

Projector

U300X/U250X U310W/U260W

User's Manual



The U250X and U260W are not distributed in North America.

Model No. NP-U300X/NP-U250X NP-U310W/NP-U260W

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- Virtual Remote Tool uses WinI2C/DDC library, © Nicomsoft Ltd.
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NOTES

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

Important Information

Safety Cautions

Precautions

Please read this manual carefully before using your NEC U300X/U250X/U310W/U260W projector and keep the manual handy for future reference.

CAUTION



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

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

CAUTION



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



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



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

The information should be read carefully to avoid problems.

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

DOC Compliance Notice (for Canada only)

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

Machine Noise Information Regulation - 3. GPSGV,

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

Disposing of your used product



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

After collecting the used products, they are reused and recycled in a proper way. This effort will help us reduce the wastes as well as the negative impact such as mercury contained in a lamp to the human health and the environment at the minimum level. 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.
- 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 15 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 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 mirror 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 mirror is extensive, therefore any kind of abnormal objects that can redirect light coming out of the mirror, 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 mirror with any objects. Doing so could cause the object to catch on fire.
- Do not place any objects, which are easily affected by heat, in front of the projector mirror 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 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 before cleaning the cabinet or replacing the lamp.
- Turn off the projector and unplug the power cord if the projector is not to be used for an extended period of time.
- When using a LAN cable:

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



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 batteries.
- Do not 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 pages 61-62.
- Be sure to replace the lamp when the message [THE LAMP HAS REACHED THE END OF ITS USABLE LIFE. PLEASE REPLACE THE LAMP.] appears. If you continue to use the lamp after the lamp has reached the end of its usable life, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury. If this happens, contact your dealer for lamp replacement.

A Lamp Characteristic

The projector has a high-pressure mercury lamp as a light source.

A lamp has a characteristic that its brightness gradually decreases with age. Also repeatedly turning the lamp on and off will increase the possibility of its lower brightness.



CAUTION:

- DO NOT TOUCH THE LAMP immediately after it has been used. It will be extremely hot. Turn the projector off and then disconnect the power cord. Allow at least one hour for the lamp to cool before handling.
- · When removing the lamp from a ceiling-mounted projector, make sure that no one is under the projector. Glass fragments could fall if the lamp has been burned out.

Note for US Residents

The lamp in this product contains mercury. Please dispose according to Local, State or Federal Laws.



Health precautions to users viewing 3D images

· Before viewing, be sure to read health care precautions that may be found in the user's manual included with your LCD shutter eyeglasses or your 3D compatible content such as DVDs, video games, computer's video files and the like.

To avoid any adverse symptoms, heed the following:

- Do not use LCD shutter eyeglasses for viewing any material other than 3D images.
- Allow a distance of 2 m/7 feet or greater between the screen and a user. Viewing 3D images from too close a distance can strain your eyes.
- Avoid viewing 3D images for a prolonged period of time. Take a break of 15 minutes or longer after every hour of viewing.
- If you or any member of your family has a history of light-sensitive seizures, consult a doctor before viewing 3D images.
- While viewing 3D images, if you get sick such as nausea, dizziness, queasiness, headache, eyestrain, blurry vision, convulsions, and numbness, stop viewing them. If symptoms still persist, consult a doc-

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 protector could shut down. If this happens, wait a couple
 minutes and turn on the projector.
- Using the projector at altitudes less than approximately 2500 feet/760 meters and setting to [High] can
 cause the lamp to overcool, causing the image to flicker. Switch [Fan Mode] to [Auto].
- Using the projector at altitudes approximately 2500 feet/760 meters or higher can shorten the life of optical components such as the lamp.

About Copyright of original projected pictures:

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

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Usage Notice

Precautions



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

 Warning This projector will detect the life of the lamp itself. Please be sure to change the lamp when it

shows warning messages.

■ Warning- Reset the "Clear Lamp Hours" function from

the on-screen display "OPTIONS | Lamp/Filter Settings" menu after replacing the lamp module

(refer to page 52).

■ Warning- When switching the projector off, please ensure

the cooling cycle has been completed before disconnecting power. Allow 25 seconds for the

projector to cool down.

■ Warning- Turn on the projector first and then the signal

sources.

■ Warning- When the lamp reaches the end of its life, it will

burn out and may make a loud popping sound. If this happens, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed

under "Replacing the Lamp".

Turkish RoHS information relevant for Turkish market EEE Yonetmeliğine Uygundur.

This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflections at visual display workplaces this device must not be placed in the direct field of view.

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 display housing.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.
- If the mirror or 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.
 - Move the projector by holding the cable cover.
 - Hang from the projector in a ceiling or wall mounted installation.
 - Apply excessively strong pressure against the mirror or lens.
 - Keep finger prints off the mirror surface.

Product Features

This product is an XGA/WXGA single chip 0.55''/0.65'' DLPTM projector. Outstanding features include:

- U300X/U250X True XGA, 1024 x 768 addressable pixels U310W/U260W True WXGA, 1280 x 800 addressable pixels
- Single chip DLPTM technology
- NTSC/NTSC4.43/PAL/PAL-M/PAL-N/SE-CAM and SDTV(480i/576i), EDTV(480p/576p), HDTV(720p/1080i/1080p) compatible
- Multi-Auto functions: Auto detection, Auto image and Auto saving the adjustments
- Full function remote control
- User friendly multilingual on screen display
- Advanced digital keystone correction and high quality full screen image re-scaling
- Built-in mono 10-Watt speaker.
- UXGA/WXGA/SXGA+/SXGA/XGA/SVGA/VGA/ MAC compatible
- 3D features supported



Do not throw carton, and packing materials.

The cable cover is attached to the projector at the time of shipment. When you

use the projector for

the first time, remove

the cable cover before connecting cables. Refer to page 9 for removing and attaching the cable

Package Overview

away the mirror cover, 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.



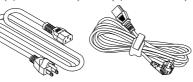




Remote Control (P/N:79TC3051)

Batteries (AAAx2)

US (P/N:79TC3011) EU (P/N:79TC3021)



Power Cord (3m)x1



Computer Cable (VGA) (3m) (P/N:79TC3081)

For North America:

Registration Card

Limited Warranty



cover.

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

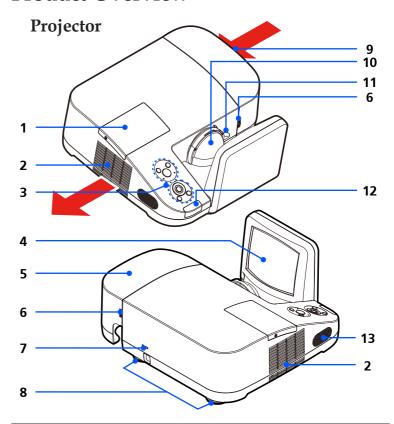
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- - (P/N: 7N951531)
- Quick Setup Guide (P/N: 7N8N1121)
- Important Information (For North America: 7N8N1101) (For Other countries than North America: 7N8N1101 and 7N8N1111)

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

Product Overview

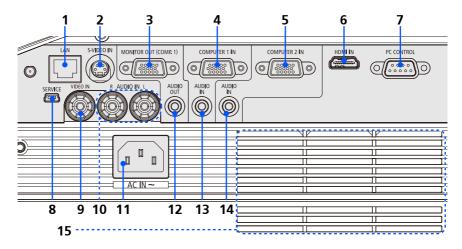


- 1. Lamp Cover
- 2. Ventilation (outlet)
- 3. Control Panel
- 4. Mirror
- 5. Cable Cover
- 6. Release rings for Cable Cover
- 7. KensingtonTM Lock Port (This security slot supports the MicroSaver[®]

Security System)

- 8. Tilt Adjusting Feet
- 9. Ventilation (inlet)
- 10. Lens
- 11. Focus Lever
- 12. Remote Sensor
- 13. Speaker

Connection Ports



- 1. LAN Connector
- 2. S-VIDEO IN Connector
- 3. MONITOR OUT Connector
- 4. COMPUTER 1 IN Connector
- COMPUTER 2 IN Connector
- 6. HDMI Connector
- 7. PC CONTROL Connector
- 8. SERVICE Port (for service purpose only)
- 9. VIDEO IN Connector
- 10. AUDIO IN L/R Connector
- 11. AC IN
- 12. AUDIO OUT Connector
- 13. AUDIO IN Jack (For COMPUTER 1 IN)
- 14. AUDIO IN Jack (For COMPUTER 2 IN)
- 15. Ventilation (inlet)

1	Ф	POWER ON/ OFF and LED indicator	Power on the projector. Refer to the "Power On/Off the Projector" section on pages 25-26.
2		SOURCE	Press "SOURCE" to select an input signal.
3		STATUS LED	Indicate the projector's temperature status.
4	В	VOLUME -	Decrease speaker volume.
5		MENU	Press "MENU" to launch the Onscreen display (OSD), back to the top level of OSD for the OSD main menu operation
6		AUTO ADJ.	Automatically synchronize the projector to the input source.
7		LAMP LED	Indicate the projector's lamp status.

