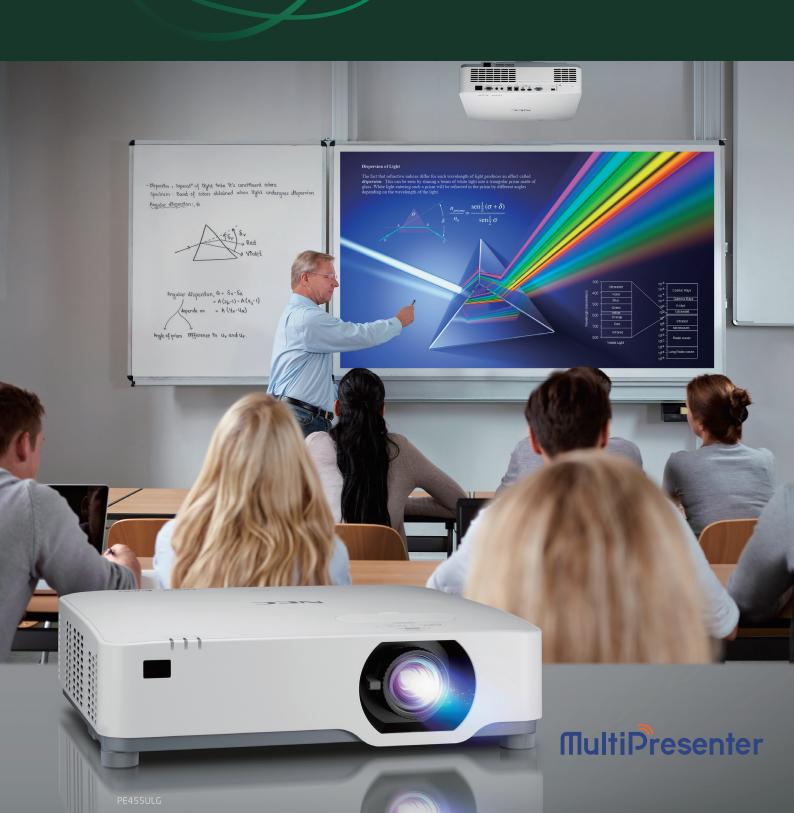


A high-quality filter-free LCD laser-phosphor projector with excellent quietness

PE455ULG / PE455WLG / PE505XLG



Enjoy peace of mind with high dustproof performance and broad connectivity, whilist enjoying impressive images and quietness.

Versatile, maintenance-free, entry-level installation projectors with excellent quietness

Filter-free Structure with NEC's Original Cooling System

High dustproof performance is achieved by NEC's proprietary sealed jet impingement cooling structure. Due to its excellent dustproof performance,

this projector does not have the cumbersome filters that ordinary LCD projectors require. The new laser-based LCD projector offers better TCO (total cost of ownership) with less maintenance.



NEC s Unique Sealed LCD Panel Cooling System

Super Silent Design Utilising a Sealed Structure

The unique cooling system not only improves the dustproof performance but also reduces the noise of the fan. This quiet design achieves excellent quietness of 22 dB in ECO mode. Even in a very quiet meeting room or classroom, the presence of the projector is not felt.

Comfortable quietness! 22 dB



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

Advanced laser technology delivers a reliable light source up to 20,000 hours.

Self Colour Correction

This function compensates for the natural colour shift that occurs with age and adjusts to natural and suitable colours automatically according to the number of hours used.

Maintains the Set Brightness for a Long Time

The projector is equipped with a "constant brightness mode" that detects changes in brightness due to aging and automatically adjusts the output to keep the brightness constant. This makes it possible to project with stable brightness for a long time.

Advanced Installation Functions and Connectivity

Lens Shift

Lens shift provides greater flexibility when determining the installation location.



Tilt-free

The projector can be rotated freely (360°) to orient the image depending on the installation requirements.



Portrait mode

Allows the projector to be rotated (and screen if necessary) to a vertical alignment so that portrait content can be viewed without black bars on the sides when landscape mode is used.

Support for 4K Input

The built-in HDMI input terminal supports up to 4K video for display of ultrahigh resolution video.

Dual HDMI Inputs

The wide selection of inputs includes HDMI with HDCP for connecting to high-definition sources such as Blu-ray players, cable boxes, satellite receivers and personal computers.

