

# NP Installation Series

## NP4000/NP4001 installation and large venue digital projectors

Powerful installation projectors equipped to take on the most demanding integration projects.

### FLEXIBILITY ENABLES PERFORMANCE

- 5200 ANSI lumens (NP4000) and 4500 ANSI lumens (NP4001)
- NP4001 with a WXGA (1280 x 768) native resolution was designed with the future in mind: support of the emerging wide-screen resolutions used in more of today's computers along with the ever-increasing demands for HD signals. Native 4:3 resolutions up to 1600 x 1200 are supported.
- Vertical and horizontal lens shift enables flexible projector placement
- NP4000 Series projectors ship lensless with a complete line of optional bayonet style lenses (5) for quick and easy lens exchange. Optional lenses enable the user to determine the appropriate lens to cover projection distances between 2.6 - 283 feet.
- Dual or single lamp operation. Selectable settings allow for multiple light outputs and extended lamp life.
- Power zoom and focus simplifies installation and operation
- Automatic signal detection instantaneously connects with the live source
- Flexible video/data connections, including S-Video, component video, three computer inputs (VGA, RGBHV, DVI with HDCP), and monitor output
- BrilliantColor™ technology can dramatically increase system brightness and color saturation at mid and low video levels, while optimizing color gain across the full color gamut
- DynamicBlack™ technology allows for dramatic improvement in the black level of the video, producing incredible detail in dark scenes
- Advanced color management adjusts for input type (high-bright, presentation, video, movie, graphics and sRGB)
- For applications requiring maximum brightness, a 4-segment color wheel is preinstalled. For video quality color reproduction, a 6-segment color wheel is included.

### INTEGRATED NETWORKING AND ASSET MANAGEMENT

- Integrated RJ45 connection for quick connection to the LAN (10/100 base-T capability)
- Remote diagnostics enable the user to monitor and make adjustments to the projector via the network from a remote location
- Built-in HTTP page allows for control and monitoring over a LAN network. Email notification of error messages or lamp end-of-life can be sent to remote locations.

### EXTENDING THE LIFE OF THE PROJECTOR

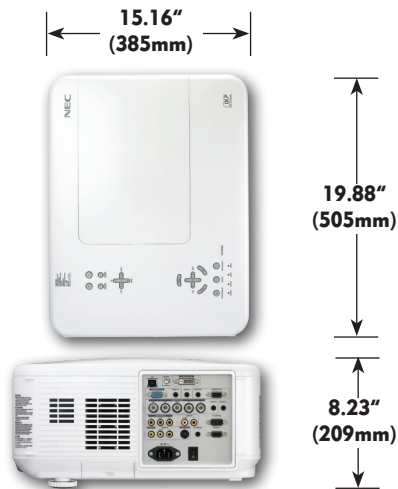
- Extended use operation for the most demanding applications
- ECO Mode™ technology extends lamp life by up to 25%
- Quick Power Off protects the lamp during the cool down period if the power is removed by unplugging the power cord or when the power strip is switched off. Lamp temperature is monitored internally during this period to prevent unit power on until the lamp is properly cooled.
- Sealed optical block minimizes the effects of dust, helping to ensure the delivery of crisp, distortion-free images
- Cabinet control lock setting enables user to deactivate buttons on cabinet to prevent unwanted changes to projector settings
- Password protection restricts unauthorized use of projector



### Series Features and Benefits

- EXTENDED USE OPERATION
- COMPLETE LINE OF (5) BAYONET STYLE LENSES
- POWERED VERTICAL AND HORIZONTAL LENS SHIFT
- POWER ZOOM AND FOCUS
- DUAL/SINGLE LAMP OPERATION
- BUILT-IN LAN CONNECTION FOR CONTROL
- COMPREHENSIVE INPUT PANEL
- DUST-RESISTANT DESIGN WITH SEALED OPTICAL BLOCK





## UNIQUE FEATURES

**BrilliantColor™ technology** advanced video processing from Texas Instruments delivers exceptional picture management control for both progressive and interlaced sources, while making images more vibrant, colors more realistic and blacks richer with detail.

