Specifications

		PA621U	PA521U	PA671W	PA571W	PA721X	PA621X
Method		Three primary colour liquid crystal shutter projection					
Specifications of main parts							
Liquid crystal panel	Size	0.76" (with MLA) × 3 (aspect ratio: 16:10)				0.79" (with MLA) × 3 (aspect ratio: 4:3)	
	Pixels(*1)	2,304,000 (1,920 dots × 1,200 lines)		1,024,000 (1,280 dots × 800 lines)		786,432 (1,024 dots × 768 lines)	
Projection lenses	Zoom	Manual (zoom range depends on lens)					
	Focus	Manual					
	Lens shifting	Manual					
Lamp wattage (*2)		350 W AC	330 W AC	350 W AC	330 W AC	350 W AC	330 W AC
Light output (*3) (*4)	ECO OFF	6,200 lm	5,200 lm	6,700 lm	5,700 lm	7,200 lm	6,200 lm
Contrast ratio (*3) (all white/all black)		6,000:1	5,000:1	6,000:1	5,000:1	6,000:1	5,000:1
Screen size(throw distance)		40" to 500" (throw distance depends on lens)					
Colour reproducibility		10-bit colour processing (approx. 1.07 billion colors)					
Audio output		Built-in 10 W monaural speaker					
Quietness (ECO mode ON/ECO mode OFF)		33 dB / 39 dB					
Scan rate	Horizontal	Analog: 15 kHz, 24 to 100 kHz (24 kHz or greater for RGB inputs), conforms to VESA standards / Digital: 15 kHz, 24 to 153 kHz, conforms to VESA standards					
	Vertical	Analog: 48 Hz, 50 to 85 Hz, 100, 120 Hz conforms to VESA standards / Digital: 24, 25, 30, 48 Hz, 50 to 85 Hz, 100, 120 Hz conforms to VESA standards					
Max. display resolution (horizontal × vertical)		Analog: 1,920 × 1,200 (with Advanced AccuBlend) / Digital: 4,096 × 2,160 (with Advanced AccuBlend)					
Input/output connectors							
Computer/ Component	Video input	Mini D-Sub 15-pin × 1, 5BNC x 1					
	Audio input	Stereo mini jack × 2					
	Audio output	Stereo mini jack × 1 (selected from Computer / BNC / HDMI)					
HDMI® Input Terminals	Video input	TypeA 19 pin(HDMI® connector) with HDCP(V1.4) x 2					
	Audio input	Yes					
HDMI® Output Terminal	Video output	TypeA 19 pin(HDMI® connector) with HDCP(V1.4) x 1					
	Audio output	Yes					
DisplayPort ™	Video input	DisplayPort 20 pin connecter x 1					
	Audio input	Yes					
BNC (CV)	Video input	BNC × 1					
	Audio input	Stereo mini jack x 1 ,shared with 5BNC, BNC (CV), BNC (Y/C)					
BNC (Y/C)	Video input	BNC × 2					
	Audio input	Stereo mini jack x 1 ,shared with 5BNC, BNC (CV), BNC (Y/C)					
PC control connector		D-Sub 9-pin × 1					
USB port		USB type A × 1					
Ethernet port		RJ-45 × 1, (Supports 10BASE-T/100BASE-TX)					
Wireless LAN (USB)		IEEE 802.11b/g/n (Optional)					
Remote connector		Stereo mini jack × 1					
3D SYNC output terminal		5 V / 10 mA, synchronized signal output for 3D use					
Usage environment		Operating temperature: 5 to 40°C (*5), Operating humidity: 20 to 80 % (with no condensation)					
		Storage temperature: -10 to 50°C, Storage humidity: 20 to 80 % (with no condensation)					
		Operating altitude: 0 to 3,650 m (1,700 to 3,650 m: Set [FAN MODE] to [HIGH ALUTITUDE])					
Power supply		100-240 V AC, 50/60 Hz					
Power consumption	ECO mode off	483 W (100-130 V) 460 W (200-240 V)	463 W (100-130 V) 440 W (200-240 V)	483 W (100-130 V) 460 W (200-240 V)	463 W (100-130 V) 440 W (200-240 V)	483 W (100-130 V) 460 W (200-240 V)	463 W (100-130 V) 440 W (200-240 V)
	ECO mode on	377 W (100-130 V) / 362 W (200-240 V)					
	STANDBY (NORMAL)	0.11 W (100-130 V) / 0.16 W (200-240 V)					
	STANDBY(Network STANDBY)	4.7 W (100-130 V) / 4.9 W (200-240 V)					
Rated input current		5.5 A-2.2 A	5.1 A-2.2 A	5.5 A-2.2 A	5.1 A-2.2 A	5.5 A-2.2 A	5.1 A-2.2 A
Dimensions (W x H x D)		499 × 142 × 359 mm (Net dimensions not including protruding parts) 591 × 259 × 491 mm (Gross dimensions)					
Weight		8.4 kg (not including lens) 11.2 kg (Gross weight)					

