SHARP/NEC

PA804UL 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 8,200 lumens PA804UL 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 PA804UL 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.

JUST-PROJECTORS

Product Information

Product Name	PA804UL	
Product Group	Laser Projector	
Order Code	60005035 (WH), 60005161 (BK)	

Image

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Projection Technology	3LCD Technology			
Native Resolution	1920 x 1200 (WUXGA)			
Aspect Ratio	16:10			
Contrast Ratio ¹	300000:1			
Brightness ¹	7500 ANSI Lumen (approx. 80% in Eco Mode), with std. optional lense			
Brightness (Boost Mode)	8200 ANSI Lumen			
Lamp	Laser Light Source			
Light Source Life [hrs]	20000 ²			
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 / 50	0"; Minimum: 101.6 / 40"		
Zoom	Motorized and manual (depending on lens)			
Focus Adjustment	Motorized and manual (depending on lens)			
Supported Resolutions	4096 x 2160 (4k); 2560 x 1600 (WQXGA); 2048 x 1080 (2k);	1920x1200 (WUXGA) - 640x480 (VGA); 1080i/50/60; 1080p/24/25/30/50/ 60;	720p/60; 720p/50; 576i/50; 576p/50;	480p/60; 480i/50
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: $1 \times DisplayPort$; $1 \times HDBaseT$; $2 \times HDMI^m$ supporting HDCP 2.2 Output: $1 \times HDBaseT$ supporting HDCP 2.2		
Audio	Input: 1×0 DisplayPort Audio support; 1×10 HDBaseT audio support; 2×3.5 mm Stereo Mini Jack for Computer analog; 2×10 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		
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	3D Setup; Aspect Ratio; Audio Control; Auto Adjust; DisplayPort; Eco Mode Control; Edge-
	Blending; Freeze-function; Geometric Correction; HDMI; Help-function; Keystone Correction;
	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

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Power Supply	100-240 V AC; 50 - 60 Hz			
Power Consumption [W]	615 (Normal) / 350 (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]	24.1			
Fan Noise [dB (A)]	28 / 30 (Eco / Normal)			
Colour Versions	Black; White			
Environmental Condition	ıs			
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				
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; 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 Contents	IR Remote Control (RD-480E); Power Cord; Projector; Quick Setup Guide; Users Manual on (ROM			
Optional Accessories				
Optional Accessories	10 optional bayonet lenses; Universal Ceiling Mounts (PJ01UCM, 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)			
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)			



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

Beamer-

TUEV-

Approved BeamerTUEV Type Beamer-CE Beamer-ErP RoHS
Approved CE ErP 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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