

# PA Series

## PA600X, PA550W, PA500U and PA500X digital projectors

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

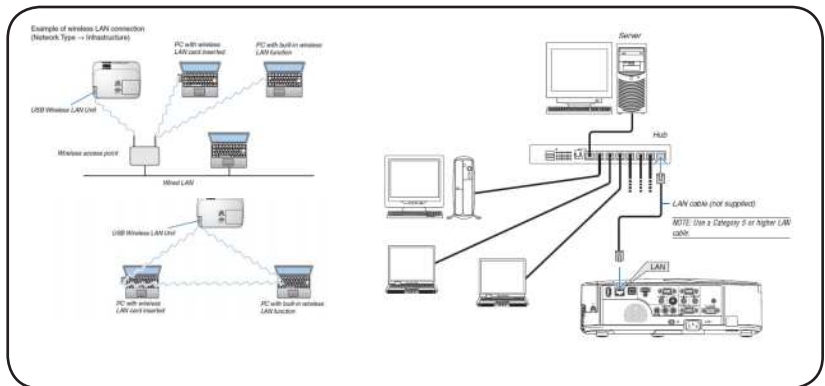
### FLEXIBILITY ENABLES PERFORMANCE

- Integrated Device Technology HQV™ is a high-performance video processing/scaling system designed for computer signals as well as standard or high-definition video. The technology produces superior video processing using pixel-based, motion-adaptive de-interlacing to remove undesirable motion artifacts typical of interlaced signals. This processing creates life-like images in applications such as video conferencing.
- Bright enough for most applications: 6000 lumens (PA600X), 5500 lumens (PA550W), 5000 lumens (PA500U and PA500X)
- Geometric correction tool allows you to project on spheres, cylinders and more



### INTEGRATED NETWORKING AND ASSET MANAGEMENT

- Integrated RJ45 connection for quick connection to the LAN (10/100 base-T capability)
- Integrated high-speed wireless LAN IEEE 802.11b/g
- Desktop control allows you to securely transmit information wirelessly to the projector from a docking station or PC in another room
- Image Express Utility (IEU 2.0; compatible with Windows or Mac operating systems) dedicated projector software provides wired and wireless data transmission via peer-to-peer or over the network
  - Broadcast mode allows you to send information from one computer to several projectors
- Windows Network Projector function within Windows Vista connects directly to networked projectors without the need for additional proprietary software
- Windows Remote Desktop function allows you to control a networked computer by connecting a USB mouse and keyboard directly to the projector's USB input
- Windows Network Drive Function displays multimedia files (.jpeg, .bmp, .png, .mpeg2 or .wmv9) in the Windows shared folder on a local network using the Viewer function – all without bringing your PC into the conference room
- Windows Media Connection Function displays multimedia files (.mpeg2, .jpeg or .wmv9) stored on the Windows Media Connect server or a local network using the Viewer function – all without bringing your PC into the conference room

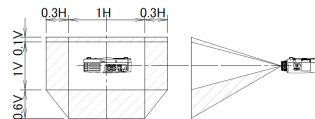


### SECURITY FEATURES PROVIDE PEACE OF MIND

- Cabinet control lock setting enables user to deactivate buttons on cabinet to prevent unwanted changes to projector settings
- Logo lock restricts changes to logo saved in projector memory
- Password protection restricts unauthorized use of projector
- Email notification informs the system administrator when the lamp approaches the end of its useful life

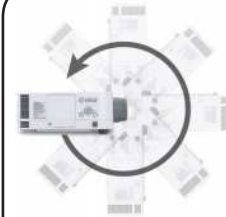
#### Lens Shift

Enjoy greater installation flexibility with up to 60% vertical lens shift and +/- 30% horizontal lens shift.



#### Tilt-Free Installation

PA Series models can be rotated freely (360°) in order to point up or down depending on the installation requirements.



## DESIGNED WITH THE ENVIRONMENT IN MIND

- **Extended lamp life with ECO Mode™ technology** increases lamp life up to 4000 hours, while lowering power consumption
- **Power management** enables projector to automatically turn off when an incoming signal is not detected from any of the inputs
- **Auto Power On** via the RGB (15-pin) input connector when a signal is detected from a computer
- **Carbon savings meter** calculates the positive effects of operating the projector in ECO Mode, which is encouraged by an optional message at startup. A green ECO Mode button on the remote control makes the switch easy.
- **Quick start (3 to 4 seconds)** lets you begin presenting in seconds while quick shutdown (immediate power off with no cooling required after shutdown) ensures efficient energy usage
- **Sleep timer** can be set to automatically turn off the projector at set countdown times
- **Low power consumption** (0.2W in stand-by mode) minimizes energy costs
- **Direct power off** provides instantaneous shutdown of the projector



### 4000-hour filter life

NEC is committed to designing its products to provide long lifecycles. This commitment even extends to components within its products, including the improved filter. This virtually maintenance-free filter reduces the frequency at which cleaning is required, thereby decreasing your total cost of ownership.



