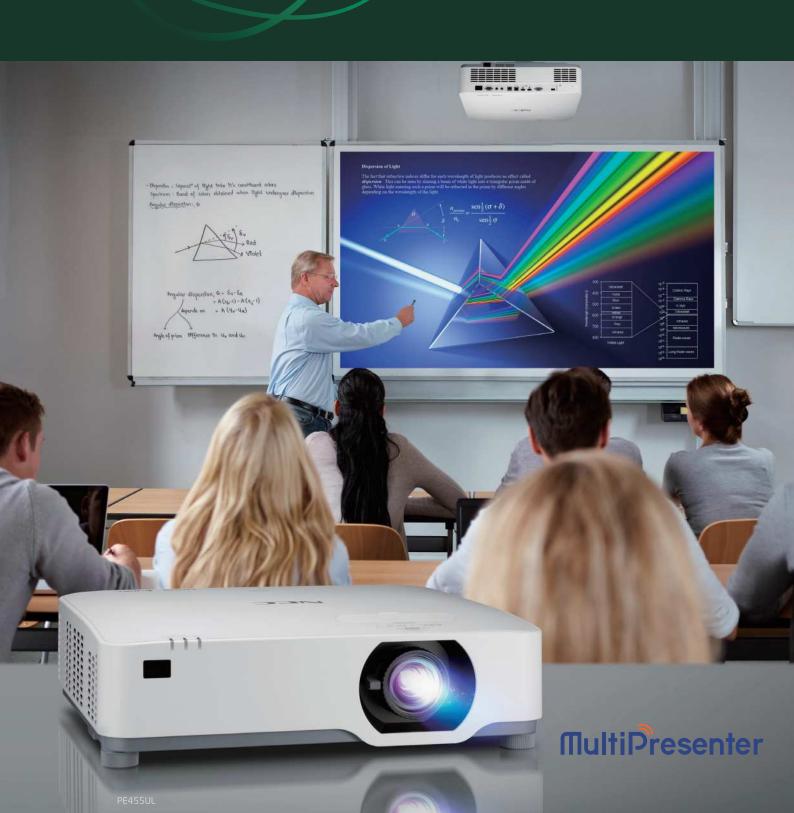


A high-quality filter-free LCD laser-phosphor projector with excellent quietness

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.

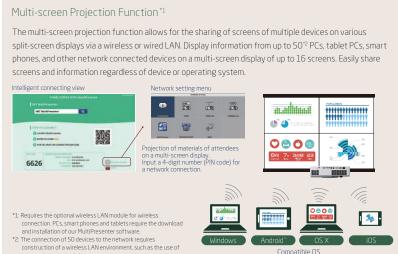
Advanced Networking Capabilities

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.