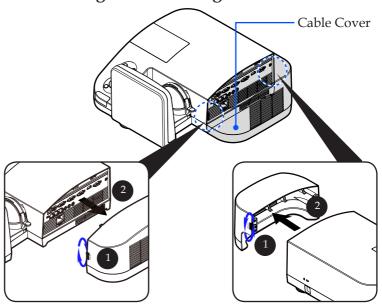
(EXIT)

11

8

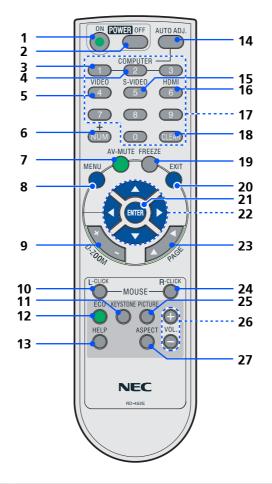
8		KEYSTONE Correction	Adjust the image to compensate for distortion caused by tilting the projector (vertical ± 40 degrees).
9	(()	VOLUME +	Increase speaker volume.
10		Four Directional Select Keys	Use ▲ or ▼ or ◀ or ▶ to select items or make adjustments to your selection.
11		EXIT	Exit the settings.

Removing and Attaching the Cable Cover



- **Procedure for Removing and Attaching the Cable Cover:**1. Release the left and right rings on both sides of the cable cover. 0
- 2. Remove the cable cover. 2
- 3. Install the cable cover by reversing the previous steps.

Remote Control



1	POWER ON	Power on the projector. Refer to the "Power On/Off the Projector" section on pages 25-26.
2	POWER OFF	Power off the projector.Refer to the "Power On/Off the Projector" section on pages 25-26.

3	COMPUTER 1	Press "1" to choose COMPUTER 1 IN connector.
4	COMPUTER 2	Press "2" to choose COMPUTER 2 IN connector.
5	VIDEO	Press "VIDEO" to choose VIDEO IN connector.
6	NUM	Select password. When you input a password, you must press "NUM" and other number button simultaneously.
7	AV-MUTE	Momentarily turn off/on the audio and video.
8	MENU	Press "MENU" to launch the Onscreen display (OSD), back to the top level of OSD for the OSD main menu operation
9	D-ZOOM	Zoom in/out the projected image.
10	L-CLICK	Mouse left click.
11	KEYSTONE Correction	Adjust the image to compensate for distortion caused by tilting the projector (vertical ± 40 degrees).
12	ECO	Dim the projector lamp which will lower power consumption and extend the lamp life. (refer to page 52)
13	HELP	This function ensures easy setup and operation.
14	AUTO ADJ.	Automatically synchronize the projector to the input source.
15	S-VIDEO	Press "S-VIDEO" to choose S-VIDEO IN connector.
16	HDMI	Press "HDMI" to choose HDMI IN connector.

17	Number Button	Select password.
18	CLEAR	Clear the number while you input the password.
19	FREEZE	Freeze To pause the screen image. Press again to resume the screen image.
20	EXIT	Exit the settings.
21	ENTER	Confirm your section of items in sub menu operation.
22	Four Directional Select Buttons	Use ▲ or ▼ or ◀ or ▶ to select items or make adjustments to your selection.
23	PAGE	Use this button to page up or page down.
24	R-CLICK	Mouse right click.
25	PICTURE Mode	Select the Picture mode from Presentation, Movie, sRGB, Game and User.
26	VOL. +/-	Increase/decrease speaker volume.
27	ASPECT	Use this function to choose your desired aspect ratio. (refer to page 38)

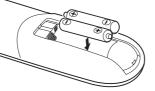
Battery Installation

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 batteries will also prevent the remote control from properly operating the projector.
- 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 place the battery upside down.

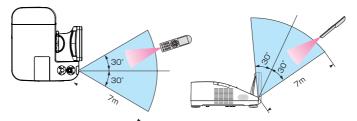


A CAUTION:

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.





- When "Computer 1" is selected for input, the Virtual Remote screen or the toolbar will be displayed as well as your computer screen.
- Use the supplied computer cable (VGA) to connect the COM-PUTER 1 IN connector directly with the monitor output connector of the computer to use Virtual Remote Tool. Using a switcher or other cables than the supplied computer cable (VGA) may cause failure in signal communication. VGA cable connector: Pin Nos. 12 and 15 are required for DDC/CI.
- Virtual Remote Tool may not work depending on your computer's specifications and version of graphic adapters or drivers.
- The projector does not support the LAN automatic search feature of Virtual Remote Tool. To connect the projector, register an IP address manually.

Using the Downloadable Software

Using the Computer Cable (VGA) to Operate the Projector (Virtual Remote Tool)

Using the utility software "Virtual Remote Tool" that you can download from our web site (http://www.nec-display.com/dl/en/index.html), Virtual Remote screen (or toolbar) can be displayed on your computer screen.

This will help you perform operations such as projector's power on or off and signal selection via the computer cable (VGA), serial cable, or LAN connection.





Virtual Remote screen

Toolbar

This section provides an outline of preparation for use of Virtual Remote Tool.

For information on how to use Virtual Remote Tool, see Help of Virtual Remote Tool. (-> page 18)

- Step 1: Install Virtual Remote Tool on the computer. (-> page 15)
- Step 2: Connect the projector to the computer. (-> page 16)
- Step 3: Start Virtual Remote Tool. (-> page 17)

TIP:

- Virtual Remote Tool can be used with a LAN and a serial connection.
- For update information on Virtual Remote Tool, visit our website: http://www.nec-display.com/dl/en/index.html

TIP:

 The projector's COMPUTER 1 IN connector supports DDC/CI (Display Data Channel Command Interface). DDC/CI is a standard interface for bidirectional communication between display/projector and computer.



- To install or uninstall the program, the Windows user account must have [Administrator] privilege (Windows 7, Windows Vista and Windows XP)
- Exit all running programs before installation. If another program is running, the installation may not be completed.

Step 1: Install Virtual Remote Tool on the computer

Supported OS

Virtual Remote Tool will run on the following operating systems.

Windows 7 Home Basic *1, Windows 7 Home Premium *1, Windows 7 Professional *1, Windows 7 Enterprise *1, Windows 7 Ultimate *1

Windows Vista Home Basic *1, Windows Vista Home Premium *1, Windows Vista Business *1, Windows Vista Enterprise *1, Windows Vista Ultimate *1

Windows XP Home Edition *2, Windows XP Professional *2

- *1: Supports 32-bit version.
- *2: To run Virtual Remote Tool, "Microsoft .NET Framework Version 2.0 or later" is required. The Microsoft .NET Framework Version 2.0 or later is available from Microsoft's web page. Install the Microsoft .NET Framework Version 2.0 or later on your computer.
- 1 Download the updated VRT exe file from our web site (http://www.nec-display.com/dl/en/index.html).
- 2 Double-click the VRT. exe icon.

The Installer will start and the Wizard screen will appear.



3 Click "Next".

"END USER LICENSE AGREEMENT" screen will be displayed.



