

Orchestrating a brighter world

**NEC**

The premium filter-free LCD laser-based projector with good usability and high efficiency

**P525UL / P525WL**



**MultiPresenter**

**4HDBT™**  
ASE

**HDMI®**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

# Excellent-quality images from a compact LCD laser-based projector with easy, quiet running and low-maintenance operation for education and corporate use

## High Brightness of 5,000 lm (5,200 centre lm)\* LCD Laser Projector with 4K Input Support

\* Measured at centre area of projector screen

### High Resolution and High Quality Picture of WUXGA (1,920×1,200)\*

This projector can maintain stable picture quality through NEC's original light source architecture and achieve high contrast of 500,000:1. \* P525UL

### Support for 4K Input

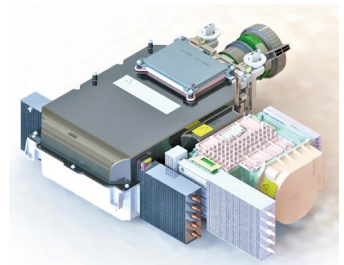
This is the first NEC projector in the 5,000 lumens class to support 4K at 30 Hz signal input (Supports: HDMI1, HDMI2 and HDBaseT).

### A Long-life Laser Diode is Provided in the Light Module

The product can be operated at low cost because the laser light source can be used for a long time (20,000 hours) without requiring replacement or maintenance. (ECO MODE [OFF])

### Filter-free Structure with NEC's Original Circulation System

The proprietary sealed structure achieves highly dust-proof performance. We provided effective cooling by adding NEC's unique jet impingement cooling method. Due to its excellent dust-proof performance, the projector is not equipped with a filter. Filter replacement is therefore unnecessary. Our new laser-based LCD projector takes low-maintenance operation to a new level. No required filter-cleaning means a better TCO.



### Self Colour Correction

According as used hours to compensate for a natural colour shift that occurs with age and adjust to natural and suitable colour automatically.

## Multiple Input Terminals for HDMI and HDBaseT

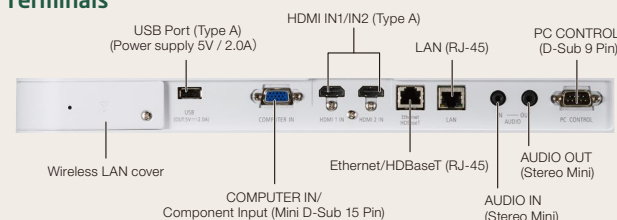
### Wide Range of Input Terminals (HDMI×2, HDBaseT, etc.)

The projector is equipped with a variety of input terminals: HDMI (× 2), computer (analogue), HDBaseT, etc. The HDMI input terminals on this product support HDCP.

### Built-in HDBaseT Support

Simplify your installations with HDBaseT, which is optimised for video applications and supports uncompressed full HD digital video, audio, Ethernet, power and control signals.

### Terminals



## Promote Ecology & Quietness and Reduce Total Cost of Ownership (TCO)

### Brightness can be Adjusted Over a Wide Range

NEC's unique optical layout delivers high reliability and responsiveness. Unlike with ordinary light sources, the brightness can be adjusted from 30 to 100% in 1% increments. Brightness normally decreases with use, but by selecting constant brightness mode, the projector automatically controls the output from the light module according to the light module usage time to maintain constant brightness.

### Silent Design Utilizing a Sealed Structure

The silent design provided excellent quietness of 24 dB in ECO MODE [OFF] and 22 dB in ECO MODE [ECO] even in a quiet conference room or classroom because there is no irritating fan noise. The circulating cooling system not only improves dustproofing but also reduces fan noise for the LCD panel.

### Energy-saving Design for Low Power Consumption

This projector achieves a big reduction in power consumption. A new light-source optical system results in a highly efficient optical system. The

projector is equipped with a "LIGHT MODE" to reduce power consumption during use. Furthermore, when the [ECO OFF], [ECO] or [LONG LIFE] option is on, the power-saving effect is converted into the amount of reduction of CO<sub>2</sub> emissions, and this amount is listed in the confirmation message displayed when the power is turned off and under [INFORMATION] on the on-screen menu (Carbon Meter).

