

Specifications						
		PA600X	PA500X	PA550W	PA500U	
LCD Panel		0.79 inch LCD with Micro Lens Array (Aspect Ratio 4:3)		0.75 inch LCD with Micro Lens Array (Aspect Ratio 16:10)	0.76 inch LCD with Micro Lens Array (Aspect Ratio 16:10)	
Optical Device		Dichroic mirror separation-prism convergence system				
Resolution ^{*1}		1024 x 768 pixels		1280 x 800 pixels	1920 x 1200 pixels	
Lens		See the lens specification shown on the inside left page				
Lens Shift ^{*2}	NP12ZL, NP13ZL, NP14ZL, NP15ZL	Vertical : Max -0.1 to +0.5, Horizontal : Max ±0.3		Vertical : Max -0.1 to +0.6, Horizontal : Max ±0.3	Vertical : Max -0.1 to +0.5, Horizontal : Max ±0.3 ^{*3}	
	NP30ZL	Vertical : Max -0.1 to 0.35 Horizontal : Max ± 0.2		Vertical : Max -0.1 to 0.5 Horizontal : Max ± 0.2		
Lamp (Eco Mode On / Eco Mode Off)		264W / 330W AC				
Lamp Life ^{*4} (Eco Mode On / Eco Mode Off)		4000H / 3000H				
Image Size (Projection Distance)		See the chart of Throw Distance and Screen Size shown on below				
Colour Reproduction		10-bit signal processing (1.07 billion colours) (VIEWER, NETWORK : 16.7 million colours)				
Light Output ^{*5} (with NP13ZL)	Eco Mode Off	6000 ANSI lumens	5000 ANSI lumens	5500 ANSI lumens	5000 ANSI lumens	
	Eco Mode On	Approx. 80% of Eco Mode Off				
Contrast Ratio (White / Black) ^{*6}		2000:1 with Iris				
Maximum Resolution		WUXGA (1920 x 1200) with Advanced AccuBlend		WUXGA (1920 x 1200)		
Scan Rate	Horizontal	15kHz to 108kHz (RGB : 24kHz or over) conforms to the VESA standard				
	Vertical	48Hz to 120Hz (HDMI / DisplayPort : 50Hz to 85Hz) conforms to the VESA standard				
Keystone Correction	Horizontal	Manual Approx. ±Max 40 degrees			Manual Approx. ±Max 35 degrees	
	Vertical	Manual Approx. ±Max 30 degrees				
Input Terminals	Computer	2 x Mini D-Sub 15 pin (Computer 1&2 IN) , 1x 5BNC (Computer 3 IN)				
	Audio	3 x Stereo Mini Jack				
		2 x Mini D-Sub 15 pin, 1 x 5BNC				
	Componet (Shared with Computer IN)	Same as Computer IN				
	HDMI	1 x HDMI TypeA				
		Yes				
	DisplayPort	1 x DisplayPort				
		Yes				
	S-Video	1 x Mini DIN-4pin				
		2 x RCA pin				
Video	1 x RCA pin					
	Same as S-Video					
	1 x Stereo Mini Jack					
	1 x Type A (for mouse, Keyboard, USB memory)					
Output Terminals	RGB	1 x Mini D-Sub 15 pin (Only Computer 1 input can be output)				
	Audio	1 x Stereo Mini Jack				
USB Port		1 x Type A				
Wireless LAN (USB Port)		1 x Type A				
Wired LAN Port		1 x RJ-45 (10BASE-T / 100BASE-TX)				
Control terminal	Remote	1 x Stereo Mini Jack				
	PC control	1 x D-sub 9 pin				
Built-In Speaker		10W Monaural				
Quietness (Eco Mode On / Eco Mode Off)		31dB / 38dB		32dB / 38dB		
Environment	Operational Temperatures	5 - 40°C ([ECO MODE] is set automatically to [ON] at 35 - 40°C). 20 - 80% Humidity (Non-Condensing)				
	Storage Temperatures	-10 - 50°C, 20 - 80% Humidity (Non-Condensing)				
Power Requirement		100 - 240V AC, 50Hz/60Hz				
Input Current		5.1A - 2.1A (PA600X+/PA500X+/PA550W+/PA500U+ : 2.5A)				
Power Consumption (100 - 130V AC / 200 - 240 V AC)	Eco Mode Off	464W / 443W		477W / 455W		
	Eco Mode On	372W / 356W		384W / 369W		
	Standby Mode	Normal	16W / 18W			
		Network Standby	6W			
		Power-saving	0.2W (PA600X+/PA500X+/PA550W+/PA500U+ : Less than 1W)			
Calorific Value (100 - 130V AC / 200 - 240 V AC)		1583 BTU (Max) / 1512 BTU (Max)		1628 BTU (Max) / 1553 BTU (Max)		
Net dimensions (W x H x D)		499mm x 144mm x 359mm (Not Including Protrusions)				
Gross dimensions (W x H x D)		591mm x 259mm x 491mm				
Weight (Not including lens)		7.7kg				
		11.0kg		7.8kg		
Gross weight				11.1kg		
Accessories		Remote control, Batteries, Computer cable, Power cord, CD-ROM (User's manual/Utility software), Quick setup guide, Important information				
Regulations	For United States	UL Approved (UL 60950-1), Meets FCC Class B Requirements				
	For Europe	Meets EMC Directive (EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3), Meets Low Voltage Directive (EN60950-1, TÜV GS Approved)				
	For Canada	C-UL Approved (CSA 60950-1), Meets DCC Canada Class B Requirements				
	For Asia/Oceania	IEC60950-1, Meets AS/NZS CISPR.22 Class B				
	For Korea	KC (safety : K60950-1, EMC : K00022, K00024, K61000-3-2)				
	For China	GB4943, GB9254, GB17625.1				
	For Saudi Arabia	SASO IEC60950-1				
	For Russia	Gost R 60950-1, 51318.22, 51317.3.2./3.3.				