Read "END USER LICENSE AGREEMENT" carefully.

4 If you agree, click "I accept the terms in the license agreement" and then click "Next".

Follow the instructions on the installer screens to complete the installation.



After the installation is completed, the shortcut icon for Virtual Remote Tool

TIP:Uninstalling Virtual Remote Tool

• Preparation:

Exit Virtual Remote Tool before uninstalling. To uninstall Virtual Remote Tool, the Windows user account must have "Administrator" privilege (Windows 7 and Windows Vista) or "Computer Administrator" privilege (Windows XP).

• For Windows 7/Windows Vista

- 1 Click "Start" and then "Control Panel". The Control Panel window will be displayed.
- 2 Click "Uninstall a program" under "Programs" The "Programs and Features" window will be displayed.
- 3 Select Virtual Remote Tool and click it.
- 4 Click "Uninstall/Change" or "Uninstall".

When the "User Account Control" window is displayed, click "Continue". Follow the instructions on the screens to complete the uninstallation.

· For Windows XP

- 1 Click "Start" and then "Control Panel".
 - The Control Panel window will be displayed.
- 2 Double-click "Add / Remove Programs".

The Add / Remove Programs window will be displayed.

3 Click Virtual Remote Tool from the list and then click "Remove". Follow the instructions on the screens to complete the uninstallation.

Step 2: Connect the projector to the computer

1 Use the supplied computer cable (VGA) to connect the COMPUTER 1 IN connector of the projector directly with the monitor output connector of the computer.

2 Connect the supplied power cord to the AC IN of the projector and the wall outlet.

The projector is in the standby condition.

TIP:

 When Virtual Remote Tool starts for the first time, "Easy Setup" window will be displayed to navigate your connections.

Step 3: Start Virtual Remote Tool

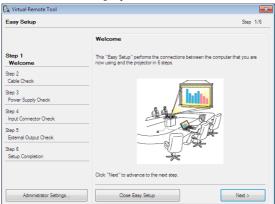
Start using the shortcut icon



Start from the Start menu

Click [Start] -> [All Programs] or [Programs] -> [NEC Projector User Supportware] -> [Virtual Remote Tool] -> [Virtual Remote Tool].

When Virtual Remote Tool starts for the first time, "Easy Setup" window will be displayed.





When [POWER-SAVING] is selected for [STANDBY MODE] from the menu, the projector cannot be turned on via the computer cable (VGA) or network (wired LAN) connection.

Follow the instructions on the screens.

When "Easy Setup" is completed, the Virtual Remote Tool screen will be displayed.

TIP:

• The Virtual Remote Tool screen (or Toolbar) can be displayed without displaying "Easy Setup" window.

To do so, click to place a check mark for "Do not use Easy Setup next time" on the screen at Step 6 in "Easy Setup".

Exiting Virtual Remote Tool

1 Click the Virtual Remote Tool icon 👼 on the Taskbar.

The pop-up menu will be displayed.



2 Click "Exit".

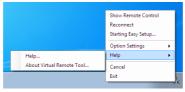
The Virtual Remote Tool will be closed.

Viewing the help file of Virtual Remote Tool

Displaying the help file using the taskbar

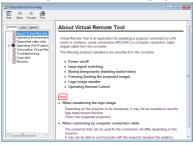
1 Click the Virtual Remote Tool icon on the taskbar when Virtual Remote Tool is running.

The pop-up menu will be displayed.



2 Click "Help".

The Help screen will be displayed



Displaying the help file using the Start Menu.

Click "Start" -> "All programs" or "Programs" -> "NEC Projector User Supportware" -> "Virtual Remote Tool" and then "Virtual Remote Tool Help" in this order.

The Help screen will be displayed.

Controlling the Projector over a LAN (PC Control Utility Pro 4)

Using the utility software "PC Control Utility Pro 4" that you can download from our web site (http://www.nec-display.com/dl/en/index.html), the projector can be controlled from a computer over a LAN.

Control Functions

Power On/Off, signal selection, picture freeze, picture mute, audio mute, adjusting, error message notification, event schedule.



Screen of PC Control Utility Pro 4

This section provides an outline of preparation for use of PC Control Utility Pro 4. For information on how to use PC Control Utility Pro 4, see Help of PC Control Utility Pro 4. (-> page 22)

- Step 1: Install PC Control Utility Pro 4 on the computer. (-> page 21)
- Step 2: Connect the projector to a LAN. (-> page 22)
- Step 3: Start PC Control Utility Pro 4. (-> page 22)

TIP:

- PC Control Utility Pro 4 can be used with a serial connection.
- For update information on PC Control Utility Pro 4, visit our website: http://www.nec-display.com/dl/en/index.html



When the projector is in the standby condition, the Error Alert function of PC Control Utility Pro4 is not available.

To make this function available even in the standby condition, use the E-Mail Alert function of the projector. (-> page 46)

Step 1: Install PC Control Utility Pro 4 on the computer

• Supported OS - PC Control Utility Pro 4 will run on the following operating systems.

Windows 7 Home Basic *1, Windows 7 Home Premium *1, Windows 7 Professional *1, Windows 7 Enterprise *1, Windows 7 Ultimate *1

Windows Vista Home Basic *1, Windows Vista Home Premium *1, Windows Vista Business *1, Windows Vista Enterprise *1, Windows Vista Ultimate

Windows XP Home Edition *2, Windows XP Professional *2

- *1: Supports 32-bit version.
- *2: To run PC Control Utility Pro 4, "Microsoft .NET Framework Version 2.0 or later" is required. The Microsoft .NET Framework Version 2.0 or later is available from Microsoft's web page. Install the Microsoft .NET Framework Version 2.0 or later on your computer.
- 1 Download the updated VRT exe file from our web site (http://www.necdisplay.com/dl/en/index.html).
- 2 Double-click the VRT, exe icon.

The Installer will start and the Wizard screen will appear.



3 Click "Next".

"END USER LICENSE AGREEMENT" screen will be displayed.





- To install or uninstall the program, the Windows user account must have [Administrator] privilege (Windows 7, Windows Vista and Windows XP)
- Exit all running programs before installation. If another program is running, the installation may not be completed.



* For the Schedule function of the PC Control utility Pro 4 to work, you must have your computer running and not in standby/sleep mode. Select "Power Options" from the "Control Panel" in Windows and disable its standby/sleep mode before running the scheduler.

[Example] For Windows 7:

Select "Control Panel" -> "System and Security" -> "Power Options" -> "Change when the computer sleeps" -> "Put the computer to sleep" -> "Never".

- * When [POWER-SAVING] is selected for [STANDBY MODE] from the menu, the projector cannot be turned on via the network (wired LAN) connection.
- * The projector does not support the LAN automatic search feature of PC Control Utility Pro 4. To connect the projector, register an IP address manually.

Read "END USER LICENSE AGREEMENT" carefully.

4 If you agree, click "I accept the terms in the license agreement" and then click "Next".

Follow the instructions on the installer screens to complete the installation.

TIP:Uninstalling PC Control Utility Pro 4

• To uninstall PC Control Utility Pro 4, do the same procedures stated as in "Uninstalling Virtual Remote Tool". Read "Virtual Remote Tool" as "PC Control Utility Pro 4" (-> page 16)

the "Control Panel" in Step 2: Connect the projector to a LAN

Connect the projector to the LAN by following the instructions in "Connecting the Projector" on page 23 and "How to use web browser to control your projector" in pages 46-47.

Step 3: Start PC Control Utility Pro 4

Click "Start" -> "All programs" or "Programs" -> "NEC Projector User Supportware" -> "PC Control Utility Pro 4" -> "PC Control Utility Pro 4".

TIP: Viewing the Help of PC Control Utility Pro 4

- Displaying the Help file of PC Control Utility Pro 4 while it is running.
 Click "Help (H)" -> "Help (H)" of window of PC Control Utility Pro 4 in this order.
 - The pop-up menu will be displayed.
- Displaying the help file using the Start Menu.
 Click "Start" -> "All programs" or "Programs" -> "NEC Projector User Supportware" -> "PC Control Utility Pro 4" -> "PC Control Utility Pro 4 Help".

