PA Series

PA600X, PA550W, PA500U and PA500X digital projectors

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

FLEXIBILITY ENABLES PERFORMANCE

• High-performance video processing/scaling, utilizing the Hollywood Quality Video processor, is 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)

INTEGRATED NETWORKING AND ASSET MANAGEMENT

• Integrated RJ45 connection for quick connection to the LAN (10/100 base-T capability)
• Optional high-speed wireless LAN IEEE 802.11b/g/n
• 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
• Crestron Roomview Connected™

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
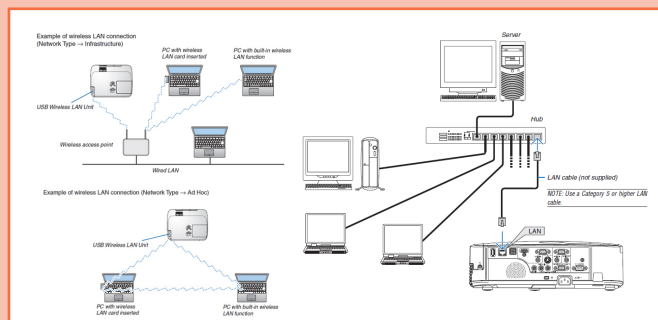
Lens Shift
Enjoy greater installation flexibility with 60% vertical lens shift and +/- 30% horizontal lens shift. Ships lensless with a complete line of optional bayonet style lenses (5) for quick and easy exchange. Lens throw distances range from 2.5 to 68.5 feet.
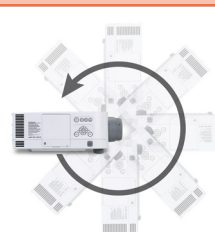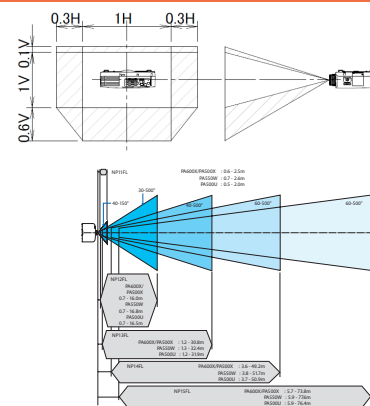
Tilt-Free Installation
PA Series models can be rotated freely (360°) in order to point up or down depending on the installation requirements.

NEC

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

ECO MODE

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. Filter replacement is only required at the time the lamp is replaced.
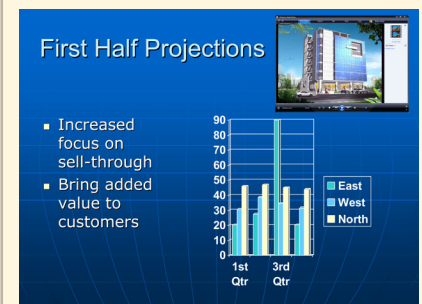
BUILT-IN SOFTWARE

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.

Web Camera · Screen · Overlap · PC · Projector
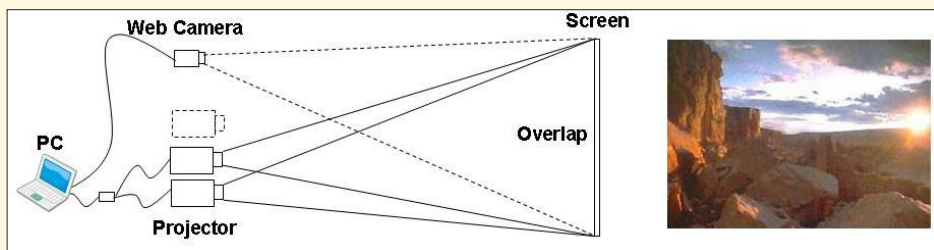
PIP/Side-by-Side
This function allows two sources to be displayed on the screen at one time in either a picture-in-picture or side-by-side configuration.

First Half Projections
- Increased focus on sell-through
- Bring added value to customers

90 80 70 60 50 40 30 20 10 0
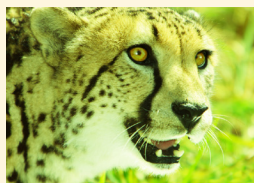1st Qtr 3rd Qtr
East West North

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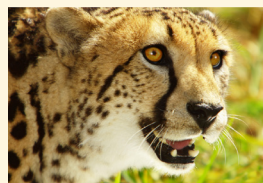These provide for adaptive color tone correction to display properly on non-white surfaces.

On a green wall...

WALL COLOR
OFF
BLACKBOARD
BLACKBOARD (GRAY)
LIGHT YELLOW
LIGHT GREEN
LIGHT BLUE
SKY BLUE
LIGHT ROSE
PINK

BEFORE
auto wall correction

AFTER
auto wall correction

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

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

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

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

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.

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

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 .jpgs from optional USB memory.

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.
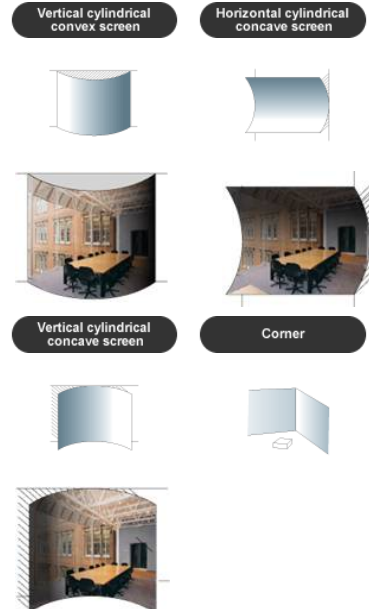
ADVANCED SOFTWARE FEATURES

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.
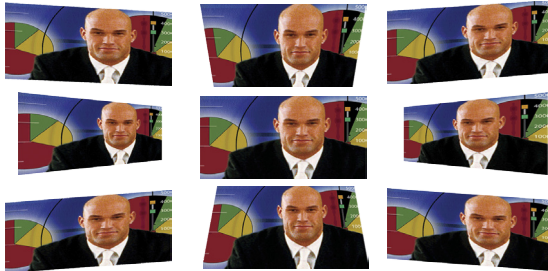
Geometric Correction
Projecting an image isn't confined to a standard flat screen or wall with the NEC PA Series. Geometric correction allows these models to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.

