

Specifications

| | | |
|--|--|--|
| Model | NP-PX1004UL-WH / NP-PX1004UL-BK | NP-PX803UL-WH / NP-PX803UL-BK |
| Method | Reflection by single DMD chip | |
| Specifications of main parts | | |
| Main panel | Size | 0.67" x LVDS (aspect ratio: 16:10) 2,304,000 (1,920 dots x 1,200 lines) |
| Projection lenses | Zoom | Power-adjustable |
| | Focus | |
| Light source | Light source (laser diode) life ² | Blue laser diode 20,000 hours |
| | Optical unit | C / W type (DLP), colour separation by colour wheel; time-multiplexing colour wheel method |
| Light output ^{3,4} | Normal mode | 10,000 ANSI lumens |
| | ECO1/ECO2 | Approx. 80% / Approx. 50% |
| Contrast ratio ⁴ (all white / all black) | Screen size | 10,000:1 with dynamic contrast 50" to 300", 100" to 350" (NP39ML) |
| | Colour reproducibility | 10-bit colour processing (approx. 1.07 billion colours) |
| Quietness (ECO2 / ECO1 / Normal mode) | Scan rate | 37 dB / 39 dB / 42 dB |
| | Horizontal | Analog: 15 kHz, 24 to 100 kHz (24 kHz or greater for RGB inputs) / Digital: 15 kHz, 24 to 153 kHz |
| Vertical | | Analog: 48 Hz, 50 to 85 Hz, 100 Hz, 120 Hz / Digital: 24 Hz, 25 Hz, 30 Hz, 48 Hz, 50 to 85 Hz, 100 Hz, 120 Hz |
| Max. display resolution (horizontal x vertical) | Analog: 1,920 x 1,200 (with Advanced AccuBlend) / Digital: 4,096 x 2,160 (with Advanced AccuBlend) | |
| Input / output connectors | | |
| Computer / component | Video input | Mini D-Sub 15-pin x 1, 5BNC x 1 |
| HDMI [®] | Video input | Type A 19-pin HDMI [®] connector with HDCP (V1.4) x 1 |
| | Audio input | Yes |
| HDMI [®] | Video output | Type A 19-pin HDMI [®] connector with HDCP (V1.4) x 1 |
| | Audio output | Yes |
| HDBaseT [™] | Video input | RJ45 x 1 (IEEE 802.3 / 802.3u 10BASE-T / 100BASE-TX), shared with Ethernet |
| | Audio input | Yes |
| DisplayPort [™] | Video input | DisplayPort 20-pin connector x 1 |
| | Audio input | Yes |
| BNC (CV) | Video input | BNC x 1 |
| BNC (Y/C) | Video input | BNC x 2 |
| PC control connector | | D-Sub 9-pin x 1 |
| USB port | | USB type A x 1 |
| Ethernet port | | RJ-45 x 1, (supports 100BASE-TX), shared with HDBaseT |
| Remote connector | | Stereo mini jack x 1 |
| 3D SYNC output terminal | | 5 V / 10 mA, synchronized signal output for 3D use |
| Option slot | | OPS type x 1 |
| Usage environment ⁵ | | |
| Operating temperature: 5 to 40°C ⁶ , operating humidity: 0 to 80% (with no condensation) Storage temperature: -10 to 60°C, storage humidity: 0 to 90% (with no condensation) Operating altitude: 0 to 3,000 m | | |
| Power supply | | |
| Power consumption | Normal | 1,220 W (110 - 130 V) / 1,165 W (200 - 240 V) |
| | ECO1 | 980 W (110 - 130 V) / 930 W (200 - 240 V) |
| | ECO2 | 625 W (110 - 130 V) / 605 W (200 - 240 V) |
| | STANDBY (NORMAL) | Less than 0.3 W |
| | STANDBY (NETWORK) | Less than 4.5 W |
| Rated input current | | 11.6 - 5.2 A |
| Cabinet colour | White: -WH, Black: -BK | |
| Dimensions (W x H x D) | 500 x 216 x 583 mm (not including lens) | |
| | 500 x 211 x 577 mm (not including protruding parts) | |
| Weight | 29.0 kg (not including lens) | 28.0 kg (not including lens) |

