	50/60
HDTV(1080i)	1920x1080	16:9	50/60
HDTV(720p)	1280x720	16:9	50/60
SDTV(480p)	720x480	4:3/16:9	60
SDTV(576p)	720x576	4:3/16:9	50
WXGA	1280x768	15:9	60/75/85
	1280x800	16:10	60
	1366x768	16:9	60
Quad-VGA	1280x960	4:3	60/75
SXGA	1280x1024	5:4	60/72/75
SXGA+	1400x1050	4:3	60
WXGA+	1440x900	16:10	60
WXGA++	1680x1050	16:10	60
	1920x1080	16:9	60

▶ Composite Video

Signal	Aspect Ratio	Refresh Rate (Hz)
NTSC	4:3	60
PAL	4:3	50
PAL60	4:3	60
SECAM	4:3	50

TIP:

- An image with any resolution will be displayed with scaling technology.
- Sync on Green and Composite sync signals are not supported.
- 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.

Tripod Stand Installation

1. You can install this projector using a camera tripod.
2. The tripod specifications:
 - ▶ **Type: 1/4"-20UNC**

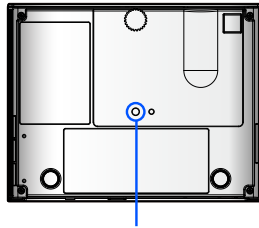


❖ **CAUTION:**

- Do not use on an unstable surface. Doing so may cause the tripod to fall over, resulting in damage.
- Refer to the user's manual packaged with your tripod.
- Use a tripod with 1.2 kg or over of maximum load.
- Spread the legs wide open and evenly when mounting or installing the projector.
- Do not extend the feet when using the elevator tripod.

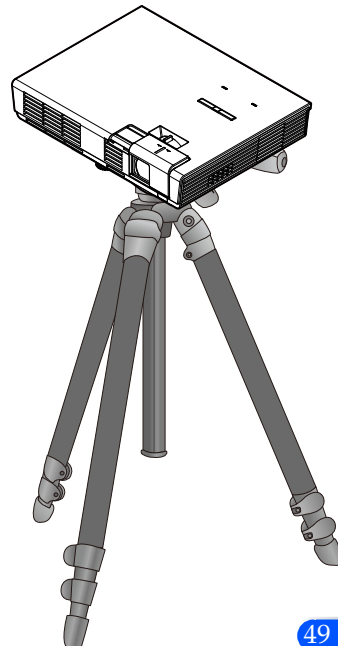
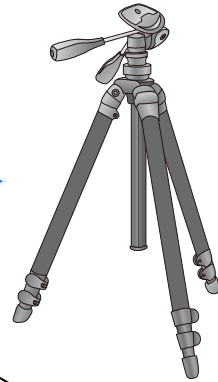
 **CAUTION:**

This screw hole is not used for ceiling mount. Do not use this screw hole to attach a ceiling mount kit.



