

NEC Ultra Short Throw Projection Solution

U SERIES

GLARE AND SHADOW FREE PROJECTION

EDUCATION | CORPORATE | SIGNAGE



U SERIES

4 NEW STANDARD AND WIDE MODELS

U SERIES MODELS	U250X	U260W	U300X	U310W
Brightness (ANSI Lumen)	2500	2600	3000	3100
Resolution	XGA	Resolution	Resolution	Resolution
Throw Ratio	0.377:1 (60cm @ 77")	0.3:1 (57.3cm @ 87.2")	0.377:1 (60cm @ 77")	0.3:1 (57.3cm @ 87.2")
Lamp Wattage	230W		280W	
Contrast Ratio	2000:1			
Diagonal Display Size	63" - 85"	77" - 100"	63" - 85"	77" - 100"
Projection Distance (Cabinet to Screen)	13cm -32cm	15.3cm - 32cm	13cm -32cm	15.3cm - 32cm
Dimensions (D x W x H)	393 x 327 x 190			
Noise Level (Normal/Eco Mode) dB	32/29		36/32	
Weight (kg)	6.5kg			
Speaker	10 Watts			
Connectors	HDMI, 2 x Computer In, Monitor Out, S-Video, Composite, RS232(9pin), USB(mini), RJ45, 2 x Audio-in, 1 x Audio-in (R/L), 1 x Audio-out			

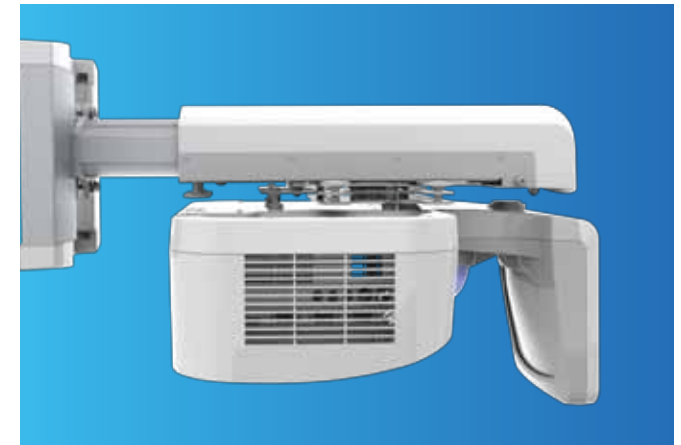


ULTRA SHORT THROW SOLUTION

With an ultra short throw as close as 57.3cm for an 87.2" whiteboard and a dedicated, fully adjustable all inclusive mount, that makes installation to a fixed, adjustable or mobile whiteboard or screen simple, the new U Series by NEC are the perfect solution for space conscious presentation environments. For Education customers this means, more versatility and effective use of classroom space, for Corporates it means 'ready to go' presentation in even the smallest meeting rooms.

With NEC UST Projectors presenter glare and shadow are all but eliminated, not only is this a great benefit for undisturbed presentation, but increasingly teacher glare is becoming regarded as 'recommended to avoid' by Education Authorities. In particular for younger education or special needs classes, the height adjustability means easy audience participation for infants and wheelchair users.

The NEC Mount NP01WK that is included with all U Series projectors has a universal fitting so it can be added to a NEC motorised adjustable wall mount or NEC manual adjustable wall mount, with up to 50cm height adjustment or alternatively can be attached to a NEC fixed mount. For more flexibility, the mount also fits universal whiteboard sizes.



U SERIES | DESIGN CONCEPT

Ultra Short Throw Convenience, Powerful Features, Versatility and Image Accuracy

An improved user experience is at the heart of the U Series design concept. Ultra Short Throw means convenient space saving and elimination of glare and shadow, but at the same time NEC U Series projectors offer brightness as high as 3100 ANSI Lumen and a contrast ratio of 2000:1, suitable for even larger meeting rooms and wide or standard formats compatible with all the latest media.