The Help screen will be displayed.

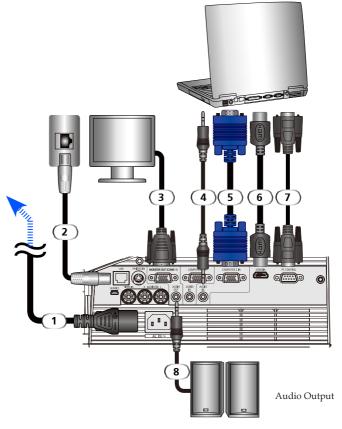
Connecting the Projector

Connect to Computer/Notebook/Network



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



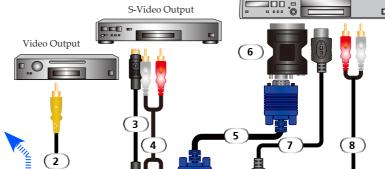


1	Power cord (supplied)
2	Network Cable
3	VGA out cable
4	Audio in cable
5	
	HDMI cable
7	RS232 cable
8	Audio out cable

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



O OWNER IN COMPUTE IN

To the wall outlet



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



1	
2	
	S-Video cable
	Audio in cable
5	
	SCART/VGA adaptor
7	HDMI cable
8	Audio in cable
8	

HDMI cable: Use High Speed HDMI® Cable.

Powering On/Off the Projector



*Before using the projector, remove the mirror cover.



()When "Power-Saving" is selected for "Standby Mode",the Power LED will turn red: when "Normal" is selected for "Standby Mode", the Power LED will turn orange.

Powering On the Projector

- 1. Ensure that the power cord and signal cable are securely connected. The Power LED will turn orange or red^(*).
- 2. Turn on the lamp by pressing "POWER ON" on the remote control or () on the control panel. The Power LED will flash blue. The startup screen (NEC logo) will display and the Power LED will turn 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 "COMPUTER 1", "COMPUTER 2", "S-VIDEO", "VIDEO", "HDMI" on the remote control to switch inputs.



Turn on the projector first and then the signal sources.



or



Powering Off the Projector

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



- 2. Press the "POWER OFF" button again to confirm.
- 3. The cooling fan continues to operate for about 25 seconds during the cool down period and the Power LED will flash blue. When the light turns orange or red, the projector has entered standby mode.
 - If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press the "POWER ON" button on the remote control or the button on the control panel to restart the projector.
- 4. Disconnect the power cord from the electrical outlet and the projector.
- 5. Do not turn on the projector immediately following a power off procedure.

Warning Indicator

When the "STATUS" LED indicator flashes red, it indicates the projector has overheated. The projector will automatically shut itself down.



When the "LAMP" LED indicator turns red and the message below displays on-screen, the projector has detected that the lamp is approaching its end of life. When you see this message, change the lamp as soon as possible.



When the "STATUS" LED indicator flashes red 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.

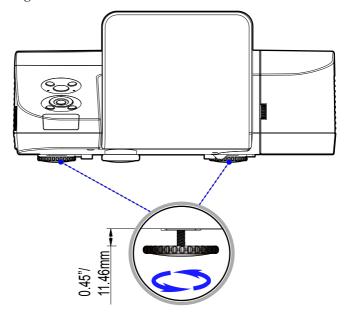


Adjusting the Projected Image

Adjusting the Height of Projector Image

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

1. Rotate the tilt adjustable feet counter clockwise to raise the projector or clockwise to lower it. Repeat with the remaining feet as needed.

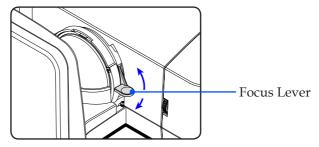


Tilt adjusting feet

Adjusting the Projector Focus

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

- ▶ U300X/U250X series: The projector will focus at distances from 19" to 26"/475 to 662 mm .
- \blacktriangleright U310W/U260W series: The projector will focus at distances from 19" to 26"/495 to 661 mm .

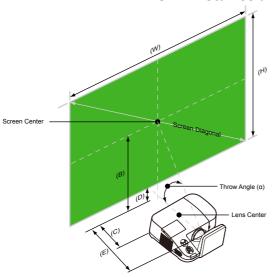


Adjusting Projection Image Size

- ▶ U300X/U250X series: Projection Image Size from 63" to 85" (1.600 to 2.159 meters).
- ▶ U310W/U260W series: Projection Image Size from 77" to 100" (1.956 to 2.540 meters).

Installation

Throw Distance and Screen Size



U300X/U250X

1727

1295

40

B=>Vertical distance between lens center and screen center C,E=>Throw distance D=>Vertical distance between lens center and bottom of screen (top of screen for ceiling mount) α=>Throw angle

000011/ 020011														
	Screen Size							l "	C)					(~)
Diag	gonal	Widt	n (W)	Heig	ht (H)] "	3)	"	C)	"	D)	(1	Ε)	(α)
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	degree
63	1600	50	1280	38	960	29	749	5	133	11	269	19	475	55.3
65	1651	52	1321	39	991	30	773	6	150	11	277	19	492	55.3
70	1778	56	1422	42	1067	33	832	8	192	12	299	21	534	55.3
75	1905	60	1524	45	1143	35	892	9	235	13	320	23	577	55.3
77	1956	62	1565	46	1173	36	915	10	251	13	329	23	594	55.3
80	2032	64	1626	48	1219	37	951	11	277	13	341	24	619	55.3

1010

320

363

55.3

	U310W/U260W													
	Screen Size					"		"	2)	,,	· · · · · · · · · · · · · · · · · · ·	"	-,	(%)
Diag	jonal	Widtl	h (W)	Heigl	nt (H)	(1	3)	,,	C)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D) 	(1	≣)	(α)
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	degree
77	1956	65	1659	41	1037	31	777	6	153	10	259	19	495	55.3
80	2032	68	1723	42	1077	32	808	7	174	11	269	20	516	55.3
85	2159	72	1831	45	1144	34	858	8	214	11	286	22	568	55.3
87.2	2215	74	1878	46	1174	35	880	9	226	12	293	22	569	55.3
90	2286	76	1939	48	1212	36	909	10	246	12	303	23	588	55.3
95	2413	81	2046	50	1279	38	959	11	283	13	320	25	625	55.3
100	2540	85	2154	53	1346	40	1010	13	319	13	337	26	661	55.3

^{*}This graph is for user's reference only.

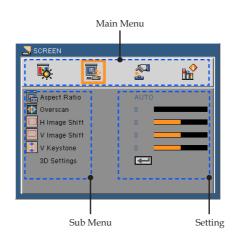
2159

On Screen Display

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

How to operate

- 1. To open the OSD, press the MENU button on the Remote Control.
- 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.
- 5. After adjusting the settings, press the MENU button go back to the main menu.
- To exit, press the MENU button again. The OSD will be closed and the projector will automatically save the new settings.





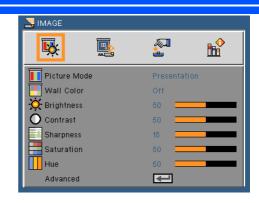
❖ If no button operation is made for 30 seconds, the OSD will be closed automatically.