*1 : Effective pixels are more than 99.99 %.
*2 : 264W when ECO mode is on.
*3 : This is the light output value (lumens) when the [PRESET] mode is set to [HIGH-BRIGHT].
The light output values will drop to 80 % when [ON] is selected for [ECO MODE]. If any other mode is selected as the [PRESET] mode, the light output value may drop slightly.
*4 : Compliance with ISO21118-2005
*5 : 35 to 40°C – "Forced ECO mode" (PA621U/PA521U will shift to the ECO-mode in stages starting from 33 °C.)
• These specifications and the product's design are subject to change without notice.

Remote control
(Included accessory)

Options

Replacement lamp **NP26LP**

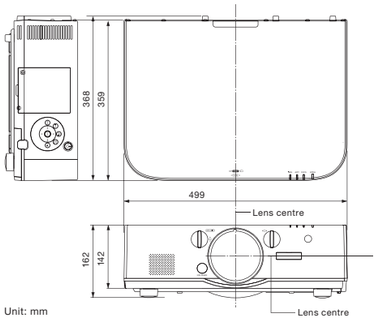
Option lens
NP11FL NP13ZL
NP30ZL NP14ZL
NP12ZL NP15ZL

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 **NP04CV**

Cabinet dimensions



Unit: mm

Throw distance and screen size

WUXGA type
PA621U/PA521U (Aspect ratio 16:10)

Screen size	Lens unit 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" (2.59x1.62m)	2.1	2.0 - 2.7	3.0 - 3.9	3.8 - 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	6.4 - 12.7	12.6 - 20.3	20.0 - 30.5
240" (5.17x3.23m)	-	4.1 - 5.4	6.1 - 7.9	7.6 - 15.3	15.2 - 24.4	24.0 - 36.6
300" (6.46x4.04m)	-	5.2 - 6.8	7.6 - 9.9	9.6 - 19.1	19.0 - 30.5	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

XGA type
PA721X/PA621X (Aspect ratio 4:3)

Screen size	Lens unit 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
240" (4.88x3.66m)	-	4.0 - 5.2	5.9 - 7.7	7.4 - 14.8	14.7 - 23.6	23.2 - 35.3
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

WXGA type
PA671W/PA571W (Aspect ratio 16:10)

Screen size	Lens unit 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	1.2 - 2.5	-	-
60" (1.29x0.81m)	1.0	1.0 - 1.3	1.5 - 2.0	1.9 - 3.8	3.7 - 6.0	5.9 - 9.1
80" (1.72x1.08m)	1.4	1.4 - 1.8	2.0 - 2.6	2.5 - 5.1	5.0 - 8.1	7.9 - 12.1
100" (2.15x1.35m)	1.7	1.7 - 2.2	2.5 - 3.3	3.2 - 6.4	6.3 - 10.1	9.9 - 15.2
120" (2.59x1.62m)	2.1	2.0 - 2.7	3.0 - 4.0	3.9 - 7.7	7.6 - 12.2	12.0 - 18.3
150" (3.23x2.02m)	2.6	2.6 - 3.4	3.8 - 5.0	4.8 - 9.6	9.5 - 15.3	15.0 - 22.9
200" (4.31x2.69m)	-	3.4 - 4.5	5.1 - 6.6	6.4 - 12.8	12.7 - 20.4	20.1 - 30.6
240" (5.17x3.23m)	-	4.1 - 5.4	6.1 - 8.0	7.7 - 15.4	15.3 - 24.5	24.1 - 36.8
300" (6.46x4.04m)	-	5.2 - 6.8	7.7 - 10.0	9.6 - 19.2	19.1 - 30.7	30.2 - 46.0
400" (8.62x5.39m)	-	6.9 - 9.0	10.2 - 13.3	12.8 - 25.7	25.5 - 40.9	40.4 - 61.4
500" (10.77x6.73m)	-	8.7 - 11.3	12.8 - 16.7	16.0 - 32.1	31.9 - 51.2	50.5 - 76.9

