



**SHARP / NEC**

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

# PA Series

**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
- Lower the cost of your installation by eliminating the need for costly reprogramming of a control system. (supports competitors commands, call NEC for complete list)



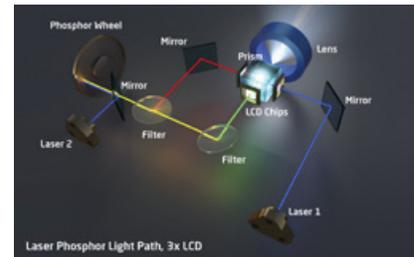
## Flexible

- Enjoy greater installation flexibility with powered motorized bayonet style lenses providing quick and easy exchanges. Lens throw distances range from 2.5 to 68.5 ft
  - New NP44ML-01LK UST lens placing the projector above the screen and out of site (installation may place the projector above the ceiling line)
- Roll-free installation capabilities make these projector ideal for almost any install environment, including portrait orientation
- Up to 50% vertical lens shift and +/- 20% horizontal lens shift capabilities make alignment easy



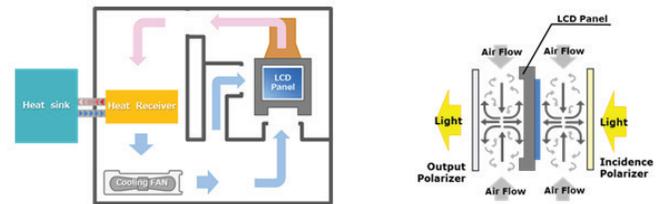
## Laser

- Images appear immediately after power on due to instantaneous start up of the laser
- Dual blue laser systems provide best in class white balance over the life of the projector
- Inorganic optical components create longer lifetime and greater peace of mind



## Filter Free

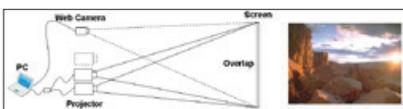
- World's first filter free LCD projector
- Sealed circulating cooling duct structure for LCD panel cooling
- External air never reaches the optical path
- No dust artifacts or decrease in brightness
- LCD SSL Projector that is maintenance free!



NEC's Unique LCD Panel Cooling Design

## 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.



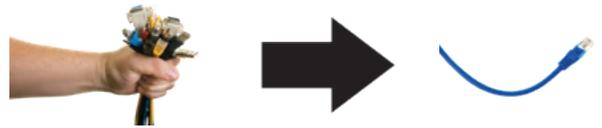
## MultiPresenter

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.



## 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 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.



### 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.



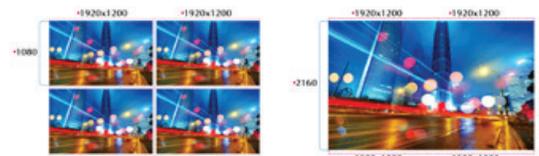
### Geometric Correction

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.



### 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.



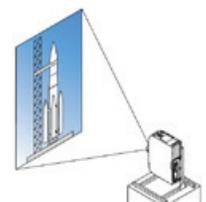
### Tilt-free

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 InstaCare 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, NP44ML-01LK
DS1-MP10RX1	Multi-Presenter Stick
XPAND X105-RF-1	3D Glasses
XPAND ADO25-RF-X1	RF Emitter
PA600CM	Ceiling mount
IPJ2000CM	Ceiling mount for use with NP44ML
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-PA703UL  
NP-PA803UL



		PA653UL	PA703UL	PA803UL	
DMD Specifications		0.76" LCD w/ MLA			
Light Output (lumens)		6500 normal	7000 normal	8000 normal	
Resolution	Native	WUXGA 1920 x 1200			
	Maximum	4K 4096 x 2160			
Contrast Ratio (up to)		2,500,000:1 with light adjust			
Lamp Life (up to)		20,000 hours			
Screen Size (diagonal)		40 to 500 in. / 1.02 to 12.7m, NP40ZL, NP41ZL, NP43ZL (50 to 500 in. / 1.27 to 12.7m), NP44ML-01LK (100 to 400 in. / 2.54 to 10.16m)			
Throw Ratio	NP44ML-01LK	0.32:1			
	NP40ZL	0.79 - 1.11:1			
	NP41ZL	1.30 - 3.02:1			
	NP43ZL	2.99 - 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	Motorized			
		Zoom Ratio	NP44ML-01LK	-	
			NP40ZL	1.4x	
			NP41ZL	2.3x	
	NP43ZL		2.0x		
	Focus		Motorized		
		NP44ML-01LK	Power zoom / Power focus, F=2.0, f= 6.27, 7.1 lbs. / 3.2 kg		
		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		+50/-10% Vertical, +/-20% 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		480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 4K			
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 Din			
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, 50/60 Hz			
Input Current		10.2A - 4.5A	10.5A - 4.5A	11.8A - 5.2A	
Power Consumption					
(ECO off/ECO Mode/Standby/Standby-Power Saving)		627W / 470W / 0.64W / 0.11W	647W / 414W / 0.64W / 0.11W	798W / 437W / 0.64W / 0.11	
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear			
Product Dimensions (WxHxD)		22.8 x 8.2 x 19.4 in. / 580 x 208 x 494mm			
Net Weight		40.1 lbs. / 18.2 kg			
Shipping Dimensions (WxHxD)		28.8 x 12.7x 35.8 in. / 731 x 322 x 909 mm			
Gross Weight		53.8 lbs. / 24.4 kg			
Fan Noise		39 dB normal / 33 dB eco	42 dB normal / 34 dB eco	45 dB normal / 35 dB eco	
Regulations	US	USA UL60950-1: 2nd edition, FCC Part15 Subpart B(ANSI C63.4:2014)			
	Canada	CAN/CSA C22.2 No.60950-1-07,2nd Edition,2014, ICES-003 Issue6(ANSI C63.4:2014)			
Operating	Temperature	50-96°F / 10-35°C			
	Humidity	20-80% non-condensing			
Storage	Temperature	14-122°F / -10 50°C			
	Humidity	10% - 85% (non-condensing)			
Ordering Model Number		NP-PA703UL	NP-PA703UL	NP-PA803UL	

\* 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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