^{*1} : Effective pixels are more than 99.99%.

^{*2} : The Lens Shift function is not available for the NP11FL.

^{*3} : Horizontal lens shift range is 0.15H at 150" over projected image with the lens NP13ZL.

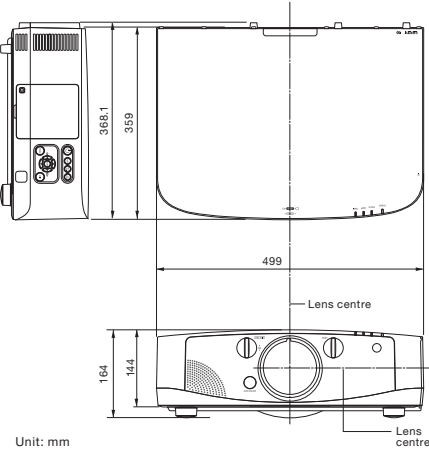
^{*4} : Lamp life is defined as the average time span for the brightness of the lamp to be reduced by half, it does not refer to the warranty period for the lamp.

^{*5} : This is the light output value (ANSI lumens) when the [PRESET] mode is set to [HIGH-BRIGHT]. If any other mode is selected as the [PRESET] mode, the light output value may drop slightly

^{*6} : Compliance with ISO21118-2005

All specifications are subject to change without notice.

