

Empowered by Innovation



Professional Installation Projectors

# PA Series

Ideal for corporate, higher education and museum applications



[www.necdisplay.com](http://www.necdisplay.com)

# Powerful installation projectors equipped to take on the most demanding integration projects

## Powerful Tools

- Multi-display support with Picture by Picture/Picture Out Picture
- TileMatrix (internal multi-screen splitter) enables 4Kx2K resolution utilizing 4 projectors without the need for external hardware
- Built-in daisy chain capabilities support multi-display applications
- Seamlessly blend multiple images with integrated edge blending capabilities

## Integrated

- Project uncompressed FHD video with integrated HDBaseT™
- High performance video processing/scaling creates life-like images
- Integrated software applications such as Crestron Roomview, AMX Beacon and PJ Link allow for complete interactivity and control

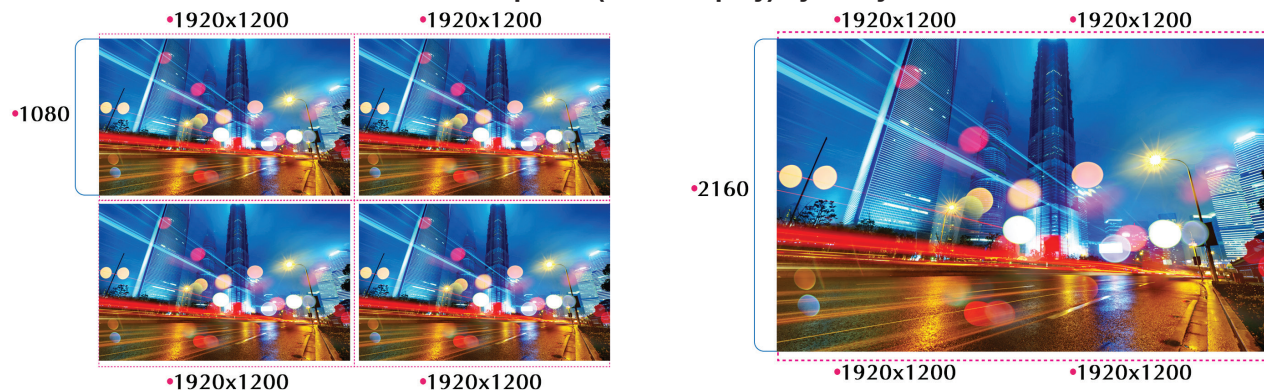
## Flexible

- Enjoy greater installation flexibility with a complete line of optional bayonet style lenses (6) for quick and easy exchange. Lens throw distances range from 2.5 to 68.5 ft
- Tilt-free installation capabilities make these projector ideal for almost any install environment, including portrait orientation
- Up to 60% vertical lens shift and +/- 30% horizontal lens shift capabilities make alignment easy

## Screen Splitter

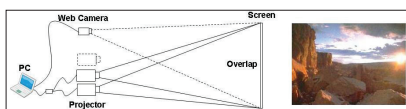
NEC is committed to bringing the latest and greatest innovation to projectors. Multi-display capabilities and TileMatrix technologies are integrated into the new PA series projectors. This processing is all done internally and therefore eliminates the additional hardware typically required to produce 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 28,800 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.



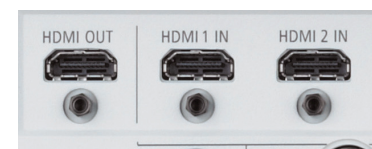
## Edge blending

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



## Dual HDMI inputs

Among the PA Series' wide selection of inputs are dual HDMI w/HDCP for connecting to high-definition sources such as Blu-ray players, cable boxes, satellite receivers and personal computers. With multiple HDMI connections, loop out up to four projectors.



## 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
- **Four audio inputs (two mini stereo [Comp1 & Comp2] and HDMI™)** make it easy to add sound to enhance your presentations

### Remote control

Wired and wireless backlit remote allows you to adjust for complete control of the projector's 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

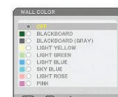
This input provides PA Series models with expanded connectivity with advanced technology.



### Wall color correction presets

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

On a green wall...



BEFORE auto wall correction



AFTER auto wall correction



### Input panel cover

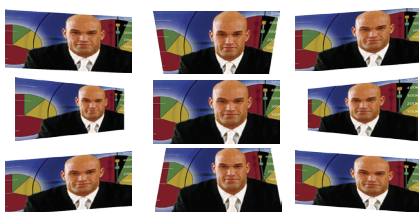
This optional accessory creates a clean look for your installation, while hiding signal cables and the power cord.