## BUILT-IN SOFTWARE

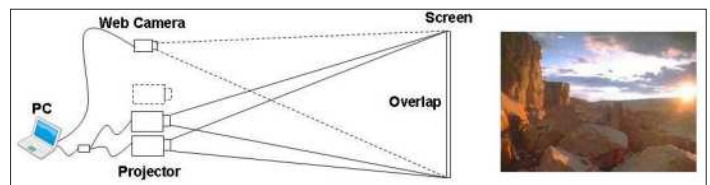
### Edge blending

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



### Built-in 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 24,000 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.



### PIP/Side-by-Side

This function allows two sources to be displayed on the screen at one time in either a picture-in-picture or side-by-side configuration.



### Built-in 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



### DICOM SIM

DICOM Simulation enables users in medical environments to display accurate diagnostic images.



## GET CONNECTED WITH A WIDE SELECTION OF INPUTS

- **Dual computer inputs** ensure quick switching between presentations
- **Four audio inputs (two mini stereo [Comp1 & Comp2], R/L [RCA - shared by video sources] and HDMI®)** make it easy to add sound to enhance your presentations

### Remote control

Easy control from remote allows you to adjust lamp mode, aspect ratio, volume and image all with the touch of a button.



### HDMI input

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



### Variable audio-out

This input 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.



### USB Viewer

In instances when you'd prefer to leave your laptop behind for a presentation, PA Series projectors can deliver a solution. Using the presentation conversion software included with your projector, simply place your file onto a USB drive and plug it into the projector's USB port. This allows you to display images stored as .jpps from optional USB memory.



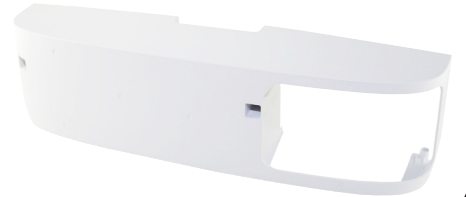
### DisplayPort

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



### Input panel cover

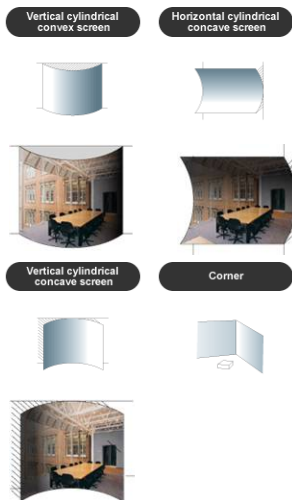
This optional accessory creates a clean look for your installation, while hiding signal cables and the power cord.



## ADVANCED SOFTWARE FEATURES

### 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.



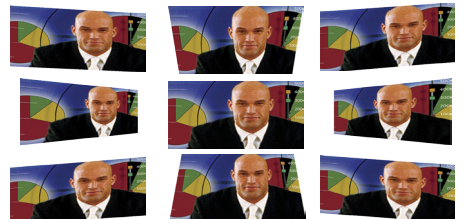
### Virtual Remote™ (DDC/CI)

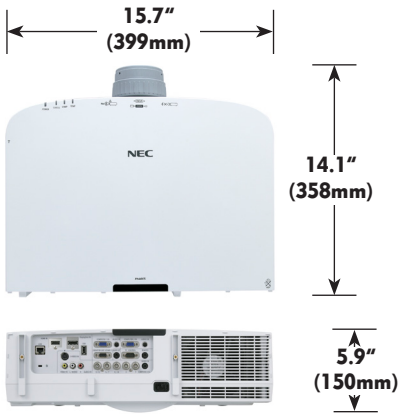
Used over the VGA cable, you can control the projector directly from a computer without the need for additional control cables.



