

Professional Advanced LCD Laser Installation Projector

NEC PA804UL



A new class of silent projection

Now even larger spaces can benefit from innovation in super-silent technology with the 8,200 lumens PA804UL laser projector, ensuring all attention is focused on the stunning image delivery.

Featuring unprecedented White Point performance, factory pre-calibrated for the perfect white, 12-bit colour signal processing and wide colour space, the audience will experience extraordinarily vivid colour saturation and contrast levels.

The enhanced sealed optical engine allows a filter-free design, IP5X rated against dust ingress - no possibility of dust contaminating the LCD panels for long-term picture stability and brilliant colour brightness. What's more, with our filterless LCD projector design and no lamp replacement, service costs are dramatically reduced for a low cost of ownership and up to 20,000 hours life-time.

Fully compatible with previous generation lamp-based PA Series mechanical lenses, Sharp customers can easily make the transition to benefit from the latest laser technology. The PA804UL is a professional installation projector featuring advanced installation capabilities as demanded by higher education, leisure and museum applications.

Benefits

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

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.

Super Silent operation – patented sealed light engine incorporating innovative fan design not only protects against dust ingress but dramatically reduces noise.

Impress with vivid colour & contrast – brilliant white and wide colour space with high dynamic contrast supporting HDR10 standard via HDMI interface.

Incredible visualisation capabilities – impressive free tilt and portrait installation capability, unique geometric adjustment, picture in picture, tiling, 3D support and camera based blending/stacking up to 4K.

Specifications

Product Information

Product Name
NEC PA804UL

Product Group
Professional Advanced LCD Laser Installation Projector

Order Code
L50PA804UL (BK), L50PA804UL-WH (WH)

Image

Projection Technology
3LCD Technology

Native Resolution
1920 x 1200
(WUXGA)

Aspect Ratio
16:10

Contrast Ratio
3000000:1

Brightness
7500 Lumen (approx. 80% in Eco Mode), with std. optional lense;
compliant with ISO21118-2012

Brightness (Boost Mode)
8200 Lumen

Lamp
Laser Light Source

Light Source Life [hrs]
20000¹

Lens
4 motorized lens options; 5 manual lens options

Lense Adjustment
Motorized and manual (depending on lens)

Lens shift
H:±20, V:+10,-50

Keystone Correction
+/- 40° manual horizontal / +/- 40° manual vertical

Projection Factor
depending on lens selection (std. option NP41ZL at 1.3-3.02:1)

Projection Distance [m]
0.7 – 50.9

Screen Size (diagonal) [cm] / [inch]
Maximum: 1,270 / 500"; Minimum: 101.6 / 40"

Zoom
Motorized and manual (depending on lens)

Focus Adjustment
Motorized and manual (depending on lens)

Supported Resolutions

1080i/50/60;	2048 x 1080 (2k);	576i/50;
1080p/24/25/30/ 50/60;	2560 x 1600 (WQXGA);	576p/50; 720p/50;
1920x1200 (WUXGA) - 640x480 (VGA);	4096 x 2160 (4k); 480i/50; 480p/60;	720p/60

Frequency
Horizontal: analog: 15/24-100 kHz, digital: 15/24-153 kHz; Vertical:
analog: 48-120 Hz, digital: 48-120 Hz

Connectivity

RGB (analog)
Input: 1 x Mini D-sub 15-pin, compatible to component (YPbPr)

Digital
Input: 1 x DisplayPort; 1 x HDBaseT; 2 x HDMI™ supporting HDCP 2.2
Output: 1 x HDBaseT supporting HDCP 2.2

Audio
Input: 1 x DisplayPort Audio support; 1 x HDBaseT audio support;
2 x 3.5 mm Stereo Mini Jack for Computer analog; 2 x HDMI audio support
Output: 1 x 3.5 mm Stereo Mini Jack (variable)

Control
Input: 1 x 3.5 mm Stereo Mini Jack (Wired Remote); 1 x D-Sub 9 pin
(RS-232), Ethernet

LAN
1 x RJ45

USB
1 x Type A (USB 2.0 high speed)

