

Professional Installation Projectors

PH Series

PH1000U and PH1400U digital projectors



Powerful installation projector that delivers quality, larger-than-life images under virtually any operating condition to take on the most demanding integration projects. Perfect for large venues or high ambient lighting conditions.



FLEXIBILITY ENABLES PERFORMANCE

- High-performance video processing/scaling, utilizing the Hollywood Quality Video processor, is designed for computer signals as well as standard or high-definition video. The technology produces superior video processing using pixel-based, motion-adaptive de-interlacing to remove undesirable motion artifacts typical of interlaced signals. This processing creates life-like images in applications such as video conferencing.
- Powered by a unique 3-chip 0.96" DLP system with up to 14,000 lumens, these projectors feature a sleek, compact design with WUXGA resolution and dual UHP lamps
- Lens memory controls lens attributes (zoom, focus, shift) based on input resolution and input selection

INTEGRATED NETWORKING AND ASSET MANAGEMENT

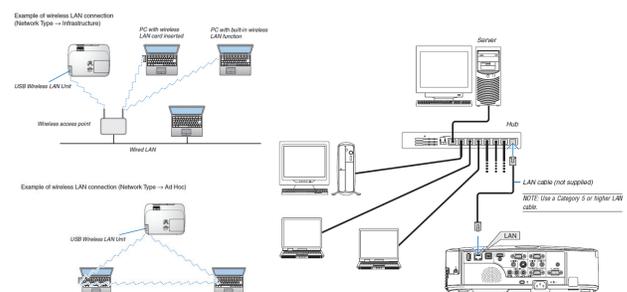
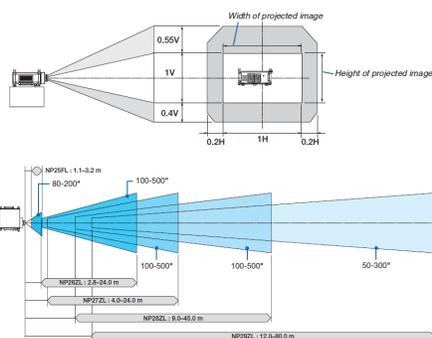
- Integrated RJ45 connection for quick connection to the LAN (10/100 base-T capability)
- Optional high-speed wireless LAN IEEE 802.11b/g/n
- Desktop control allows you to securely transmit information wirelessly to the projector from a docking station or PC in another room
- Image Express Utility (IEU 2.0; compatible with Windows or Mac operating systems) dedicated projector software provides wired and wireless data transmission via peer-to-peer or over the network
 - Broadcast mode allows you to send information from one computer to several projectors
- Windows Network Projector function within Windows Vista connects directly to networked projectors without the need for additional proprietary software
- Windows Remote Desktop function allows you to control a networked computer by connecting a USB mouse and keyboard directly to the projector's USB input
- Windows Network Drive Function displays multimedia files (.jpeg, .bmp, .png, .mpeg2 or .wmv9) in the Windows shared folder on a local network using the Viewer function—all without bringing your PC into the conference room
- Windows Media Connection Function displays multimedia files (.mpeg2, .jpeg or .wmv9) stored on the Windows Media Connect server or a local network using the Viewer function—all without bringing your PC into the conference room

SECURITY FEATURES PROVIDE PEACE OF MIND

- Cabinet control lock setting enables user to deactivate buttons on cabinet to prevent unwanted changes to projector settings
- Logo lock restricts changes to logo saved in projector memory
- Password protection restricts unauthorized use of projector
- Email notification informs the system administrator when the lamp approaches the end of its useful life

Lens Shift

Enjoy greater installation flexibility with +55%/-40% vertical lens shift and +/- 20% horizontal lens shift. Ships lensless with a complete line of optional bayonet style lenses (5) for quick and easy exchange. Lens throw distances range from 2.6 to 179.8 feet.



DESIGNED WITH THE ENVIRONMENT IN MIND

- **Extended lamp life with ECO Mode™ technology increases** lamp life up to 3000 hours, while lowering power consumption
- **Power management** enables projector to automatically turn off when an incoming signal is not detected from any of the inputs
- **Auto Power On** via the RGB (15-pin) input connector when a signal is detected from a computer
- **Carbon savings meter** calculates the positive effects of operating the projector in ECO Mode, which is encouraged by an optional message at startup. A green ECO Mode button on the remote control makes the switch easy.
- **Quick start** (3 to 4 seconds) lets you begin presenting in seconds while quick shutdown (immediate power off with no cooling required after shutdown) ensures efficient energy usage
- **Sleep timer** can be set to automatically turn off the projector at set countdown times
- **Low power consumption** (0.5W in stand-by mode) minimizes energy costs
- **Direct power off** provides instantaneous shutdown of the projector