Menu Tree

Main Menu	Sub Menu		Settings
IMAGE	Picture Mode		Presentation / High-Bright / Movie / sRGB / Blackboard / Video / User1 / User2
	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
		BrilliantColor™	0~10
		Color Temp.	Low / Medium / High
		Color	Red Gain / Green Gain / Blue Gain / Red
			Bias / Green Bias / Blue Bias / Cyan Gain /
		Color Space	Magenta Gain / Yellow Gain / Reset / Exit AUTO / RGB / YUV
		·	
		Input	HDMI / Computer 1 / Computer 2 / S-Video / Video / Exit
		Exit	
SCREEN	Aspect Ratio		AUTO / 4:3 / 16:9 / 16:10 / 15:9 / 5:4 / Native
	Overscan		0~3
	H Image Shift		-50~50
	V Image Shift		-50~50
	V Keystone		-40 ~40
	3D Settings	-(Off / On
		3D Invert	Off / On
		3D Over/Under	Off / On
		Exit	
SETTING	Language		English / Deutsch / Français / Italiano / Español / Português / Svenska / Norsk/Dansk / Polski / Русский / ελληνικά / Magyar / Čeština / جربی / 繁體
			中文 / 简体中文 / 日本語 / 한국어 / Indonesia / Türkçe
	Orientation		
	Menu Location		
	Signal	Phase	0~31
		Clock	-5~5
		H. Position	-5~5
		V. Position	-5~5
		Exit	
	Mute		Off / On
	Volume		0~31

Main Menu	Sub Menu		Settings
SETTING	Advanced	Logo	On / Off
02111110		PC Control Mode	PC Control / LAN
		Network	
		Closed Caption	Off / CC1 / CC2 / CC3 / CC4 / T1 / T2 / T3 / T4
		Security	
		Video Level	AUTO / Normal / Enhance
	(Exit	
SETTING	Network	Network State	Disconnect / Connect
Advanced		DHCP	Off / On
		IP Address	0.0.0.0
		Subnet mask	0.0.0.0
		Gateway	0.0.0.0
		DNS	0.0.0.0
		Apply	Off / On
		Exit	
	Security	Security	Off / On
		Security Timer	Month / Day / Hour / Exit
		Change Password	
	(Exit	
OPTIONS	Input Search		Off / On
	Fan Mode		AUTO / High Speed
	Information Hide		Off / On
	Background Color		Black / Blue
	Lamp/Filter Settings (Lamp Hours Used (Normal)	
		Lamp Hours Used (ECO)	
		Lamp Life Reminder	Off / On
		ECO Mode	Off / On
		Clear Lamp Hours	
		Filter Usage Hours	
		Clear Filter Usage Hours	
	(Exit	
	Information		
	Advanced	Standby Mode	Normal / Power-Saving
	(Direct Power On	Off / On
	-	Auto Power Off (min.)	0~180
		Off Timer (min.)	0~995
		Control Panel Lock	Off / On
	(.	Exit	
			Off / On

IMAGE



<u>Picture Mode</u>

There are many factory presets optimized for various types of images. Use the \triangleleft or \triangleright button to select the item.

- Presentation: For computer or notebook.
- ▶ High-Bright: Maximum brightness from PC input.
- 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).
- ▶ Video: This mode is recommended for typical TV program viewing.
- ▶ User: Memorize user's settings.

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.

<u>Brightness</u>

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

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.

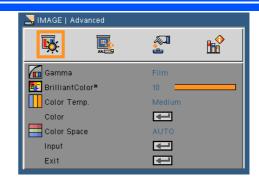
Advanced

Refer to next page.



"Saturation" and "Hue" functions are only supported under Video mode.

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.

BrilliantColorTM

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.



The Color Temp is not available when "High-Bright" or "sRGB" is selected for "Picture mode".

Color

Press

into the next menu as below and then use the ▲ or ▼
button to select item.

- ▶ Red Gain/Green Gain/Blue Gain/Red Bias/Green Bias/Blue Bias/Cyan Gain/Magenta Gain/Yellow Gain: Use the ◀ or ▶ button to select Red, Green, Blue, Cyan, Magenta and Yellow Colors.
- Reset: Choose "Yes" to return the factory default settings for color adjustments.



Color Space

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

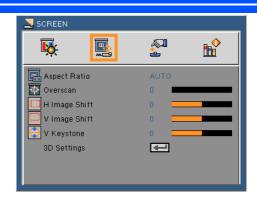
Input

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.

<u>Exit</u>

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.
- ▶ 16:10: This format is for 16×10 input sources, like widescreen laptops.
- ▶ 15:9: This format is for non-16x9, letterbox source and for users who use external 16x9 lens to display 1.67:1 aspect ratio using full resolution.
- ▶ 5:4: This format is for 5×4 input sources.
- Native: This format displays the original image without any scaling.
- ▶ 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.

H Image Shift

Shift the projected image position horizontally.

V Image Shift

Shift the projected image position vertically.



Each I/O has different setting of "Overscan".

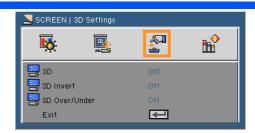
V Keystone

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

3D Settings

Refer to next page.

SCREEN | 3D Settings





- "3D Invert" and "3D Over/ Under" only available when 3D is enabled.
- Compatible 3D source, 3D content and active shutter glasses are required for 3D viewing.

3D

Choose "On" to turn this item on for 3D images.

3D Invert

- ▶ Choose "On" to invert left and right frame contents.
- ▶ Choose "Off" for default frame contents.

3D Over/Under

- ▶ Choose "On" to invert over and under frame contents.
- ▶ Choose "Off" for default frame contents.

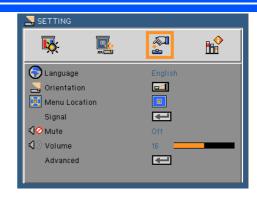
Exit

Press 🖊 to return to the previous menu.

TIP: 3D supported signal

- For PC Signal:
 640x480@120Hz, 640x480@60Hz,
 800x600@120Hz, 800x600@60Hz,
 1024x768@120Hz,1024x768@60Hz
 1280x720@120Hz,1280x720@60Hz
- For Video Signal : 480i@60Hz,480p@60Hz,720p@60Hz

SETTING



Language

Choose the multilingual OSD menu. Press the \triangleleft or \triangleright button into the sub menu and then use the \triangle or \blacktriangledown button to select your preferred language. Press \blacktriangleleft to finalize the selection.



Note

Rear-Desktop and Rear-Ceiling are to be used with a translucent screen.

Orientation

Desktop Front

This is the default selection. The image is projected straight on the screen.

Desktop Rear

When selected, the image will appear reversed.

Ceiling Front
When selected, the image will turn upside down.

Ceiling Rear

When selected, the image will appear reversed in upside down position.

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 44.

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.

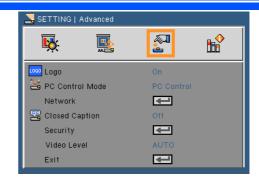
V. Position

- ▶ 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 set the desired startup screen. If changes are made they will take effect the next time the projector is powered on.

- ▶ On: The default startup screen.
- ▶ Off: Use stored picture from "Logo Capture" function.

PC Control Mode

- ▶ PC Control: Allow PC control of an individual projector. (Default setting)
- LAN: Allow projector control via web browser (Internet Explorer) using the network.

Network

Refer to next page.

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, CC4, T1, T2, T3 and T4.

Security

Refer to page 48.

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.

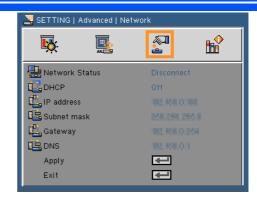


For successful logo capture, please ensure that the onscreen image does not exceed the projector's native resolution. (XGA:1024x768 or WXGA:1280x800).



"Video Level" is only supported under HDMI source.

SETTING | Advanced | Network



Network Status

Display the network connection status.

DHCP

Use this function to select your desired startup screen. If you change the setting from one to another, when you exit the OSD menu, the new setting will take effect on next open.

- On: Assign an IP address to the projector from an external DHCP server automatically.
- ▶ Off: Assign an IP address manually.

IP Address

Select an IP address.

Subnet Mask

Select subnet mask number.

Gateway

Select the default gateway of the network connected to the projector.

DNS

Select DNS number.

<u>Apply</u>

Press ← and then choose "On" to apply the selection.

<u>Exit</u>

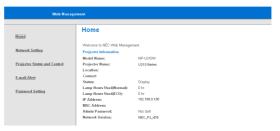
Press **✓** to return to the previous menu.

How to use web browser to control your projector

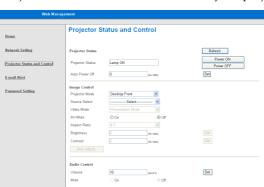
1. Turn on DHCP to allow the DHCP server to automatically assign an IP, or manually enter the required network information.



