

P506QL Laser Projector

Datasheet



Perfect pixel-free 4K UHD presentations

This 4K UHD laser phosphor projector delivers cost effective semi-professional projection, ensuring 'pixel-free' visualisation with 5,000 ANSI lumens brightness.

Besides its impressive picture accuracy, the projector provides an appealing proposition with Risk Group 2 compliance, drastically reducing the installation and operation effort. As well as a low TCO with 20,000 hours hassle free operation, there is no need for filter replacement. The great diversity of interfaces, including HDBaseT and 2xHDMI ensures future-proof possibilities in visualization.

With its outstanding picture quality in 'pixel-free' resolution and its appealing and compact design, the NEC P506QL projector is perfectly suited for Corporate Presentations, Museums and Higher Education allowing organisations to deliver the best in class professional presentations.

Benefits

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

Risk Group 2 saves you installation and operation effort – because of the Risk Group 2 compliance, no prescribed safety precautions are necessary.

Professional and Flexible Installation – versatile projection characteristics allow for simple positioning of the projector, making installation easy and potentially saving set up costs.

Outstanding Picture Quality – a whole new visualisation experience with up to 4K input

Setting the scene in perfect clarity – pixel-free resolution delivers large surface detail-rich information

Product Information

| | |
|---------------|-----------------|
| Product Name | P506QL |
| Product Group | Laser Projector |
| Order Code | 60004812 |

Image

| | |
|--------------------------------------|--|
| Projection Technology | 1-chip DLP™ Technology |
| Native Resolution | 3840 x 2160 (4K UHD) |
| Aspect Ratio | 16:9 |
| Contrast Ratio ¹ | 500000:1 |
| Brightness ¹ | 5000 ANSI Lumen |
| Lamp | Laser Light Source |
| Light Source Life [hrs] | 20000 ² |
| Lens | F= 1.8-2.43, f= 12.1-18.1 mm |
| Lens shift | H:±20, V:+60,-60 |
| Keystone correction | +/- 0° manual horizontal / +/- 30° manual vertical |
| Projection Factor | 1.13 - 1.7 : 1 |
| Projection Distance [m] | 1.6 - 8 |
| Screen Size (diagonal) [cm] / [inch] | Maximum: 787 / 310"; Minimum: 127 / 50" |
| Zoom | Manual; x1.5 |
| Focus Adjustment | Manual |
| Supported Resolutions | 3840 x 2160 (Maximum resolution of digital input) |

Connectivity

| | |
|---------------|--|
| RGB (analog) | Input: 1 x Mini D-sub 15 pin |
| Digital | Input: 1 x HDBaseT; 2 x HDMI™ supporting HDCP |
| Audio | Input: 1 x 3.5 mm Stereo Mini Jack for Computer analog; 2 x HDMI audio Output: 1 x 3.5 mm Stereo Mini Jack (variable) |
| Control | Input: 1 x D-Sub 9 pin (RS-232) (male) |
| LAN | 1 x RJ45; Optional WLAN |
| USB | 1 x Type B (for Service); 1x Type A (USB 2.0 high speed) with 2.0A Power Supply |
| 3D Sync | Output: 1 x Mini DIN 3pin |
| Video Signals | NTSC 3.58; NTSC 4.43; PAL; PAL-M; PAL-N; PAL60; SECAM |

Remote Control

| | |
|----------------|---|
| Remote Control | Aspect Ratio; Audio Control; Auto Adjust; Eco Mode Control; Freeze-function; Help-function; ID set; Keystone Correction; Magnify-function; Page (up, down); Picture Adjust; Picture Mute; Power (On-OFF); Presentation and Mouse Control; Select (up, down, left, right); Source Select |
|----------------|---|

Electrical

| | |
|-----------------------|--|
| Power Supply | 100-240 V AC; 50 - 60 Hz |
| Power Consumption [W] | 580 (Normal) / 330 (Eco) / 2 (Network Stand-by) / 0.5 (Stand-by) |

Mechanical

| | |
|-----------------------------|---|
| Dimensions (W x H x D) [mm] | 480 x 158 x 400 (without lens and feet) |
| Weight [kg] | 11.5 |
| Fan Noise [dB (A)] | 32 / 35 (Eco / Normal) |

Environmental Conditions

| | |
|----------------------------|-----------|
| Operating Temperature [°C] | 5 to 40 |
| Operating Humidity [%] | 20 to 80 |
| Storage Temperature [°C] | -10 to 50 |
| Storage Humidity [%] | 20 to 80 |

Ergonomics

| | |
|-----------------------|--|
| Safety and Ergonomics | CE; EAC; ErP; RoHS; TUEV Type Approved; TÜV GS |
| Speakers [W] | 1 x 10 (mono) |

Additional Features

| | |
|-------------------------|--|
| Special Characteristics | Auto Power ON/OFF; Carbon Savings Meter; Constant Brightness Mode; Control ID Function; DICOM Simulation; Direct Power-Off Function; Free Tilt; HDBaseT; Help Function; HTTP Browser Control; Kensington security slot; Keypad Lock; Light Source Adjustment; Magnify; Mouse Control with USB Display; MultiPresenter Function; NaViSet Administrator 2; Optional User Logo; OSD with 30 languages; Password Security System; Plug&Play W-LAN Option; Portrait Setting; Quick Start; Source Select with Beep Function; Test Pattern; Unique Power Saving Functions; USB Viewer; Virtual Remote for direct PC control |
|-------------------------|--|

Green Features

| | |
|----------------------|-------------------------------------|
| Ecological Materials | Downloadable manuals; ECO packaging |
| Ecological Standards | ErP compliant; RoHs compliant |

Warranty

| | |
|--------------|--|
| Projectors | 3 years pan-European service |
| Light Source | 3 years or 10000h (whatever comes first) |

Shipping Content

| | |
|-------------------|---|
| Shipping Contents | 2x AAA Batteries; IR Remote Control (477E); Mini D-SUB Signal Cable (1.8 m); Power Cord (1.8 m); Projector; Quick Setup Guide; Security Sticker; Users Manual; Utility software |
|-------------------|---|

Optional Accessories

| | |
|----------------------|--|
| Optional Accessories | Universal Ceiling Mounts (PJ01UCM, PJ02UCMPF); Wireless LAN module (NP05LM2; NP05LM4; NP05LM5) |
|----------------------|--|

¹ Compliance with ISO21118-2012

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



TUEV Type
Approved



CE



ErP



RoHS



TÜV GS

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.

This document is © 2020 NEC Display Solutions Europe GmbH.

All rights reserved in favour of their respective owners. All hardware and software names are brand names and/or registered trademarks of the respective manufacturers. All specifications are subject to change without notice. Errors and omissions are excepted. 09.09.2020