Menu	Voltage	Wattage
ECO MODE [OFF]	100 – 130 V AC	330 W
	200 – 240 V AC	320 W
ECO MODE [ECO]	100 – 130 V AC	240 W
	200 – 240 V AC	238 W
STANDBY MODE [NORMAL]	100 – 130 V AC	0.13 W
	200 – 240 V AC	0.19 W
STANDBY MODE [NETWORK STANDBY]	100 – 130 V AC	0.14 W
	200 – 240 V AC	0.16 W

## Advanced Networking Capabilities

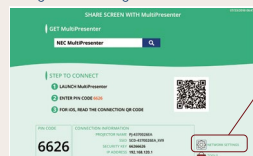
### Easily Connect with Smart Devices by Installing the MultiPresenter Receiver Function

This projector is compatible with the NEC MultiPresenter application, so multi-screen projection is possible via the network (wired LAN / wireless LAN). The design of the menu of the "Intelligent connection" operation screen is improved, and the customer can change the wall-paper of stand-by screen. The customer can set various settings of network function on this menu.

#### Multi-screen Projection Function<sup>\*1</sup>

The multi-screen projection function allows for the sharing of screens of multiple devices on various split-screen displays via a wireless or wired LAN. Display information from up to 50<sup>2</sup> PCs, tablet PCs, smart phones, and other network connected devices on a multi-screen display of up to 16 screens. Easily share screens and information regardless of device or operating system.

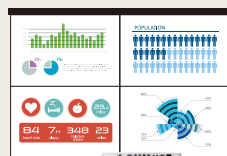
##### Intelligent connecting view



##### Network setting menu



Projection of materials of attendees on a multi-screen display. Input a 4-digit number (PIN code) for a network connection.



**MultiPresenter**

<sup>\*1</sup>: Requires the optional wireless LAN module for wireless connection. PCs, smart phones and tablets require the download and installation of our MultiPresenter software.

<sup>\*2</sup>: The connection of 50 devices to the network requires construction of a wireless LAN environment, such as the use of a separate access point.

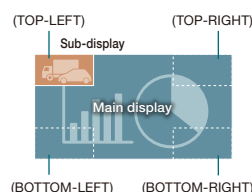


### Simultaneous Display of two Images (PIP = Picture-in-picture)

With this projector, it is possible to project two images with a single projector by displaying a small sub-display within the main display. The sub-display display position can be changed and the main display and sub-display images can be swapped. Furthermore, this projector can provide a new function that can project the input signal of the MultiPresenter and other input signals at the same time by using the PIP function.

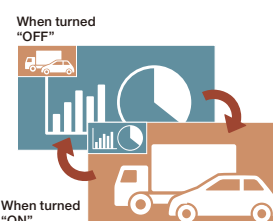
#### SUB INPUT POSITION

Select the display position of the sub-screen from 4 locations.



#### PICTURE SWAP

The videos in the main display and sub-display will be switched.



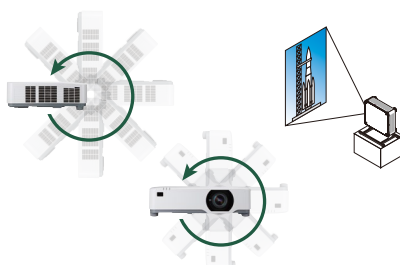
Main Display		Sub-display					
		HDMI 1	HDMI 2	HDBaseT	COMPUTER	LAN	USB-A
	HDMI 1	No	No	No	Yes	No	No
	HDMI 2	No	No	No	Yes	No	No
	HDBaseT	No	No	No	Yes	No	No
	COMPUTER	Yes	Yes	Yes	Yes	No	No
	LAN	Yes	Yes	Yes	Yes	Yes	No
	USB-A	No	No	No	No	No	No

The main display and sub-display can provide the following input terminals.

## Pre-eminent Functions and Features

### Highly Flexible Installation Options with 360° Positioning in any Direction

This projector can be installed universally at any angle. Tilt-free, roll-free and portrait installations are supported. The projector can be rotated freely (360°) to point up or down depending on the installation requirements and can be rotated and installed on its side to create a portrait image.



### Seamless Switch Function for Smoother Screen Changes when Switching the Signal

When the input source is switched, the image displayed before switching is held so that the new image can be switched to without a break due to absence of a signal.

### 20 W Built-in Speaker

The powerful 20 watt speaker provides the volume need for large rooms.

