

NEC PA1705UL

Professional Advanced LCD Laser Installation 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 and camera based blending.

Product Information

Product Name	NEC PA1705UL
Product Group	Professional Advanced LCD Laser Installation 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 (WQXGA); 720p/50; 1080p/24/25/30/ 640x480 (VGA); 4096 x 2160 (4k); 720p/60 50/60; 2048 x 1080 (2k);
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)
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
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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 (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.

* 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 (changing to RG3 with the use of NP55ZL, NP65ZL lens.)

DO NOT LOOK DIRECTLY INTO THE BEAM.



TUEV Type Approved



RoHS



CE



ErP

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