Professional Advanced LCD Laser Installation Projector

NEC PA1004UL

A new class of silent projection

Now even larger spaces can benefit from NEC's innovation in super-silent technology with the 10,000 lumens PA1004UL 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, NEC customers can easily make the transition to benefit from the latest laser technology. The PA1004UL 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, tiling and camera based blending.

Specifications

Product Information

Product Name
NEC PA1004UL

Product Group
Professional Advanced LCD Laser Installation Projector

Order Code
60004512 (WH), 60005160 (BK)

Image

Projection Technology
3LCD Technology

Native Resolution
1920 x 1200
(WUXGA)

Aspect Ratio
16:10

Contrast Ratio
3000000:1

Brightness
9000 Lumen (approx. 80% in Eco Mode), with std. optional lense; compliant with ISO21118-2012

Brightness (Boost Mode)
10000 Lumen

Lamp
Laser Light Source

Light Source Life [hrs]
20000 [1]

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;
1080p/24/25/30/50/60;
1920x1200 (WUXGA) - 640x480 (VGA);
2048 x 1080 (2k);
2560 x 1600 (WQXGA);
4096 x 2160 (4k);
480i/50;
480p/60;
576i/50;
576p/50;
720p/50;
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]
725 (Normal) / 395 (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]
24.4

Fan Noise [dB (A)]
32 / 35 (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.

CE

TUEV Type Approved

ErP

RoHS

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