The ultra short throw ratio, advanced range of connectivity options, simple to use remote and automated set up features help deliver fast, accurate projection, that is available almost instantly so your presentations for the classroom or corporate meeting rooms are not delayed.

The DLP® Link Projection technology is ideal for longer projection periods with the BrilliantColor system delivering a wider range of accurate colours and importantly for the future, DLP® Link is 3D ready and with it's 120Hz refresh rate reproducing 3D content that can be viewed with NEC active shutter glasses.

Aside from being ideal for Education and Corporate markets, the space saving concept and heavier operating cycle make the U Series a good choice for rear projection Digital Signage applications in the retail sector and when installed with mobile trolleys can offer a 'presentation on the go' type solution bringing the presenter to small groups whatever the room size.

The NEC mount makes installation simple and 'easy access' lamp and filter make routine maintenance more convenient. Free tilting means that the projector be ceiling mounted or used from a table or side board. Additionally it also offers the possibility to do floor projections. Finally, NEC PC Control software means simplified scheduled network maintenance.



U SERIES ULTRA SHORT THROW
PROJECTOR WITH DEDICATED
MOUNT

ULTRA SHORT THROW PERFORMANCE

STYLE | AND UST PERFORMANCE

Comprehensive Ultra Short Throw Solution

The U Series offer all the benefits of popular ultra short throw presentation without compromising performance or features and all in a stylish and tidy cabinet and mounting solution with strong eco credentials.

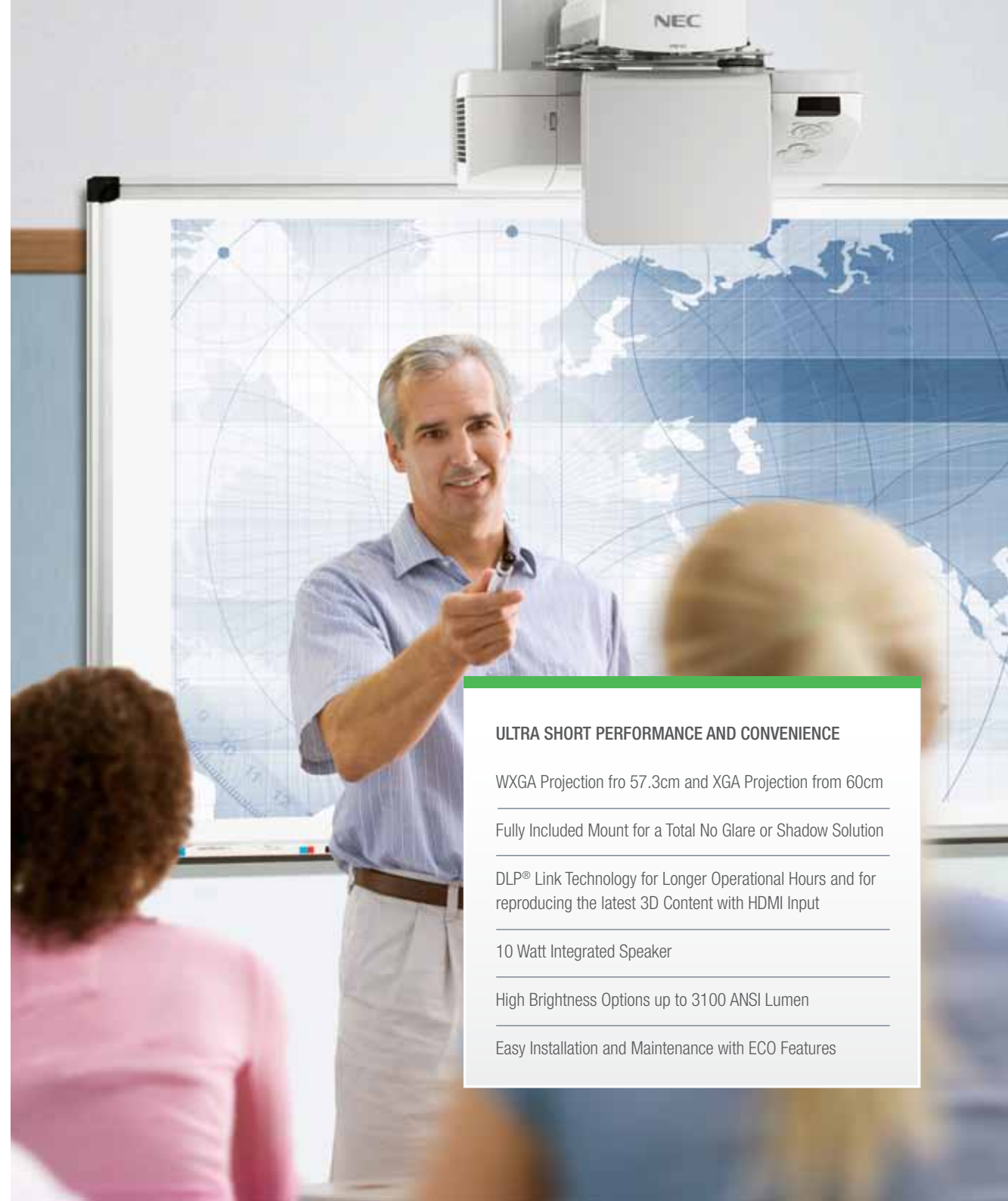
UNCOMPROMISING IMAGE QUALITY AND EFFICIENCY

