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

PA Series (Laser)

4K UHD **READY**

Powerful laser 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

- 4K Ready - Display stunning 4K 60P content using NEC's proprietary high performance video processing/scaling chip without the loss of critical details. HDR10 and BT.2020 signals from "Ultra HD Blu-ray" and "4K TV broadcasting" are supported on all digital inputs
- Integrated software applications such as AMX Beacon, Crestron Roomview, Extron XTP and PJ Link allow for complete control system support
- Basic control of competitors product reducing the need for reprogramming of a control system. (call NEC for complete list)
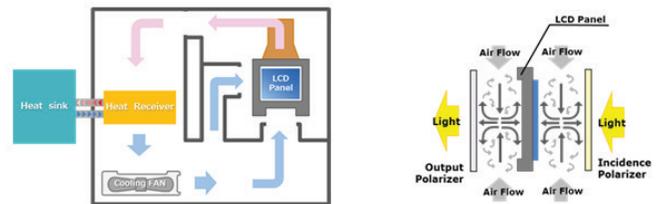
Flexible

- Enjoy greater installation flexibility with a complete line of optional bayonet style lenses 8) 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
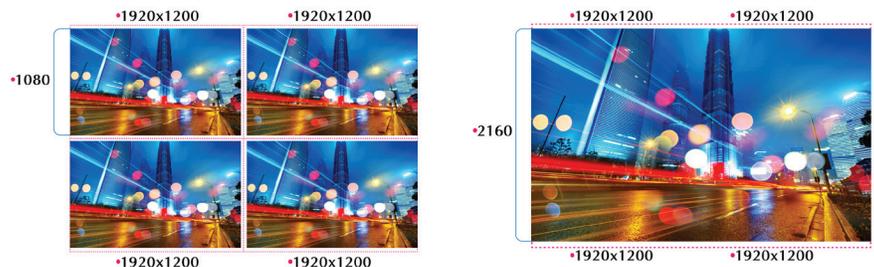
Filter Free

- Worlds first filter free LCD projector
- Sealed circulating cooling duct structure for LCD panel cooling
- External air never reaches the optical path
- No dust artifacts or decrease in brightness
- LCD SSL Projector that is maintenance free!

NEC's Unique LCD Panel Cooling Design
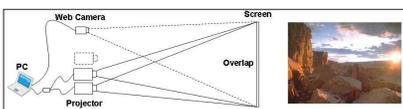
Screen Splitter

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 32,000 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.
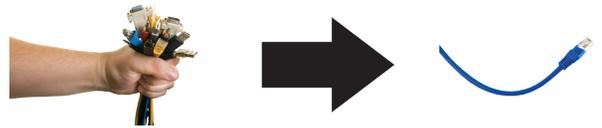
MultiPresenter

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.

MultiPresenter

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

- **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
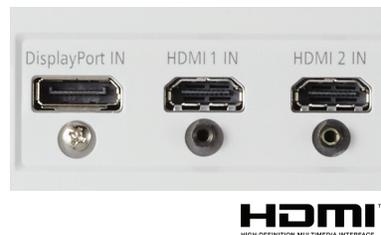
Remote control

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.

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.

Cable Cover

This included 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.
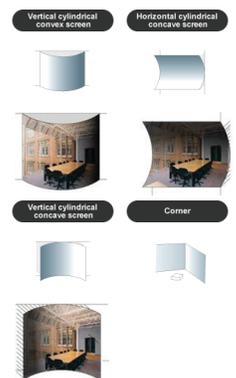
3D

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.
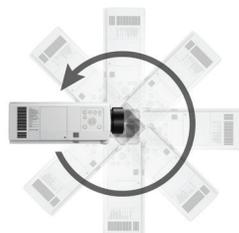
Geometric Correction

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.
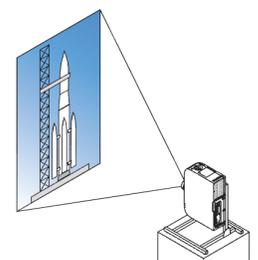
Tilt-free

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.

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.

WARRANTY

Registered owners receive a five (5) years or 20,000 hours (whichever comes first) parts and labor warranty, including the first year of InstaCare. 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, cable cover, user's manual on CD-ROM, quick start guide, product registration card.

