

\Orchestrating a brighter world

**NEC**

Professional Installation Projectors

# PH Series

NP-PH1202HL1



# Powerful 3-chip 0.65" DLP installation projector with laser-phosphor light source supports new, demanding projection

## Laser Light Module

- 20,000-plus hours of virtually maintenance-free operation
- High-brightness, lower power consumption enhances applications such as retail, digital signage and theme parks
- Ability to control brightness creating a stable image over longer time periods

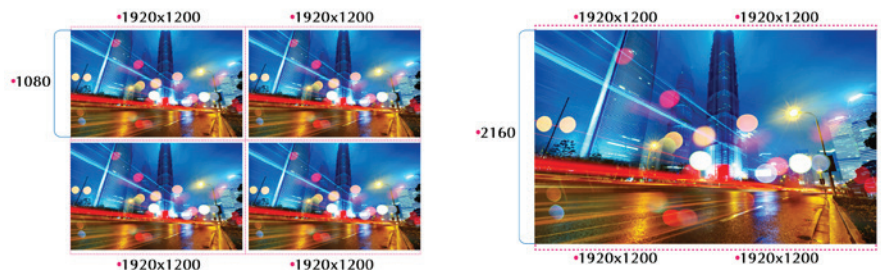
## Flexible

- Enjoy greater installation flexibility with a complete line of optional bayonet style lenses (6) for quick and easy exchange. Lens throw distances range from 4.6 to 245.1 ft
- Tilt-free installation capabilities make these projector ideal for almost any install environment, including portrait orientation
- +50%/-5% vertical lens shift and +/- 11% horizontal lens shift capabilities make alignment easy

## Screen Splitter

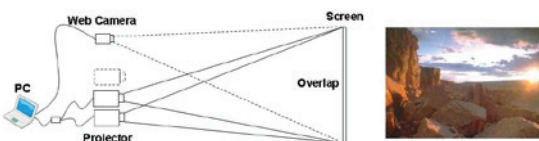
NEC is committed to bringing the latest and greatest innovation to projectors. Multi-display capabilities and TileMatrix technologies are integrated into the new PH series projectors. This processing is all done internally and therefore eliminates the additional hardware typically required to produce a beautiful 4K resolution image.

### Screen Splitter (Multi Display) by Daisy Chain



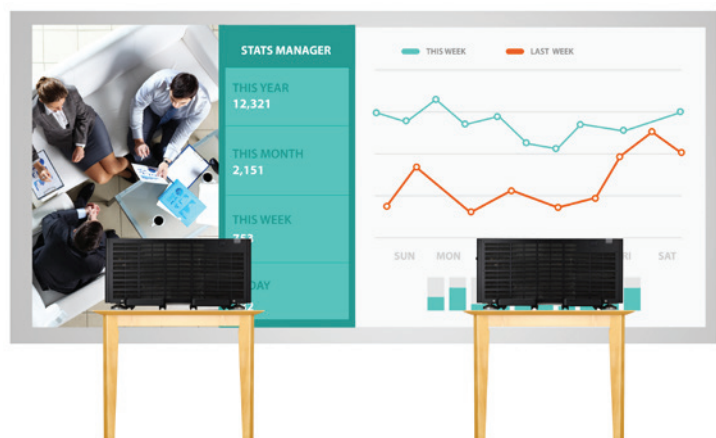
## Stacking correction

The industry's first built-in stacking correction capabilities (up to four projectors) allows the projectors to boost an image's brightness up to 48,000 lumens, which is ideal for larger-sized screens and environments with heavy ambient light. This feature also prevents the complete loss of an image, which can happen when using only one projector.



## Edge blending

This function seamlessly blends multiple projected images to display a single high-resolution image.



## Built-In HDBaseT Support

Simplify your installations with HDBaseT. Optimized for video applications and supporting uncompressed full HD digital video, audio, ethernet, power and various control signals. With only a single cable (up to 100m) to run, infrastructure and labor costs are reduced, installations are significantly easier, and there is no cable clutter to manage. With uncompressed HD video support, images have never been more stunning. What's more, control signals are contained in the same cable.



## GET CONNECTED WITH A WIDE SELECTION OF INPUTS

- **Dual computer inputs** ensure quick switching between presentations

### Remote control

Wired and wireless backlit remote allows you to adjust for complete control of the projectors menu structure in a well lit or dark environment. Direct controls such as lamp mode, aspect ratio, volume and input selection eliminates multiple button pushes.



### DisplayPort

This input provides PH Series models with expanded connectivity with advanced technology.

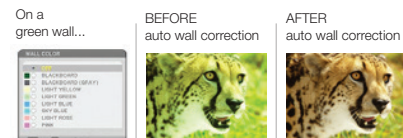


### Super Dust Protection

NEC's patented heat exchanger and the completely sealed optical engine offer continuously best performance in harsh Rental/Staging environment.