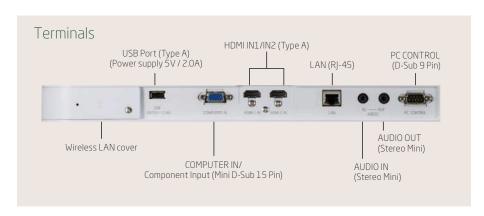
Network Control

- 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 $9.4 \, \text{kg}$ 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 main parts		F						
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						
	Focus	Manual						
Projection lenses	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= 17.4 mm to 29.0 mm						
	Lens shifting	Manual (H= +/-29% / V= 0% to +60%)	Manual (H= +/-26% / V= 0% to +55%)					
Light source	censsimeng	Blue Laser diode						
Light source (laser diode) life *2		20.000H						
Optical unit		Integrator, dichroic mirror, XDP						
Optical dilit	ECO MODE (OFF)	4.500 lm 5.000 lm						
Light output*3*4	ECO MODE [ECO]	Approx. 60%	Approx. 60%					
rigiit output	ECO MODE [LONG LIFE]	Approx. 50% Approx. 50%	Approx. 67% Approx. 56%	Арргох. 50%				
Contrast ratio*4 (all v								
	wnite/all black)	450,000 : 1 with Light Adjust 500,000 : 1 with Light Adjust						
Image size		25 to 300 inches						
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	1.0	Manual, approx. ± 30 degrees max.	12				
correction	Vertical	Manual, approx. ± 30 degrees max.						
Input/output connectors		Tidridal, approx. 2 50 degrees max.						
Video input		Mini D-Sub 15-pin×1						
Computer/ component	Audio input	Stereo mini iack×1						
	Audio input Audio output							
HDMI	Video input	Stereo mini jack ×1 (Selected from: Computer / HDMI / LAN)						
	Audio input		Type A HDMI connector×2					
DCtl	<u> </u>	Yes						
PC control connec	tor	D-Sub 9-pin×1 (4800/9600/19200/38400 bps) USB type A×1 for USB (5.0 V/2.0 A power supply)						
USB port								
Ethernet/LAN	(0 · 1 · 1)	RJ-45×1						
Wireless LAN Port	(Uptional)	USB×1 16 W × 1						
Built-in speaker								
		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	1550 11005 10551	100 – 240 V AC, 50/60 Hz						
Power consumption	ECO MODE [OFF]	316 W (100 to 130 V)	279 W (100 to 130 V)	305 W (100 to 130 V)				
	550 1100 5 1550	308 W (200 to 240 V)	276 W (200 to 240 V)	298 W (200 to 240 V)				
	ECO MODE [ECO]	226 W (100 to 130 V)	216 W (100 to 130 V)	217 W (100 to 130 V)				
		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 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)		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	9 3 kg	g / 12.4 kg				
			2.5 1/8	0				

*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

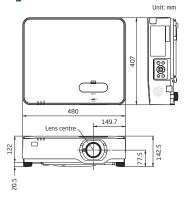
Wireless LAN unit NP05LM1-5*

Allows you to transmit data wirelessly over your network when you insert it into the USB (Wireless LAN) port.

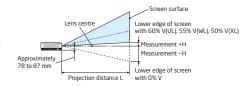


^{*}The last digit may vary depending on the country of destination.

Cabinet dimensions

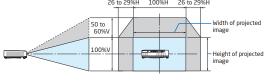


Throw distance and screen size



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) 26 to 29%H 100%H 26 to 29%H

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.

Lens shift range

	(cm)	(cm)	Wide	Tele	0% V to 60% V	Wide	Tele	0% V to 55% V
30"	64.6	40.4	76.5	125.8	-20.2 to 4.0	77.9	132.0	-20.2 to 2.0
40"	86.2	53.8	103.1	168.9	-26.9 to 5.4	105.2	177.3	-26.9 to 2.7
60"	129.2	80.8	156.4	255.0	-40.4 to 81	159.8	267.9	-40.4 to 4.0
80"	172.3	107.7	209.8	341.1	-53.8 to 10.8	214.4	358.5	-53.8 to 5.4
100"	215.4	134.6	263.1	427.3	-67.3 to 13.5	269.0	449.1	-67.3 to 6.7
120"	258.5	161.5	316.4	513.4	-80.8 to 16.2	323.6	539.7	-80.8 to 8.1
150"	323.1	201.9	396.4	642.6	-101.0 to 20.2	405.5	675.6	-101.0 to 10.1
180"	387.7	242.3	476.4	771.8	-121.2 to 24.2	487.3	811.6	-121.2 to 12.1
200"	430.8	269.2	529.7	857.9	-134.6 to 26.9	541.9	902.2	-134.6 to 13.5
240"	516.9	323.1	636.4	1030.1	-161.5 to 32.3	651.1	1083.4	-161.5 to 16.2
270"	581.6	363.5	716.4	1159.3	-181.7 to 36.3	733.0	1219.3	-181.7 to 18.2
300"	646.2	403.9	796.4	1288.5	-201.9 to 40.4	814.8	1355.2	-201.9 to 20.2

^{*} 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. This product is equipped with a laser module. DO NOT STARE INTO THE LENS WHILE IN USE
- in 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