Vertical cylindrical convex screen

Horizontal cylindrical concave screen

Vertical cylindrical concave screen

Corner

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.

19.6"
(499mm)

14.4"
(366mm)

6.5"
(164mm)
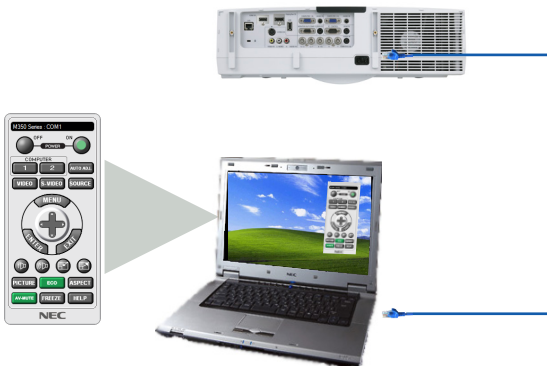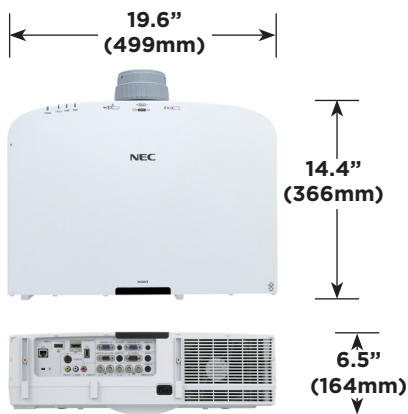
UNIQUE FEATURES

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, 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-PA550U
NP-PA500X

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
Light Output (lumens)	PA600X: 6000 normal PA550W: 5500 normal PA500X/PA500U: 5000 normal
Resolution	
Native	PA600X/PA500X: XGA 1024 x 768 PA550W: WXGA 1280 x 800 PA500U: WUXGA 1920 x 1200
Maximum	WUXGA 1920 x 1200
Contrast Ratio (up to)	2000:1 with auto iris
Lamp Type	330W AC / 264W eco
Lamp Life (up to)	3000 hours normal / 4000 hours eco
Screen Size (diagonal)	25 to 500 in. / 0.64 to 12.7m
Throw Ratio	
NP11FL	0.80:1
NP12ZL	1.19 - 1.56:1
NP13ZL	1.50 - 3.02:1
NP14ZL	2.97 - 4.79:1
NP15ZL	4.70 - 7.02:1
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
Lens*	
Zoom	1 to 1.33
Focus	Manual
F-number, f-number	
NP11FL	F= 2.3, f= 13.2mm
NP12ZL	F= 2.2 to 2.69, f= 19.4 to 25.3mm
NP13ZL	F= 1.7 to 2.37, f= 24.2 to 48.6mm
NP14ZL	F= 2.2 to 2.64, f= 48.5 to 77.6mm
NP15ZL	F= 2.2 to 2.7, f= 76.6 to 116.5mm
Shift	PA600X/PA500U/PA500X: Mechanical -0.1 to +0.5 vertical, +/-0.3 horizontal PA550W: Mechanical -0.1 to +0.6 vertical, +/-0.3 horizontal
Keystone Correction	+/- 40° horizontal, +/- 30° 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, WUXGA
Macintosh Compatibility	Yes
Input/Output Terminals	
RGB1 (analog)	VGA 15-pin D-sub
RGB2 (analog)	VGA 15-pin D-sub
RGB3 (analog)	5-BNC
RGB4 (digital)	HDMI w/ HDCP
RGB5 (digital)	DisplayPort w/ HDCP
Video 1	RCA
Video 2	S-Video
Audio	Mini stereo
Monitor Out	Yes
Audio Out	VGA 15-pin D-sub
Audio	10W mono
External Control	RS-232, IR, Wired LAN, DDC/CI, USB, Wireless LAN (optional)
Sync Compatibility	Separate Sync / Composite Sync / Sync on G
Networking	RJ-45 and Wireless LAN (optional)

ELECTRICAL

Power Requirements	100 – 240V AC, 50/60Hz
Input Current	5.1A
Power Consumption (Normal/ECO Mode/Standby/ Standby-Power Saving	PA500X/PA550W/PA600X: 464W / 372W / 16W / 0.2W PA500U: 477W / 384W / 16W / 0.2W

MECHANICAL

Optional Lenses	NP11FL, NP12ZL, NP13ZL, NP14ZL, NP15ZL
Installation Orientation	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
Dimensions (WxDxH)	19.7 x 14.4 x 6.5 in. / 499 x 366 x 164mm
Net Weight	PA500X/PA550W/PA600X: 17 lbs. / 7.7 kg PA500U: 17.2 lbs. / 7.8 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

Operating Temperature	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
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

* Lens does not ship with the projector.
Additional accessories are available, including screens, carts, mount accessories and replacement cables.
Visit www.necdisplay.com for details.

NEC Display Solutions
500 Park Boulevard, Suite 1100
Itasca, IL 60143
866-NEC-MORE

NEC
necdisplay.com