Specifications

		PH1400U	PH1000U
Projector type		3 chip DLP	
DLP size		0.96 inches (Aspect ratio 16:10)	
Resolution*1		1920 x 1200 pixels	
Lens		See the chart of Throw Distance and Screen Size shown on below	
Lens shift*2 (NP26ZL, NP27ZL, NP28ZL, NP29ZL, NP32ZL)		Vertical : Max -0.4 to +0.55 Horizontal : Max ±0.2	
Lamp (Eco mode on / Eco mode off)		360 W / 465 W AC	320 W / 400 W AC
Lamp life*3 (Eco mode on / Eco mode off)		3000 H / 2500 H	2500 H / 2000 H
Image size (Projection distance)		See the chart of Lens specifications shown on below	
Colour reproduction		10-bit signal processing (1.07 billion colours) (VIEWER, NETWORK : 16.7 million colours)	
Light output*4*5 (with NP27ZL)	Eco mode off	13500 ANSI lumens	11000 ANSI lumens
	Eco mode on	Approx. 75 % of Eco mode off	
Contrast ratio (white / black)*5		2000:1 (with dynamic contrast on)	
Maximum resolution		WUXGA (1920 x 1200)	
Scan rate	Horizontal	15 kHz to 108 kHz (RGB : 24 kHz or over) conforms to the VESA standard	
	Vertical	48 Hz to 120 Hz (HDMI : 50 Hz to 85 Hz) conforms to the VESA standard	
Keystone correction	Horizontal	Manual Approx. ±35 degrees Max	
	Vertical	Manual Approx. ±30 degrees Max	
Input terminals	Computer/Component	2 x Mini D-Sub 15 pin (1&2 IN), 1 x 5 BNC (3 IN)	
	HDMI	1 x HDMI Type A	
	DisplayPort	1 x DisplayPort	
	S-Video	1 x Mini Din 4 pin	
	Video	1 x BNC	
Output terminal		Mini D-Sub 15 pin (only computer 1 input can be output)	
USB port		1 x Type A (for mouse, keyboard, USB memory)	
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	
Environment	Operational temperatures	0 - 40 °C ([ECO MODE] is set automatically to [ON] at 35 - 40 °C), 20 - 80 % Humidity (non-condensing)	
	Storage temperatures	-10 - 60 °C, 20 - 80 % Humidity (non-condensing)	
Power requirement		200 - 240 V AC, 50/60 Hz	100 - 240 V AC, 50/60 Hz
Input current		6.2 A	11.2 A (100-130 V) / 5.4 A (200-240 V)
Power consumption (100 - 130 V AC / 200 - 240 V AC)	Eco mode off dual (Single)	1215 W (705 W)	1100 W / 1050 W (600 W / 580 W)
	Eco mode on dual (Single)	985 W (585 W)	880 W / 840 W (500 W / 490 W)
	Standby Mode Normal	90 W	
	Standby Mode Network standby	60 W	
	Standby Mode Power-saving	0.5 W	
Calorific value		MAX: 4146 BTU	MAX: 3754 BU
Net dimensions (W x H x D)		447 x 235 x 578 mm (not include protrusions)	
Gross dimensions (W x H x D)		700 x 333 x 653 mm (with rigger)	
Weight (Not including lens)		39.5 kg	
Gross weight		50.5 kg	
Accessories		Power cord, Remote control, Batteries, CD-ROM (User's set manual), Quick setup guide, Important information, Anti-theft cap for LAN unit, Power cord stopper	
Regulations	For United States	UL Approved (UL 60950-1), Meets FCC Class A Requirements	
	For Canada	C-UL Approved (CSA 60950-1), Meets DOC Canada Class A Requirements	
	For Europe	Meets EMC Directive (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3), meets Low Voltage Directive (EN60950-1, TÜV GS approved)	
	For Asia/Oceania	IEC60950-1, Meets AS/NZS CISPR.22 Class A	
	For Korea	KC (safety : K60950-1, EMC : K00022, K00024, K61000-3-2)	
	For China	GB4943, GB9254, GB17625.1	
	For Russia	Gost R 60950-1, 51318.22, 51317.3.2./3.3.	
	For Saudi Arabia	SASO IEC60950-1	

*1 : Effective pixels are more than 99.99 % *2 : The Lens Shift function is not available for the NP25FL.
*3 : 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.
*4 : 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. *5 : Compliance with ISO21118-2005 All specifications are subject to change without notice.