## Other Useful Functions and Features

- [VIEWER] function to project still images saved on USB storage
- Compatible with wired LAN / wireless LAN (option)
- Quick power on, Quick power off supported
- Quick start and Direct power-off / Quick power off
- Provide 2.0 A USB current for third-party wireless dongles
- Keystone correction  
+/- 30 degree Horizontal / Vertical keystone, Cornerstone, Pincushion correction supported
- Easy to upgrade from past models such as the NP3150 series, PA series and P series
- PIN security / Control panel lock / Security bar / Security slot
- Virtual remote tool
- Wall colour correction
- DICOM simulation

**P525UL**

5,000 lumens  
5,200 centre lumens\*

WUXGA

9.7 kg

**P525WL**

5,000 lumens  
5,200 centre lumens\*

WXGA

9.7 kg

\*Measured at centre area of projector screen

#### Network Control

- NaViSet Administrator 2
- PC control
- Alert mail
- CRESTRON ROOMVIEW with emergency function and Extron XTP compatibility
- AMX BEACON
- PJLink
- HTTP server (projector adjustment)



**NaViSet**  
Administrator 2



## Specifications

Model		NP-P525UL	NP-P525WL
Method		Three primary colour liquid crystal shutter projection	
Specifications of main parts			
Liquid crystal panel	Size	0.64 inch LCD with MLA×3 (aspect ratio: 16:10)	
	Pixels <sup>*1</sup>	2,304,000 (1,920 dots×1,200 lines)	1,024,000 (1,280 dots×800 lines)
Projection lenses	Zoom	Manual	
	Focus	Manual	
	Zoom ratio	1.6	
	Throw ratio	1.23 to 2.0	
	F-number/focal length	F = 1.5 to 2.1 f = 17.2 mm ~ 27.6 mm	
Light Source	Light source (laser diode) life <sup>*2</sup>	Blue Laser Diode	
	Optical unit	20,000H	
Light output <sup>*3,4</sup>	ECO MODE [OFF]	Integrator, Dichroic Mirror, XDP	
	ECO MODE [ECO]	5,000 lumens (5,200 centre lumens) <sup>*5</sup>	
	ECO MODE [LONG LIFE]	Approx. 60%	
Contrast ratio <sup>*4</sup> (all white/all black)		Approx. 50%	
		500,000 : 1 with Light Adjust	
Image Size		30 to 300 inches	
Colour Reproduction		10-bit signal processing, 1.07 billion colours (Viewer, Network, 16.7million colours)	
Quietness (ECO MODE [OFF] / ECO MODE [ECO])		24 dB / 22 dB	
Synchronization range	Horizontal	15 to 100 kHz (RGB: 24 kHz or over)	
	Vertical	50 to 120 Hz	
Max. display resolution (horizontal×vertical)		Up to 4K@30 Hz (3,840×2,160) with Advanced AccuBlend, Pixel clock frequency: less than 300 MHz (HDBaseT: 300 MHz)	
Keystone	Horizontal	Manual, Approx. ± 30 Max degrees	
Correction	Vertical	Manual, Approx. ± 30 Max degrees	
Input/output connectors			
Computer / Component	Video input	Mini D-Sub 15-pin×1	
	Audio input	Stereo mini jack×1 (for Computer and Video)	
	Audio output	Stereo mini jack×1 (Selected from: Computer/Video/HDMI)	
HDMI	Video input	Type A HDMI connector×2	
	Audio input	Yes	
HDBaseT / Ethernet Port	Video input	RJ45 × 1, 100BASE-TX / HDBaseT, Lip Sync Deep Colour, Colourimetry Support: RGB, YCbCr444, YCbCr422	
	Audio input	Yes	
PC control connector		D-Sub 9-pin×1 (4800/9600/19200/38400bps)	
USB port		USB type A×1 for USB (5.0 V/2.0 A power supply)	
Ethernet/LAN		RJ-45×1	
Wireless LAN Port (Optional)		USB×1	
Built-in speaker		20 W×1	
Usage environment		Operating temperature: 5 to 40°C <sup>*6</sup> , Operating humidity: 20 to 80% (with no condensation)	
		Storage temperature: -10 to 50°C, Storage humidity: 20 to 80% (with no condensation)	
		Operating altitude: 0 to 2,600 m (1,600 to 2,600 m: Set [FAN MODE] to [HIGH ALTITUDE])	
Power supply		100 - 240 V AC, 50/60 Hz	
Power consumption	ECO MODE [OFF]	330 W (100 - 130 V) / 320 W (200 - 240 V)	320 W (100 - 130 V) / 312 W (200 - 240 V)
	ECO MODE [ECO]	240 W (100 - 130 V) / 238 W (200 - 240 V)	232 W (100 - 130 V) / 230 W (200 - 240 V)
	ECO MODE [LONG LIFE]	242 W (100 - 130 V) / 240 W (200 - 240 V)	234 W (100 - 130 V) / 232 W (200 - 240 V)
	NETWORK STANDBY	1.4 W (100 - 130 V) / 1.6 W (200 - 240 V)	
	STANDBY <sup>*7</sup>	0.13 W (100 - 130 V) / 0.19 W (200 - 240 V)	
Rated input current		5.1 A - 2.1 A	5.0 A - 2.1 A
Dimensions (W×H×D)		480×122×407 mm (Net dimensions, not including protruding parts), 591×259×491 mm (Gross dimensions)	
Weight		9.7 kg (Net weight), 12.8 kg (Gross weight, with box)	