2000-hour filter life

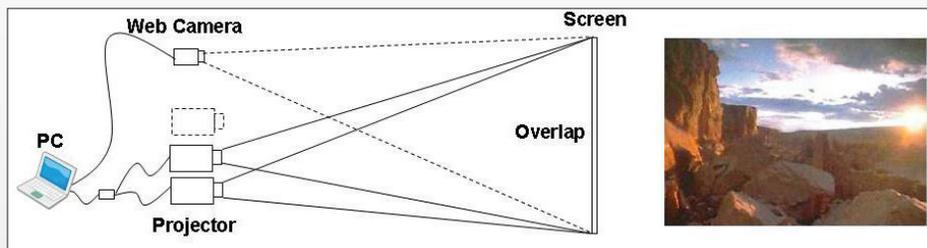
NEC is committed to designing its products to provide long lifecycles. This commitment even extends to components within its products, including the improved filter. This virtually maintenance-free filter reduces the frequency at which cleaning is required, thereby decreasing your total cost of ownership. Filter replacement is only required at the time the lamp is replaced.



BUILT-IN SOFTWARE

Built-in 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 56,000 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.



Built-in 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



DICOM SIM

DICOM Simulation enables users in medical environments to display accurate diagnostic images.



PIP/Side-by-Side

This function allows two sources to be displayed on the screen at one time in either a picture-in-picture or side-by-side configuration.



Edge blending

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



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.



HDMI™ input

Among the PH Series' wide selection of inputs is an HDMI w/HDCP for connecting to high-definition sources such as Blu-ray players, cable boxes, satellite receivers and personal computers.



Open Pluggable Specification (OPS)

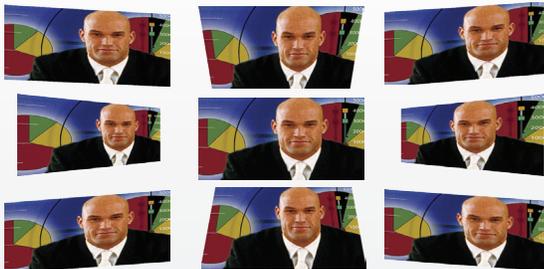
The first industry-wide standardization in option slots simplifies installation, use and maintenance, while offering superior input flexibility.



ADVANCED SOFTWARE FEATURES

Cornerstone

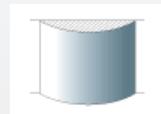
Enhanced keystone correction allows for horizontal, vertical and diagonal image correction for aligned images even when the projector is set up at an angle to the screen.



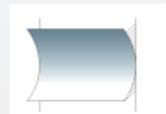
Geometric Correction

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.

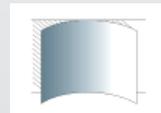
Vertical cylindrical convex screen



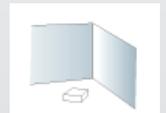
Horizontal cylindrical concave screen



Vertical cylindrical concave screen



Corner



Virtual Remote™

Used via a network connection (wired/wireless), you can control the projector directly from a computer without the need for additional control cables.



