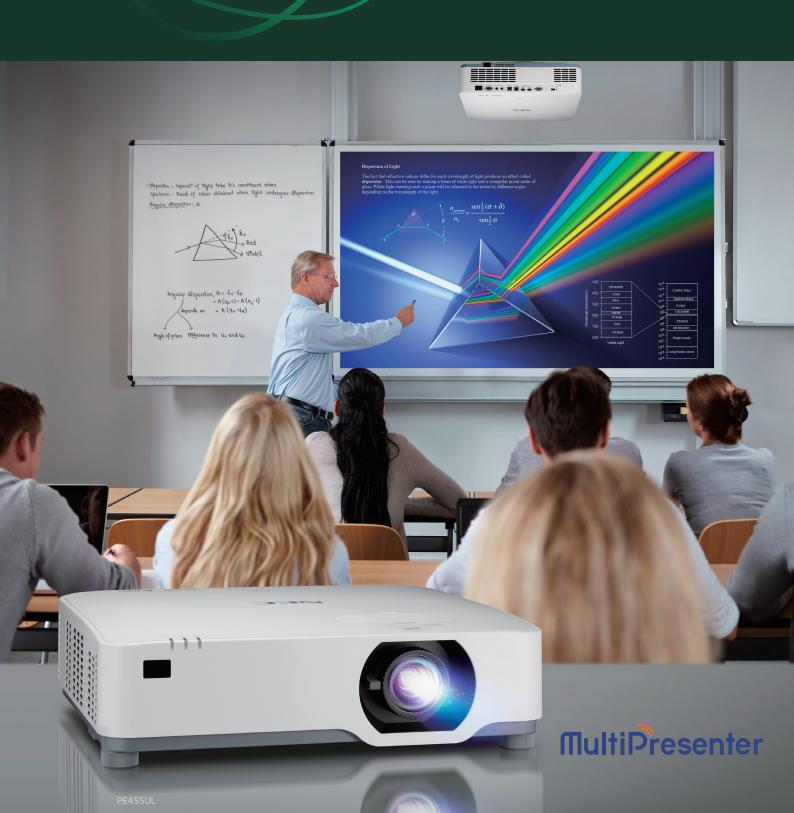


A high-quality filter-free LCD laser-phosphor projector with excellent quietness

PE455UL / PE455WL / PE505XL



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.

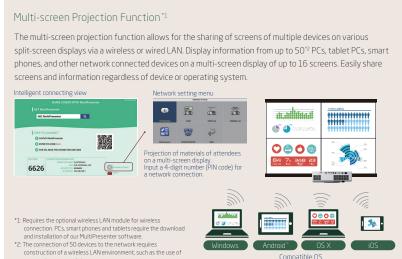
Advanced Networking Capabilities

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







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

Compatible OS

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

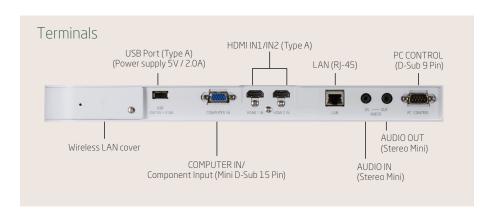
Network Control

- 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)





PE455UL $9.4 \, kg$ 4,500 lumens WUXGA PE455WL WXGA 4,500 lumens 9.3 kgPE505XL 5,000 lumens XGA $9.3 \, kg$

Specifications

Model		NP-PE455UL NP-PE455WL NP-PE505XL						
Method		Three primary colour liquid crystal shutter projection						
Specifications of ma	nin parts	Times primary colour inquise stysical shorter projection						
Liquid crystal	Size	0.64 inch LCD 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						
	Focus	Manual						
	Zoom ratio	1.6		.7				
Projection lenses	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= 17.4 mm to 29.0 mm					
	Lens shifting	Manual (H= +/-29% / V= 0% to +60%)	Manual (H=+/-26% / V= 0% to +55%) Manual (H=+/-28% / V= 0% to +50%					
Light source	- CC113 31111 C1116	Blue Laser diode						
Light source (laser	r diodo) lifo *2		20.000H					
Optical unit	diode/ iiie		Integrator, dichroic mirror, XDP					
Optical unit	ECO MODE (OFF)	150	00 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. 50%	Approx. 56%	Approx. 50%				
Contrast ratio *4 (all v								
	wnite/all black)	450,000 : 1 wi	tn Light Adjust 25 to 300 inches	500,000 : 1 with Light Adjust				
Image size		10 hit si l		-l. 16.7 :ll:l\				
Colour reproduction		10-bit signal processing, 1.07 billion colours (Viewer, Network, 16.7 million colours)						
	[ECO] / ECO MODE [OFF])	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	1 12	Manual, approx. ± 30 degrees max.	IZ				
correction	Vertical	Manual, approx. ± 30 degrees max. Manual, approx. ± 30 degrees max.						
Input/output connectors			Haridal, approx. ± 50 degrees max.					
Video input		Mini D-Sub 15-pin×1						
Computer/	Audio input	Mini D-Sub 15-pin×1 Stereo mini iack×1						
component	Audio iliput Audio output							
	Video input	Stereo mini jack × 1 (Selected from: Computer / HDMI / LAN)						
HDMI		Type A HDMI connector×2						
25	Audio input	Yes D-Sub 9-pin×1 (4800/9600/19200/38400 bps)						
PC control connect	tor	USB type A×1 for USB (5.0 V/2.0 A power supply)						
USB port								
Ethernet/LAN		RJ-45×1						
Wireless LAN Port	(Optional)	USB×1						
Built-in speaker		16 W × 1						
		Operating temperature: 5 to 40°C °5, Operating humidity: 20 to 80% (with no condensation)						
Usage environment		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])						
Power supply			100 – 240 V AC, 50/60 Hz					
	ECO MODE [OFF]	316 W (100 to 130 V)	279 W (100 to 130 V)	305 W (100 to 130 V)				
		308 W (200 to 240 V)	276 W (200 to 240 V)	298 W (200 to 240 V)				
Power	ECO MODE [ECO]	226 W (100 to 130 V)	216 W (100 to 130 V)	217 W (100 to 130 V)				
consumption		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)				
		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					
	STANDBY *6	0.13	3 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)	480×122×407 mm (Net dimension	s, not including protruding parts), 591	×259×491 mm (Gross dimensions)				
Weight (Net weight	/ gross weight)	9.4 kg / 12.5 kg		7/12.4 kg				
			2.5 1/8					

