

NEC PA1705UL
Laser Projector

Datasheet



A new class of bright projection

Now even larger spaces can benefit from Sharp/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.

Sharp/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	60005972 (W), 60005932 (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
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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; EAC; ErP; RoHS; TUEV Type Approved
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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
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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	3 years pan-European service
Light Source	3 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
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Optional Accessories

Optional Accessories	6 optional bayonet lenses; Universal Ceiling Mounts (PJ01UCM, PJ02UCMPF)
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.

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