The ultra short throw projection concept places the projector so close to the board that the path of the light from the lens to the image is guided so as not to cross the traditional space used by the teacher or presenter during presentation. This means that the presenter's shadow is not cast on the displayed image and the presenter is not also disturbed by the glare from the lens, which in traditional set ups is placed directly too his front.

Despite its efficient, space saving format, the U Series delivers uncompromising image quality with various automated or manual image adjustment and compensation features, advanced connectivity including HDMI and control by LAN, an integrated speaker and all housed in an attractive cabinet ideal for even the most stylish rooms. U Series projectors also feature a tidy cable management cover and a NEC dedicated matching arm mount.



THE EASY REMOVE SIDE COVER HIDES UNSIGHTLY CABLE CONNECTIONS



ULTRA SHORT PERFORMANCE AND CONVENIENCE

WXGA Projection fro 57.3cm and XGA Projection from 60cm

Fully Included Mount for a Total No Glare or Shadow Solution

DLP® Link Technology for Longer Operational Hours and for reproducing the latest 3D Content with HDMI Input

10 Watt Integrated Speaker

High Brightness Options up to 3100 ANSI Lumen

Easy Installation and Maintenance with ECO Features

U SERIES | ADVANCED FEATURES

3D READY DLP LINK PROJECTION

In education, 3D is emerging as an increasingly influential teaching format, breathing new life into an ageing curriculum and offering a glimpse of how 21st century education should be. 3D is perfect for a 10-15 minute hands on class break out where demonstrating cell division, the atom or a diaphragm moving, become a far more rewarding and informative experience. The U Series works with the popular Texas Instruments DLP® Link 3D projection technology and NEC active shutter glasses which are exchangeable between DLP® Link projectors.

U Series 3D projection is also ideal for corporate and engineering applications where modelling can bring concepts to life without the costs of tooling.



BRILLIANTCOLOR™ COLOUR ENHANCEMENT

The adjustable technology from Texas Instruments BrilliantColor™ provides advanced video processing delivering more vibrant and realistic colors and blacks richer with detail.

USER FRIENDLY IMAGE SETUP

Like most NEC Projectors, U Series models include a series of image set up functions, including automatic input source signal detection and image display, there are also options to easily adjust keystone via the remote control. Finer adjustments such as detailed color and signal settings are possible via the OSD.