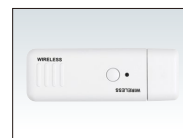
\*1: Effective pixels are more than 99.99%. \*2: Time at which the laser light source is at half brightness; not a guarantee time. \*3: This is the light output value (lumens) when [ECO MODE] is set to [OFF] and [PRESET] is set to [HIGH-BRIGHT]. The brightness decreases when [ECO MODE] is set to [ECO] or [LONG LIFE] ([ECO]: About 60%, [LONG LIFE]: About 50%). If any other mode is selected as the [PRESET] mode, the light output value may drop slightly. \*4: Compliant with ISO21118-2012. \*5: Measured at centre area of projector screen. \*6: 35 to 40°C - "Forced eco mode". \*7: Value as measured by NEC. All wired network ports are connected and active.  
• These specifications and the product's design are subject to change without notice.

## Remote control



(included accessory)

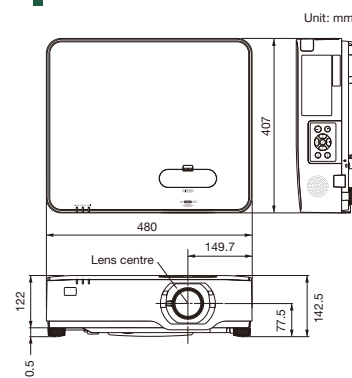
## Options



Wireless LAN unit  
**NP05LM1-5\***  
Allows you to transmit data wirelessly over your network when you insert it into the USB (Wireless LAN) port.

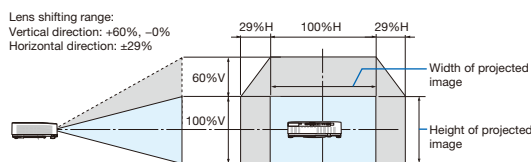
\*The last digit may vary depending on the country of destination.

## Cabinet dimensions



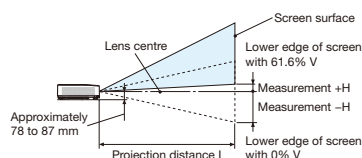
## Lens shift range

Lens shift mechanism for adjusting the position of the projected image easily



Legend: V "Vertical" refers to the screen height and H "Horizontal" refers to the screen width. The lens shift range is expressed as a ratio of height and width, respectively.

## Throw distance and screen size



Screen size	Screen width (cm)	Screen height (cm)	Throw distance L (cm)		Height H (cm)	
			Wide	Tale	0% V - 60% V	
30"	64.6	40.4	76.5	125.8	-20.2	4.0
40"	86.2	53.8	103.1	168.9	-26.9	5.4
60"	129.2	80.8	156.4	255.0	-40.4	8.1
80"	172.3	107.7	209.8	341.1	-53.8	10.8
90"	193.9	121.2	236.4	384.2	-60.6	12.1
100"	215.4	134.6	263.1	427.3	-67.3	13.5
120"	258.5	161.5	316.4	513.4	-80.8	16.2
150"	323.1	201.9	396.4	642.6	-101.0	20.2
180"	387.7	242.3	476.4	771.8	-121.2	24.2
200"	430.8	269.2	529.7	857.9	-134.6	26.9
240"	516.9	323.1	636.4	1030.1	-161.5	32.3
270"	581.6	363.5	716.4	1159.3	-181.7	36.3
300"	646.2	403.9	796.4	1288.5	-201.9	40.4

\*Stated throw distances are standard values.  
\*The values in the tables are design values and may vary.



- This product is classified as Class 1 of IEC 60825-1 Third edition 2014-05 and RG2 of IEC 62471-5 First edition 2015-06. The laser module is equipped in this product. DO NOT STARE INTO THE LENS WHILE IN USE
- The projector can be unplugged during its cool down period after it is turned off. Parts of the projector will become heated during operation. Use caution when picking up the projector immediately after it has been operating.
- Use caution when putting the projector in the soft case immediately after the projector has been operating. The projector cabinet is hot.

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