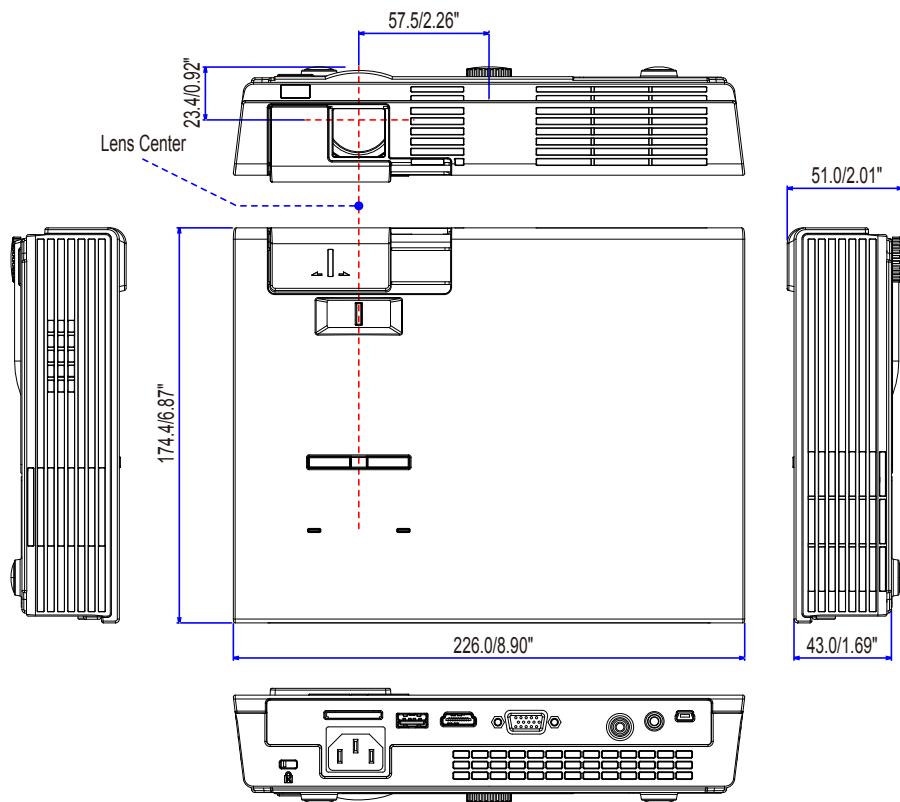
Connect to the tripod

Camera Tripod



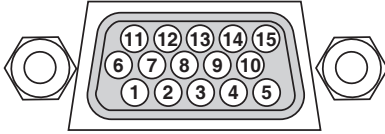
Cabinet Dimensions

Unit: mm/inch



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	Y
3	Blue	Cb
4	Ground	
5	Ground	
6	Red Ground	Cr Ground
7	Green Gro	Y Ground
8	Blue Ground	Cb Ground
9	No Connection	
10	Sync Signal Ground	
11	No Connection	
12	Bi-directional DATA (SDA)	
13	Horizontal Sync	
14	Vertical Sync	
15	Data Clock	

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 blue).
 - Power cable's plug is fully inserted into the wall outlet.
 - No power even though you press and hold the POWER button for a minimum of 1 second.
- Shut down during operation.
 - Power cable's plug is fully inserted into the wall outlet.
 - Power Management is turned off (only models with the Power Management 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.
 - 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.
 - No image (blue background).
 - Still no image even though you press the AUTO ADJ. 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.
 - Input source's resolution and frequency are supported by the projector.
- 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).
- Parts of the image are lost.
 - Still unchanged even though you press the AUTO ADJ. button.
 - Still unchanged even though you carry out [RESET] in the 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 ADJ. 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.
 - Still unchanged even though you adjusted the focus.
- No sound.
 - Audio cable is correctly connected to the audio input of the projector.
 - Still unchanged even though you adjusted the volume level.

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.
 - [CONTROL PANEL LOCK] is not turned on in the menu.
 - Still unchanged even though you press and hold the SOURCE button on the cabinet for minimum of 10 seconds.

In the space below please describe your problem in detail.

Information on application and environment where your projector is used

Projector

Model number:

Serial No.:

Date of purchase:

Information on input signal:

Horizontal synch frequency [] kHz

Vertical synch frequency [] Hz

Synch polarity H (+) (-)

 V (+) (-)

Synch type Separate Composite

Sync on Green

STATUS Indicator:

Steady light/Flashing light [] cycles

Remote control model number:

Installation environment

Screen size: inch

Screen type: White matte Beads Polarization

Wide angle High contrast

Throw distance: feet/inch/m

Orientation: Desktop Other

Power outlet connection:

Connected directly to wall outlet

Connected to power cord extender or other (the number of connected equipment_____)

Connected to a power cord reel or other (the number of connected equipment_____)

Computer

Manufacturer:

Model number:

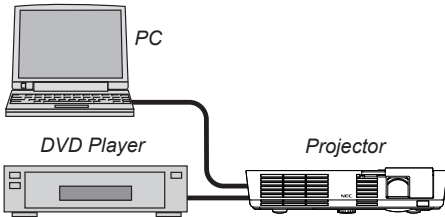
Notebook PC / Desktop

Native resolution:

Refresh rate:

Video adapter:

Other:



Signal cable

NEC standard or other manufacturer's cable?

Model number: Length: inch/m

Distribution amplifier

Model number:

Switcher

Model number:

Adapter

Model number:

Video equipment

VCR, DVD player, Video camera, Video game or other

Manufacturer:

Model number:

TravelCare Guide

TravelCare - a service for international travelers

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

For more information on TravelCare service, visit our website (in English only).

http://www.nec-display.com/dl/en/pj_support/travel_care.html

NEC