INTUITIVE OSD WITH WORLDWIDE LANGUAGES

OSD adjustments include picture mode for switching between presentations/ movies video, wall colour compensation settings, brightness, contrast, sharpness, saturation and hue settings. Advanced colour adjustments include individual colours, colour spaces, gamma, BrilliantColor™ and colour temperature.

Adjustment between 4:3, 16:9 and native aspect ratios, overscan noise removal, horizontal and vertical image shift, vertical keystone correction and 3D settings. Finally various installation, signal, language, network, audio, security, lamp, power and 'ECO management' settings are adjustable via the OSD.

REMOTE DIAGNOSTICS AND CONTROL

CONTROL VIA THE NETWORK

The projectors can be directly controlled and supervised by a PC over LAN with PC control utility Pro. This makes it possible, for example, for centralised switching on and off, which is particularly advantageous when multiple devices have been installed. Maintenance of the devices can also be performed faster and with more precision, since status, running times, lamp lifetimes, use of filters etc. of the individual devices can be called up at any time.

An integrated scheduler and a warning-alert function facilitate the easy planning of projector service times. Input sources for any projectors on the network can also be changed remotely and controlled image adjustments can be made for projectors in remote or inaccessible mounting positions.

CONTROL VIA THE WEB

Any location remote management is also possible with the full PC Control system operational over the web. This is particularly useful where site maintenance is outsourced to third party maintainers or convenient maintenance is required where access to the local network is not possible

NEVER AGAIN WASTE TIME SEARCHING FOR YOUR REMOTE

Included with every U Series projector is a free Virtual Remote Software utility that means you can simply control your projector from your presentation device



The unique NEC Virtual Remote Software, supplied with all NEC U Series models, allows complete control of the projector via an on screen remote control console connected via VGA cable. Especially useful to the classroom environment where lost remote controls between class changes are common. Control your projector this way via VGA cable or network.

DIRECT POWER ON / OFF

A particular highlight when the projector is being used for portable applications is the quick start function of the U Series, which allows the projector to be fully operational in less than 20 seconds.

Once a presentation has been successfully made and the projector switched off, power can then also be immediately removed, no cooling down time is required. The quick start/quick power-off function allows instant shut down and packaging for redeployment.

ADVANCED SECURITY TO TRUST

Administrators keen to consider security of the projectors in the field, will value the security features included with the U Series such as Kensington Security Slot, logo capture function, password security system and password life timer.

U SERIES

EASY OPERATION REMOTE CONTROL



Included within the overall package is a remote control unit that allows you to easily and conveniently operate all the projector's functions and settings. Together with the optionally available mouse receiver, the remote control unit can also be used, as required, to perform all the functions of a computer mouse.

Instantly available selections on the remote include AV Mute that turns off or on the projector's audio and video and an eco mode button for reduced power projection.

Advanced settings are all available via the OSD Menu and there are also quick select options such as keystone correction, digital zoom and input source select.

EASY ACCESS FOCUS ADJUSTMENT

Accessed via a conveniently placed lever around the lens, focus adjustment is quick and simple. For U300X and U250X the projector will focus at distances from 133 to 320mm and for U310W and U260W the projector will focus at distances from 153mm to 319mm.

DIGITAL ZOOM FEATURE

Enlarge and close up on your images via the remote control with a 10 step digital zoom selector accessed directly from your remote.