## 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.



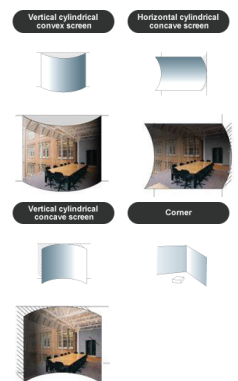
### 3D

When combined with active shutter glasses and 3D emitter, the PA Series Projectors create 3D images from a computer or Blu-ray player. The PA672W/PA622U/PA722X utilize 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 PA Series. Geometric correction allows these models to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.



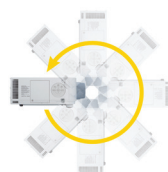
### 4000-hour filter life

NEC is committed to designing its products to provide long lifecycles. This virtually maintenance-free filter reduces the frequency at which cleaning is required, thereby decreasing total cost of ownership.



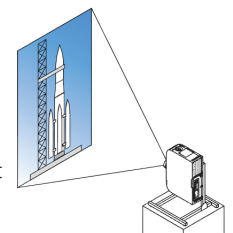
### Tilt-free

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

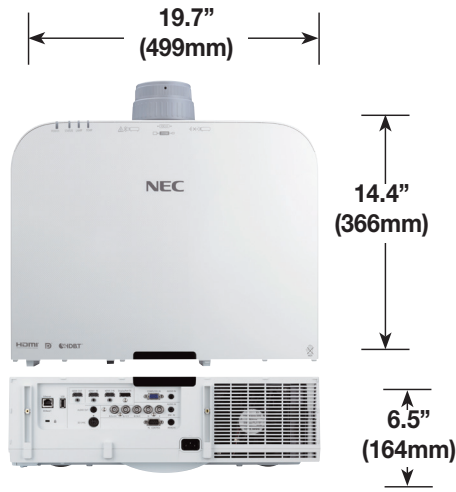


### Portrait mode

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.



## Specifications for PA672W/PA622U/PA722X



### 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

**Virtual Remote** Used via a network connection (wired/wireless), you can control the projector directly from a computer without the need for additional control cables.

**Variable audio-out** enables the remote control to be used to adjust volume of self-powered external speakers that are connected to the projector. In stand-by mode, the audio-out stays active, allowing the last input used to pass to the self-powered external speakers.

**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 3-year parts and labor warranty including the first year of InstaCare. The lamp is covered for one year or 500 hours, whichever comes first. 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, RGB signal cable, lens cap, user's manual on CD-ROM, quick start guide, product registration card, wired and wireless network setup guide.

