\Orchestrating a brighter world NEC

PE455UL
Laser Projector

Datasheet





Essential silence for captivating presentations

Quieter than the ticking of a watch, NEC's silent projection ensures all eyes and ears are trained on the presenter and not diverted by distracting noise.

Built on the award winning P Series, the new PE Series delivers all the corresponding benefits yet targeted at a more cost conscious user. Supporting collaborative working practices, the enhanced embedded MultiPresenter functionality enables wireless presentation and screen sharing for up to 16 devices simultaneously, out of the box. The technology is future-proof with the capability of processing 4K inputs at 30Hz.

Designed for zero maintenance in classrooms and meeting rooms, the long-life laser light source and sealed optical engine allows the vivid high brightness of 3 LCD technology to shine for up to 20,000 hours of optimised visual performance.

Benefits

No filter service required – a completely sealed optical laser LCD engine allows a filter-free design. Brilliant colour brightness is maintained and servicing costs need no longer feature in your budget.

Low Noise Level – with 22dB*, the silent technology will not disturb your meeting.

Future-proof input management – thanks to 4K@30 Hz input processing.

Minimised Carbon Footprint – with only 308W power consumption in normal mode for lowering your TCO.

No lamp replacement – up to 20,000 h maintenance free operation possible due to Laser Light Source.

Risk Group 2 saves you installation and operation effort – because of the Risk Group 2 compliance, no prescribed safety precautions are necessary.

Professional and Flexible Installation – versatile projection characteristics allow for simple positioning of the projector, making installation easy and potentially saving set up costs.

Product Information

Product Name	PE455UL
Product Group	Laser Projector
Order Code	60004912

Image

Projection Technology	3LCD Technology		
Native Resolution	1920 x 1200 (WUXGA)		
Aspect Ratio	16:10		
Contrast Ratio [1]	500000:1		
Brightness [1]	4500 ANSI Lumen		
Lamp	Laser Light Source		
Light Source Life [hrs]	20000 [2]		
Lens	F= 1.5–2.1, f= 17.2–27.6 mm		
Lens shift	H:±29, V:+60,-0		
Keystone correction	+/- 30° manual horizontal / +/- 30° manual vertical		
Projection Factor	1.23 – 2 : 1		
Projection Distance [m]	0.8 – 13.5		
Screen Size (diagonal) [cm] / [inch]	Maximum: 762 / 300"; Minimum: 76.2 / 30"		
Zoom	Manual; x1.6		
Focus Adjustment	Manual		
Supported Resolutions	3840x2160 @ 30hz digital;	3840 x 2160 (Maximum resolution of digital input);	1920x1200 (Maximum resolution of analog input)

Connectivity

RGB (analog)	Input: 1 x Mini D-sub 15 pin
Digital	Input: 2 x HDMI™ supporting HDCP
Audio	Input: 1 x 3.5 mm Stereo Mini Jack for Computer analog; 2 x HDMI audio Output: 1 x 3.5 mm Stereo Mini Jack (variable)
Control	Input: 1 x D-Sub 9 pin (RS-232) (male)
LAN	1 x RJ45; Optional WLAN
USB	1 x Type B (for Service); 1x Type A (USB 2.0 high speed) with 2.0A Power Supply
Video Signals	NTSC 3.58; NTSC 4.43; PAL; PAL-M; PAL-N; PAL60; SECAM

Remote Control

Remote Control	Aspect Ratio; Audio Control; Auto Adjust; Eco Mode Control; Freeze-function; Help-function; ID set; Keystone Correction; Magnify-function; Page (up, down); Picture Adjust; Picture Mute; Power (On-OFF); Presentation and Mouse Control; Select (up, down, left, right); Source Select

Electrical

Power Supply	100-240 V AC; 50 - 60 Hz
Power Consumption [W]	308 (Normal) / 222 (Eco) / 1.8 (Network Stand-by) / 0.3 (Stand-by)

Mechanical

Dimensions (W x H x D) [mm]	480 x 122 x 407 (without lens and feet)
Weight [kg]	9.7
Fan Noise [dB (A)]	22 / 24 / 27 (ECO / Normal / High Bright)
Colour Versions	White

Environmental Conditions

Operating Temperature [°C]	5 to 40
Operating Humidity [%]	20 to 80
Storage Temperature [°C]	-10 to 50
Storage Humidity [%]	20 to 80

Ergonomics

Safety and Ergonomics	CE; EAC; ErP; RoHS; TUEV Type Approved; TüV GS
Speakers [W]	1 x 20 (mono)

Additional Features

Special Characteristics	Auto Power ON/OFF; Carbon Savings Meter; Constant Brightness Mode; Control ID Function; DICOM Simulation; Direct Power-Off Function; Free Tilt; Help Function; HTTP Browser Control; Kensington security slot; Keypad Lock; Light Source Adjustment; Magnify; Mouse Control with USB Display; MultiPresenter Function; NaViSet Administrator 2; Optional User Logo; OSD with 30 languages; Password Security System; Plug&Play W-LAN Option; Portrait Setting; Quick Start; Source Select with Beep Function; Test Pattern; Unique Power Saving Functions; USB Viewer; Virtual Remote for direct PC control

Green Features

Ecological Materials	Downloadable manuals; ECO packaging
Ecological Standards	ErP compliant; RoHs compliant

Warranty

Projectors	3 years pan-European service
Light Source	3 years or 10000h (whatever comes first)

Shipping Content

Shipping Contents	2x AAA Batteries; IR Remote Control (477E); Mini D-SUB Signal Cable (1.8 m); Power Cord (1.8 m); Projector; Quick Setup Guide; Security Sticker; Users Manual; Utility software

Optional Accessories

Optional Accessories	Universal Ceiling Mounts (PJ01UCM, PJ02UCMPF); Wireless LAN module (NP05LM2; NP05LM4; NP05LM5)

[1] Compliance with ISO21118-2012

[2] 50% of initial brightness at the end of specified laser life time at 25 degree ambient temperature.

TUEV Type Approved

CE

ErP

RoHS

TüV GS

This product has been equipped with a laser module and is classified as Class1 of IEC60825-1 Ed3 2014 and is classified as RG2 of IEC62471-5 Ed1 2015.
DO NOT LOOK DIRECTLY INTO THE BEAM.

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