10 WATT BUILT-IN SPEAKER

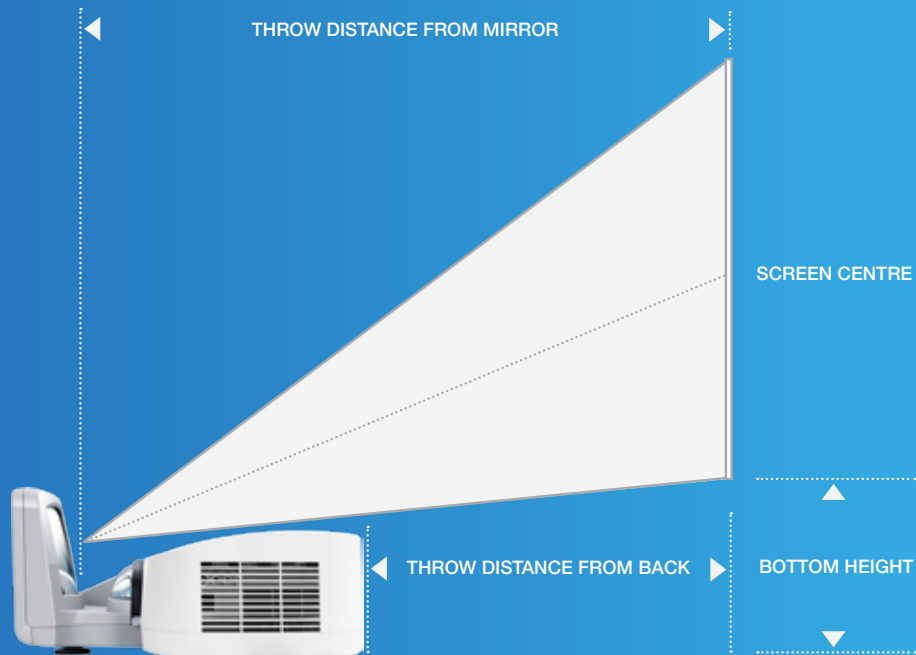


All U Series models include a powerful 10 Watt speaker, that provides ample volume for multimedia content in large classrooms and conference rooms.



SPACE SAVING INSTALLATION | EDUCATION OR BUSINESS

THROW	XGA MODELS			WXGA MODELS			
	SCREEN OR BOARD SIZE	DISTANCES MM BACK	DISTANCES MM MIRROR	DISTANCES MM BOTTOM	DISTANCES MM BACK	DISTANCES MM MIRROR	DISTANCES MM BOTTOM
77"	1956 MM	129.5	482.7	269	147.5	500.7	259
80"	2032 MM	145.5	498.7	277	168.5	521.7	269
85"	2159 MM	187.5	540.7	299	204.5	557.7	286
87.2"	2215 MM	229.5	582.7	320	219.5	572.7	293
90"	2286 MM	246.5	599.7	329	239.5	592.7	303
95"	2413 MM	271.5	624.7	341	275.5	628.7	320
100"	2540 MM	313.5	666.7	363	310.5	663.7	337



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HEIGHT ADJUSTABLE BOARDS

For education customers an optional height adjustable whiteboard is available to make the U Series perfect for infant or wheelchair user participation. Options available are both motorised and light weight manual with a total adjustment height as large as 50cm between raised and lowered positions.



MOBILE BOARD SOLUTIONS

Mounting the U Series on a mobile board solution means that you can roll in a total presentation solution to any room irrespective of space limitations, or simply place the projector on a desk or ceiling mount.

