

# Specifications

	PA621U	PA521U	PA671W	PA571W	PA721X	PA621X
<b>Method</b>	Three primary colour liquid crystal shutter projection					
<b>Specifications of main parts</b>						
Liquid crystal panel	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	Manual (zoom range depends on lens)					
Zoom	Manual					
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 6,000:1	5,200 lm 5,000:1	6,700 lm 6,000:1	5,700 lm 5,000:1	7,200 lm 6,000:1	6,200 lm 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)					
<b>Input/output connectors</b>						
Computer/ Component	Video input: Mini D-Sub 15-pin × 1, 5BNC × 1 Audio input: Stereo mini jack × 2 Audio output: Stereo mini jack × 1 (selected from Computer / BNC / HDMI)					
HDMI* Input Terminal	TypeA 19 pin(HDMI)* connector with HDCP(V1.4) × 2					
HDMI* Output Terminal	TypeA 19 pin(HDMI)* connector with HDCP(V1.4) × 1					
DisplayPort™	DisplayPort 20 pin connector × 1					
BNC (CV)	Video input: BNC × 1 Audio input: Stereo mini jack × 1 ,shared with 5BNC, BNC (CV), BNC (Y/C)					
BNC (Y/C)	Video input: BNC × 2 Audio input: Stereo mini jack × 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					
<b>Usage environment</b>	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])					
<b>Power supply</b>	100-240 V AC, 50/60 Hz					
<b>Power consumption</b>	ECO mode off 483 W (100-130 V) 463 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



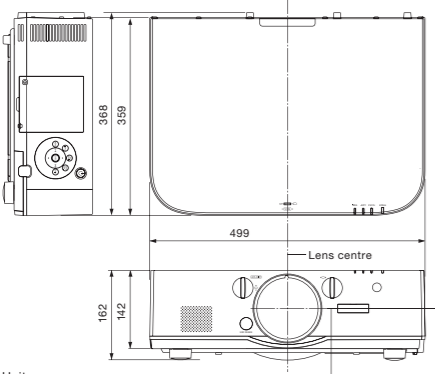
Model name of the wireless LAN unit varies depending on the country where the unit is used (or to be used).

- 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)	-	-	0.7-1.0	1.2-2.5	-	-
40" (0.86x0.54m)	0.7	-	1.0-1.3	1.2-2.5	-	-
50" (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
60" (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" (2.23x2.02m)	2.6	2.6-3.4	3.8-4.9	4.8-9.5	9.4-15.2	14.9-22.8
200" (4.31x2.89m)	-	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" (0.61x0.48m)	-	-	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" (2.04x1.52m)	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" (2.92x2.29m)	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" (6.16x4.57m)	-	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	-	-
50" (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
60" (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	3.2-6.4	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" (2.23x2.02m)	2.6	2.6-3.4	3.8-5.0	4.8-9.6	9.5-15.3	15.0-22.9
200" (4.31x2.89m)	-	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.

# Installation Projector

# PA621U / PA521U / PA671W / PA571W / PA721X / PA621X

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



<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

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
	PA621X	4,600 ANSI lm	5,900 ANSI lm	4,800 ANSI lm	6,200 ANSI lm	5,000 ANSI lm
	PA671W	4,700 ANSI lm	6,400 ANSI lm	5,000 ANSI lm	6,700 ANSI lm	5,100 ANSI lm
	PA571W	4,000 ANSI lm	5,400 ANSI lm	4,200 ANSI lm	5,700 ANSI lm	4,300 ANSI lm
	PA621U	4,200 ANSI lm	5,900 ANSI lm	4,600 ANSI lm	6,200 ANSI lm	4,700 ANSI lm
	PA521U	3,500 ANSI lm	4,900 ANSI lm	3,800 ANSI lm	5,200 ANSI lm	4,000 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

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

0.5 V (PA721X/PA621X/PA621U/521U)  
0.6 V (PA671W/PA571W)

Width of projected image

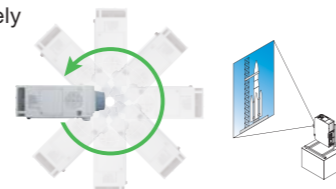
Height of projected image

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

\*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.

### 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.



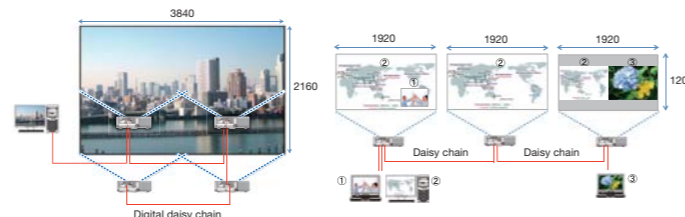
### Built-in edge blending

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 SweetVision™)
- 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
- PLink
- HTTP server
- Virtual remote

## Other useful functions and features

- Seamless switching
- Remote control ID
- 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
- Active single 3D video support
- Program timer with real time clock / OFF Timer

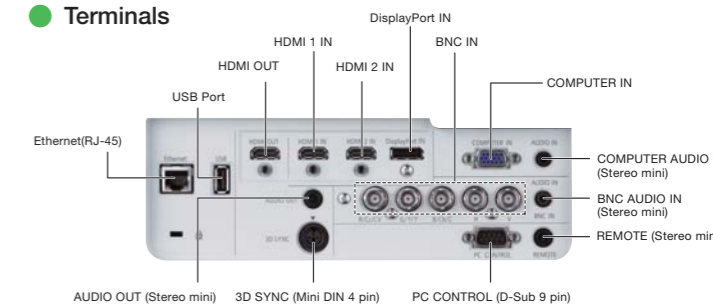
### Image Express Utility / Wireless Image Utility\*

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



**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