NEC PV800UL
Laser Projector

Preliminary Datasheet

Cost-effective LCD-based laser projector with interchangeable lenses

A highly economical projection solution, the PV800UL offers exceptional installation flexibility, low maintenance and long-life laser performance, yet remains impressively cost-efficient and conveniently compact.

3LCD technology generates brilliantly vivid colour, which, at 8000 Lm brightness, promotes an outstanding visual perception. A broad range of interchangeable lens options are available, alongside multiple professional adjustment features to ensure the perfect application-appropriate set-up.

The PV800UL offers the ideal upgrade path to transition to long-life, maintenance-free laser light source technology. Using the same mount and lenses as the lamp-based NEC PA Series projectors, operators can gain additional cost savings by utilising existing assets. For visualisation in large spaces, the PV800UL offers outstanding value for higher education, corporate, leisure and hospitality sectors.

Benefits

No lamp replacement – up to 20,000 h maintenance free operation possible due to Laser Light Source.

Get Great Performance – while not compromising on quality and ease of use.

Low Noise Level – with 33dB*, the silent technology will not disturb your meeting.

Impress with vivid colour & contrast – brilliant white and wide colour space with high dynamic contrast.

Product Information

Product Name	NEC PV800UL
Product Group	Laser Projector
Order Code	60005578 (W), 60005601 (B)

Image

Projection Technology	3LCD Technology			
Native Resolution	1920 x 1200 (WUXGA)			
Aspect Ratio	16:10			
Contrast Ratio [1]	3000000:1			
Brightness [1]	8000 ANSI Lumen			
Lamp	Laser Light Source			
Light Source Life [hrs]	20000 [2]			
Lens	5 manual lens options; 5 motorized lens options			
Lense Adjustment	Motorized and manual (depending on lens)			
Lens shift	H:±20, V:+10,-50			
Keystone correction	+/- 30° manual horizontal / +/- 30° manual vertical			
Projection Factor	depending on lens selection (std. option NP13ZL at 1.46-2.95:1)			
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/50/60;	1280 x 768 (60); 1920 x 1200 (60);	3840 x 2160 (23.8/ 24/25/29.97/30); 480p/60;	576p/50; 720p/60
Frequency	Horizontal: analog: 0-0 kHz, digital: 15/24-100 kHz; Vertical: 50 – 120 Hz			

Connectivity

Digital	Input: 1 x HDBaseT; 2 x HDMI™ supporting HDCP 1.4
Audio	Input: 1 x HDBaseT audio support; 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)

Remote Control

Input:	1 x 3.5 mm Stereo Mini Jack
Remote Control	Audio Control; Digital Zoom; HDMI; ID Select; ID set; Keystone Correction; Picture Adjust; Picture Mute; 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]	467 (High Bright) / 424 (Eco) / 0.8 (Network Stand-by) / 0.5 (Stand-by)

Mechanical

Dimensions (W x H x D) [mm]	407 x 499 x 164 (without lens and feet)
Weight [kg]	11.2
Fan Noise [dB (A)]	33 / 42 (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	AMX Beacon; Crestron RoomView; DICOM simulation; Direct Power-Off Function; Free Tilt; HDBaseT; High Altitude Mode; 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; NaViSet Administrator 2; Optional User Logo; OSD with 27 languages; Password Security System; PJ LINK; Portrait Setting; RS-232 Control; Test Pattern; Up to 20,000 hrs Light Source Life

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

Optional Accessories

Optional Accessories	10 optional bayonet lenses; Air Filter (NP-06FT); Cable Cover (NP10CV, NP10CV-B); 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 (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] Compliance with ISO21118-2012

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

RoHS

TUEV Type Approved

CE

ErP

This product has been equipped with a laser module and is classified as Class1 of IEC60825-1 Ed3 2014 and is classified as RG2 of IEC62471-5 Ed1 2015.
DO NOT LOOK DIRECTLY INTO THE BEAM.