Specifications for PH1000U/PH1400U



OPTICAL		
Display Technology Light Output (lumens) Resolution Native Maximum Contrast Ratio (up to) Lamp Type Lamp Life (up to) Screen Size (diagonal) Throw Ratio NP25FL NP26ZL NP27ZL NP28ZL NP29ZL NP32ZL Projection Distance Projection Angle Lens* Zoom Focus F-number NP25FL NP26ZL NP27ZL NP28ZL NP29ZL NP32ZL Shift Keystone Correction	0.96" DMD 11,000 lumens WUXGA 1920 x 1200 WUXGA 1920 x 1200 2000:1 (2) 400W AC 2000 hours normal / 2500 hours eco 80 to 500 in. / 2 to 12.7m 0.67:1 1.39 - 1.87:1 1.87 - 2.56:1 2.56 - 4.16:1 4.16 - 6.96:1 0.9 - 1.1:1 1.8 to 243 ft. / 0.55 to 74m 2.7 to 11.2° tele / 4.4 to 15.4° wide Power Power F=2.5, f=14.6mm F=2.5, f=28.9 to 38.9mm F=2.5, f=39 to 53.4mm F=2.5, f=52.4 to 85.3mm F=2.5, f=84.9 to 142mm F=2.5, f=19.4 to 23.3mm Power: +55/-40% vertical, +/- 20% horizontal +/- 35° horizontal, +/- 30° vertical	0.96" DMD 14,000 center-screen lumens (13,500 ANSI lumens) WUXGA 1920 x 1200 WUXGA 1920 x 1200 2000:1 (2) 465W AC 2500 hours normal / 3000 hours eco 80 to 500 in. / 2 to 12.7m 0.67:1 1.39 - 1.87:1 1.87 - 2.56:1 2.56 - 4.16:1 4.16 - 6.96:1 0.9 - 1.1:1 1.8 to 243 ft. / 0.55 to 74m 2.7 to 11.2° tele / 4.4 to 15.4° wide Power Power F=2.5, f=14.6mm F=2.5, f=28.9 to 38.9mm F=2.5, f=39 to 53.4mm F=2.5, f=52.4 to 85.3mm F=2.5, f=84.9 to 142mm F=2.5, f=19.4 to 23.3mm Power: +55/-40% vertical, +/- 20% horizontal +/- 35° horizontal, +/- 30° vertical
SIGNAL COMPATIBILITY/CONNECTIVITY Scan Rate Horizontal Vertical Supported Video Standards SD/HD Video Signal Compatibility PC Signal Compatibility Macintosh Compatibility Input/Output Terminals RGB1 (analog) RGB2 (analog) RGB3 (analog) RGB4 (digital) RGB5 (digital) Video 1 Video 2 Option Slot Monitor Out External Control Sync Compatibility Networking USB	15 - 108 kHz 48 - 120 Hz NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM 480i, 480p, 576i, 576p, 720p, 1080i, 1080p VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA Yes VGA 15-pin D-sub VGA 15-pin D-sub 5-BNC HDMI w/ HDCP DisplayPort w/ HDCP RCA S-Video HD/SD-SDI VGA 15-pin D-sub RS-232, IR, Wired LAN, DDC/CI, USB, Wireless LAN (optional) Separate Sync / Composite Sync / Sync on G RJ-45 and Wireless LAN (optional) Viewer	15 - 108 kHz 48 - 120 Hz NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 1080p120 VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA Yes VGA 15-pin D-sub VGA 15-pin D-sub 5-BNC HDMI w/ HDCP DisplayPort w/ HDCP RCA S-Video HD/SD-SDI VGA 15-pin D-sub DVI-D (Dual Link) RS-232, IR, Wired LAN, DDC/CI, USB, Wireless LAN (optional) Separate Sync / Composite Sync / Sync on G RJ-45 and Wireless LAN (optional) Viewer
ELECTRICAL Power Requirements Input Current Power Consumption (Normal/ECO Mode/Standby/ Standby-Power Saving)	100-130V AC / 200-240V AC 11.2A / 5.4A 1100W / 880W / 90W / 0.5W	200-240V AC 6.4A 1215W / 985W / 90W / 0.5W
MECHANICAL Optional Lenses Installation Orientation Dimensions (WxDxH) Net Weight Fan Noise	NP25FL, NP26ZL, NP27ZL, NP28ZL, NP29ZL Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear 22.7 x 9.3 x 22 in. / 578 x 235 x 558mm 87.1 lbs. / 39.5 kg 45dB normal / 43 dB eco	NP25FL, NP26ZL, NP27ZL, NP28ZL, NP29ZL Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear 22.7 x 9.3 x 22 in. / 578 x 235 x 558mm 87.1 lbs. / 39.5 kg 48dB normal / 44 dB eco
ENVIRONMENTAL Operating Temperature Humidity Storage	32° - 104°F / 0° - 40°C 20-80% non-condensing 14° - 122°F / -10° - 60°C	32° - 104°F / 0° - 40°C 20-80% non-condensing 14° - 122°F / -10° - 60°C
ACCESSORIES NP25FL NP32ZL NP26ZL NP27ZL NP28ZL NP29ZL NP32ZL SB-01HC PHCase-01 RMT-PJ35 NP01PW1 RGBCBL-PJPX NP03FT NP22LP NP25LP N8000-8830 NCEWV2-1 NCEWV1-1 ADVEXON1-1 ADVEXON2-1	0.67:1 fixed short throw lens 0.90 - 1.1:1 zoom lens 1.39 - 1.87:1 zoom lens 1.87 - 2.56:1 zoom lens 2.56 - 4.16:1 zoom lens 4.16 - 6.96:1 zoom lens 0.9 - 1.1:1 zoom lens SD/HD-SDI input card ATA-certified case for shipping and secure storage Replacement remote control Replacement power cable Replacement RGB signal cable Replacement filter Replacement lamp for PH1000U Replacement lamp for PH1400U NEC OPS PC with Intel Core i5, 320GB Hard Drive, Windows Embedded Standard 7 Extends term of parts and labor warranty to 5 years Extends term of parts and labor warranty to 4 years Extends term of InstaCare service program to 2 years Extends term of InstaCare service program to 3 years	

* 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.

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 3-year parts and labor warranty including the first year of InstaCare. The lamp is covered for one year or 500 hours, whichever comes first. 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, remote control cable, batteries, power cord, RGB signal cable, lens cap, user's manual on CD-ROM, quick start guide, product registration card, wired and wireless network setup guide, lens anti-theft screw

ORDERING MODEL NUMBER

NP-PH1000U
 NP-PH1400U



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