

\Orchestrating a brighter world

NEC

Professional Installation Projectors

PH Series

NP-PH1202HL1



Powerful 3-chip 0.65" DLP installation projector with laser-phosphor light source supports new, demanding projection

Laser Light Module

- 20,000-plus hours of virtually maintenance-free operation
- High-brightness, lower power consumption enhances applications such as retail, digital signage and theme parks
- Ability to control brightness creating a stable image over longer time periods

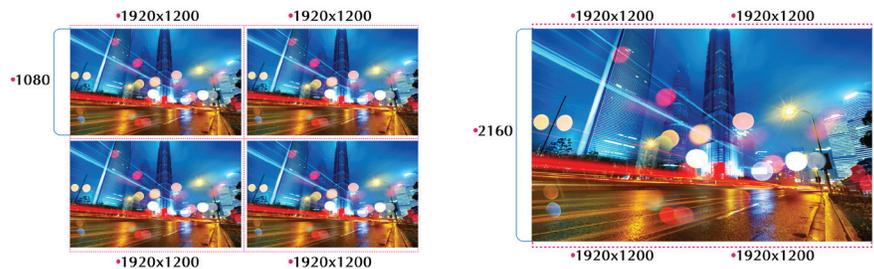
Flexible

- Enjoy greater installation flexibility with a complete line of optional bayonet style lenses (6) for quick and easy exchange. Lens throw distances range from 4.6 to 245.1 ft
- Tilt-free installation capabilities make these projector ideal for almost any install environment, including portrait orientation
- +50%/-5% vertical lens shift and +/- 11% horizontal lens shift capabilities make alignment easy

Screen Splitter

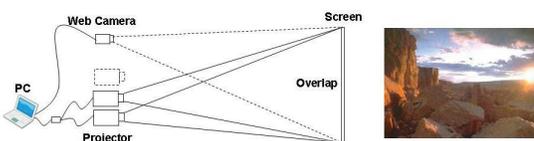
NEC is committed to bringing the latest and greatest innovation to projectors. Multi-display capabilities and TileMatrix technologies are integrated into the new PH series projectors. This processing is all done internally and therefore eliminates the additional hardware typically required to produce a beautiful 4K resolution image.

Screen Splitter (Multi Display) by Daisy Chain



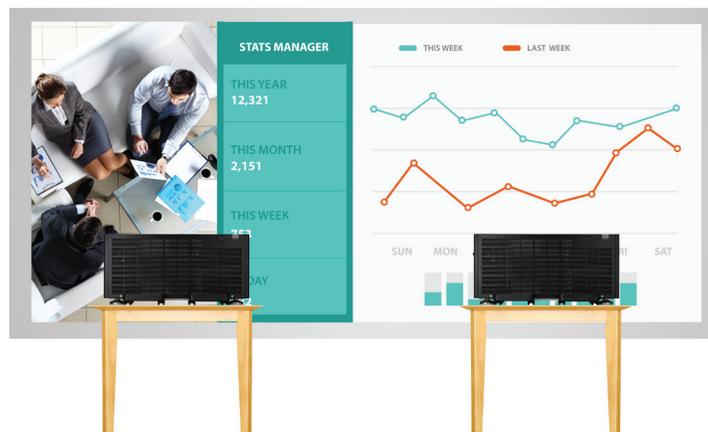
Stacking correction

The industry's first built-in stacking correction capabilities (up to four projectors) allows the projectors to boost an image's brightness up to 48,000 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.



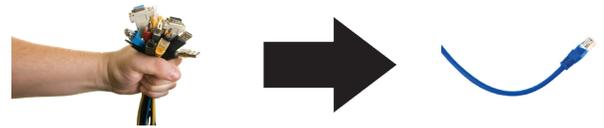
Edge blending

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



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

- **Dual computer inputs** ensure quick switching between presentations

Remote control

Wired and wireless backlit remote allows you to adjust for complete control of the projectors 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.



DisplayPort

This input provides PH Series models with expanded connectivity with advanced technology.



Super Dust Protection

NEC's patented heat exchanger and the completely sealed optical engine offer continuously best performance in harsh Rental/Staging environment.

Wall color correction presets

These provide for adaptive color tone correction to display properly on non-white surfaces.

On a green wall...



BEFORE auto wall correction



AFTER auto wall correction



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.



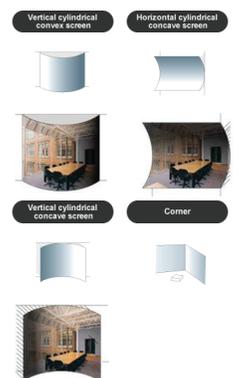
3D

When combined with active shutter glasses and 3D emitter, the PH Series Projectors create 3D images from a computer or Blu-ray player. The NP-PH1202HL1 utilizes 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.



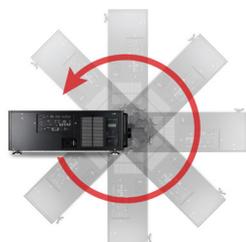
Geometric Correction

Projecting an image isn't confined to a standard flat screen or wall with the NEC PH Series. Geometric correction allows these models to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.



