

PA1004UL Laser Projector

Datasheet





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.

With the newly designed sealed optical engine there is no possibility of dust contaminating the LCD panels for long-term picture stability and brilliant colour brightness. What's more, with our unique 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, picture in picture, tiling, 3D support and camera based blending/stacking up to 4K.

Product Name	PA1004UL
Product Group	Laser Projector
Order Code	60004512 (WH), 60005160 (BK)
mage	
Projection Technology	3LCD Technology
Native Resolution	1920 x 1200 (WUXGA)
Aspect Ratio	16:10
Contrast Ratio ¹	3000000:1
Brightness ¹	9000 ANSI Lumen (approx. 80% in Eco Mode), with std. optional lense
Brightness (Boost Mode)	10000 ANSI Lumen
_amp	Laser Light Source
ight Source Life [hrs]	20000 ²
_ens	4 motorized lens options; 5 manual lens options
ense Adjustment	Motorized and manual (depending on lens)
ens 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)
ocus Adjustment	Motorized and manual (depending on lens)
Supported Resolutions	4096 x 2160 (4k); 1920x1200 (WUXGA) 720p/60; 480p/60; 2560 x 1600 - 640x480 (VGA); 720p/50; 480i/50 (WQXGA); 1080i/50/60; 576i/50; 2048 x 1080 (2k); 1080p/24/25/30/50/ 576p/50;
requency	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 $^{\rm m}$ supporting HDCP 2.2 Output: 1 x HDBaseT supporting HDCP 2.2
Audio	Input: $1 \times DisplayPort$ Audio support; $1 \times HDBaseT$ audio support; 2×3.5 mm Stereo Mini Jac for Computer analog; $2 \times HDMI$ audio support Output: 1×3.5 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
.AN	1 x RJ45
JSB	1 x Type A (USB 2.0 high speed)
BD Sync	Output: 1 x Mini DIN 3pin

Temote control

Remote Control	3D Setup; Aspect Ratio; Audio Control; Auto Adjust; DisplayPort; Eco Mode Control; Edge-
	Blending; Freeze-function; Geometric Correction; HDMI; Help-function; Magnify-function;
	Multiscreen; Page (up, down); PBP/POP Function; Picture Adjust; Picture Mute; PIP Function;
	Power (On-OFF); Select (up, down, left, right); Source Select; Test Picture

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]	5 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	
Green Features Energy Efficiency Ecological Materials	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-out signal connection; 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 +0.5 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 lamp life; Virtual Remote for direct PC control
	ErP compliant
Ecological Standards	
Ecological Standards Warranty	
Ecological Standards Warranty Projectors	ErP compliant
Warranty Projectors Light Source	ErP compliant 3 years pan-European service
Warranty Projectors Light Source Shipping Content	3 years pan-European service 3 years or 10000h (whatever comes first)
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Ecological Standards Warranty Projectors Light Source Shipping Content Shipping Contents Optional Accessories	ErP compliant 3 years pan-European service 3 years or 10000h (whatever comes first) IR Remote Control (RD-480E); Power Cord; Projector; Quick Setup Guide; Users Manual on CD-
Warranty Projectors Light Source Shipping Content Shipping Contents Optional Accessories	BrP compliant 3 years pan-European service 3 years or 10000h (whatever comes first) IR Remote Control (RD-480E); Power Cord; Projector; Quick Setup Guide; Users Manual on CD-ROM 10 optional bayonet lenses; MultiPresenter Stick; Universal Ceiling Mounts (PJ01UCM,
Warranty Projectors Light Source Shipping Content Shipping Contents	3 years pan-European service 3 years or 10000h (whatever comes first) IR Remote Control (RD-480E); Power Cord; Projector; Quick Setup Guide; Users Manual on CD-ROM

² 50% of initial brightness at the end of specified laser life time at 25 degree ambient temperature.







CE





RoHS

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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