

## P502HL-2 Laser Projector

### Datasheet



#### The NEC P502HL-2 - The ultra-low maintenance projector for maximum versatility

With the NEC P502HL-2 you will enlighten your audience by delivering crisp image quality, even in challenging lighting conditions. Built upon laser light technology, it features an exceptional up to 20,000 hours maintenance free operation and revolutionizes the long life time of projectors by eliminating high lamp replacement costs for maximum reliability and little maintenance. Benefit from the integrated NEC MultiPresenter for wireless presenting functionality (optional USB WLAN adapter required) and enjoy quick connection via 4 digit pin enabling immediate wireless interaction with your audience.

With wide optical zoom, vertical/horizontal lens shift and state-of-the-art connectivity options like HDBaseT, the world's most compact 5000 ANSI Lumen Laser projector provides the possibility of using existing infrastructures, e.g. ceiling mounts and making sure that your investment is protected for the future. The NEC P502HL-2 is the ideal solution for auditoriums, large meeting rooms and classrooms, museum spaces and signage applications, projecting a screen size of up to 300".

### Benefits

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

**Wireless image sharing** – thanks to powerful networking capabilities that allow multiple users to connect simultaneously, mirror an Android device with Miracast or simply share content using a web browser.

**High reliability and low cost of ownership** – thanks to 5000 ANSI lumen Laser Light Source for up to 20,000 h maintenance free operation.

**Great connectivity** – due to numerous analog and digital connection terminals incl. HDBaseT, 2 x HDMI with 3D support.

**Free tilting and portrait mode projection** – for creative installations in museum and signage applications.

**Improved colour presentation** – best colour reproduction, enjoy even more natural colours for true-to-life images.

**Faster power off** – the projector cools within just 10 seconds of switch off.

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

## Product Information

|               |                 |
|---------------|-----------------|
| Product Name  | P502HL-2        |
| Product Group | Laser Projector |
| Order Code    | 60004400        |

## Image

|                                      |   |
|--------------------------------------|---|
| Projection Technology                | 1-chip DLP™ Technology  |
| Native Resolution                    | 1920 x 1080 (Full HD)   |
| Aspect Ratio                         | 16:9  |
| Contrast Ratio <sup>1</sup>          | 15000:1   |
| Brightness <sup>1</sup>              | 5000 ANSI Lumen   |
| Lamp                                 | Laser Light Source  |
| Lamp Life [hrs]                      | 20000   |
| Lens                                 | F= 2–2.5, f= 18.2–31.1 mm   |
| Lens shift                           | H:±0.25, V:+0.62,-0   |
| Lens Offset [%]                      | 0-62  |
| Keystone correction                  | +/- 25° manual horizontal / +/- 30° manual vertical   |
| Projection Factor                    | 1.24 – 2.1 : 1  |
| Projection Distance [m]              | 0.8 – 14.2  |
| Screen Size (diagonal) [cm] / [inch] | Maximum: 762 / 300"; Minimum: 76.2 / 30"  |
| Zoom                                 | Manual; x1.7  |
| Focus Adjustment                     | Manual  |
| Supported Resolutions                | 1920x1200 (Maximum resolution of analog input); 1920 x 1080 (Maximum resolution of digital input) |
| Frequency                            | Horizontal: 15–100 kHz (RGB: 24 kHz); Vertical: 50 – 120 Hz                                       |

## Connectivity

|               |  |
|---------------|--|
| RGB (analog)  | Input: 1 x Mini D-sub 15 pin<br>Output: 1 x Mini D-sub 15 pin  |
| Digital       | Input: 1 x HDBaseT; 2 x HDMI™ supporting HDCP  |
| Video         | Input: 1 x RCA   |
| Audio         | Input: 1 x 3.5 mm Stereo Mini Jack for Computer analog; 1 x RCA Stereo for Video; 2 x HDMI audio<br>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); 2 x Type A (USB 2.0 high speed)  |
| 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] | 442 (High Bright) / 347 (Eco) / 2 (Network Stand-by) / 0.3 (Stand-by) |

## Mechanical

|                             |   |
|-----------------------------|---|
| Dimensions (W x H x D) [mm] | 469 x 137 x 365 (without lens and feet) |
|-----------------------------|---|

|                    |                        |
|--------------------|------------------------|
| Weight [kg]        | 8.8                    |
| Fan Noise [dB (A)] | 31 / 39 (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; ErP; RoHS; TUEV Type Approved |
| Speakers [W]          | 1 x 20 (mono)                     |

### Additional Features

|                         |   |
|-------------------------|---|
| Special Characteristics | 3D ready; Auto Power ON/OFF; Carbon Savings Meter; Constant Brightness Mode; Control ID Function; DICOM Simulation; Direct Power-Off Function; Geometric correction by software; Help Function; HTTP Browser Control; Kensington security slot; Keypad Lock; Light Source Adjustment; Magnify; Manual Wall Color Correction; Miracast Connectivity; Mouse Control with USB Display; MultiPresenter Function; NaViSet Administrator 2; Off-Timer; Optional User Logo; OSD with 27 languages; Password Security System; Plug&Play W-LAN Option; Quick Start; Source Select with Beep Function; Test Pattern; Timer-Function; Unique Power Saving Functions; USB Display including Audio; 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 | IR Remote Control (RD-472E); 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 | Cable Cover (NP08CV); DLP-Link 3D Glasses (Volfoni-Fit); Free Wireless Image Utility App; Universal Ceiling Mounts (PJ01UCM); Wireless LAN module (NP05LM2; NP05LM4; NP05LM5); XpanD 3D Glasses (X105-RFX2); XpanD 3D RF Emitter (AD025-RF-X1) |
|----------------------|--|

<sup>1</sup> Compliance with ISO21118-2012



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 © 2017 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. 01.11.2017