Cabinet Dimensions



Throw Distance and Screen Size

PA600X/PA500X (Aspect ratio 4:3)

Screen size (inches)	Lens model name					
	NP11FL	NP30ZL	NP12ZL	NP13ZL	NP14ZL	NP15ZL
30" (0.61x0.46m)	-	-	0.7 - 0.9	-	-	-
40" (0.81x0.61m)	0.6	-	0.9 - 1.2	1.2 - 2.4	-	-
60" (1.22x0.91m)	1.0	1.0 - 1.3	1.4 - 1.9	1.8 - 3.7	3.6 - 5.8	5.7 - 8.7
80" (1.63x1.22m)	1.3	1.3 - 1.7	1.9 - 2.5	2.4 - 4.9	4.8 - 7.8	7.6 - 11.6
100" (2.03x1.52m)	1.6	1.6 - 2.1	2.4 - 3.2	3.0 - 6.1	6.0 - 9.7	9.6 - 14.6
120" (2.44x1.83m)	2.0	2.0 - 2.6	2.9 - 3.8	3.7 - 7.4	7.3 - 11.7	11.5 - 17.6
150" (3.05x2.29m)	2.5	2.5 - 3.2	3.7 - 4.8	4.6 - 9.2	9.1 - 14.7	14.4 - 22.0
200" (4.06x3.05m)	-	3.3 - 4.3	4.9 - 6.4	6.1 - 12.3	12.2 - 19.6	19.3 - 29.4
300" (6.10x4.57m)	-	5.0 - 6.5	7.4 - 9.6	9.2 - 18.5	18.4 - 29.5	29.1 - 44.2
400" (8.13x6.10m)	-	6.7 - 8.7	9.8 - 12.8	12.3 - 24.7	24.6 - 39.4	38.8 - 59.0
500" (10.16x7.62m)	-	8.4 - 10.9	12.3 - 16.0	15.4 - 30.8	30.7 - 49.2	48.6 - 73.8

PA500U (Aspect ratio 16:10)

Screen size (inches)	Lens model name					
	NP11FL	NP30ZL	NP12ZL	NP13ZL	NP14ZL	NP15ZL
30" (0.65x0.40m)	-	-	0.7 - 0.9	-	-	-
40" (0.86x0.54m)	0.7	-	1.0 - 1.3	1.2 - 2.5	-	-
60" (1.29x0.81m)	1.0	1.0 - 1.3	1.5 - 1.9	1.9 - 3.8	3.7 - 6.0	5.9 - 9.0
80" (1.72x1.08m)	1.4	1.4 - 1.8	2.0 - 2.6	2.5 - 5.1	5.0 - 8.0	7.9 - 12.1
100" (2.15x1.35m)	1.7	1.7 - 2.2	2.5 - 3.3	3.2 - 6.3	6.3 - 10.1	9.9 - 15.1
120" (2.58x1.62m)	2.1	2.0 - 2.7	3.0 - 3.9	3.4 - 7.6	7.5 - 12.1	11.9 - 18.2
150" (3.23x2.02m)	2.6	2.6 - 3.4	3.8 - 4.9	4.8 - 9.5	9.4 - 15.2	14.9 - 22.8
200" (4.31x2.69m)	-	3.4 - 4.5	5.1 - 6.6	6.6 - 12.7	12.6 - 20.3	20.0 - 30.5
300" (6.46x4.04m)	-	5.2 - 6.8	7.6 - 9.9	9.6 - 19.1	19.0 - 31.5	30.1 - 45.8
400" (8.62x5.39m)	-	6.9 - 9.0	10.2 - 13.2	12.8 - 25.5	25.4 - 40.7	40.1 - 61.1
500" (10.77x6.73m)	-	8.7 - 11.3	12.7 - 16.5	16.0 - 31.9	31.8 - 50.9	50.2 - 76.4

PA550W (Aspect ratio 16:10)