¹: Effective pixels are more than 99.99%.
²: Time at which the laser light source is at half brightness; not a guarantee time.
³: This is the light output value that results from setting the [LIGHT MODE] to [NORMAL] and setting the [PRESET] to [HIGH-BRIGHT] while using the NP18ZL lens (sold separately).
⁴: Compliant with ISO21118-2012.
⁵: Depending on the altitude and temperature, the projector goes into "Forced ECO MODE".
⁶: 10 to 40°C while using the NP39ML.

These specifications and the product's design are subject to change without notice.

Remote control

(included accessory)



Options

- Lenses
- NP39ML (Throw Ratio 0.38)
 - NP16FL (Throw Ratio 0.76)
 - NP31ZL (Throw Ratio 0.75-0.93)
 - NP17ZL (Throw Ratio 1.25-1.79)
 - NP18ZL (Throw Ratio 1.73-2.27)
 - NP19ZL (Throw Ratio 2.22-3.67)
 - NP20ZL (Throw Ratio 3.58-5.38)
 - NP21ZL (Throw Ratio 5.31-8.26)

Slot boards

- SDI
- SB-04HC (3G/HD/SD-SDI)



- OPS single board controller (computer)
- N8000-8866 (Core i5 60GB-SSD)
 - N8000-8865 (Core i5 320GB-HDD)

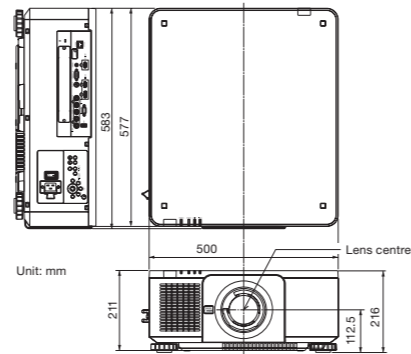


Throw distance and screen size

| Screen size (W x H) | Lens model name | | | | | | | |
|---------------------|-----------------|--------|---------|----------|-----------|-----------|-----------|-----------|
| | NP39ML | NP16FL | NP31ZL | NP17ZL | NP18ZL | NP19ZL | NP20ZL | NP21ZL |
| 50" (1.08 x 0.64) | - | 0.8 | 0.8-1.0 | 1.3-1.9 | 1.8-2.4 | 2.4-4.0 | 3.8-5.8 | 5.6-8.9 |
| 60" (1.29 x 0.81) | - | 1.0 | 1.0-1.2 | 1.6-2.3 | 2.2-2.9 | 2.8-4.8 | 4.6-7.0 | 6.8-10.7 |
| 80" (1.72 x 1.08) | - | 1.3 | 1.3-1.6 | 2.2-3.1 | 3.0-3.9 | 3.8-6.4 | 6.2-9.3 | 9.1-14.4 |
| 100" (2.15 x 1.35) | 0.8 | 1.7 | 1.6-2.0 | 2.7-3.9 | 3.7-4.9 | 4.8-8.0 | 7.7-11.7 | 11.5-18.1 |
| 120" (2.59 x 1.62) | 1.0 | 2.0 | 2.0-2.5 | 3.3-4.7 | 4.5-5.9 | 5.8-9.6 | 9.3-14.1 | 13.8-21.7 |
| 150" (3.23 x 2.02) | 1.2 | 2.5 | 2.5-3.1 | 4.1-5.8 | 5.6-7.4 | 7.2-12.0 | 11.7-17.6 | 17.4-27.3 |
| 200" (4.31 x 2.69) | 1.6 | 3.4 | 3.3-4.1 | 5.5-7.8 | 7.5-9.9 | 9.7-16.1 | 15.6-23.5 | 23.3-36.4 |
| 240" (5.17 x 3.23) | 1.9 | 4.1 | 4.0-5.0 | 6.6-9.4 | 9.1-11.9 | 11.6-19.3 | 18.8-28.3 | 28.0-43.8 |
| 300" (6.46 x 4.04) | 2.3 | 5.1 | 5.0-6.2 | 8.2-11.7 | 11.3-14.9 | 14.5-24.1 | 23.5-35.4 | 35.0-54.8 |

*Stated projection distances are standard values from lens or mirror surface to screen centre.
 *For a stack installation, the recommended projection distances will be different.
 *The values in the table are design values and may vary.