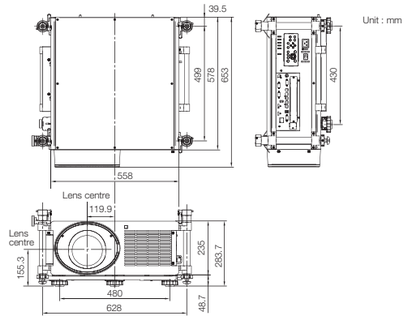
Options

- Replacement lamp
  NP25LP (for PH1400U) / **NP22LP** (for PH1000U)
- Replacement filter **NP03FT**
- HD/SD-SDI board **SB-01HC**
- 3G/HD/SD-SDI Board **SB-04HC**
- Wireless LAN unit
  NP02LM1 / NP02LM2 / NP02LM3

Model name of the optional 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

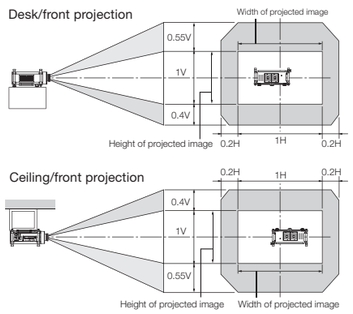
Remote control
(included accessory)

Cabinet dimensions



Lens shift range

*Shift range will vary depending on the lens you use.



Lens specifications

		NP25FL	NP32ZL	NP26ZL	NP27ZL	NP28ZL	NP29ZL
Option Lens							
Lens Type		Fixed Short Throw Lens	Zoom Lens				
Zoom/Focus		Manual focus	Powered zoom and focus				
Zoom Ratio		—	1.2	1.3		1.6	
Throw Ratio		0.67 : 1	0.9-1.1 : 1	1.39 -1.87 : 1	1.87-2.56 : 1	2.56-4.16 : 1	4.16-6.96 : 1
F		2.5	2.5-2.7	2.5			
f (mm)		14.6	19.4-23.3	28.8-38.9	39.0-53.4	52.4-85.3	84.9-142.0
Screen Size (inches)		80-200	40-800	100-500			
Light Output	PH1400U	12640 lm	13000 lm	13000 lm	13500 lm	12390 lm	12020 lm
	PH1000U	10300 lm	10600 lm	10600 lm	11000 lm	10100 lm	9800 lm
Lens Shift	Vertical	0	-0.4 V to +0.5 V	-0.4 V to +0.55 V			
	Horizontal	0	±0.2 H				
Weight		6.5 kg	4.5 kg	6.0 kg	5.0 kg		

Throw Distance and Screen Size (Aspect ratio 16:10)

Unit : m

Screen size (inches)	Lens model name					
	NP25FL	NP32ZL	NP26ZL	NP27ZL	NP28ZL	NP29ZL
40"	—	0.7-0.9	—	—	—	—
60"	—	1.1-1.4	—	—	—	—
80"	1.1	1.5-1.9	—	—	—	—
100"	1.4	1.9-2.3	2.9-4.0	4.0-5.5	9.0	12.0-15.0
120"	1.7	2.3-2.8	3.5-4.8	4.8-6.6	9.0-10.8	12.0-18.0
150"	2.2	2.9-3.5	4.4-6.0	6.0-8.2	9.0-13.5	13.5-22.4
200"	3.0	3.9-4.7	5.9-8.0	8.0-11.0	11.1-17.9	17.9-29.8
240"	—	4.7-5.7	7.1-9.6	9.6-13.2	13.3-21.4	21.4-35.7
300"	—	5.9-7.1	8.9-12.0	12.1-16.6	16.5-26.8	26.7-44.5
400"	—	7.9-9.5	11.9-16.1	16.1-22.1	22.0-35.6	35.5-59.3
500"	—	9.9-12.0	14.9-20.1	20.2-24.0	27.4-44.5	44.3-74.0
600"	—	11.9-14.4	—	—	—	—
800"	—	15.9-19.2	—	—	—	—

⚠
- 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.

Cat.No.WDPJ-1307-524N

Empowered by Innovation NEC

Installation Projector

PH1400U / PH1000U

Produce images of up to 800 inches*1 with high brightness of 13500 lumens*2 and WUXGA resolution

*1 PH1400U with NP32ZL
*2 PH1400U with NP27ZL

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

Installation model meets the requirement for large screens in exhibitions and large venues with easily adjustable stacking function as well as high brightness and high image quality.

Achieves High Brightness and High Image Quality

Projection of large images with a high brightness of 13500 lumens*1

When you need higher brightness, up to 54000 lumens*2 can be achieved by stacking projectors and using multi screen tool *3.

*1 With PH1400U. In case of PH1000U 11000 lumens.
*2 When using four projectors and the value is with PH1400U. With PH1000U, the value is 44000 lumens.
*3 The software is downloadable at http://www.nec-display.com/ap/

3-chip DLP system for high image quality

To produce high quality images, a 3 chip DLP system is used. This system produces lifelike image tones. The rich colour gradation reproduction improves the initial picture quality.

WUXGA (1920×1200) panel compatible with full HD displays

Utilises a high resolution WUXGA panel that enables the reproduction of even high-quality full HD content in its original beauty.

Cinema quality video using Hollywood Quality Video processing

HD-like vivid and crisp DVD images can be projected through Hollywood Quality Video which excels at following points and enrich your cinematic experience.