3D Sync
Output: 1 x Mini DIN 3pin

Remote Control

Remote Control

Audio Control; Digital Zoom; Geometric Correction; ID Select; ID set; Power (On-OFF); Select (up, down, left, right); Shutter function; Source Select; Test Picture; Zoom/Focus and Lens Shift Control

Electrical

Power Supply

100-240 V AC; 50 - 60 Hz

Power Consumption [W]

615 (Normal) / 350 (Eco) / 0.8 (Network Stand-by) / 0.28 (Stand-by)

Mechanical

Dimensions (W x H x D) [mm]

599 x 208 x 490 (without lens and feet)

Weight [kg]

24.1

Fan Noise [dB (A)]

28 / 30 (Eco / Normal)

Colour Versions

Black; White

Environmental Conditions

Operating Temperature [°C]

0 to 40

Operating Humidity [%]

20 to 80 non-condensing

Storage Temperature [°C]

-10 to 50

Storage Humidity [%]

20 to 80 non-condensing

Ergonomics

Safety and Ergonomics

CE; EAC; ErP; RoHS; TUEV Type Approved

Additional Features

Special Characteristics

3D ready; 4K/60Hz interfaces; Active 3D; AMX Beacon; Built-in Display/Multiscreen Splitter; Cinema Quality Picture (CQP) Processing for best image quality; Crestron RoomView; DICOM simulation; Digital 3D Reform™; Direct Power-Off Function; Edge Blending Function; Free Tilt; Geometric Correction; HDBaseT; HDBaseT-out signal connection; HDR10 Support; High Altitude Mode; Hollywood Quality Video Processing for best image quality; HTTP Browser Control; IP5X/IP6X rated; Keystone Correction (H=±40°, V=±40°); LAN control; Lens Memory; Lens Shift (vertical +0.5 max/-0.1 max, horizontal ± 0.3 max.); Light Source Adjustment; Manual Wall Color Correction; Multi-Screen compensation mode; NaViSet Administrator 2; Optional User Logo; OSD with 27 languages; Password Security System; PIP/Side by Side; HDMI - Input; PJ LINK; Portrait Setting; Rec2020 to Rec709 colour conversion; RS-232 Control; Seamless Switching; Stacking Function; Test Pattern; Timer-Function; UHD player support; Up to 20,000 hrs Light Source Life; Virtual Remote for direct PC control

Green Features

Energy Efficiency

ECO scheduler; Intelligent power management; Less than 0.3W stand-by power; Longer light source life; Software scheduling; Timer function

Ecological Materials

100% recyclable packaging; Downloadable manuals

Ecological Standards

ErP compliant

Warranty

Projectors

3 years pan-European service

Light Source

3 years or 10000h (whatever comes first)

Shipping Content

Shipping Content

IR Remote Control (RD-480E); Power Cord; Projector; Quick Setup Guide; Users Manual on CD-ROM

Optional Accessories

Optional Accessories

10 optional bayonet lenses; Cable Cover (NP13CV-W, NP13CV-B); Universal Ceiling Mounts (PJ02UCMPF)

Lenses - motorized

NP40ZL (0.79-1.11:1); NP41ZL (1.3-3.02:1); NP43ZL (2.99-5.93:1); NP44ML-PA4 (0.32:1); NP50ZL (0.6-0.75:1)

Lenses - manual

NP11FL (0.79:1); NP12ZL (1.16-1.52:1); NP13ZL (1.46-2.95:1);
NP14ZL (2.9-4.68:1); NP15ZL (4.59-7.02:1)

¹ 50% of initial brightness at the end of specified laser life time at 25 degree ambient temperature.

* This product has been equipped with a laser module and is classified as Class1 of IEC60825-1 Ed3 2014 and is classified as RG3 of IEC62471-5 Ed1 2015.
DO NOT LOOK DIRECTLY INTO THE BEAM.



TUEV Type Approved



ErP



RoHS



CE

This document is © 2026 Sharp Display Solutions Europe GmbH.

All rights reserved in favour of their respective owners. All hardware and software names are brand names and/or registered trademarks of the respective manufacturers.
All specifications are subject to change without notice. Errors and omissions are excepted. 12.05.2026