Cabinet dimensions



- Do not stare into the lens while in use.
- The laser module is equipped in this product.
- The PX803UL is classified as Class 1 of IEC60825-1 Third edition 2014-05, Class 3R of IEC60825-1 Second edition 2007-03 and RG2 of IEC62471-1 : 2006.
- The PX1004UL is categorized in the risk group 2 of IEC62471-5: 2015.
- The projector can be unplugged during its cool down period after it is turned off.
- Parts of the projector become heated during operation.
- Use caution when picking up the projector immediately after it has been operating.

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Powerful installation projector with a laser-phosphor light source

PX1004UL / PX803UL



The NEC PX1004UL and PX803UL offer all the benefits of the most up to date laser light source and professional installation features.

Advanced Installation Capabilities

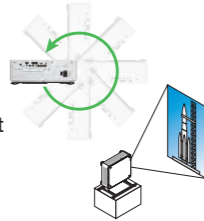
No More Lamp Replacements

Up to 20,000 hours* of maintenance-free operation is possible due to the laser light source.

* Actual hours may vary depending on usage conditions.

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.



Geometric Correction

Projection is not confined to a standard flat screen or wall. Geometric correction allows this model to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.



Stacking Correction

This feature allows the projectors to boost an image's brightness up to 40,000 ANSI lm, 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.

Easy Installation

A selection of wide zoom bayonet lenses, wide vertical and horizontal lens shift and control code emulation guarantee hassle-free installation and replacement of existing installation projectors.

Dustproof Design Supported by Closed-loop Cooling

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.

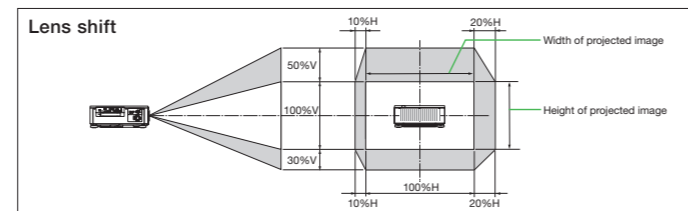
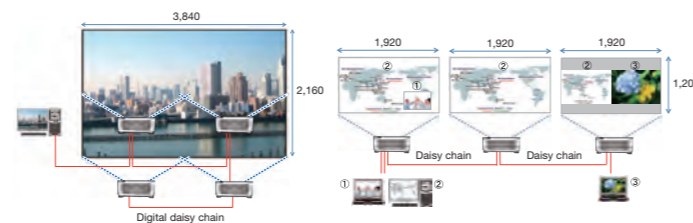
Built-in Edge Blending

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



Multiscreen Function

Multi-display capabilities and tiling technologies are integrated. The 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 projectors and various picture in picture / picture by picture configurations.