### Wall color correction presets

These provide for adaptive color tone correction to display properly on non-white surfaces.



## ADVANCED SOFTWARE FEATURES

### Cornerstone

Enhanced keystone correction allows for horizontal, vertical and diagonal image correction for aligned images even when the projector is set up at an angle to the screen.



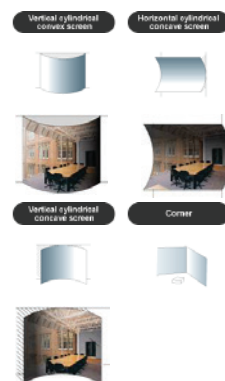
### 3D

When combined with active shutter glasses and 3D emitter, the PH Series Projectors create 3D images from a computer or Blu-ray player. The NP-PH1202HL1 utilizes the 3D sync line output from the projector to connect to the 3D emitter. Optional 3D glasses and emitters from XPAND are available from NEC.



### Geometric Correction

Projecting an image isn't confined to a standard flat screen or wall with the NEC PH Series. Geometric correction allows these models to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.



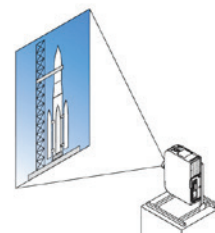
### Tilt-free

The projector can be rotated freely (360°) to orient the image depending on the installation requirements



### Portrait mode

Allows the projector to be rotated (and screen if necessary) to a vertical alignment so that portrait content can be viewed without black bars on the side when landscape mode is used.





## UNIQUE FEATURES

**3D Reform™** allows you to square the image by adjusting horizontally, vertically or diagonally when the projector cannot be placed parallel or perpendicular to the screen

**Advanced AccuBlend™** ensures detailed images when non-native resolution sources are connected to the projector

**AutoSense™** automatically syncs with any computer signal and features one-touch image optimization

**64-step image magnification** with location control

**Discreet source keys** for source selection

**Remote diagnostics** enable the user to monitor and make adjustments to the projector remotely

**Built-in HTTP page** for control and monitoring over a LAN network. Email notification of error messages or lamp end-of-life can be sent to remote locations.

## WARRANTY

Registered owners receive a five (5) years or 20,000 hours (whichever comes first) parts and labor warranty, including the first year of InstaCare. InstaCare provides the original owner one year of either limited 3 business day repair/return or next business day exchange.

## IN THE BOX

Remote control, batteries, power cord, user's manual on CD-ROM, quick start guide, Lens Hole Cap, warranty Sheet, Security Sticker, Service Door Key

## ACCESSORIES

|                        |  |
|------------------------|--|
| <b>NC1100CM</b>        | Ceiling mount  |
| <b>RMT-PJ35</b>        | Replacement remote control   |
| <b>NP01PW1</b>         | Power cable  |
| <b>RGBCBL-PJPX</b>     | RGB cable  |
| <b>Optional Lenses</b> | NP-9LS08ZM1, NP-9LS12ZM1, NP-9LS13ZM1, NP-9LS16ZM1, NP-9LS20ZM1, NP-9LS40ZM1 |
| <b>SB-01HC</b>         | HD/SS-SDI input card   |
| <b>SB-04HC</b>         | 3G/HD/SD-SDI input Card  |
| <b>SB-06WC</b>         | WiDi / Miracast Media-Player   |
| <b>XPAND</b>           | X105-RF-1 3D Glasses   |
| <b>XPAND</b>           | AD025-RF-X1 RF Emitter   |
| <b>N8000-8830</b>      | NEC OPS PC with Intel Core i5, 320GB Hard Drive, Windows Embedded Standard 7 |
| <b>N8000-8822</b>      | NEC OPS PC with Intel Celeron, 320GB Hard Drive, Windows Embedded Standard 7 |
| <b>ADVEXON1-I</b>      | Extends term of InstaCare service program to 2 years                         |
| <b>ADVEXON2-I</b>      | Extends term of InstaCare service program to 3 years                         |