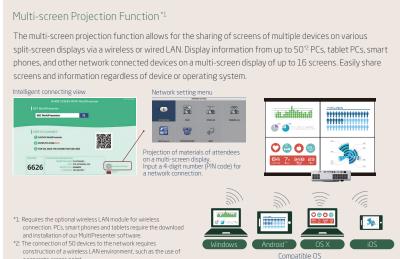
Advanced Networking Capabilities

MultiPresenter

This projector is compatible with the NEC MultiPresenter application, so multi-screen projection is possible via the network (wired LAN / wireless LAN). Ideal for effortlessly sharing content in corporate meeting rooms or classrooms

MultiPresenter





Other Useful Functions and Features

16 Watt Built-in Speaker

The powerful 16-watt speaker provides sufficient volume in classrooms and meeting rooms.

- [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
- Provides 2.0 A USB current for third-party wireless dongles
- Keystone correction
- +/-30 degree Horizontal / Vertical keystone, Cornerstone, Pincushion correction supported
- PIN security/Control panel lock/Security bar/Security slot
- Virtual remote tool
- Wall colour correction
- DICOM simulation

Seamless Switching Function for Smoother Image Change

When the input signal is switched, the image displayed before switching is retained so that the new image can be displayed without a break.

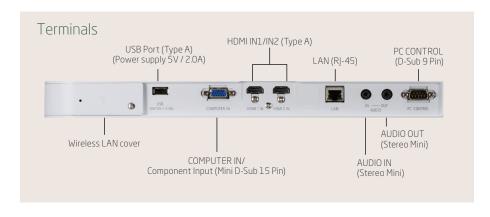
Network Control

- NaViSet Administrator 2
- PC control

a separate access point.

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





PE455ULG $9.4 \, \text{kg}$ 4,500 lumens WUXGA PE455WLG WXGA 4,500 lumens 9.3 kgPE505XLG 5,000 lumens XGA $9.3 \, kg$

Specifications

Model		NP-PE455ULG	NP-PE455WLG	NP-PE505XLG	
Method		Three primary colour liquid crystal shutter projection			
Specifications of ma	in parts				
Liquid crystal	Size	0.64 inch l	.CD with MLA×3	0.63 inch LCD with MLA×3	
panel	Pixels*1	2,304,000 (1,920 dots × 1200 lines)	1,024,000 (1,280 dots × 800 lines)	786,432 (1,024 dots × 768 lines)	
	Zoom	Manual			
Projection lenses	Focus	Manual			
	Zoom ratio	1.6	1	7	
	Throw ratio	1.2 to 2.0	1.2 to 2.1	1.3 to 2.2	
	F-number/focal length	F= 1.5 to 2.1 f= 17.2 mm to 27.6 mm	F= 1.7 to 2.2 f= 1	7.4 mm to 29.0 mm	
	Lens shifting	Manual (H=+/-29% / V= 0% to +60%)	Manual (H = +/-26% / V = 0% to +55%)		
Light source		Blue Laser diode			
Light source (laser diode) life *2		20.000H			
Optical unit	diode/ inc	Integrator, dichroic mirror, XDP			
Optical anit	ECO MODE [OFF]	4.500 lm 5.000 lm			
Light output*3*4	ECO MODE [ECO]	Approx. 60%	Approx. 67%	Approx. 60%	
rigiit output	ECO MODE [LONG LIFE]	Approx. 50%	Approx. 56%	Approx. 50% Approx. 50%	
Contrast ratio *4 (all v				500,000 : 1 with Light Adjust	
	Willer all Diack)	450,000 : 1 with Light Adjust 500,000 : 1 with Light Adjust			
Image size					
Colour reproduction Quietness (ECO MODE [ECO] / ECO MODE [OFF])		10-bit signal processing, 1.07 billion colours (Viewer, Network, 16.7 million colours)			
		22 dB / 24 dB to 27 dB (high bright)			
Synchronisation	Horizontal		15 to 100 kHz (RGB: 24 kHz or over)		
range	Vertical	50 to 120 Hz			
Max. display resolution (horizontal×vertical)		Up to 4K@30 Hz (3,840 x 2,160) with Advanced AccuBlend, Pixel clock frequency: less than 300 MHz			
Keystone Horizontal		Manual, approx. ± 30 degrees max.			
correction	Vertical		Manual, approx. ± 30 degrees max.		
Input/output conne	ctors				
	Video input	Mini D-Sub 15-pin×1			
Computer/ component	Audio input	Stereo mini jack×1			
	Audio output	Stereo mini jack×1 Stereo mini jack×1 (Selected from: Computer / HDMI / LAN)			
HDMI	Video input	Type A HDMI connector × 2			
	Audio input	Yes			
PC control connector		D-Sub 9-pin×1 (4800/9600/19200/38400 bps)			
USB port		USB type A×1 for USB (5.0 V/2.0 A power supply)			
Ethernet/LAN		R -45×1			
	(Ontional)	USB×1			
Wireless LAN Port (Optional) Built-in speaker		16 W × 1			
Usage environment Power supply		Operating temperature: 5 to 40°C '5, 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 ALUTITUDE])			
		100 – 240 V AC, 50/60 Hz			
ower suppry	ECO MODE [OFF]	215 W (100+a 120 V)		30E \-//100+o 130 \/\)	
Power consumption		316 W (100 to 130 V)	279 W (100 to 130 V)	305 W (100 to 130 V)	
	ECO MODE [ECO]	308 W (200 to 240 V)	276 W (200 to 240 V)	298 W (200 to 240 V)	
		226 W (100 to 130 V)	216 W (100 to 130 V)	217 W (100 to 130 V)	
	CCO MODE II ONE LICES	222 W (200 to 240 V)	215 W (200 to 240 V)	215 W (200 to 240 V)	
	ECO MODE [LONG LIFE]	203 W (100 to 130 V)	191 W (100 to 130 V)	191 W (100 to 130 V)	
	NET IODICETALIST:	201 W (200 to 240 V)	191 W (200 to 240 V)	189 W (200 to 240 V)	
	NETWORK STANDBY	1.6 W (100 to 130 V) / 1.8 W (200 to 240 V)			
STANDBY *6		0.13 W (100 to 130 V) / 0.19 W (200 to 240 V)			
Rated input current		4.9 A to 2.0 A	4.5 A to 1.8 A	4.8 A to 2.0 A	
Dimensions (W×H×D)		`	s, not including protruding parts), 591	.×259×491 mm (Gross dimensions)	
Weight (Net weight / gross weight)		9.4 kg / 12.5 kg			
		515 110 121 110			

