

NEC PA1705UL
Laser Projector

Datasheet



A new class of bright projection

Now even larger spaces can benefit from NEC's innovation in silent technology with the 17,000 center lumens PA1705UL 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.

NEC customers can easily make the transition to benefit from the latest laser technology. The PA1705UL 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 - the enhanced sealed optical laser LCD engine allows a filter-free design, IP5X rated against dust ingress. Brilliant colour brightness is maintained and servicing costs need no longer feature in your budget

Compact design - a large venue projector with a comparatively small footprint and light weight design.

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.

Product Information

| | |
|---------------|------------------------------|
| Product Name | NEC PA1705UL |
| Product Group | Laser Projector |
| Order Code | NP-PA1705UL-W, NP-PA1705UL-B |

Image

| | |
|--------------------------------------|--|
| Projection Technology | 3LCD Technology |
| Native Resolution | 1920 x 1200 (WUXGA) |
| Aspect Ratio | 16:10 |
| Contrast Ratio ¹ | 3000000:1 |
| Brightness ¹ | 16000 Lm / 17000 Lm Center |
| Lamp | Laser Light Source |
| Light Source Life [hrs] | 20000 ² |
| Lens | 6 motorized lens options |
| Lense Adjustment | Motorized |
| Lens shift | Up to H:±25, V:+65,-65 |
| Keystone correction | +/- 40° manual horizontal / +/- 30° manual vertical |
| Projection Factor | depending on lens selection (std. option NP54ZL at 1.25-2.01:1) |
| Projection Distance [m] | 0.68 - 80.77 |
| Screen Size (diagonal) [cm] / [inch] | Maximum: 1,270 / 500"; Minimum: 152 / 60" |
| Zoom | Motorized |
| Focus Adjustment | Motorized |
| Supported Resolutions | 1080i/50/60; 1920x1200 (WUXGA) 2560 x 1600 720p/50; 1080p/24/25/30/50/ 640x480 (VGA); (WQXGA); 720p/60 60; 2048 x 1080 (2k); 4096 x 2160 (4k); |
| Frequency | Horizontal: analog: 0-0 kHz, digital: 15/24-153 kHz; Vertical: 24 - 120 Hz |

Connectivity

| | |
|---------|--|
| Digital | Input: 1 x 3G-SDI; 1 x HDBaseT; 2 x HDMI™ supporting HDCP 2.2 Output: 1 x HDBaseT supporting HDCP 2.2 |
| Audio | Input: 1 x HDBaseT audio support; 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) |

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] | 995 Normal / 825 Silent Mode / 0,5 Network Stand-by / 2,0 Stand-by |

Mechanical

| | |
|-----------------------------|---|
| Dimensions (W x H x D) [mm] | 599 x 238 x 490 (without lens and feet) |
| Weight [kg] | 28.7 |
| Fan Noise [dB (A)] | 43 / 37 (Normal / Silent) |

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; RCM; EAC; ErP; RoHS; TUEV Type Approved |
|-----------------------|---|

Additional Features

| | |
|-------------------------|---|
| Special Characteristics | 4K/60Hz interfaces; AMX Beacon; 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; HDR10 Support; High Altitude Mode; Hollywood Quality Video Processing for best image quality; HTTP Browser Control; Keystone Correction (H=±40°, V=±40°); LAN control; Lens Memory; Lens Shift (vertical 0.65 max/-0.65 max, horizontal ± +0.25 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 0.5W Stand-By power; Longer Light Source Life; Software scheduling; Timer-Function |
| Ecological Materials | 100% recyclable packaging; Downloadable manuals |
| Ecological Standards | ErP compliant |

Warranty

| | |
|--------------|--|
| Projectors | 5 years |
| Light Source | 5 years or 10000h (whatever comes first) |

Shipping Content

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

Optional Accessories

| | |
|----------------------|---|
| Optional Accessories | 6 optional bayonet lenses |
| Lenses - motorized | NP51ZL (0.53-0.65:1); NP52ZL (0.65-0.86:1); NP53ZL (0.86-1.25:1); NP54ZL (1.24-2.01:1); NP55ZL (1.98-3.95:1); NP56ZL (3.92-7.5:1) |

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



RoHS



CE



ErP

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.

This document is © 2023 NEC Australia

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. 15.09.2023