**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>NP-9LS08ZM1</th>
<th>NP-9LS12ZM1</th>
<th>NP-9LS13ZM1</th>
<th>NP-9LS16ZM1</th>
<th>NP-9LS20ZM1</th>
<th>NP-9LS40ZM1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light source</td>
<td>Blue laser diode</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>860 mm x 275 mm x 660 mm</td>
<td>1,080 mm x 292 mm x 860 mm</td>
<td>1,291 mm x 333 mm x 860 mm</td>
<td>1,432 mm x 380 mm x 860 mm</td>
<td>2,073 mm x 606 mm x 860 mm</td>
<td>3,469 mm x 1,002 mm x 860 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>22.8 kg</td>
<td>27.2 kg</td>
<td>29.4 kg</td>
<td>33.6 kg</td>
<td>72.3 kg</td>
<td>113 kg</td>
</tr>
<tr>
<td>Viewing distance</td>
<td>2.6 m – 22.7 m</td>
<td>3.0 m – 25.0 m</td>
<td>3.7 m – 33.0 m</td>
<td>4.2 m – 39.0 m</td>
<td>6.5 m – 50.0 m</td>
<td>11.0 m – 85.0 m</td>
</tr>
<tr>
<td>Max. display resolution (horizontal x vertical)</td>
<td>2,048 x 1,152</td>
<td>4,096 x 2,304</td>
<td>4,096 x 2,304</td>
<td>4,096 x 2,304</td>
<td>8,192 x 4,608</td>
<td>8,192 x 4,608</td>
</tr>
<tr>
<td>Scan rate</td>
<td>Analogue: 15 kHz, 24 to 100 kHz (24 kHz or greater for RGB inputs), conforms to VESA standards</td>
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</tr>
<tr>
<td>Lens shifting</td>
<td>Power-adjustable (range depends on lens)</td>
<td>Power-adjustable (range depends on lens)</td>
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<td>Power-adjustable (range depends on lens)</td>
</tr>
<tr>
<td>Zoom ratio</td>
<td>1.58</td>
<td>1.56</td>
<td>1.58</td>
<td>1.58</td>
<td>1.58</td>
<td>1.58</td>
</tr>
<tr>
<td>Power</td>
<td>1,392 W</td>
<td>1,110 W</td>
<td>1,110 W</td>
<td>1,110 W</td>
<td>1,110 W</td>
<td>1,110 W</td>
</tr>
<tr>
<td>Power consumption</td>
<td>5.7 W</td>
<td>5.7 W</td>
<td>5.7 W</td>
<td>5.7 W</td>
<td>5.7 W</td>
<td>5.7 W</td>
</tr>
<tr>
<td>Power-adjustable</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Lens type</td>
<td>5 piece prism</td>
<td>5 piece prism</td>
<td>5 piece prism</td>
<td>5 piece prism</td>
<td>5 piece prism</td>
<td>5 piece prism</td>
</tr>
<tr>
<td>Lens control</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Lens specifications</td>
<td>See option lens specifications</td>
<td>See option lens specifications</td>
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<td>See option lens specifications</td>
<td>See option lens specifications</td>
</tr>
</tbody>
</table>

**Remote control**

- Included accessory

**Options**

- **Lens**
  - NP-9LS08ZM1
  - NP-9LS12ZM1
  - NP-9LS13ZM1
  - NP-9LS16ZM1
  - NP-9LS20ZM1
  - NP-9LS40ZM1

- **Boards**
  - OPS single board controller (computer)

**Cabinet dimensions**

**Lens specifications**

- **Specifications of main parts**
  - Weight
  - Cabinet dimensions

**Installation Projector**

**PH1202HL**

A bright 3-chip DLP laser installation projector delivering all the benefits associated with the latest laser light source technology.

http://www.nec-display.com/ap/
The PH1202HL presents super dust protection and professional installation features for superior projection performance.

**Advanced Installation Capabilities**

**High brightness and outstanding images**
The projector realizes a brightness of 12,000 lumens through use of a high-brightness laser light source, so vivid images are projected in large spaces such as halls and auditoriums. Furthermore, use of a Full-HD (1,920 × 1,080 pixels) 3-chip DLP® that allocates a single DLP® chip to each RGB color realizes high-resolution, largescreen projection that greatly surpasses that of 1-chip types. In addition, a unique high resolution function, 3rd generation contrast enhancement, increases the sense of contrast of the border areas of images to realize more vivid and sharper image projection.

**Tilt-free and portrait installation support**
The projector can be rotated freely (360°) to point up or down depending on the installation requirements and can be rotated (along with the screen if necessary) to a vertical alignment so that portrait content can be viewed without black bars on the sides when landscape mode is used.

**Built-in edge blending**
This function seamlessly blends multiple projected images to display a single high definition image.

**Multiscreen function**
Multi-display capabilities and tiling technologies are integrated into the PH series. This projector is also equipped with multiple digital input and HDMI output terminals that can connect multiple projectors in a digital daisy chain. These cutting-edge functions produce a beautiful high-resolution image, including a 4K/2K high-resolution display using 4 PH1202HL projectors and various picture in picture / picture by picture configurations.

A dustproof design supported by NEC’s unique closed-loop cooling system
The projector has a dustproof design to prevent the staining of optical components from the ingress of dust and the deterioration of brightness and image quality. Heat within the dustproof unit is exhausted from a heatsink, and the external air used for cooling does not directly contact the optical system, so the design offers both excellent dustproofing and cooling.

**Geometric Correction**
Projection 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.

**No more lamp replacements**
Up to 20,000 hours* of maintenance-free operation possible due to the laser light source.

**Fascinating cinema quality picture**
Equipped with NEC’s NV1301 4,096 × 2,160 scaler chip and the 3rd-generation contrast enhancement circuit This 10-bit video processor represents an enormous leap in video processing, with true flagship performance in noise reduction, de-interlacing and scaling.

**Compatible with diverse signal sources**
Built-in HDBaseT support
Simplify your installations with HDBaseT, which is optimized for video applications and supports uncompressed Full HD digital video, audio, Ethernet, and various control signals. With only a single cable (up to 100 m) 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.

Wide selection of inputs and outputs such as HDMI and DisplayPort
The projector is equipped with a wide range of input/output terminals and compatible with a variety of image sources, which lets you connect HDMI, DisplayPort, computer (analog), 5-core BNC, and video sources.

Other useful functions and features
- Seamless switching
- Lens shutter
- Program timer with real time clock / off timer
- Remote control ID
- Silent design for 43 dB in ECO2 mode
- Direct power on/off, auto power on/off
- PIN security
- Network control
- NaViSet Administrator 2 / PC control / Alert mail
- CRESTRON ROOMVIEW™ / AMX BEACON
- PJLink / HTTP server (projector adjustment)
- RDMS (Remote Desktop Management Service)
- HDBaseT / Ethernet (RJ-45)
- Expansion Slot

**Terminals**
- HDBaseT / Ethernet (RJ-45)
- HDMI in (4)
- DisplayPort in (1)
- REMOTE
- RS-232C
- COM (COM 1, 2, 3, 4)
- USB in
- Power on/off
- Status
- Expansion Slot
- BNC in
- GP I/O
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