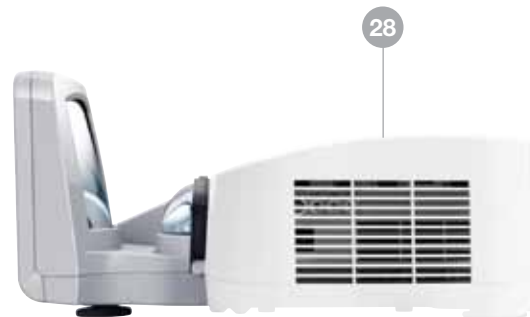
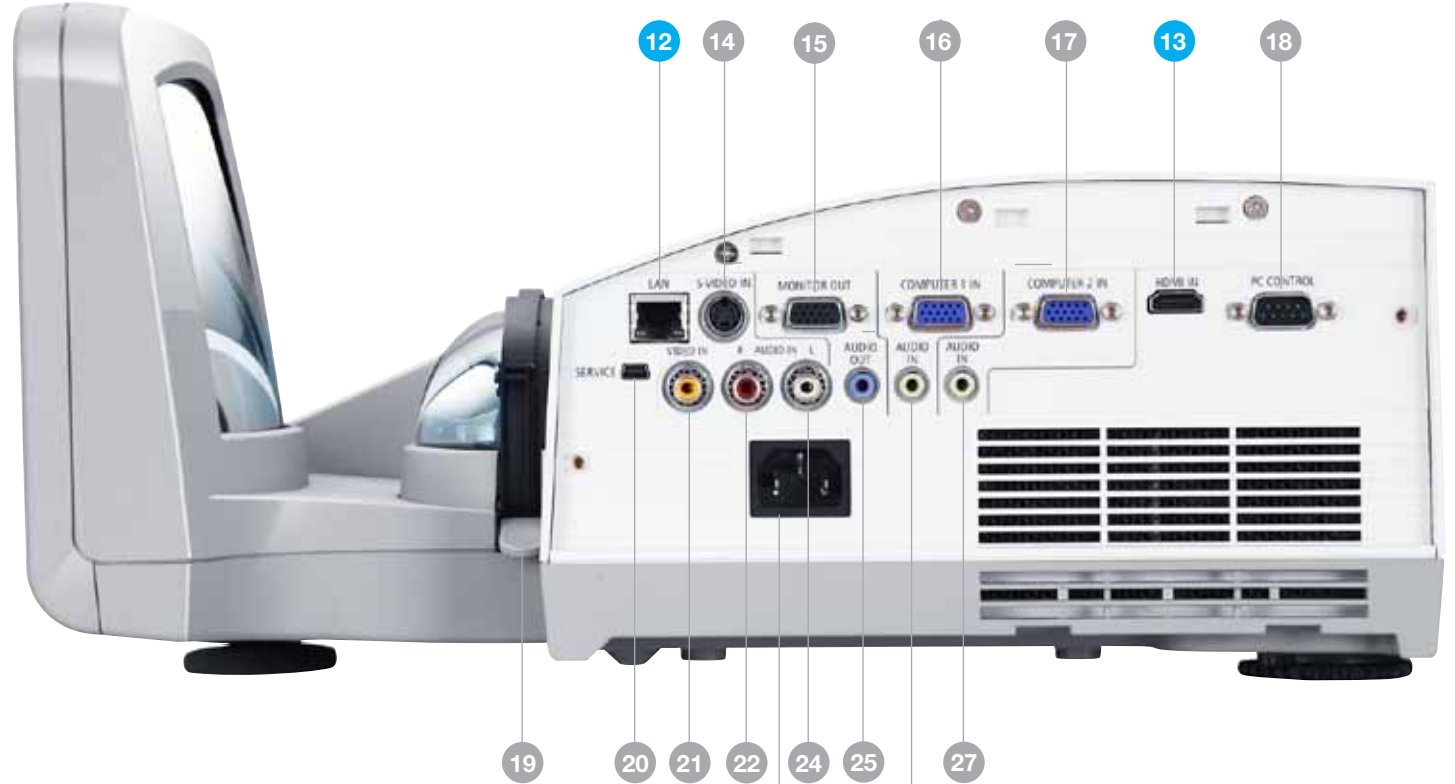
U SERIES USER CONTROLS



BUTTON DESIGNATIONS

1. INPUT SOURCE SELECT
2. DIRECT POWER ON / OFF
3. AUTO ADJUSTMENT
4. PROJECTOR STATUS LED
5. LAMP STATUS LED
6. KEYSTONE ADJUSTMENT
7. ENTER SELECT BUTTON
8. DECREASE VOLUME
9. INCREASE VOLUME
10. OPEN MENU
11. EXIT MENU

FUTURE READY CONNECTIVITY



HDMI[®]
HIGH DEFINITION MULTIMEDIA INTERFACE

CONNECTOR DESIGNATIONS

Enjoy peace of mind with all the latest connection terminals. NEC U Series projectors are designed with flexibility in mind whether you need to move the projector between different projection environments or change between projection sources.