Screen size (inches)	Lens model name					
	NP11FL	NP30ZL	NP12ZL	NP13ZL	NP14ZL	NP15ZL
30" (0.65x0.40m)	-	-	0.7 - 1.0	-	-	-
40" (0.86x0.54m)	0.7	-	1.0 - 1.3	1.3 - 2.5	-	-
60" (1.29x0.81m)	1.0	1.0 - 1.3	1.5 - 2.0	1.9 - 3.8	3.8 - 6.1	5.9 - 9.1
80" (1.72x1.08m)	1.4	1.4 - 1.8	2.0 - 2.6	2.6 - 5.1	5.1 - 8.2	8.0 - 12.2
100" (2.15x1.35m)	1.7	1.7 - 2.2	2.5 - 3.3	3.2 - 6.4	6.3 - 10.2	10.0 - 15.4
120" (2.58x1.62m)	2.1	2.1 - 2.7	3.1 - 4.0	3.9 - 7.7	7.6 - 12.3	12.1 - 18.5
150" (3.23x2.02m)	2.6	2.6 - 3.4	3.8 - 5.0	4.8 - 9.7	9.6 - 15.4	15.2 - 23.1
200" (4.31x2.69m)	-	3.5 - 4.5	5.1 - 6.7	6.5 - 12.9	12.8 - 20.6	20.3 - 30.9
300" (6.46x4.04m)	-	5.3 - 6.8	7.7 - 10.1	9.7 - 19.4	19.3 - 30.9	30.5 - 46.5
400" (8.62x5.39m)	-	7.0 - 9.1	10.3 - 13.4	13.0 - 25.9	25.8 - 41.3	40.7 - 62.0
500" (10.77x6.73m)	-	8.8 - 11.4	12.9 - 16.8	16.2 - 32.4	32.2 - 51.7	51.0 - 77.6

*Stated projection distances are standard values.
For a stack installation, the recommended projection distances will be different.
*The values in the tables are design values and may vary.

Remote control (included accessory)



Options

Replacement lamp NP21LP



Option lens
NP11FL
NP30ZL
NP12ZL
NP13ZL
NP14ZL
NP15ZL



Wireless LAN unit
NP02LM1
NP02LM2
NP02LM3

Model name of the wireless LAN unit varies depending on the country where the unit is used (or to be used).

NP02LM1 : United States, Canada, Mexico, Taiwan, Brazil, Colombia
NP02LM2 : Europe, United Arab Emirates, Saudi Arabia, Oman, South Africa, Turkey, Ukraine, Egypt, Israel, Australia, New Zealand, Japan, Thailand, China, Hong Kong, Singapore, South Korea, Sri Lanka, Pakistan, Vietnam, India, Indonesia, Philippines, Peru, Chile, Argentina, Ecuador
NP02LM3 : Russia

Cable cover NP02CV



Installation Projector

PA600X/PA500X/PA550W/PA500U

With features and functions specifically designed for the requirements of fixed installation applications.



- The projector can be unplugged during its cool down period after it is turned off.
Parts of the projector will become heated during operation.
Use caution when picking up the projector immediately after it has been operating.
- Use caution when putting the projector in the soft case immediately after the projector has been operating.
The projector cabinet is hot.

Microsoft is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
Wi-Fi® is a registered trademark of the Wi-Fi Alliance.
HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
DisplayPort and DisplayPort Certified Logo are trademarks of the Video Electronics Standards Association, registered in the U.S. and other countries.
Crestron and Crestron RoomView are trademarks or registered trademarks of Crestron Electronics, Inc.
Trademark PLink is a trademark applied for trademark right in the United States of America and other countries.
All other trademarks are the property of their respective owners.
The images in this brochure are samples.
This brochure uses recycled paper.

Cat.No. WLPJ-1308-413NN

<http://www.nec-display.com/ap/>

Six types of optional lenses and a wide lens shift range provide improved flexibility of your installation.