ACCESSORIES

RMT-PJ37	Replacement Remote Control
Optional Lenses	NP40ZL, NP41ZL, NP43ZL
DS1-MP10RX1	MultiPresenter Stick
XPAND X105-RF-1	3D Glasses
XPAND AD025-RF-X1	RF Emitter
PA600CM	Ceiling mount
AEC006009	Adjustable Extension Column, 6" - 9"
AEC012018	Adjustable Extension Column, 12" - 18"
AEC0203	Adjustable Extension Column, 2' - 3'
AEC0305	Adjustable Extension Column, 3' - 5
NP01PW1	Power Cord
RGBCBL-PJPX	RGB Signal 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

ORDERING MODEL NUMBERS

NP-PA653UL
NP-PA803UL

19.5" (503mm)

16.2" (411mm)

6.6" (168mm)

		PA653UL	PA803UL
Display Technology		0.76" LCD w MLA	
Light Output (lumens)		6500 normal	8000 normal
Resolution	Native	WUXGA 1920 x 1200	
	Maximum	4K 4096 x 2160	
Contrast Ratio (up to)		2,500,000:1 with auto iris	
Laser Life (up to)		20,000 hours	
Screen Size (diagonal)		50 to 500 in. / 1.27 to 12.7m, NP40ZL, NP41ZL, NP43ZL	
Throw Ratio	NP40ZL	0.79 - 1.11	
	NP41ZL	1.30 - 3.02	
	NP43ZL	2.88 - 5.93	
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	Powered	
	Zoom Ratio NP40ZL	1.4:1	
	Zoom Ratio NP41ZL	2.3:1	
	Zoom Ratio NP43ZL	2.0:1	
	Focus	Powered	
	NP40ZL	Power zoom / Power focus, F=2.0 to 2.5, f= 13.3 to 18.6mm, 3.6lbs. / 1.63 kg	
	NP41ZL	Power zoom / Power focus, F=1.7 to 2.0, f= 21.8 to 49.8mm, 3.9 lbs. / 1.75 kg	
	NP43ZL	Power zoom / Power focus, F=2.2 to 2.6, f= 49.7 to 99.8mm, 3.9 lbs. / 1.77 kg	
	Shift	Powered +0.5/-0.1 vertical, +/-30 horizontal	
	Shutter	Laser Shutter	
Keystone Correction		+/- 40° horizontal, +/- 40° vertical	
Synchronization Range	Horizontal	Analog: 15-100kHz, Digital: 15-153kHz	
	Vertical	Analog: 48-120Hz, Digital: 24-120Hz	
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	
SD/HD Video Signal Compatibility		4K, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i	
PC Signal Compatibility		VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA	
Macintosh Compatibility		Yes	
Input Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using ADP-CV1E adapter	
	RGB2 (digital)	HDMI (V2.0) w/HDCP (V1.4/2.2)	
	RGB3 (digital)	HDMI (V2.0) w/HDCP (V1.4/2.2)	
	RGB4 (digital)	DisplayPort w/HDCP (V1.4)	
	RGB5 (digital)	HDBaseT w/HDCP (V1.4/2.2)	
	Audio1	Stereo Mini Jack	
Output Terminals	Monitor Out	HDBaseT w/HDCP (V1.4/2.2)	
	Audio Out	Stereo Mini Jack	
	3D Sync Line	3Pin D	
External Control		RS-232, IR, HDBaseT, DDC/CI, RJ-45, USB (USB 2.0)	
Sync Compatibility		Separate Sync / Composite Sync / Sync on G	
Power Requirements		100 – 240V AC, 50/60Hz	
Input Current		10.2A - 4.5A	11.8A - 5.2A
Power Consumption			
(ECO off/ECO Mode/Standby/Standby-Power Saving)		672W / 437W / 0.64W / 0.11	798W / 470W / 0.64W / 0.11
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	
Dimensions (WxDxH)		22.8 x 19.4 x 8.2 in. / 580 x 494 x 208mm	
Net Weight		40.1lbs. / 18.2 kg	
Fan Noise		39 dB normal / 33 dB eco	
Regulations			
U.S.		FCC Part15 Subpart B(ANSI C63.4:2014), UL62368-1:2nd Edition	
Canada		CSA C22.2 No.60950-1-07,2nd Edition,2014, NOM	
Operating Temperature		41° – 104°F / 5° – 40°C	
Humidity		20-80% non-condensing	
Storage		14° – 122°F / -10° – 50°C	
Fan Noise		39 dB normal / 33 dB eco	
Regulations		USA: UL 1950 FCC Class B, Canada: CSA950 (C-UL), NOM	
Operating Temperature		41° – 104°F / 5° – 40°C	
Humidity		20-80% non-condensing	
Storage		-14° – 122°F / -10° – 50°C	

* 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.

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