**DynamicBlack™** monitors the incoming video content and dynamically adjusts the contrast ratio to optimize picture quality for each video frame.

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

**VORTEX™ Technology Plus** breakthrough image processing technology improves white level, color accuracy, dynamic range and varying levels of black in an image.

**ECO Mode technology** extends lamp life, lowers audible noise and reduces total cost of ownership.

**Kensington lock slot** enables security cable to be attached to projector.

**64-step image magnification** with location control

**Quick Power Off** protects the lamp during the cool down period if the power is removed by unplugging the power cord or when the power strip is switched off. Lamp temperature is monitored internally during this period to prevent unit power on until the lamp is properly cooled.

## 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, batteries, power cord, 6-segment color wheel, user's manual on CD-ROM, quick start guide, product registration card, anti-theft screw for lens



## Specifications for NP4000/NP4001

<b>OPTICAL</b>		
Display Technology	NP4000: 0.7" DMD - DLP by Texas Instruments NP4001: 0.65" DMD (DC3) - DLP by Texas Instruments	
Resolution	NP4000: XGA 1024 x 768 NP4001: WXGA 1280 x 768	
Native	NP4000/NP4001: UXGA 1600 x 1200	
Maximum Light Output (lumens)	NP4000: 5200 normal NP4001: 4500 normal	
Contrast Ratio (up to)	2100:1	
Lamp Type	260W AC / 230W eco	
Lamp Life (up to)	2000 hours normal / 2500 hours eco	
Screen Size (diagonal)	50 to 200 in. / 1270 to 5080mm 40 to 500 in. / 1016 to 12,700mm	
NP06FL		
NP07ZL, NP08ZL, NP09ZL, NP10ZL		
Throw Ratio		
NP06FL	0.77:1	
NP07ZL	1.33 - 1.79:1	
NP08ZL	1.78 - 2.35:1	
NP09ZL	2.22 - 4.43:1	
NP10ZL	4.43 - 8.3:1	
Projection Distance	NP4000	NP4001
NP06FL	2.6 - 10.6 ft., 0.85 - 3.52m	2.8 - 11.5 ft., 0.85 - 3.52m
NP07ZL	3.5 - 60.9 ft., 1.15 - 18.56m	3.8 - 60.9 ft., 1.15 - 18.56m
NP08ZL	4.7 - 79.9 ft., 1.55 - 24.35m	5.1 - 79.9 ft., 1.55 - 24.35m
NP09ZL	5.8 - 152.3 ft., 1.92 - 46.41m	6.3 - 152.3 ft., 1.92 - 46.41m
NP10ZL	11.6 - 283.3 ft., 3.85 - 86.36m	12.6 - 283.3 ft., 3.85 - 86.36m
Projection Angle	NP4000	NP4001
NP06FL	0°	0°
NP07ZL	15.7°/11.7°	12.4°/9.3°
NP08ZL	11.8°/9.0°	9.2°/7.0°
NP09ZL	9.5°/4.7°	8.8°/7.4°
NP10ZL	4.8°/2.5°	3.8°/2.0°
Lens		
Zoom	Power	
Focus	Power	
F-number		
NP06FL	F = 2, f = 11.4mm	
NP07ZL	F = 1.8 to 2.3, f = 19.3 to 25.8mm	
NP08ZL	F = 1.7 to 1.9, f = 26 to 34mm	
NP09ZL	F = 2.1 to 2.9, f = 32 to 63mm	
NP10ZL	F = 2.2 to 3.1, f = 63.5 to 117.4mm	
Shift	Motorized 50% Vertical and 10% Horizontal	
Keystone Correction	V +/- 40° H +/- 27°	
<b>SIGNAL COMPATIBILITY/CONNECTIVITY</b>		
Scan Rate	Horizontal 15 - 90 kHz / Vertical 50 - 85 Hz	
Supported Video Standards	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM	
SD/HD Video Signal Compatibility	1080i, 720p, 575p, 575i, 480p, 480i	
PC Signal Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WXGA	