- Then choose apply and press
 button to complete the configuration process.
- 3. Open your web browser and type in from the OSD LAN screen then the web page will display as below:



4. Open "Projector Status and Control" to control your projector.



When making a direct connection from your computer to the projector

Step 1: Find an IP Address (default:192.168.0.100) from LAN function of projector.





When you used the projector IP address, you can not link to your service server.

- Step 2: Select apply and press the ENTER button on the remote control or the control panel to submit function or press the MENU button on the remote control or the control panel to exit.
- Step 3: To open Network Connections, click Start, click Control Panel, click Network and Internet Connections, and then click Network Connections. Click the connection you want to configure, and then, under **Network Tasks** 🚮 , click Change settings of this connection.
- Step 4: On the **General** tab, under **This** connection uses the following items, click Internet Protocol (TCP/IP), and then click "Properties."



- Step 5: Click Use the following IP address, and type in as below:
 - 1) IP address: 192.168.0.100 2) Subnet mask: 255.255.255.0
 - 3) Default gateway:192.168.0.254



Step 6: To open Internet Options, click IE web browser, click Internet Options, click the **Connections tab** and click "LAN Settings..."



Step 7: The Local Area Network (LAN) **Setting** dialog box appears, In the Proxy Server area, cancel the Use a proxy server for your LAN **check box**., then click "OK" button twice.



- Step 8: Open your IE and type in the IP address of 192.168.0.100 in the URL then press the ENTER button key.
- Step 9: Open "Projector Status and Control" to control your projector.



SETTING | Advanced | Security



Моте

- Password default value is "1234" (first time).
- When you input the password, you must press the NUM button and other number button on the remote control at the same time.



Security

- On: Choose "On" to use security verification when turning on the projector.
- Off: Choose "Off" to be able to switch on the projector without password verification.

Security Timer

Use this function to set how long (Month/Day/Hour) the projector can be used. Once this time has elapsed you will be requested to enter your password again.

Change Password

- First time:

 - 2. The password has to be 4 digits.
 - 3. Use number buttons on the remote control to enter your new password and then press ✔ key to confirm your password.
- ▶ Change Password:

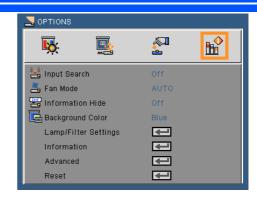
 - 4. Enter the new password again and press 🖊 to confirm.

- ▶ If the incorrect password is entered 3 times, the projector will automatically shut down.
- If you have forgotten your password, please contact your local office for support.

Exit

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

OPTIONS



Ноте

With the optional dust filter installed, "High" is selected for "Fan Mode". Dust filter is Optional and may not be required in some regions.

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: 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.

Information Hide

- ▶ On: Choose "On" to hide the info message.
- $\,\blacktriangleright\,$ 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.

Lamp/Filter Setings

Refer to next page.

Information

Refer to page 53.

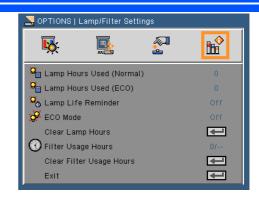
Advanced

Refer to page 54.

Reset

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

OPTIONS | Lamp/Filter Settings



<u>Lamp Hours Used (Normal)</u>

Display the projection time for normal mode.

Lamp Hours Used (ECO)

Display the projection time for ECO mode.

Lamp Life Reminder

Choose this function to show or to hide the warning message when the changing lamp message is displayed.

The message will appear 30 hours before suggested replacement of lamp.

ECO Mode

Choose "On" to dim the projector lamp which will lower power consumption and extend the lamp life. Choose "Off" to return to normal mode.

Clear Lamp Hours

Reset the lamp hour counter after replacing the lamp.

Filter Usage Hours

Display the projection time for using filter.

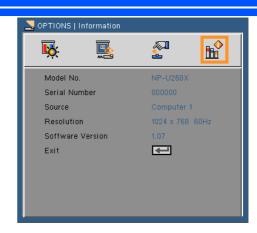
Clear Filter Usage Hours

Reset the filter hour counter after replacing the filter.

<u>Exit</u>

Press 🖊 to return to the previous menu.

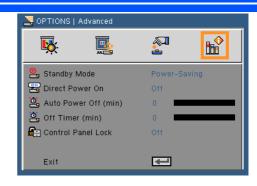
OPTIONS | Information



Information

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

OPTIONS | Advanced





Power-Saving mode (<0.5W) will disable RJ45 function when the projector is in standby.

Standby Mode

- ▶ Power-Saving: Choose "Power-Saving" to save power dissipation further < 0.5W.
- Normal: Choose "Normal" to return to normal standby.

Direct Power On

Choose "On" to activate Direct Power mode. The projector will automatically power on when AC power is supplied, without pressing the (b) buton 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 ENTER button on the projector cabinet for about 10 seconds to turn off "Control Panel Lock".

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.
- ▶ Check if the projection lamp has been securely installed. Please refer to the "Replacing the lamp" section.
- Make sure the projector is switched on.
- Ensure that the "AV-MUTE" feature is not turned on.

Problem: Partial, scrolling or incorrectly displayed image

- ▶ Press "AUTO ADJ." on the remote control or control panel.
- 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:

- From the "My Computer" icon, open the "Control Panel" folder, and double click the "Appearance and Personalization"
- 2. Select "Personalization"
- 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
                            Packard =>
                                          [Fn]+[F4]
Dell =>
             [Fn]+[F8]
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 5" to 12"/130 to 314 mm [U300X/U250X] / 6" to 12"/148 to 311 mm [U310W/U260W] from the projector (refer to page 29).

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-->Orientation" from the OSD and adjust the projection direction.

Problem: Lamp burns out or makes a popping sound

When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp".

Problem: LED lighting message

Power Indicator

In	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.	
	Orange		"Normal" is selected for "Standby Mode"	
			"Power-Saving" is selected for "Standby Mode"	-

Status Indicator

Indica	tor Condition	on	Projector Condition	Note
	Off		Normal or Standby ("Power-Saving" for "Standby Mode")	-
Blinking light	Red	1 cycle (0.5 sec On, 2.5 sec Off)	Lamp cover error or lamp housing error	Replace the lamp cover or lamp housing correctly.
		2 cycle (0.5 sec On, 0.5 sec Off)	Temperature error	The projector is overheated. Move the projector to a cooler location.
		3 cycle (0.5 sec On, 0.5 sec Off)	Power error	Power unit is not working properly. Contact your dealer.
		4 cycle (0.5 sec On, 0.5 sec Off)	Fan error	Fans will not work correctly.
		6 cycle (0.5 sec On, 0.5 sec Off)	Lamp error	Lamp fails to light. Wait a full minute and then turn on again.
	Green		Re-firing the lamp (The projector is cooling down)	The projector is re-firing. Wait for a moment.
Steady light	Green		Standby ("Normal" for "Standby Mode")	
	Orange		CONTROL PANEL LOCK is on.	You have pressed cabinet button when Control Panel Lock is on.

Lamp Indicator

Indicator Condition			Projector Condition	Note
Off			Normal	
Blinking light	Red		Lamp has reached its end of life. Lamp replacement message will be displayed.	Replace the lamp.
Steady light	Red		Lamp has reached its end of life. The projector will not turn on until the lamp is replaced.	Wait for a moment.
	Green		"ECO Mode" is set to "On"	

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.



Replacing the lamp - the lamp is about to reach its maximum lifetime. Prepare to replace it soon.



NOTE: When you continue to use the projector for another 100 hours after the lamp has reached the end of its life, the projector cannot turn on.

If this happens, after replacing the lamp, connect the power cord and then press the HELP button on the remote control. This will allow you to turn on the projector. Clear the lamp hours by selecting "OPTIONS" -> "Lamp/Filter Settings" -> "Clear Lamp Usage Hours" from the menu.

Fan failed - the system fan is not working.



Cleaning the filter



Cleaning the Filter

The air-filter sponge keeps dust and dirt from getting inside the projector and should be frequently cleaned. If the filter is dirty or clogged, your projector may overheat.