*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.

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

· 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.

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Cat.No. WLPJ-1411-0013N

Empowered by Innovation NEC

Installation Projector

PA621U / PA521U / PA671W / PA571W / PA721X / PA621X

Powerful multimedia installation projector equipped to take on the most demanding integration projects

Orchestrating a brighter world

Enjoy design and installation flexibility with a complete line of optional bayonet style lenses, tilt-free installation capabilities and horizontal/vertical lens shift.

Advanced installation capabilities

Six types of optional lenses available for flexible installation

Enjoy greater installation flexibility with a complete line of optional bayonet style lenses (6) for quick and easy exchange. Lens throw distances range from 0.6 to 76.9 m. *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 *2	PA721X	5,400 ANSI lm	6,800 ANSI lm	5,600 ANSI lm	7,200 ANSI lm	5,800 ANSI lm	5,600 ANSI lm
	PA621X	4,600 ANSI lm	5,900 ANSI lm	4,800 ANSI lm	6,200 ANSI lm	5,000 ANSI lm	4,800 ANSI lm
	PA671W	4,700 ANSI lm	6,400 ANSI lm	5,000 ANSI lm	6,700 ANSI lm	5,100 ANSI lm	5,000 ANSI lm
	PA571W	4,000 ANSI lm	5,400 ANSI lm	4,200 ANSI lm	5,700 ANSI lm	4,300 ANSI lm	4,200 ANSI lm
	PA621U	4,200 ANSI lm	5,900 ANSI lm	4,600 ANSI lm	6,200 ANSI lm	4,700 ANSI lm	4,600 ANSI lm
	PA521U	3,500 ANSI lm	4,900 ANSI lm	3,800 ANSI lm	5,200 ANSI lm	4,000 ANSI lm	3,800 ANSI lm
Weight		1.2 kg	1.2 kg	1.2 kg	0.84 kg	1.0 kg	1.0 kg

*1 Value with XGA. *2 Brightness value when the lamp mode is set to "ECO OFF Mode" and the preset mode is "High-bright mode".

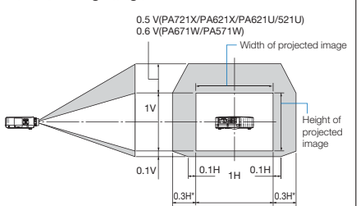
Lens shift function for easily adjusting the position of the projected image

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, the projector is also equipped with a centre lens design for easy alignment.

Lens shift dials

*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.

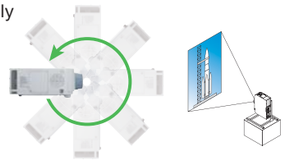
Lens shifting range (with NP12ZL/NP13ZL/NP14ZL/NP15ZL)



* For the PA621U/PA521U, horizontal lens shift range is 0.15H at over 150"
** These value are with the NP12ZL/NP13ZL/NP14ZL/NP15ZL

Tilt-free and portrait mode support

The projector can be rotated freely (360°) to point up or down depending on the installation requirements and can be installed on its side to create a portrait image.

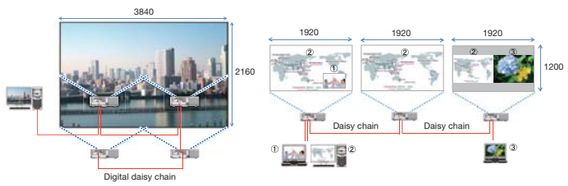


Built-in edge blending

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

Multiscreen function

Multi-display capabilities and Tiling technologies are integrated into the new PA series. This projector is also equipped with multiple digital input & HDMI output terminals that can connect multiple projectors in a digital daisy chain. These cutting-edge functions produce a beautiful high-resolution image, including a 4K/2K high-resolution display using 4 PA621U/521U projectors and various Picture in Picture/Picture by picture configurations.

