SHARP/NEC

NEC 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 Information	
Product Name	NEC PA1004UL
Product Group	Laser Projector
Order Code	60004512 (WH), 60005160 (BK)
Image	
Projection Technology	3LCD Technology

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			
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 / 500"; 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 digital: 48-120 Hz	5/24-100 kHz, digital: 15/	24-153 kHz; Vertical: a	analog: 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 $^{\text{TM}}$ 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 Jack 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	
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

0.28 (Stand-by)		
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-10 to 50		
20 to 80 non-condensing		
n; Built-in Display/Multiscreen Splitter; ige quality; Crestron RoomView; DICOM action; Edge Blending Function; Free Tilt; connection; HDR10 Support; High or best image quality; HTTP Browser N control; Lens Memory; Lens Shift Light Source Adjustment; Manual Wall NaViSet Administrator 2; Optional User tem; PIP/Side by Side, HDMI - Input; PJ version; RS-232 Control; Seamless ction; UHD player support; Up to 20,000 introl		
ECO scheduler; Intelligent Power Management; Less than 0.3W Stand-By power; Longer Light Source Life; Software scheduling; Timer-Function		
IR Remote Control (RD-480E); Power Cord; Projector; Quick Setup Guide; Users Manual on CE ROM		
(PI01UCM, PI02UCMPF)		
(PJ01UCM, PJ02UCMPF) (2.99-5.93:1); NP44ML-PA4 (0.32:1)		
(PJ01UCM, PJ02UCMPF) (2.99-5.93:1); NP44ML-PA4 (0.32:1) 6-2.95:1); NP14ZL (2.9-4.68:1); NP15ZL		

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







CE



RoHS compliant

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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