### ORDERING MODEL NUMBERS

NP-PA672W  
NP-PA622U  
NP-PA722X

<p><b>OPTICAL</b> Display Technology</p> <p>Light Output (lumens)</p> <p>Resolution Native</p> <p>Maximum Contrast Ratio (up to)</p> <p>Lamp Type</p> <p>Lamp Life (up to)</p> <p>Screen Size (diagonal)</p> <p>Throw Ratio</p> <p>NP11FL NP12ZL NP13ZL NP14ZL NP15ZL NP30ZL</p> <p>Projection Distance</p> <p>Projection Angle</p> <p>Lens*</p> <p>Zoom</p> <p>Zoom Ratio</p> <p>Focus</p> <p>F-number, f-number</p> <p>NP11FL NP12ZL NP13ZL NP14ZL NP15ZL NP30ZL</p> <p>Shift</p> <p>Keystone Correction</p>	<p>PA672W: 0.75" LCD with MLA PA622U: 0.76" LCD with MLA PA722X: 0.79" LCD with MLA</p> <p>PA672W: 6700 normal PA622U: 6200 normal PA722X: 7200 normal</p> <p>PA672W: WXGA 1280 x 800 PA622U: WUXGA 1920 x 1200 PA722X: XGA 1024 x 768 WUXGA 1920 x 1200 6000:1 with auto iris 350W AC / 264W eco 3000 hours normal / 4000 hours eco 40 to 500 in. / 1.02 to 12.7m</p> <p>0.80:1 1.19 - 1.56:1 1.50 - 3.02:1 2.97 - 4.79:1 4.70 - 7.02:1 0.79 - 1.04:1 2.5 to 68.5 ft. / 0.74 to 20.9m 10.3 to 10.8° tele / 13.7 to 14.5° wide</p> <p>Manual NP11FL: NA / NP12ZL: 1 to 1.31 / NP13ZL: 1 to 2.01 / NP14ZL: 1 to 1.61 / NP15ZL: 1 to 1.53 / NP30ZL: 1 to 1.3 Manual</p> <p>F= 2.3, f= 13.2mm F= 2.2 to 2.69, f= 19.4 to 25.3mm F= 1.7 to 2.37, f= 24.2 to 48.6mm F= 2.2 to 2.64, f= 48.5 to 77.6mm F= 2.2 to 2.7, f= 76.8 to 116.5mm F= 1.9 to 2.1, f= 13.2 to 17.2mm</p> <p>PA622U/PA722X: Mechanical -0.1 to +0.5 vertical, +/- 0.3 horizontal PA672W: Mechanical -0.1 to +0.6 vertical, +/- 0.3 horizontal +/- 40° horizontal, +/- 40° vertical</p>
<p><b>SIGNAL COMPATIBILITY/CONNECTIVITY</b></p> <p>Scan Rate</p> <p>Horizontal</p> <p>Vertical</p> <p>Supported Video Standards</p> <p>SD/HD Video Signal Compatibility</p> <p>PC Signal Compatibility</p> <p>Macintosh Compatibility</p> <p>Input/Output Terminals</p> <p>RGB1 (analog)</p> <p>RGB2 (analog)</p> <p>RGB3 (digital)</p> <p>RGB4 (digital)</p> <p>RGB5 (digital)</p> <p>RGB6 (digital)</p> <p>Audio</p> <p>Monitor Out</p> <p>Audio Out</p> <p>3D Sync Line</p> <p>Audio</p> <p>External Control</p> <p>Sync Compatibility</p>	<p>15 - 153 kHz 48 - 120 Hz</p> <p>NTSC, NTSC443, PAL, PAL-60, PAL-M, PAL-N, SECAM 1080p, 1080i, 720p, 576p, 576i, 480p, 480i</p> <p>VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA Yes</p> <p>VGA 15-pin D-sub 5-BNC HDMI w/ HDCP HDMI w/ HDCP DisplayPort w/ HDCP HDBaseT™ Mini stereo HDMI Mini stereo (Variable audio out) 3Pin D 10W mono RS-232, IR, HDBaseT™, DDC/CI, USB, Mini Stereo Separate Sync / Composite Sync / Sync on G</p>
<p><b>ELECTRICAL</b></p> <p>Power Requirements</p> <p>Input Current</p> <p>Power Consumption (ECO off/ECO Mode/Standby/Standby-Power Saving)</p>	<p>100 - 240V AC, 50/60Hz 5.1A 460W / 362W / 7.4W / 0.11W</p>
<p><b>MECHANICAL</b></p> <p>Optional Lenses</p> <p>Installation Orientation</p> <p>Dimensions (WxDxH)</p> <p>Net Weight</p> <p>Fan Noise</p> <p>Regulations</p>	<p>NP11FL, NP12ZL, NP13ZL, NP14ZL, NP15ZL, NP30ZL Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear 19.7 x 14.4 x 6.5 in. / 499 x 366 x 164mm 18.5 lbs. / 8.4 kg 39 dB normal / 33 dB eco USA: UL 1950 FCC Class B, Canada: CSA950 (C-UL), NOM</p>
<p><b>ENVIRONMENTAL</b></p> <p>Operating Temperature</p> <p>Humidity</p> <p>Storage</p>	<p>41° - 104°F / 5° - 40°C 20-80% non-condensing -14° - 122°F / -10° - 50°C</p>
<p><b>ACCESSORIES</b></p> <p>SCP200</p> <p>NP3250CM</p> <p>NP11FL</p> <p>NP12ZL</p> <p>NP13ZL</p> <p>NP14ZL</p> <p>NP15ZL</p> <p>NP30ZL</p> <p>NP26LP</p> <p>NP04CV</p> <p>NP02LM1</p> <p>NMT-PJ37</p> <p>PW RCRD-PJPX</p> <p>RGBCBL-PJPX</p> <p>NECEW2-I</p> <p>ADVEXON1-I</p> <p>ADVEXON2-I</p> <p>NEECO</p>	<p>Suspended ceiling plate Ceiling mount 0.8:1 fixed short throw lens 1.19 - 1.56:1 zoom lens 1.5 - 3.0:1 zoom lens 2.97 - 4.79:1 zoom lens 4.7 - 7.2:1 zoom lens 0.79 - 1.04:1 zoom lens Replacement lamp Terminal cover Wireless LAN module Replacement remote control Power cable RGB cable Extends term of parts and labor warranty to 4 years Extends term of InstaCare service program to 2 years Extends term of InstaCare service program to 3 years Projector recycling program, disposal certificate</p>

\* 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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