## ORDERING MODEL NUMBERS

NP-PH1202HL1



|                                  |                            | PH1202HL1  |
|----------------------------------|----------------------------|--|
| Display Technology               |                            | 0.65" DMD  |
| Light Output (lumens)            |                            | 12,000 normal / Eco = variable   |
| Resolution                       | Native                     | 1080p 1920 x 1080  |
|                                  | Maximum                    | 4K 4096 x 2160   |
| Contrast Ratio (up to)           |                            | 10,000:1 with dynamic contrast   |
| Lamp Life (up to)                |                            | 20,000 hours   |
| Screen Size (diagonal)           |                            | 100 to 500 in. / 2.54 to 12.7m   |
| Throw Ratio                      | NP-9LS08ZM1 w/ lens memory | 0.9 - 1.35:1   |
|                                  | NP-9LS12ZM1 w/ lens memory | 1.27 - 1.82:1  |
|                                  | NP-9LS13ZM1 w/ lens memory | 1.41 - 2.23:1  |
|                                  | NP-9LS16ZM1 w/ lens memory | 1.71 - 2.87:1  |
|                                  | NP-9LS20ZM1 w/ lens memory | 2.25 - 4.18:1  |
|                                  | NP-9LS40ZM1 w/ lens memory | 4.31 - 6.77:1  |
| Projection Distance              |                            | 4.6 to 245.1 ft. / 1.4 to 74.7m  |
| Projection Angle                 |                            | 5.8 to 14.4° tele / 10.9 to 18.4° wide   |
| Lens                             | Zoom                       | Powered  |
|                                  | Zoom Ratio                 | Variable   |
|                                  | Focus                      | Powered  |
|                                  | NP-9LS08ZM1 w/ lens memory | F=2.5 - 3.0, f= 13.3 - 19.9mm, 4.4 lbs. (2.2 kg)   |
|                                  | NP-9LS12ZM1 w/ lens memory | F=2.5, f= 18.6 - 26.7mm, 3.8 lbs. (1.7 kg)   |
|                                  | NP-9LS13ZM1 w/ lens memory | F=2.5, f= 20.7 - 32.7mm, 3.8 lbs. (1.7 kg)   |
|                                  | NP-9LS16ZM1 w/ lens memory | F=2.5, f= 25.2 - 42mm, 3.8 lbs. (1.7 kg)   |
|                                  | NP-9LS20ZM1 w/ lens memory | F=2.5, f= 32.2 - 60.3mm, 3.8 lbs. (1.7 kg)   |
|                                  | NP-9LS40ZM1 w/ lens memory | F=2.5, f= 62.1 - 97.8mm, 3.8 lbs. (1.7 kg)   |
|                                  | Shift                      | Powered +/-0.5 vertical, +/-1.1 horizontal   |
| Keystone Correction              |                            | +/- 40° horizontal, +/- 40° vertical   |
| Synchronization Range            | Horizontal                 | Analog: 15-100kHz, Digital: 15-153kHz  |
|                                  | Vertical                   | Analog: 48-120Hz, Digital: 24-120Hz  |
| Supported Video Standards        |                            | NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM   |
| SD/HD Video Signal Compatibility |                            | 1080p, 1080i, 720p, 576p, 576i, 480p, 480i   |
| PC Signal Compatibility          |                            | VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA   |
| Macintosh Compatibility          |                            | Yes  |
| Input/Output Terminals           | RGB1 (analog)              | VGA 15 pin D-sub, Component video using ADP-CV1E adapter   |
|                                  | RGB2 (analog)              | 5-BNC  |
|                                  | RGB3 (digital)             | HDMI (V1.4) w/HDCP   |
|                                  | RGB4 (digital)             | DisplayPort w/HDCP   |
|                                  | RGB5 (digital)             | HDBaseT  |
|                                  | Option Slot                | OPS  |
|                                  | Monitor Out                | HDMI (V1.4) w/HDCP   |
| 3D Sync Line                     |                            | 3Pin D   |
| External Control                 |                            | RS-232, IR, HDBaseT, Stereo Mini, RJ-45  |
| Sync Compatibility               |                            | Separate Sync / Composite Sync / Sync on G   |
| Power Requirements               |                            | 100 - 240V AC, 50/60Hz   |
| Input Current                    |                            | 9.2A   |
| Power Consumption                |                            | (ECO off/ECO Mode/Standby/Standby+Power Saving) 1392W / 1110W / 1.83W / 5.7W   |
| Installation Orientation         |                            | Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear   |
| Dimensions (WxDxH)               |                            | 26.8 x 33.9 x 13.1 in. / 680 x 860 x 333mm   |
| Net Weight                       |                            | 149.9 lbs. / 68.0 kg   |
| Fan Noise                        |                            | 47 dB normal / 43 dB eco   |
| Regulations                      |                            | USA: UL(UL60950-1 (2) / UL, Laser + Lamp (IEC60825-1:2014 Ed.3 + IEC62471-1), FCC Part15 Class A / FCC Doc Canada: CUL(CSA C22.2 UL60950-1-07, Laser + Lamp (IEC60825-1 Ed.3 + IEC62471-1), ICES-003 Class A / Doc of Canada |
| Operating Temperature            |                            | 41° - 104°F / 5° - 40°C  |
| Humidity                         |                            | 20-80% non-condensing  |
| Storage                          |                            | -14° - 122°F / -10° - 50°C   |

\* Lens does not ship with the projector.  
Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit [www.necdisplay.com](http://www.necdisplay.com) for details.

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