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

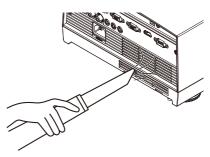
A CAUTION:

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

To clean the air-filter

Use a small vacuum cleaner designed for computers and other office equipment.

If the dirt is difficult to remove or the filter is broken. please contact your local dealer or service center to obtain a new filter.



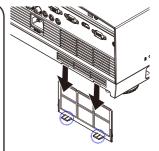
To replace the filter

A CAUTION:

- Before replacing the filter, remove dust and dirt from the projector cabinet.
- The projector contains high-precision parts. Keep out dust and dirt during filter
- Do not wash the filter with water. Water will damage the filter membrane.
- Reattach the filter cover correctly. Failure to do so may cause projector malfunc-

Replacing Procedure:

- 1. Disconnect the power cord.
- 2. Pull the filter out.
- 3. Replace the filter.
- 4. Install the new filter by reversing the previous steps.
- 5 After replacing the filter, turn on the power, and press the [MENU] button -> OPTIONS | Lamp/Filter Settings -> Clear Filter Usage Hours to reset the filter usage hours. Refer to page 52.



Replacing the lamp

(optional lamp NP19LP(U250X/U260W)/NP20LP(U300X/U310W))

The projector will detect the lamp life at 2500 hours (U250X/U260W) /2500 hours (U300X/U310W) in Normal mode. When the "Power" LED indicator flashes red and the message below displays on-screen, the projector has detected that the lamp is approaching its end of life. (Refer to page 27) It will show you a warning message



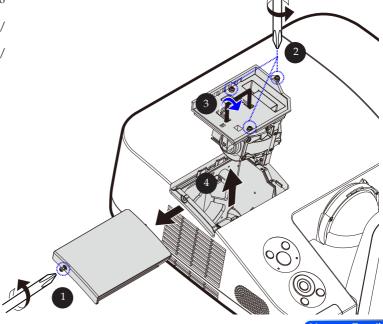
Warning: To avoid burns, allow the projector to cool for at least 60 minutes before you replace the lamp!





The lamp life in Eco Mode On: up to 3000 hours (U300X/ U310W) and up to 4000 hours (U250X/ U260W).

When you see this message, change the lamp as soon as possible. Make sure the projector has been cooled down for at least 60 minutes before changing the lamp.





Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.



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.

Lamp Replacing Procedure:

- 1. Switch off the power to the projector by pressing the POWER OFF button on the remote control or the 🖒 button on the control panel.
- 2. Allow the projector to cool down at least 60 minutes.
- 3. Disconnect the power cord.
- 4. Use a screwdriver to remove the screw from the cover. **①**
- 5. Push up and remove the cover.
- 6. Remove 3 screws from the lamp module ② and pull up the handle. ③
- 7. Pull out the lamp module. 4
- 8. Install the new lamp module by reversing the previous steps. Be sure to tighten the screws on the lamp module and the lamp cover.
- 9. After replacing the lamp, turn on the power, and select the [MENU] button -> OPTIONS | Lamp/Filter Settings -> Clear Lamp Hours to reset the lamp usage hours. Refer to page 52.

Cleaning procedure for the aspherical mirror and lens

If the aspherical mirror or lens of projection lens is dusty or blemished, please clean the mirror or lens as following procedure:

- 1. Turn off the projector and cool projector down for a while.
- 2. Unplug the power cord from outlet.
- Blow the dust by blower for cameras which you could buy from camera shops. Wipe the mirror or lens gently using a cleaning cloth.



CAUTION:

- Do not wipe the mirror, if there is dust on it. Please blow the dust by blower first.
- Always wipe the mirror or lens with a cleaning cloth.
- Please do not wipe the mirror or lens hard because that may cause serious damage on the surface of mirror or lens.
- Wiping might scratch the mirror or lens. Optical performance of the projector will thus be impacted if mirror or lens is scratched after wiping. Optical performance impact will be dependent on the scratch condition of them.
- Do not use liquid cleaners or chemicals on the cloth because it may contaminate the cloth and cause serious damage on the surface of mirror or lens.

Specifications

Optical	U300X	U250X	U310W	U260W	
Projection System	Single DLP® chip (0.	Single DLP® chip (0.55", aspect ratio 4:3)		65", aspect ratio	
Resolution *1	1024 × 768 pixels (XC	GA)	1280 × 800 pixels (W	XGA)	
Lens	Manual focus				
	F2.71				
Lamp	280W AC (245W in ECO mode)	230W AC (190W in ECO mode)	280W AC (245W in ECO mode)	230W AC (190W in ECO mode)	
Light Output *2*3	3000 lumens	2500 lumens	3100 lumens	2600 lumens	
	Approx. 80% in ECO	mode			
Contrast Ratio *3 (full white:full black)	2000:1				
Image Size (Diagonal)	63 to 85 inches/ 1.6 to	o 2.16 m	77 to 100 inches/ 1.96 to 2.54 m		
Projection Distance (mini max.)	19 to 26 inches / 475 to 662 mm		19 to 26 inches / 495 to 661 mm		
Projection Angle	55.3°				

^{*1} Effective pixels are more than 99.99%.

^{*3} Compliance with ISO21118-200

Electrical	U300X	U250X	U310W	U260W	
Inputs			⁄II (19P) HDCP suppor Audio, 2 x Stereo Mini		
Outputs	1 x RGB (D-Sub 15P),	1 x Stereo Mini Audio)		
PC Control	1 x PC Control Port (D-Sub 9P)			
Wired LAN Port	1 x RJ-45 (10/100 BAS	SE-T)			
Service Port	1 x mini USB (for serv	vice purpose only)			
Color Reproduction	16.7 million colors simultaneously, Full color				
Compatible Signals *5	Analog: VGA/SVGA/XGA/XGA+/WXGA/Quad-VGA/WXGA+/SXGA/SXGA+/WXGA+/WXGA++/UXGA 480i/480p/576i/576p/720p/1080i/1080p HDMI: VGA/SVGA/XGA/WXGA/Quad-VGA/SXGA/SXGA+/WXGA+/ WXGA++/ 480p/576p/720p/1080i/1080p				
Video Bandwidth	RGB: 80 MHz (Max.)				
Horizontal Resolution	540 TV lines: NTSC/NTSC4.43/PAL/PAL-M/PAL-N/PAL60 300 TV lines: SECAM				
Scan Rate	Horizontal: 31.35 kHz to 91.1 kHz Vertical: 56 Hz to 120 Hz (HDMI: 50 to 85 Hz)				

^{*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.

Electrical	U300X	U250X	U310W	U260W
Sync Compatibility	Separate Sync			
Built-in Speaker	10W (monaural)			
Power Requirement	100 - 240V AC, 50/6	0 Hz		
Input Current	100 - 240V AC, 50-60Hz, 3.5-1.5A	100 - 240V AC, 50-60Hz, 3.0-1.3A	100 - 240V AC, 50-60Hz, 3.5-1.5A	100 - 240V AC, 50-60Hz, 3.0-1.3A
Power Consumption				
ECO Mode On	315W+/-10% @110Vac	245W+/-10% @110Vac	315W+/-10% @110Vac	245W+/-10% @110Vac
ECO Mode Off	360W+/-10% @110Vac	300W+/-10% @110Vac	360W+/-10% @110Vac	300W+/-10% @110Vac
Standby (Normal)	3 W			
Standby (Power- saving)	0.5 W			

^{*4} HDMI® (Deep Color, Lip Sync) 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).

*5 An image with higher or lower resolution than the projector's native resolution (U300X/U250X: 1024 × 768 and U310W/U260W: 1280 × 800) will be displayed with scaling technology.