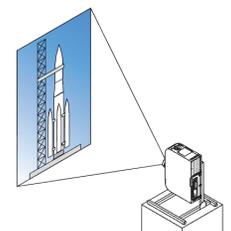
Tilt-free

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

3D Reform™ allows you to square the image by adjusting horizontally, vertically or diagonally when the projector cannot be placed parallel or perpendicular to the screen

Advanced AccuBlend™ ensures detailed images when non-native resolution sources are connected to the projector

AutoSense™ automatically syncs with any computer signal and features one-touch image optimization

64-step image magnification with location control

Discreet source keys for source selection

Remote diagnostics enable the user to monitor and make adjustments to the projector remotely

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 the first year of InstaCare. InstaCare provides the original owner one year of either limited 3 business day repair/return or next business day exchange.

IN THE BOX

Remote control, batteries, power cord, user's manual on CD-ROM, quick start guide, Lens Hole Cap, warranty Sheet, Security Sticker, Service Door Key

ACCESSORIES

NC1100CM	Ceiling mount
RMT-PJ35	Replacement remote control
NP01PW1	Power cable
RGBCBL-PJPX	RGB cable
Optional Lenses	NP-9LS08ZM1, NP-9LS12ZM1, NP-9LS13ZM1, NP-9LS16ZM1
SB-01HC	HD/SS-SDI input card
SB-04HC	3G/HD/SD-SDI input Card
SB-06WC	WiDi / Miracast Media-Player
XPAND	X105-RF-1 3D Glasses
XPAND	AD025-RF-X1 RF Emitter
N8000-8830	NEC OPS PC with Intel Core i5, 320GB Hard Drive, Windows Embedded Standard 7
N8000-8822	NEC OPS PC with Intel Celeron, 320GB Hard Drive, Windows Embedded Standard 7
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-PH1202HL1



		PH1202HL1
Display Technology		0.65" DMD
Light Output (lumens)		12,000 normal / Eco = variable
Resolution	Native	1080p 1920 x 1080
	Maximum	4K 4096 x 2160
Contrast Ratio (up to)		10,000:1 with dynamic contrast
Lamp Life (up to)		20,000 hours
Screen Size (diagonal)		100 to 500 in. / 2.54 to 12.7m
Throw Ratio	NP-9LS08ZM1 w/ lens memory	0.9 - 1.35:1
	NP-9LS12ZM1 w/ lens memory	1.27 - 1.82:1
	NP-9LS13ZM1 w/ lens memory	1.41 - 2.23:1
	NP-9LS16ZM1 w/ lens memory	1.71 - 2.87:1
Projection Distance		4.6 to 245.1 ft. / 1.4 to 74.7m
Projection Angle		5.8 to 14.4° tele / 10.9 to 18.4° wide
Lens	Zoom	Powered
	Zoom Ratio	Variable
	Focus	Powered
	NP-9LS08ZM1 w/ lens memory	F=2.5 - 3.0, f= 13.3 - 19.9mm, 4.4 lbs. (2.2 kg)
	NP-9LS12ZM1 w/ lens memory	F=2.5, f= 18.6 - 26.7mm, 3.8 lbs. (1.7 kg)
	NP-9LS13ZM1 w/ lens memory	F=2.5, f= 20.7 - 32.7mm, 3.8 lbs. (1.7 kg)
	NP-9LS16ZM1 w/ lens memory	F=2.5, f= 25.2 - 42mm, 3.8 lbs. (1.7 kg)
Shift		Powered +/-0.5 vertical, +/-11 horizontal
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		1080p, 1080i, 720p, 576p, 576i, 480p, 480i
PC Signal Compatibility		VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA
Macintosh Compatibility		Yes
Input/Output Terminals	RGB1 (analog)	VGA 15 pin D-sub, Component video using ADP-CV1E adapter
	RGB2 (analog)	5-BNC
	RGB3 (digital)	HDMI (V1.4) w/HDCP
	RGB4 (digital)	DisplayPort w/HDCP
	RGB5 (digital)	HDBaseT
	Option Slot	OPS
Monitor Out		HDMI (V1.4) w/HDCP
3D Sync Line		3Pin D
External Control		RS-232, IR, HDBaseT, Stereo Mini, RJ-45
Sync Compatibility		Separate Sync / Composite Sync / Sync on G
Power Requirements		200-240V AC, 50/60Hz
Input Current		9.2A
Power Consumption	(ECO off/ECO Mode/Standby/ Standby-Power Saving)	1392W / 1110W / 1.83W / 5.7W
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
Dimensions (WxDxH)		26.8 x 33.9 x 13.1 in. / 680 x 860 x 333mm
Net Weight		149.9 lbs. / 68.0 kg
Fan Noise		47 dB normal / 43 dB eco
Regulations		USA: UL(UL60950-1 (2) / UL, Laser + Lamp (IEC60825-1:2014 Ed.3 + IEC62471-1), FCC Part15 Class A / FCC Doc Canada: CUL(CSA C22.2 UL60950-1-07, Laser + Lamp (IEC60825-1 Ed.3 + IEC62471-1), ICES-003 Class A / Doc of Canada
Operating Temperature		41° - 104°F / 5° - 40°C
Humidity		20-80% non-condensing
Storage		-14° - 122°F / -10° - 50°C

* Lens does not ship with the projector. Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit www.necdisplay.com for details.

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