

NEC PA1004UL

Professional Advanced LCD Laser Installation 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.

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, picture in picture, tiling, 3D support and camera based blending/stacking up to 4K.

Product Information

Brightness (Boost Mode) 10000 ANSI Lumen Lawr Laser Light Source	Product Information		
Image	Product Name	PA1004UL	
Image Projection Technology Native Resolution 1920 x 1200 (WIXGA) Aspect Ratio 16:10 Contrast Ratio 1 300,000:1 Brightness 1 9000 ANSI Lumen (approx. 80% in Eco Mode), with std. optional lense Brightness (Boost Mode) Laser Light Source Light Source Life (Irs) 20000 2 Lense Adjustment Lane Motorized and manual (depending on lens) Lense Adjustment Motorized and manual (depending on lens) Lense Adjustment H:±20, V:+10, S0 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] Zoom Motorized and manual (depending on lens) Focus Adjustment M	Product Group	Professional Advanced LCD Laser Installation Projector	
Projection Technology	Order Code	PA1004UL-BG (BK) PA1004UL-WG (WH)	
Native Resolution	Image		
(WUXGA) Aspect Ratio 16:10	Projection Technology	3LCD Technology	
Contrast Ratio 1 300,000:1	Native Resolution		
Brightness (Boost Mode) 10000 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 alens 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] / Maximum: 1,270 / 500°; Minimum: 101.6 / 40° [linch] Zoom Motorized and manual (depending on lens) Focus Adjustment Motorized and manual (depending on lens) Supported Resolutions 1080/50/60; 2048 × 1080 (24); 480p/60; 720p/60 1080p/24/25/30/50/ 2560 × 1500 576i/50; 60; (WQXGA); 576p/50; 1920/1200 (WUXGA) 4096 × 2160 (4k); 720p/50; 1920/1200 (WUXGA) 4096 × 2160 (4k); 720p/50; 4604x80 (70K); 480i/50; 720p/50; 480i/50; 720	Aspect Ratio	16:10	
Brightness (Boost Mode) 10000 ANSI Lumen Lawr Laser Light Source	Contrast Ratio ¹	300,000:1	
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] / Maximum: 1,270 / 500°; Minimum: 101.6 / 40° [linch] Zoom Motorized and manual (depending on lens) Focus Adjustment Motorized and manual (depending on lens) Supported Resolutions 1080/5060; 2048 x 1080 (2k); 480p/60; 720p/60 1080p/24/25/30/50/ 2560 x 1600 576p/50; 1080p/24/25/30/50/ 2560 x 1600 576p/50; 1920x1200 (WUXGA) 4906 x 2160 (4k); 720p/50; -640x480 (VGA); 720p/50; -640x480 (VGA); 480y/50; Frequency Horizontai 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 Audio support: 1 x HDBaseT; 2 x HDMI** supporting HDCP 2.2 Output: 1 x HDBaseT supporting HDCP 2.2 Output: 1 x 1DisplayPort Audio support: 1 x HDBaseT audio support; 2 x 3.5 mm Stereo Mini Jac for Computer analog: 2 x HDMI audio support Output: 1 x 3.5 mm Stereo Mini Jack (Wired Remote); 1 x D-Sub 9 pin (RS-232), Ethernet LAN 1 x R/45 USB 1 x Type A (USB 2.0 high speed) 30 Sync Output: 1 x Mini DIN 3pin 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	Brightness ¹	9000 ANSI Lumen (approx. 80% in Eco Mode), with std. optional lense	
Light Source Life [hrs] 20000 2	Brightness (Boost Mode)	10000 ANSI Lumen	
Lens 4 motorized lens options; 5 manual lens options Lens Adjustment Motorized and manual (depending on lens) Lens shift H:220, 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] / Maximum: 1,270 / 500°; Minimum: 101.6 / 40° [inch] Scom Motorized and manual (depending on lens) Focus Adjustment Motorized and manual (depending on lens) Supported Resolutions 1080/50/60; 2048 x 1080 (2k); 480p/60; 720p/60 1080p/24/25/30/50/ 2560 x 1600 576i/50; 60; (WWXGA); 576p/50; 1920x1200 (WWXGA) 4096 x 2160 (4k); 720p/50; 480p/60; 640x480 (VGA); 480p/50; 1920x1200 (WWXGA) 480f/50; 1920x120 (WWXGA) 480f/50; 1920x1200 (WWXGA) 480f	Lamp	Laser Light Source	
Lens Adjustment Motorized and manual (depending on lens) Lens shift H:±20, V:+10,-50 Keystone correction +/- 40° manual horizontal / +/- 40° manual vertical Projection Distance [m] 0.7 - 50.9 Screen Size (diagonal) [cm] / Maximum: 1.270 / 500°; Minimum: 101.6 / 40° [inch] Zoom Motorized and manual (depending on lens) Focus Adjustment Motorized and manual (depending on lens) Supported Resolutions 1080/50/60; 2048 x 1080 (2k); 480p/60; 720p/60 (1080p/24/25/30)/50/ 2560 x 1600 576i/50; 60; (1080p/24/25/30)/50/ 2560 x 1600 576i/50; 1920x1200 (WMUXGA) 4096 x 2160 (4k); 720p/50; 46040x480 (VGA); 480p/50; 720p/50; 4600x480 (VGA); 480p/60; 720p/50; 4600x480 (VGA); 480p/60; 720p/50; 4600x480 (VGA); 480p/60; 720p/50; 4600x480 (VGA); 480p/60; 720p/60; 4600x480 (VGA); 480p/60; 720p/60; 4600x480 (VGA); 480p/60; 720p/60; 460	Light Source Life [hrs]	20000 ²	