Mechanical	U300X U250X U310W U260W						
Installation Orientation	Desktop/Front, Desk	top/Rear, Ceiling/Fro	ont, Ceiling/Rear				
Dimensions	(not including protru 16.8" (W) × 7.9" (H) >	12.9" (W) \times 5.5" (H) \times 15.5" (D) /327 mm (W) \times 138 mm (H) \times 393 mm (D) (not including protrusions) 16.8" (W) \times 7.9" (H) \times 16.0" (D) /427 mm (W) \times 200 mm (H) \times 406 mm (D) (with cable cover and tilt adjusting wheel)					
Weight	14.3 lbs/6.5 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	20% to 80% humidity (non-condensing) 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



- * (*1)Native resolution on XGA model (U300X/U250X).
- * (*2)Native resolution on WXGA model (U310W/ U260W).
- * (*3) The projector may fail to display these signals correctly when [AUTO] is selected for [Aspect Ratio] in the on-screen menu. The factory default is [AUTO] for [Aspect Ratio]. To display these signals, select [16:9] for [Aspect Ratio].

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(*1)	4:3	60/70/75/85
XGA+	1152x864	4:3	60/75/85
	1280x768(*2)	15:9	60
WXGA	1280x800 ^(*2)	16:10	60
	1360x768(*3)	16:9	60
Quad-VGA	1280x960	4:3	60
SXGA	1280x1024	5:4	60
SXGA+	1400x1050	4:3	60
WXGA+	1440x900	16:10	60
WXGA++	1600x900 ^(*3)	16:9	60
UXGA	1600x1200	4:3	60
HD	1280x720	16:9	60
MAC 13"	640x480	4:3	67
MAC 16"	832x624	4:3	75
MAC 19"	1024x768	4:3	75
MAC 21"	1152x870	4:3	75

HDMI

Signal	Resolution (dots)	Aspect Ratio	Refresh Rate (Hz)	
VGA	640x480	4:3	60	
SVGA	800x600	4:3	60	
XGA	1024x768(*1)	4:3	60	
	1280x768(*2)	15:9	60	
WXGA	1280x800 ^(*2)	16:10	60	
	1360x768(*3)	16:9	60	
Quad-VGA	1280x960	4:3	60	
SXGA	1280x1024	5:4	60	
SXGA+	1400x1050	4:3	60	
WXGA+	1440x900	16:10	60	
WXGA++	1600x900 ^(*3)	16:9	60	
HDTV	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	

▶ Component



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

▶ Composite Video / S-Video

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

TIP:

- \bullet An image with higher or lower resolution than the projector's native resolution (U300X/U250X: 1024 x 768 / U310W/U260W: 1280 x 800) 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.

Ceiling Mount Installation

- 1. To prevent damaging your projector, please use the ceiling mount package for installation.
- 2. If you buy a ceiling mount from another company, please ensure the screws used to attached a mount to the projector met the following specifications:
 - Screw type: M4
 - Maximum screw length: 8mm
 - Minimum screw length: 6mm

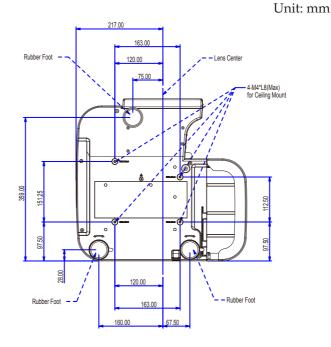


Please note that damage resulting from incorrect installation will invalidate the warranty.

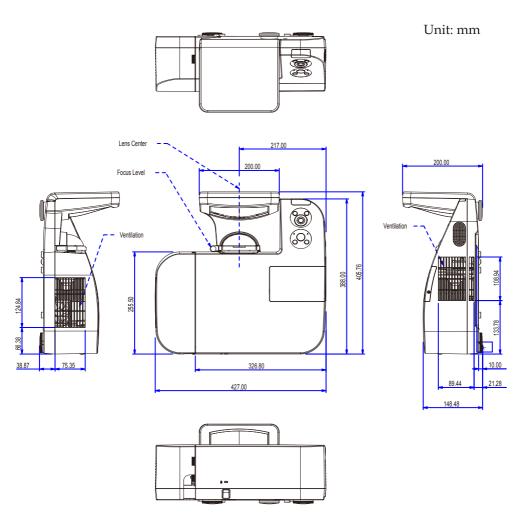


Warning:

- 1. If you buy a ceiling mount from another company, please ensure that there is at least 10cm distance between the bottom cover of the projector and the ceiling.
- Avoid placing the projector near sources of heat such air-conditioning units and heaters otherwise it may overheat and shut down automatically.
- Ceiling mounts should be attached to metal, concrete or wood.

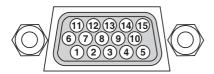


Cabinet Dimensions



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 or Composite Sync	
14	Vertical Sync	
15	Data Clock	

COMPUTER 1 IN

NOTE: Pin Nos. 12 and 15 are required for DDC/CI.

PC Control Codes and Cable Connection

PC Control Codes

Function	Code D	ata						
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 HDMI	02H	03H	00H	00H	02H	01H	1AH	22H
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H	0BH	13H
PICTURE MUTE ON	02H	10H	00H	00H	00H	12H		
PICTURE MUTE OFF	02H	11H	00H	00H	00H	13H		
SOUND MUTE ON	02H	12H	00H	00H	00H	14H		
SOUND MUTE OFF	02H	13H	00H	00H	00H	15H		

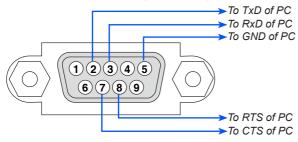
NOTE: Contact your local dealer for a full list of the PC Control Codes if needed.

Cable Connection

Communication Protocol

Baud rate	38400 bps
Data length	8 bits
Parity	No parity
Stop bit	
X on/off	None
Communications procedure	Full duplex

PC Control Connector (D-SUB 9P)



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

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

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 \square always \square sometimes (How often? $_$)
Power —	
No power (POWER indicator does not light blue). Power cable's plug is fully inserted into the wall outlet. Lamp cover is installed correctly. Lamp Hours Used (lamp operation hours) was cleared after lamp replacement. No power even though you press and hold the POWER button for a minimum of 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).
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 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. (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 reso lution on PC and changed it to projector's native resolution. The throw distance is within 5" to 12" (130 to 314 mm) on U300X/U250X and 6" to 12" (148 to 311 mm) on U310W/U260W. 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 EXIT button for minimum of 10 seconds.

n the space below please describe your problem in detail.	
nformation on application and environment where your projecto	r is used
Projector	Installation environment
Model number:	Screen size: inch
Serial No.:	Screen type: White matte Beads Polarization
Date of purchase:	☐ Wide angle ☐ High contrast
Lamp operating time (hours):	Throw distance: feet/inch/m
Lamp Mode: □ Normal □ Eco	Orientation: ☐ Ceiling mount ☐ Desktop
Information on input signal:	Power outlet connection:
Horizontal synch frequency [] kHz	Connected directly to wall outlet
Vertical synch frequency [] Hz	Connected to power cord extender or other (the number of connected equipment)
Synch polarity H □ (+) □ (-) V □ (+) □ (-)	Connected to a power cord reel or other (the number of
Synch type Separate Composite	connected equipment)
Sync on Green	
STATUS Indicator:	
Steady light ☐ Orange ☐ Blue	Computer
Flashing light [] cycles	Manufacturer:
Remote control model number:	Model number:
	Notebook PC □ / Desktop □
	Native resolution:
	Refresh rate:
PC	Video adapter:
	Other:
Projector	
DVD Player	
Signal cable	Video equipment
NEC standard or other manufacturer's cable?	VCR, DVD player, Video camera, Video game or other
Model number: Length: inch/m	Manufacturer:
Distribution amplifier	Model number:
Model number:	
Switcher	
Model number:	
Adapter	
Model number:	

TCO Certification

Some models in this product family are TCO certified. All TCO certified models have the TCO mark on the marking plate (on the bottom of the product). To see a list of our TCO certified projectors and their TCO Certification (in English only), visit our website at http://www.nec-display.com/ap/en_projector/tco/index.html

The TCO certification, designed by TCO Development, is an international environmental and ergonomics standard for IT equipment.

In some cases we may post a list of TCO certified models on our website before the TCO mark is placed on the product. This difference in timing is related to the date certification is received compared with the projectors manufacturing date.

NEC