Macintosh Compatibility	Yes	
Input/Output Terminals		
RGB 1 (analog)	15 pin	
RGB2 (analog)	5 BNC	
RGB3 (digital)	DVI-D w/ HDCP	
Video 1	RCA	
Video 2	S-Video	
Video 3	Component	
Audio	(2) L/R RCA, (3) mini stereo	
Audio Out	Variable 1 x mini stereo	
Monitor Out	1-15 pin	
Audio	2 x 3W speaker	
External Control	9-pin D-sub, RS-232, IR	
Sync Compatibility	Separate Sync / Composite Sync / Sync on G	
Networking	RJ-45 Monitoring	
Screen Trigger	Yes	
USB	USB-B for Service	
<b>ELECTRICAL</b>		
Power Requirements	100 - 240V AC, 50/60Hz	
Input Current		
Normal Mode	6.5A dual lamp / 3.5A single lamp	
Eco Mode	5.8A dual lamp / 3.1A single lamp	
Power Consumption		
Normal Mode	655W dual lamp / 350W single lamp	
Eco Mode	580W dual lamp / 315W single lamp	
Standby Power	< 5 watts	
<b>MECHANICAL</b>		
Installation Orientation	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear	
Dimensions (WxDxH)	19.88 x 15.16 x 8.23 in. / 505 x 385 x 209mm	
Net Weight	36.4 lbs / 16.5 kg	
Fan Noise	36 dB normal / 34 dB eco @ 1m	
Regulations	USA UL60950-1 FCC Class B, Canada CSA60950-1 NOM-001-SCFI-1993	
<b>ENVIRONMENTAL</b>		
Operational Temp	41° - 104°F / 5° - 40°C Sea level / 41° - 73°F / 5° - 23°C @ 10,000 ft.	
Humidity	20-80% non-condensing	
Storage	14° - 122°F / -10° - 50°C	
<b>ACCESSORIES</b>		
NP06FL	0.77:1 fixed short throw lens for the NP4000 Series	
NP07ZL	1.33 - 1.79:1 zoom lens for the NP4000 Series	
NP08ZL	1.78 - 2.35:1 zoom lens for the NP4000 Series	
NP09ZL	2.22 - 4.43:1 zoom lens for the NP4000 Series	
NP10ZL	4.43 - 8.3:1 zoom lens for the NP4000 Series	
NP4000CM	Ceiling mount	
NP4000ATA	ATA-certified case for shipping and secure storage	
RMT-PJ24	Replacement remote control	
PWRCRD-PJPX	Replacement power cable	
RGBCBL-PJPX	Replacement RGB signal cable	
SCP100	Suspended ceiling plate	
NP04LP	Replacement lamp for the NP4000 Series	
NECEW24	Extends term of parts and labor warranty to 4 years	
ADVEXON1-I	Extends term of InstaCare service program to 2 years	
ADVEXON2-I	Extends term of InstaCare service program to 3 years	
NP4KMaint	Maintenance plan for NP4000 series	
NP4KPL03/Maint	Extends maintenance plan for 3rd year including parts & labor	
NP4KPL04/Maint	Extends maintenance plan for 4th year including parts & labor	
NECECO	Projector recycling program, disposal certificate	

Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit [www.necdisplay.com](http://www.necdisplay.com) for details.

AutoSense, ECO Mode and Total Trade are trademarks of NEC Display Solutions. BrilliantColor and DynamicBlack are trademarks, and DLP and the DLP logo are registered trademarks of Texas Instruments. All other brand or product names are trademarks or registered trademarks of their respective holders. Product specifications subject to change. 1/09 ver. 4.

©2009 NEC Display Solutions of America, Inc. All rights reserved.

## NEC Display Solutions

500 Park Boulevard, Suite 1100  
Itasca, IL 60143  
866-NEC-MORE

# NEC