Lens shift	Lens	4 motorized lens options; 5 manual lens options	
Heystone correction	Lense Adjustment	Motorized and manual (depending on lens)	
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] / Maximum: 1,270 / 500"; Minimum: 101.6 / 40" [Inch] Zoom Motorized and manual (depending on lens) Focus Adjustment Motorized and manual (depending on lens) Focus Adjustment Motorized and manual (depending on lens) Supported Resolutions 1080i/50/60; 2048 × 1080 (2k); 480p/60; 720p/60 (1080p/24/25/30/50) (2560 × 1600 576i/50; 60); 1920x1200 (WUXGA) 576p/50; 1920x1200 (WUXGA) 576p/50; 1920x1200 (WUXGA) 480i/50; Foffy) 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 (or or 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) Output: 1 x Mini DIN 3pin 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	Lens shift	H:±20, V:+10,-50	
Projection Distance m 0.7 - 50.9	Keystone correction	+/- 40° manual horizontal / +/- 40° manual vertical	
Maximum: 1,270 / 500"; Minimum: 101.6 / 40"	Projection Factor	depending on lens selection (std. option NP41ZL at 1.3-3.02:1)	
	Projection Distance [m]	0.7 - 50.9	
Focus Adjustment Motorized and manual (depending on lens) Supported Resolutions 1080i/50/60; 2048 x 1080 (2k); 480p/60; 720p/60 1080p/24/25/30/50/ 2560 x 1600 576i/50; 60; (WQXGA); 576p/50; 1920x1200 (WUXGA) 4096 x 2160 (4k); 720p/50; -640x480 (VGA); 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 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 Jac for Computer analog; 2 x HDMI audio support Output: 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 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		Maximum: 1,270 / 500"; Minimum: 101.6 / 40"	
Supported Resolutions	Zoom	Motorized and manual (depending on lens)	
Supported Resolutions	Focus Adjustment	Motorized and manual (depending on lens)	
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 Jac 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 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	Supported Resolutions	1080p/24/25/30/50/ 2560 x 1600 576i/50; 60; (WQXGA); 576p/50; 1920x1200 (WUXGA) 4096 x 2160 (4k); 720p/50;	
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 Jac 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	Frequency	Horizontal: analog: 15/24-100 kHz, digital: 15/24-153 kHz; Vertical: analog: 48-120 Hz,	
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 Jac 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	Connectivity		
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 Jac 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		Input: 1 x Mini D-suh 15-nin, compatible to component (YPhPr)	
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 Jac 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			
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	Digital		
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	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	
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	Control	Input: 1 x 3.5 mm Stereo Mini Jack (Wired Remote); 1 x D-Sub 9 pin (RS-232), Ethernet	
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	LAN	1 x RJ45	
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	USB	1 x Type A (USB 2.0 high speed)	
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	3D Sync	Output: 1 x Mini DIN 3pin	
(up, down, left, right); Shutter function; Source Select; Test Picture; Zoom/Focus and Lens Shift Control Electrical	Remote Control		
	Remote Control	(up, down, left, right); Shutter function; Source Select; Test Picture; Zoom/Focus and Lens	
	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)
	24.4
Fan Noise [dB (A)]	32 / 35 (Eco / Normal)
Colour Versions	Black; White
Environmental Condition	s
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
	and the second s
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	5 year Australian warranty
Light Source	5 years or 12,000hrs (whichever comes first)
Shipping Content	
Shipping Contents	IR Remote Control (RD-480E); Power Cord; Projector; Quick Setup Guide; Users Manual on CD-ROM
Optional Accessories	

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)

10 optional bayonet lenses; MultiPresenter Stick;

Optional Accessories

* 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.











For more information:





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¹ Compliance with ISO21118-2012

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