Professional Installation Projectors ideal for corporate, higher education and museum applications

PA Series
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

**Flexible**
- Enjoy greater installation flexibility with a complete line of optional bayonet style lenses 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

**Integrated**
- 4K Ready - HDR10, BT.2020 signal format applicable for use with the “Ultra HD Blu-ray” and “4K TV broadcasting” Project uncompressed FHD video with integrated HDBaseT™
- High performance video processing/scaling creates life-like images
- Integrated software applications such as AMX Beacon, Crestron Roomview, Extron XTP and PJ Link allow for complete interactivity and control
- Basic control of competitors product reducing the need for reprogramming of a control system. (call NEC for complete list)

**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.

**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 36,000 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.

**MultiPresenter**
Utilization of the optional MultiPresenter Stick provides those looking for a network connection easy connection with up to 12 devices at once. (Win, MAC, Android, IOS) Screen mirroring for Android and Win. Simple annotation software.
**Digital Inputs**

Among the PA Series’ wide selection of inputs are dual HDMI w/HDCP and DisplayPort w/HDCP for connecting to high-definition sources such as Blu-ray players, cable boxes, satellite receivers and personal computers.

**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.

**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 PA Series 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.

**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.

**10,000-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.

**GET CONNECTED WITH A WIDE SELECTION OF INPUTS**

- Multiple Digital computer inputs ensure quick switching between presentations
- Five audio inputs (one mini stereo [HDMI1™ & HDMI2™, DisplayPort and HDBaseT™) make it easy to add sound to enhance your presentations

**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.
### Specifications

**Display Technology**
- PA653U: 0.76" LCD w MLA
- PA803U: 0.76" LCD w MLA
- PA853W: 0.76" LCD w MLA
- PA903X: 0.76" LCD w MLA

**Light Output (lumens)**
- PA653U: 6500 normal / 8000 normal / 9000 normal
- PA803U: 6500 normal / 8000 normal / 9000 normal
- PA853W: 6500 normal / 8000 normal / 9000 normal
- PA903X: 6500 normal / 8000 normal / 9000 normal

**Native Resolution**
- PA653U: 1024 x 768
- PA803U: 1024 x 768
- PA853W: 1024 x 768
- PA903X: 1024 x 768

**Contrast Ratio (up to)**
- PA653U: 8,000:1 with auto iris
- PA803U: 10,000:1 with auto iris
- PA853W: 8,000:1 with auto iris
- PA903X: 10,000:1 with auto iris

**Lamp Life (up to)**
- PA653U: 4000 hours normal / 5000 hours eco
- PA803U: 4000 hours normal / 5000 hours eco
- PA853W: 4000 hours normal / 5000 hours eco
- PA903X: 4000 hours normal / 5000 hours eco

**Screen Size (diagonal)**
- PA653U: 40 to 500 in. / 1.02 to 12.7m, NP40ZL, NP41ZL, NP42ZL (50 to 500 in. / 1.27 to 12.7m)
- PA803U: 40 to 500 in. / 1.02 to 12.7m
- PA853W: 40 to 500 in. / 1.02 to 12.7m
- PA903X: 40 to 500 in. / 1.02 to 12.7m

**Zoom**
- Variable

**Throw Ratio**
- NP653U: 0.79:1
- NP803U: 0.79:1 - 1.06:1
- NP853W: 1.16:1 - 1.36:1
- NP903X: 1.46:1 - 2.22:1

**Lens**
- Manual Focus / Manual Zoom / Power Focus / Power Zoom

**Horizontal Analog**
- 48-120Hz

**Vertical Analog**
- 48-120Hz

**Horizontal Digital**
- 15-153kHz

**Vertical Digital**
- 15-153kHz

**Projection Distance**
- 2.5 to 68.5 ft. / 0.74 to 20.9m

**Projection Angle**
- 10.3 to 10.8° tele / 13.7 to 14.5° wide

**Input Terminals**
- RGB1 (analog) VGA 15 pin D-sub, Component video using ADP-CV1E adapter
- RGB2 (digital) HDMI (V1.4) w/HDCP (V2.2)
- RGB3 (digital) HDMI (V1.4) w/HDCP (V2.2)
- RGB4 (digital) DisplayPort w/HDCP (V1.4)
- RGB5 (digital) HDMI w/HDCP (V2.2)
- Audio In: Stereo Mini Jack

**Output Terminals**
- Monitor Out: HDBaseT
- Audio Out: Stereo Mini Jack

**3D Sync Line**
- 3Pin D

**Audio Out**
- Stereo Mini Jack

**Dimensions (WxDxH)**
- 19.8 x 16.2 x 6.6 in. / 503 x 411 x 168mm

**Net Weight**
- 22.5 lbs. / 10.2 kg

**Operating Temperature**
- 41° - 104°F / 5° - 40°C

**Humidity**
- 20-80% non-condensing

**Power Consumption**
- 660W (Average) / 646W (Normal) / 630W (ECO)

**Power Requirement**
- 100 – 240V AC, 50/60Hz

**Sync Compatibility**
- Separate Sync / Composite Sync / Sync on G

**Regulations**
- USA: UL 1950 FCC Class B, Canada: CSA950 (C-UL), NOM

**Energy Efficiency**
- 87% / 90% (ECO off/ECO Mode)

**Shipping Weight**
- 26 lbs. / 12 kg

**Remote Control**
- 2.4 GHz / 2.4 GHz

**Lens**
- Manual zoom / Manual focus

**Accessories**
- Remote control, batteries, power cord, user’s manual on CD-ROM, quick start guide, product registration card.

### IN THE BOX
- Remote control
- Batteries
- Power cord
- User’s manual

### 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 day business day exchange.

### ACCESSORIES
- NP12LP: Replacement Lamp
- RP82: Remote Control
- Optional Lenses: NP11L, NP22L, NP32L, NP42L, NP44L
- DT-MP10X: MultiPresenter Stick
- NP19C: Terminal Cover
- NP10G: Replacement filter
- XPAND X105-RF1: 3D Glasses
- XPAND X105-RF2: RF Emitter
- PA60CM: Ceiling mount
- AEC1600: 3” Adjustable Extension Column, 6” - 9”
- AEC12018: Adjustable Extension Column, 12” - 18”
- AEC12023: 6” Adjustable Extension Column, 2” - 3”
- AEC1035: Adjustable Extension Column, 5” - 5”
- NP10PM: Power Cord
- RGBCL/PJPK: RGB Signal Cable
- NECCEW1-I: Extends the life of parts and labor warranty for 4 years
- ADVEXION1-I: Extends the life of InstaCare service program for 2 years
- ADVEXION2-I: Extends the life of InstaCare service program for 3 years

### ORDERING MODEL NUMBERS
- NP-PA653U
- NP-PA803U
- NP-PA853W
- NP-PA903X

### UNIQUE FEATURES
- 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.
- 64-step image magnification with location control

**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.

**REMOTE MANAGEMENT**
- 64-step image magnification
- Remote location projection
- 64-step image magnification
- Remote control of external speakers
- Remote volume control
- Remote control of self-powered external speakers

**ACCESSORIES**
- Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit www.necdisplay.com for details.

**WARRANTY**
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**IN THE BOX**
- Remote control, batteries, power cord, user’s manual on CD-ROM, quick start guide, product registration card.

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