Equipped with a product design and adjustment functions that are desirable with a variety of installation requirements

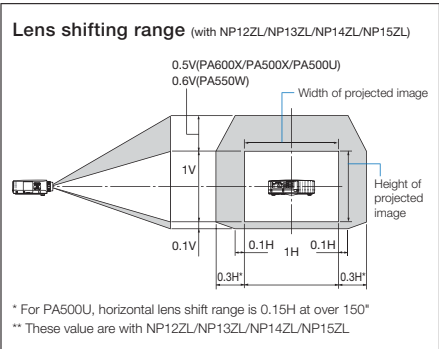
Lens shift function for easily adjusting the position of the projected image

The projector is equipped with a lens shift that allows you to adjust the projected image horizontally or vertically. You can easily adjust the position of the projection just by turning the lens shift dials, without having to move the projector unit itself. Furthermore, it is also equipped with a centre lens design for easy alignment.

*The lens shift mechanism does not work when using NP11FL.
*As you maximise the tilt direction of the lens shift, the area surrounding the screen may get darker and shadows may appear.



Lens shift dials

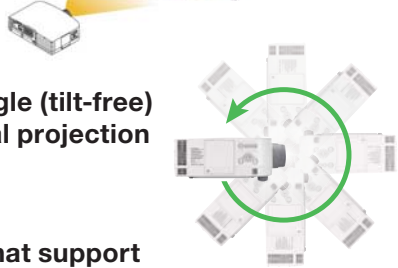


* For PA500U, horizontal lens shift range is 0.15H at over 150°
** These value are with NP12ZL/NP13ZL/NP14ZL/NP15ZL

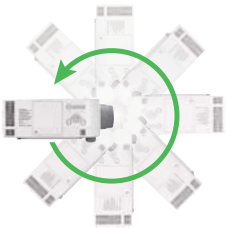
Test pattern display that is convenient for screen adjustments



3D REFORM function that corrects keystone distortion



360° installation angle (tilt-free) that enables vertical projection



Various functions that support specialized installation requirements

- (1) Geometric correction tool function* that allows you to project squares even on screens with special shapes
- (2) Supports a stack installation* that achieves high luminance equivalent to 24000 ANSI lumens (PA600X)
- (3) Multi-screen function* that renders the borders of multiple images inconspicuous

*These support software are downloadable at our website.

Six types of optional lenses available for flexible installation

The projector supports six types of optional lenses which are adapted to a variety of installation locations and projection methods, including conference rooms, auditoriums, and exhibition halls. The NP13ZL is compatible with 2x zoom, which allows it to handle an even PA600X broader range of projection distances. The lenses can be easily changed by using the lens release button.

*The lenses are not included with this unit.

Lens Specifications

	NP11FL	NP30ZL	NP12ZL	NP13ZL	NP14ZL	NP15ZL
Option Lens						
Lens Type	Fixed Short Throw Lens	Zoom Lens				
Zoom/Focus	Manual (Focus only)	Manual				
Zoom Ratio	-	1.3	1.3	2.0	1.6	1.52
Throw Ratio *1	0.8 : 1	0.81-1.06 : 1	1.19-1.56 : 1	1.50-3.02 : 1	2.97-4.79 : 1	4.70-7.20 : 1
Screen Size (inches)	40-150	52-500	30-500	40-500	60-500	60-500
Light Output **	PA600X	4500 ANSI lm	5700 ANSI lm	4700 ANSI lm	6000 ANSI lm	4900 ANSI lm
	PA500X	3800 ANSI lm	4750 ANSI lm	4000 ANSI lm	5000 ANSI lm	4100 ANSI lm
	PA550W	3900 ANSI lm	5225 ANSI lm	4100 ANSI lm	5500 ANSI lm	4200 ANSI lm
	PA500U	3400 ANSI lm	4750 ANSI lm	3700 ANSI lm	5000 ANSI lm	3800 ANSI lm
	PA500U	3400 ANSI lm	4750 ANSI lm	3700 ANSI lm	5000 ANSI lm	3800 ANSI lm
Weight	1.2 kg	1.1 kg	1.2 kg	0.84 kg	1.0 kg	1.0 kg

*1 This is the value with XGA. *2 This is the brightness value when the lamp mode is set to "Normal Mode" and the preset mode is "High brightness mode". If the lamp mode is switched to "Eco Mode", the brightness will drop to about 80%. If any other mode is selected as the preset mode, brightness may drop slightly.