Fitted with HDMI and RJ45 you can connect to most devices and play almost any content including the latest Blu-Ray movies or 3D content.

Networked content management is also simple with the included NEC PC Control Utility that allows the control of multiple projectors within a network or via a serial interface.

12. LAN CONNECTOR

An RJ45 port allows connection to a local area network or control of the projector via ethernet cable.

13. HDMI

HDMI is the high definition connection of the future, it supports, on a single cable, any uncompressed TV or PC video format, including standard, enhanced, and high-definition video; up to 8 channels of compressed or uncompressed digital audio; and a Consumer Electronics Control (CEC) connection.

HDMI cables allow longer distances between the host and the projector. For instance 15 metres is achievable which allows custom location of the projector and the laptop or other player in almost any location in a standard meeting room.

HDMI provides the advantage that multimedia sources such as DVDs, Blu-Ray disks, set-top boxes and games consoles can all be connected without loss of quality at source.

OTHER CONNECTORS

All U Series projectors also include the following additional connectors:

14. S-VIDEO IN
15. MONITOR OUT
16. COMPUTER 1 IN
17. COMPUTER 2 IN
18. PC CONTROL CONNECTOR
19. MANUAL FOCUS ADJUSTMENT
20. SERVICE CONNECTOR
21. VIDEO IN
22. AUDIO IN RIGHT CHANNEL
23. AC POWER IN
24. AUDIO IN LEFT CHANNEL
25. AUDIO OUT (ADJUSTABLE EXTERNAL SPEAKERS VIA REMOTE)
26. AUDIO IN FOR COMPUTER 1
27. AUDIO IN FOR COMPUTER 2
28. CABLE COVER
29. KENSINGTON SECURITY SLOT

**EASY ACCESS SERVICING**

Both the Filter and the lamp are easily accessible for quick replacement. The standard filter supplied can be exchanged for an optional filter that lasts 6000 hours.



GREEN VISION | ECOLOGICAL INITIATIVE

The award winning NEC 'Green Vision' initiative is our commitment to delivering better productivity, with increased sustainability, in terms of product performance and reduced impact on the environment. 'Green Vision' means continually striving for improvement and delivering ECO Solutions that are simple to operate, provide real savings to the user and the environment and do not compromise performance.

SAVING MONEY AND THE ENVIRONMENT

NEC U Series projectors have many energy saving features that together help you meet you ECO targets and reduce the associated total cost of ownership.

U SERIES ECO FEATURES

Extended lamp life with ECO Mode™ technology increases lamp life to up to 4000 hours, while lowering power consumption

Power management enables the projector to automatically turn off when an incoming signal is not detected from any of the inputs or at a set time entered into the OSD timer

Auto Power On, using the Direct Power On mode, turns on the projector when AC power is supplied

Quick start (20 seconds) lets you begin presenting in seconds while quick shutdown (immediate power off with no cooling required after shutdown) ensures efficient energy usage

U SERIES POWER USE (MODES)

U250X U300X	
Normal Power	300 Watts
EcoMode (1)	245 Watts
Standby	3 Watts (Network)/ 0.5 Watts Normal

U260W U310W	
Normal Power	360 Watts
EcoMode (1)	315 Watts
Standby	3 Watts (Network)/ 0.5 Watts Normal



U SERIES



Ultra Short Throw, DLP® Link,
3D Ready Projectors with Mount

LAMP CODE	COMPATIBLE MODELS
NP19LP	U250X U300X
NP20LP	U260W U310W

OPTIONS	DESCRIPTION
NP01MR	Mouse Receiver
NP01GL	3D Goggles
NP01FT	Optional Long Life Dust Filter
NP01HWM	Manual Height Adjustable Wall Mount
NP02HW	Motorised Height Adjustable Wall Mount
NP02HM	Mobile Motorized Wall Mount