*1: Effective pixels are more than 99.99%. *2: Time at which the laser light source is at half brightness; not a guaranteed 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: Compilant with ISO21118-2012.

*5: 35 to 40°C- "Forced eco mode". *6: 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

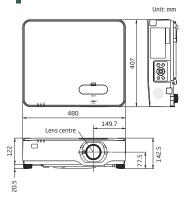
Wireless LAN unit NP05LM1-5*

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



Screen surface

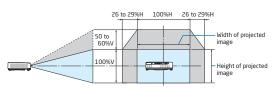
Measurement -H

Lower edge of screen with 60% V(UL), 55% V(WL), 50% V(XL)

Lens shift range

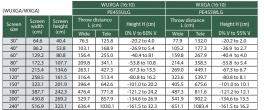
Lens shift mechanism for adjusting the position of the projected image easily

Lens shifting range: Vertical direction: % to +60% (PE455ULG), 0% to 55% (PE455WLG), 0% to 50% (PE505XLG) horizontal direction: ±25% (PE455ULG), ±26% (PE455WLG), ±26% (PE505XLG)



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



* Stated throw distances are standard values.	s. * The values in the tables are design values and may	y 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. This product is equipped with a laser module. 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.

MultiPresenter, NaViSet and Virtual Remote are trademarks or registered trademarks of NEC Display Solutions, Ltd. in Japan and other countries.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries CRESTRON and CRESTRON ROOMVIEW are trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and other countries.

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

PJLink trademark and logo are trademarks applied for registration or are already registered in Japan, the United States of America and other countries and areas. AMX is a trademark or registered trademark of AMX LLC in the United States and other countries.

Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

Android is a trademark of Google LLC. OS X is a registered trademark of Apple, Inc. registered in the United States and other countries.

iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under licence. Blu-ray is a trademark of the Blu-ray Disc Association.

All other brand or product names are trademarks or registered trademarks of their respective holders. The images in this brochure are samples.

All specifications are subject to change without notice. August 2019 ©2019 NEC Display Solutions, Ltd.

NEC Display Solutions, Ltd.

Lens centre

kimately Approximate 78 to 87 mm