### 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.





## 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 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, remote control cable, 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, lens anti-theft screw

## Ordering Model Numbers

NP-PA600X  
NP-PA550W  
NP-PA500U  
NP-PA500X



**HQV**



## Specifications for PA600X/PA550W/PA500U/PA500X

### OPTICAL

#### Display Technology

PA600X/PA500X: 0.79" LCD with MLA  
PA550W: 0.75" LCD with MLA  
PA500U: 0.76" LCD with MLA

#### Resolution Native

PA600X/PA500X: XGA 1024 x 768  
PA550W: WXGA 1280 x 800  
PA500U: WUXGA 1920 x 1200

#### Maximum Light Output (lumens)

WUXGA 1920 x 1200  
PA600X: 6000 normal  
PA550W: 5500 normal  
PA500X/PA500U: 5000 normal

#### Contrast Ratio

2000:1 with auto iris

#### Lamp Type

330W AC

#### Lamp Life (up to)

3000 hours normal / 4000 hours eco

#### Screen Size (diagonal)

25 to 500 in, 635 to 12,700mm

#### Throw Ratio

1.5 to 3 (standard lens)

#### Projection Distance

2.5 to 68.5 ft, 0.74 to 20.9 m

#### Projection Angle

10.3 to 10.8° tele / 13.7 to 14.5° wide

#### Lens

1 to 1.33

#### Zoom

Manual

#### Focus

F = 1.7 to 2.2, f = 24.4 to 32.5mm

#### F-number

PA600X/PA500U/PA500X: mechanical -0.1 to +0.5 vertical, +/-0.3 horizontal

#### Shift

PA550W: mechanical -0.1 to +0.6 vertical, +/-0.3 horizontal

#### Keystone Correction

PA500X/PX550W/PA600X: +/- 40 degrees horizontal, +/- 30 degrees vertical

PA500U: +/- 35 degrees horizontal, +/- 30 degrees vertical

### SIGNAL COMPATIBILITY/CONNECTIVITY

#### Scan Rate

Horizontal 15 – 108 kHz / Vertical 48 – 120 Hz

#### 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

#### Macintosh Compatibility

Yes

#### Input/Output Terminals

15 pin

#### RGB 1 (analog)

15 pin

#### RGB2 (analog)

5-BNC

#### RGB3 (analog)

HDMI w/ HDCP

#### RGB4 (digital)

DisplayPort

#### RGB5 (digital)

RCA

#### Video 1

S-Video

#### Video 2

(2) L/R RCA, (3) mini stereo

#### Audio

mini VAO

#### Audio Out

Yes

#### Monitor Out

10W mono

#### External Control

RS-232, IR

#### Sync Compatibility

Separate Sync / Composite Sync / Sync on G

### ELECTRICAL

#### Power Req.

100 – 240V AC, 50/60Hz

#### Input Current

5.1A

#### Power Consumption (Normal/Eco Mode/ Standby/Network Standby/Power-Saving)

PA500X/PA550W/PA600X: 464W / 372W / 16W / 6W / 0.2W

PA500U: 477W / 384W / 16W / 6W / 0.2W

### MECHANICAL

#### Installation Orientation

Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear

#### Dimensions (WxDxH)

19.6 x 14.1 x 5.7 in. / 499 x 359 x 144mm

#### Net Weight

17.6 lbs. / 8 kg

#### Fan Noise

PA500X/PA550W/PA600X: 38 dB normal / 31 dB eco

PA500U: 38 dB normal / 32 dB eco

#### Regulations

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

### ENVIRONMENTAL

#### Operational Temp

41° – 104°F / 5° – 40°C

#### Humidity

20-80% non-condensing

#### Storage

14° – 122°F / -10° – 50°C

### ACCESSORIES

#### SCP200

Suspended ceiling plate

#### NP3250CM

Ceiling mount

#### NP11FL

0.8:1 fixed short throw lens

#### NP12ZL

1.19 - 1.56:1 zoom lens

#### NP13ZL

1.5 – 3.0:1 zoom lens

#### NP14ZL

2.97 - 4.79:1 zoom lens

#### NP15ZL

4.7 - 7.2:1 zoom lens

#### NP21LP

Replacement lamp

#### NP02CV

Terminal cover

#### NP02LM1

Wireless LAN module

#### RMT-PJ33

Replacement remote control

#### PW RCRD-PJPX

Power cable

#### RGBCBL-PJPX

RGB cable

### WARRANTY PROGRAMS

#### NECEW2-I

Extends term of parts and labor warranty to 4 years

#### ADVEXON1-I

Extends term of InstaCare service program to 2 years

#### ADVEXON2-I

Extends term of InstaCare service program to 3 years

#### NECECO

Projector recycling program, disposal certificate

Additional accessories are available, including screens, carts, mount accessories and replacement cables.

Visit [www.necdisplay.com](http://www.necdisplay.com) for details.

3D Reform, Advanced AccuBlend, AutoSense and ECO Mode are trademarks of NEC Display Solutions. All other brand or product names are trademarks or registered trademarks of their respective holders. Product specifications subject to change. 3/11 ver. 2.

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