HEIGHT ADJUSTABLE MOUNTING OPTIONS
(For Screens or Whiteboards up to 110")

MANUAL HEIGHT ADJUSTMENT SOLUTION
NP01HWM
(Manual Adjustment)

MOTORISED HEIGHT ADJUSTMENT SOLUTION
NP02HW
(Motorised Vertical Adjustment)

MOBILE MOUNTING OPTION
NP02HM
(Motorised Vertical Adjustment)



NP02HW
Excludes Bar Mount

NP02HM
Excludes Bar Mount

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U SERIES MODELS	U250X	U260W	U300X	U310W
Resolution	XGA	WXGA	XGA	WXGA
Brightness ANSI Lumen	2500	2600	3000	3100
Lamp Power	230W		280W	
Contrast Ratio	2000:1			
Lamp Hours Normal/ECO	2500 / 4000		2500 / 3000	
Projection Distance (cm)	13 - 32	15.3 - 32	13 - 32	15.3 - 32
Lens Zoom Throw Ratio	0.377:1	0.3:1	0.377:1	0.3:1
Noise Level (Normal/ ECO) dB	33/29		36/32	
Dedicated Mount	Yes			
Auto Vertical Keystone Adjustment	Yes			
HDMI Input	Yes			
RJ45 (CTL/JPEG)	Yes			
Component Input/Output	Yes			
Video/S-Video Input	Yes			
Audio Input/Output/Microphone	Yes			
Speaker	10 Watts Mono Internal			
Weight	6.5Kg			

ALL STANDARD AND SHORT THROW MODELS

Dimensions	427 x 200 x 406 (without mount, lens and feet)
Supported Resolutions	VGA; SVGA; XGA; WXGA; SXGA; SXGA+; UXGA
Horizontal Frequency	15–91.1 kHz (RGB: 31.35 kHz– 91.1 kHz); Vertical: 50 –85 Hz (120 Hz: Only for 3D signal)
Video Signals	PAL; PAL60; NTSC; SECAM; NTSC 4.43; PAL-N; PAL-M
Speakers	1 x 10 Watts (Mono) Internal
Remote Control	Source Select; Keystone Correction; Aspect Ratio; Mute-function; Volume; Picture Adjust; Menu; Power (ON-OFF); Freeze; Help Eco Mode; Digital Zoom; Presentation and Mouse Control; AV Mute; ID set
Connectors	RGB IN 2 x Mini D-sub 15-pin, compatible to component (YPbPr); RGB OUT: 1 x Mini D-sub 15 pin, VIDEO: 1 x RCA, HDMI: 1x HDMI® (Deep Color, Lip sync), S-VIDEO: 1 x Mini DIN 4-pin, AUDIO: Input, 2 x 3.5 mm Stereo Mini Jack; Input: 1 x RCA Stereo for Video and S-Video; Output: 1 x 3.5 mm Stereo Mini Jack, PC CONTROL: Input: 1 x D-Sub 9 pin (RS-232) (male), LAN: 1 x RJ45
Power Requirements	100-240 V AC; 50 - 60 Hz
Environmental	Operating Temperature [5 to 35°C]; Operating Humidity [20 to 80%]; Storage Temperature [-10 to 50°C]; Storage Humidity [20 to 80%]
Safety and Ergonomics	CE; TÜV GS; ERP; RoHS;
Warranty	PROJECTOR: 3 Years pan-European Service, LAMP: 6 Months; 1000 Hours
Optional Accessories	Lamp (see lamp guide); Motorized Height Adjustable Wall Mount NP02HW; Mobile Motorized Wall Mount NP02HM; Manual Height Adjustable Wall Mount NP01HWM
In the Box	IR Remote Control with Batteries; Power Cord (3 m); VGA cable (3 m); Wall-mount kit

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