- Random and Mosquito Noise Reduction
- Video and Film Cadence Detection (3:2 and 2:2 pull down)
- Per-pixel Motion Adaptive De-interlacing
- Detail Enhancement
- Full 10-bit Processing, Scaling and Warping

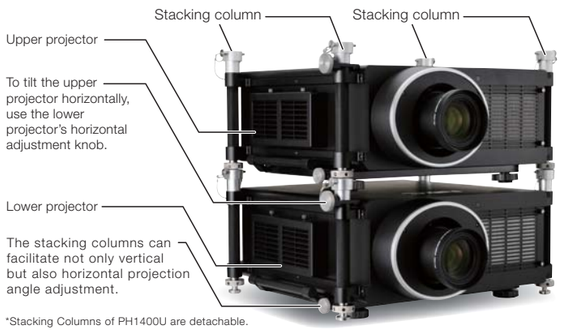
3 : 2 Pull down Detection

Diagonal Interpolation to remove “jaggies”

New installation features

Supports dual layers stacking

Stacking to two layers can be facilitated by using the supplied columns. In this case, 27000 lumens* of high brightness projection is available. * With PH1400U. In case of PH1000U 22000 lumens.



*Stacking Columns of PH1400U are detachable.

Six types of lenses available to suit the projection distance

Six types of lenses are available, from short focal types to long focul types. Since it accommodates screen sizes from 40 to 800 inches, which gives the installation more flexiblity.

*The lenses are not included with this unit.

Lens shutter that lets you blank the projected image when necessary

Lens memory function can adjust image to a preset memorized position using the inbuilt signal table even if the signal input changes

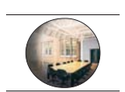
Seamless switching

When the input is switched, the image displayed before switching is held so that you can see smooth image changing without black image.

Geometric correction*

This feature adjusts the image when projecting onto specially shaped screen as below to expand your installation options.

*The software is downloadable at http://www.nec-display.com/dl/en/pj_soft/eula/index_gct4.html



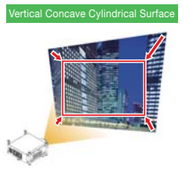
Spherical Surface

Vertical Convex Cylindrical Surface

Vertical Concave Cylindrical Surface

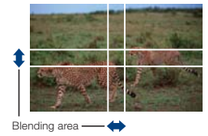
Horizontal Convex Cylindrical Surface

Horizontal Concave Cylindrical Surface

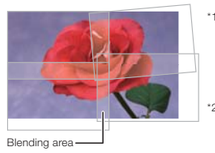


Multi screen function allowing near seamless joins between screens

There are two methods to do this. One method involves no limit on the number of the projectors that can be used and that there is no limit to the display resolution. Manual edge blending is a standard function of the projector.*1 Another method, easy installation than the first method can also be used. It uses the detection of image distortion by use of a web camera and software*2, whereby the software will automatically perform the distortion correction.



No resolution limitation



Easy Installation

*1 This method requires a high degree of installation precision and an appropriate graphics board that support edge blending is required.

*2 The software is downloadable at http://www.nec-display.com/ap/

Expandability for future-proofing your investment

Professional 3D capability*

The projector provides 3D images to users wearing commercially available LCD shutter eyeglasses.

*Only for PH1400U. The input signal is 1920 x 1080 at 120Hz Left and Right eye Interleaving (Frame sequential method)

NVIDIA®3D Vision™ Pro supported*

The projector allows you to view 3D images by using with supported graphics board or software. *Only for PH1400U.

OPS-compliant SBCs and HD/SD-SDI board supported

Wide range of input/output terminals such as HDMI and DisplayPort

Compatible with PJLink and AMX beacon

PC Control Utility Pro4 (for Windows) / 5 (for Mac) is compatible with Windows 7/Vista/XP

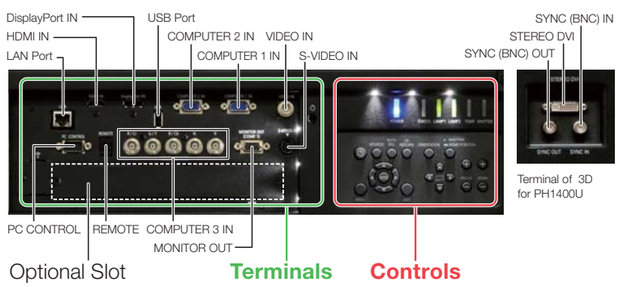
*The software is downloadable from our website

Compatible with wired / wireless LANs (optional)

Dual lamp can support 24/7 operation

Creston RoomView supported

Terminals (The panel is illuminated by LEDs)



Terminal of 3D for PH1400U

Example of installing NP27ZL

PH1400U

13500 ANSI lumens	WUXGA	39.5 kg (Not including lens)

PH1000U

11000 ANSI lumens	WUXGA	39.5 kg (Not including lens)