Projected range of lens (image projected on a 100-inch screen)

PA600X / PA500X	Model of lens	Projection magnification
	NP11FL	1.6
	NP30ZL	1.6 ↔ 2.1
	NP12ZL	2.4 ↔ 3.2
	NP13ZL	3.0 ↔ 6.1
	NP14ZL	6.0 ↔ 9.7
	NP15ZL	9.6 ↔ 14.6
PA550W	Model of lens	Projection magnification
	NP11FL	1.7
	NP30ZL	1.7 ↔ 2.2
	NP12ZL	2.5 ↔ 3.3
	NP13ZL	3.2 ↔ 6.4
	NP14ZL	6.3 ↔ 10.2
	NP15ZL	10.0 ↔ 15.4
PA500U	Model of lens	Projection magnification
	NP11FL	1.7
	NP30ZL	1.7 ↔ 2.2
	NP12ZL	2.5 ↔ 3.3
	NP13ZL	3.2 ↔ 6.3
	NP14ZL	6.3 ↔ 10.1
	NP15ZL	9.9 ↔ 15.1

Considering the environment and offering simple maintenance contributes to a reduced total cost of ownership.

Energy saving design with a standby power consumption of 0.2W

“Eco Mode” that curbs electricity consumption and “Carbon Meter” display

Extend the lamp replacement time to a maximum of 4000 hours in Eco Mode

Silent design of 31dB in Eco Mode that will not disturb meetings and classes

* PA500U is 32dB.

Equipped with a maintenance-free large filter

The projector uses large two-layer filters. Since it is highly effective at repelling dust, as long as the filter is replaced with new ones when changing the lamp, there is no need for regular cleaning.



Environmentally friendly optional cable cover offered that uses bio-plastics



Compatible with diverse image sources and network control, with a commitment to reproducing high quality images

Simple “DICOM SIM. Mode” allows for the easy display of medical images

The projector can display medical images saved in the DICOM format and handle presentations such as academic conferences.



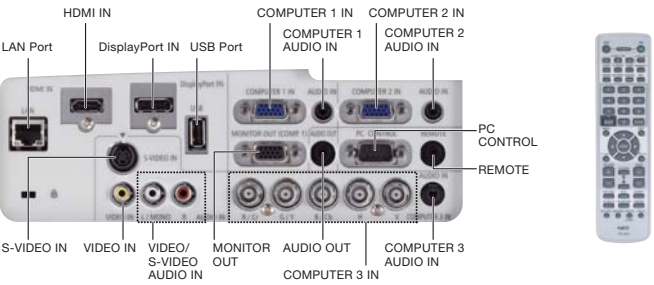
*Cannot be used for diagnoses of the display images.

Compatible with wired / optional wireless LANs (IEEE 802.11b/g/n) and various network controls

- (1) The projector supports Microsoft Windows Media Connect, which transmits still and moving images (streaming) to projectors connected to the network (does not support segment overrun).*
- (2) Allows you to display files that are in the shared folder of computers connected to the network.*
- (3) Supports a Wi-Fi Protected Setup (WPS). The projector can be synchronized with the access point and can be connected with a wireless LAN automatically via the infrastructure.
- (4) The projector is equipped with an access point connection that improves the security of wireless LAN connections
- (5) Compatible with the Windows Network Projector and PJLink

*For details about supported file types and restrictions, please visit our website.

Terminals



Example of installing NP13ZL

PA600X

6000ANSI lumens

XGA

7.7kg

Not including lens

PA500X

5000ANSI lumens

XGA

7.7kg

Not including lens

PA550W

5500ANSI lumens

WXGA

7.7kg

Not including lens

PA500U

5000ANSI lumens

WUXGA

7.8kg

Not including lens