| | NP39ML | NP16FL | NP31ZL | NP17ZL | NP18ZL | NP19ZL | NP20ZL | NP21ZL |
|-----------------|-------------------------------|------------------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| Option lens | | | | | | | | |
| Lens type | Fixed ultra-short mirror lens | Fixed short throw lens | Zoom lens | | | | | |
| Zoom/Focus | Powered focus | | Powered zoom and focus | | | | | |
| Zoom ratio | - | - | 1.25 | 1.41 | 1.31 | 1.65 | 1.5 | 1.55 |
| Throw Ratio | 0.38 : 1 | 0.76 : 1 | 0.75 - 0.93 : 1 | 1.25 - 1.79 : 1 | 1.73 - 2.27 : 1 | 2.22 - 3.67 : 1 | 3.58 - 5.38 : 1 | 5.31 - 8.26 : 1 |
| F | 2.0 | 1.85 | 1.96 - 2.30 | 1.85 - 2.50 | 1.64 - 1.86 | 1.86 - 2.48 | 1.85 - 2.40 | 1.85 - 2.48 |
| f (mm) | 5.64 | 11.6 | 11.3 - 14.1 | 18.7 - 26.5 | 25.7 - 33.7 | 32.91 - 54.23 | 52.8 - 79.1 | 78.5 - 121.9 |
| Screen size | 100 - 350 inches | | 50 - 300 inches | | | | | |
| Light output *1 | PX1004UL 7,700 ANSI lm | 9,300 ANSI lm | 8,700 ANSI lm | 9,100 ANSI lm | 10,000 ANSI lm | 9,200 ANSI lm | 8,700 ANSI lm | 8,700 ANSI lm |
| | PX803UL 6,200 ANSI lm | 7,500 ANSI lm | 7,000 ANSI lm | 7,300 ANSI lm | 8,000 ANSI lm | 7,400 ANSI lm | 7,000 ANSI lm | 7,000 ANSI lm |
| Lens Shift | Vertical | | +0.5V / -0.3H | | | | | |
| | Horizontal | | 0.1H and other side 0.2H (refer to the image) | | | | | |
| Weight | 2.7 kg | 0.9 kg | 1.3 kg | 1.1 kg | 0.8 kg | 1.0 kg | 1.0 kg | 1.35 kg |

*1: [PRESET] mode is [HIGH-BRIGHT]

Fantastic Cinema Quality Picture

Equipped with NEC's NV1301 4,096 × 2,160 Scaler Chip and the 3rd-generation Sweetvision™ Circuit

This 10-bit video processor represents an enormous leap in video processing, with true flagship performance in noise reduction, de-interlacing and scaling.



- 4K Ultra HD support (4,096 × 2,160 / 3,840 × 2,160)
- 12-bit gamma correction
- Advanced colour correction (6-axis saturation and hue adjustment / skin tone)
- Video and film cadence detection (multi cadence)
- Per-pixel motion adaptive de-interlacing
- Detail enhancement
- Super resolution correction (3rd-generation Sweetvision™)
- 3D random, mosquito and block noise reduction

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 labour 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 is 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.

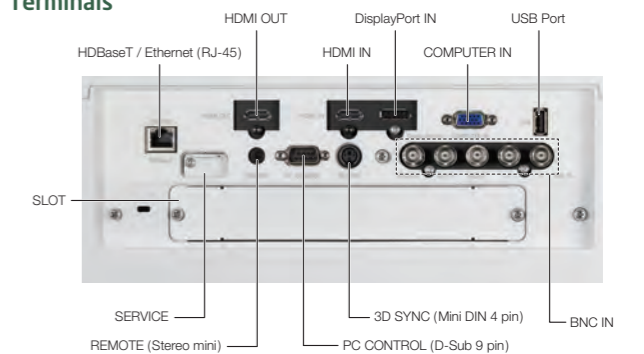


Expansion Slot

The slot technology allows for the integration of Open Pluggable Specification (OPS*) boards and other option slot products without the need to store additional external equipment. This offers the greater flexibility customers require.

*OPS is a standard established by Intel Corporation.

Terminals



Other Useful Functions and Features

- Lens shutter
- Program timer with real time clock / off timer
- Remote control ID
- Direct power on/off, auto power on/off
- PIN security / control panel lock / security bar / security slot

Network Control

NaViSet Administrator 2 / PC control / alert mail
CRESTRON ROOMVIEW™ / AMX BEACON
PJLink / HTTP server (projector adjustment)



PX1004UL-BK
PX803UL-BK

PX1004UL-WH
PX803UL-WH



PX1004UL

10,000 ANSI lumens WUXGA 29.0 kg

Brightness using PX1004UL with NP18ZL. Weight does not include lens.

PX803UL

8,000 ANSI lumens WUXGA 28.0 kg

Brightness using PX803UL with NP18ZL. Weight does not include lens.