*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.

Lens shift mechanism for adjusting the position of the projected image easily Lens shifting range: Vertical direction: 0% to +60% (PE455UL), 0% to 55% (PE455WL), 0% to 50% (PE505XL) Horizontal direction: ±29% (PE455UL), ±26% (PE455WL), ±26% (PE505XL)

Remote control



(Included accessory)

Options

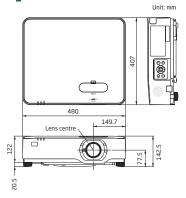
Wireless LAN unit NP05LM1-5*

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)



			The values in the ta		

Throw distance and screen size

26	to 29%	H 100%H	26 to 299	6H
50 to 60%V				
		"		

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.

Lens shift range

				WUXGA	(16:10)	WXGA (16:10)			
(GA/WXGA)				PE45	SUL .	PE455WL			
en	Screen width	Screen height (cm)	Throw distance L (cm)		Height H (cm)	Throw distance L (cm)		Height H (cm)	
	(cm)		Wide	Tele	0% V to 60% V	Wide	Tele	0% V to 55% V	
)"	64.6	40.4	76.5	125.8	-20.2 to 4.0	77.9	132.0	-20.2 to 2.0	
)"	86.2	53.8	103.1	168.9	-26.9 to 5.4	105.2	177.3	-26.9 to 2.7	
)"	129.2	80.8	156.4	255.0	-40.4 to 81	159.8	267.9	-40.4 to 4.0	
)"	172.3	107.7	209.8	341.1	-53.8 to 10.8	214.4	358.5	-53.8 to 5.4	
0"	215.4	134.6	263.1	427.3	-67.3 to 13.5	269.0	449.1	-67.3 to 6.7	
0"	258.5	161.5	316.4	513.4	-80.8 to 16.2	323.6	539.7	-80.8 to 8.1	
0"	323.1	201.9	396.4	642.6	-101.0 to 20.2	405.5	675.6	-101.0 to 10.1	
0"	387.7	242.3	476.4	771.8	-121.2 to 24.2	487.3	811.6	-121.2 to 12.1	
0"	430.8	269.2	529.7	857.9	-134.6 to 26.9	541.9	902.2	-134.6 to 13.5	
0"	516.9	323.1	636.4	1030.1	-161.5 to 32.3	651.1	1083.4	-161.5 to 16.2	
0"	581.6	363.5	716.4	1159.3	-181.7 to 36.3	733.0	1219.3	-181.7 to 18.2	
0"	646.2	403.9	796.4	1288.5	-201.9 to 40.4	814.8	1355.2	-201.9 to 20.2	

Approximate 78 to 87 mm

size	width	height	L (c	m)	neight n (cili)	
Size	(cm)	(cm)	Wide	Tele	0% V to 50% V	
30"	61.0	45.7	79.5	134.6	-22.9 to 0	
40"	81.3	61.0	107.3	180.7	-30.5 to 0	
60"	121.9	91.4	162.9	273.0	-45.7 to 0	
80"	162.6	121.9	218.5	365.4	-61.0 to 0	
100"	203.2	152.4	274.1	457.7	-76.2 to 0	
120"	243.8	182.9	329.8	550.0	-91.4 to 0	
150"	304.8	228.6	413.2	688.5	-114.3 to 0	
180"	365.8	274.3	496.6	826.9	-137.2 to 0	
200"	406.4	304.8	552.2	919.3	-152.4 to 0	
240"	487.7	365.8	663.4	1103.9	-182.9 to 0	
270"	548.6	411.5	746.9	1242.4	-205.7 to 0	
300"	609.6	457.2	830.3	1380.8	=228.6 to 0	



- 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
- on 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

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.

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.