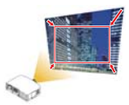


Stacking capabilities

This feature allows the projectors to boost an image's brightness up to 28,800 ANSI lm (PA721X), which is ideal for large screens and environments with strong ambient light. It also prevents the complete loss of an image, which can happen when using only one projector.

Geometric correction

This feature corrects horizontal and vertical keystone distortion or adjusts the image when projecting onto an unique shaped screen.



Fantastic cinema quality picture

Equipped with NEC 4,096 x 2,160 scaler NV1301 and the 3rd SweetVision™ circuit

This 10 bit video processor represents an enormous leap in video processing, with true flagship performance in noise reduction, de-interlacing and scaling.

- 4K Ultra HD support (4,096 x 2,160 / 3,840 x 2,160)
- 12 bit gamma correction
- Advance colour correction (6-axis saturation and hue adjustment / skin tone)
- Video and film cadence detection (multi cadence)
- Per-pixel motion adaptive de-interlacing
- Detail enhancement
- Super resolution correction (3rd SweetVison™)
- 3D random, mosquito and block noise reduction

Maintenance-free and environment friendly design

Large maintenance-free filter

The projector uses large two-layer filters. Since they are 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.

ECO mode

ECO mode that curbs electricity consumption and extends the lamp replacement time to a maximum of 4,000 hours.

Energy saving design with a standby power consumption of 0.16 W (200-240 V)

Advanced connectivity and networking capabilities

Wide selection of inputs and outputs

The projector is equipped with a wide range of input/output terminals and compatible with a variety of image sources, which lets you connect HDMI, DisplayPort, computer (analogue), 5-core BNC, video, and wired LAN (RJ-45)/wireless LAN* sources.

Remote control / monitoring

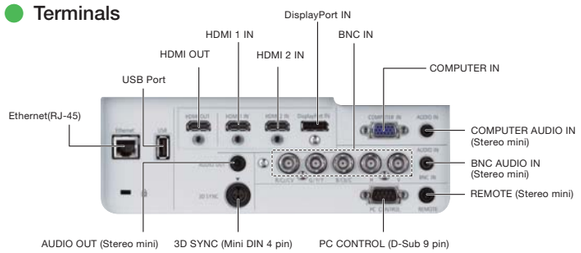
- NaViSet Administrator 2
- AMX BEACON
- CRESTRON ROOMVIEW™ with emergency function
- PC Control Utility 4.0 for Windows
- PC Control Utility 5.0 for MAC
- PJLink
- HTTP server
- Virtual remote

Image Express Utility / Wireless Image Utility*

Using Image Express Utility Lite contained on the supplied NEC Projector CD-ROM provides wired and wireless* data and audio transmission via peer-to-peer networking or over a network.
Wireless Image Utility can send images directly from your iOS devices such as an Apple iPad, iPhone and iPod touch, which enables you to send the real-time images taken with its internal camera, web pages accessed or cloud files in combination with a file sharing application to the projector.

*Requires optional wireless LAN module

- Terminals



Other useful functions and features

- Seamless switching
- Active single 3D video support
- Remote control ID
- Program timer with real time clock / OFF Timer
- Silent design of 33dB in ECO mode
- Built-in 10 W monaural speaker
- PIN security / Control panel lock / Security bar / Security slot
- Simple access point

PA621U	6200 ANSI lumens	WUXGA	8.4kg
PA671W	6700 ANSI lumens	WXGA	8.4kg
PA721X	7200 ANSI lumens	XGA	8.4kg
PA521U	5200 ANSI lumens	WUXGA	8.4kg
PA571W	5700 ANSI lumens	WXGA	8.4kg
PA621X	6200 ANSI lumens	XGA	8.4kg

Brightness using NP13ZL. Weight does not include lens

HDBaseT models* are also available. *PA622U / PA522U / PA672W / PA572W / PA722X / PA622X