

# NP Installation Series

## NP4100/NP4100W installation and large venue digital projectors

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

### FLEXIBILITY ENABLES PERFORMANCE

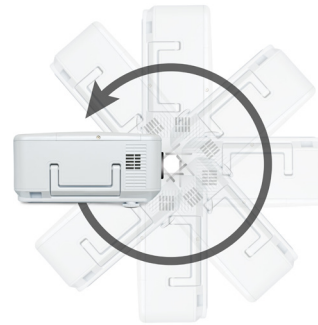
- 6200 ANSI lumens (NP4100) and 5500 ANSI lumens (NP4100W)
- NP4100W with a WXGA (1280 x 800) native resolution was designed with the future in mind: support of the emerging widescreen resolutions used in more of today's computers along with the ever-increasing demands for HD signals. Native 4:3 resolutions up to 1600 x 1200 are supported.
- Vertical and horizontal lens shift enables flexible projector placement
- Ships 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
- 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.
- 1W of power consumption while in stand-by mode

### 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

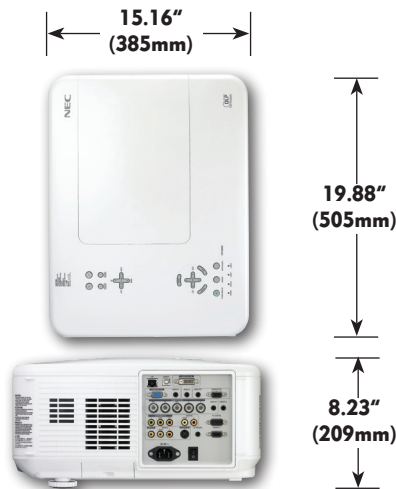


**Tilt-Free Installation**  
The NP4100/  
NP4100W can be  
rotated freely (360°)  
in order to point up  
or down depending  
on the installation  
requirements.

### 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

**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

**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

**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

## 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 NP4100/NP4100W

|  |  |
|--|--|
| <b>OPTICAL</b>                           | <p><b>Display Technology</b><br/>NP4100: 0.7" DMD - DLP by Texas Instruments<br/>NP4100W: 0.65" DMD (DC3) - DLP by Texas Instruments</p> <p><b>Resolution</b><br/>Native<br/>NP4100: XGA 1024 x 768<br/>NP4100W: WXGA 1280 x 800<br/>NP4100/NP4100W: UXGA 1600 x 1200</p> <p><b>Light Output (lumens)</b><br/>NP4100: 6200 normal / Eco = approx. 80% of normal mode<br/>NP4100W: 5500 normal / Eco = approx. 80% of normal mode</p> <p><b>Contrast Ratio (up to)</b><br/>2100:1</p> <p><b>Lamp Type</b><br/>280W AC / 250W eco</p> <p><b>Lamp Life (up to)</b><br/>2000 hours normal / 3000 hours eco</p> <p><b>Screen Size (diagonal)</b><br/>NP06FL 50 to 200 in. / 1270 to 5080mm<br/>NP07ZL, NP08ZL, NP09ZL, NP10ZL 40 to 500 in. / 1016 to 12,700mm</p> <p><b>Throw Ratio</b><br/>NP06FL 0.77:1<br/>NP07ZL 1.33 - 1.79:1<br/>NP08ZL 1.78 - 2.35:1<br/>NP09ZL 2.22 - 4.43:1<br/>NP10ZL 4.43 - 8.3:1</p> <p><b>Projection Distance</b><br/>NP4100 2.6 - 10.6 ft., 0.78 - 3.24m<br/>NP07ZL 3.5 - 60.9 ft., 1.06 - 18.56m<br/>NP08ZL 4.7 - 79.9 ft., 1.42 - 24.35m<br/>NP09ZL 5.8 - 152.3 ft., 1.76 - 46.41m<br/>NP10ZL 11.6 - 283.3 ft., 3.54 - 86.36m</p> <p><b>Projection Angle</b><br/>NP4100 0°<br/>NP07ZL 16.0°/11.6°<br/>NP08ZL 12.1°/8.9°<br/>NP09ZL 9.8°/4.7°<br/>NP10ZL 4.9°/2.5°</p> <p><b>Lens</b><br/>Zoom<br/>Focus<br/>F-number<br/>NP06FL F = 2, f = 11.4mm<br/>NP07ZL F = 1.8 to 2.3, f = 19.3 to 25.8mm<br/>NP08ZL F = 1.7 to 1.9, f = 26 to 34mm<br/>NP09ZL F = 2.1 to 2.9, f = 32 to 63mm<br/>NP10ZL F = 2.2 to 3.1, f = 63.5 to 117.4mm<br/>Shift<br/>Keystone Correction Motorized 50% Vertical and 10% Horizontal V +/- 40° H +/- 35°</p> |
| <b>SIGNAL COMPATIBILITY/CONNECTIVITY</b> | <p><b>Scan Rate</b><br/>Horizontal 15 - 90 kHz / Vertical 50 - 85 Hz</p> <p><b>Supported Video Standards</b><br/>NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM</p> <p><b>SD/HD Video Signal Compatibility</b><br/>1080p, 1080i, 720p, 575p, 575i, 480p, 480i</p> <p><b>PC Signal Compatibility</b><br/>VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WXGA</p> <p><b>Macintosh Compatibility</b><br/>Yes</p> <p><b>Input/Output Terminals</b><br/>RGB 1 (analog)<br/>RGB2 (analog)<br/>RGB3 (digital)<br/>Video 1<br/>Video 2<br/>Video 3<br/>Audio<br/>Audio Out<br/>Monitor Out</p> <p><b>Audio</b><br/>External Control<br/>Sync Compatibility<br/>Networking<br/>Screen Trigger<br/>USB</p> <p>15 pin<br/>5-BNC<br/>DVI-D w/ HDCP<br/>RCA<br/>S-Video<br/>Component<br/>(2) L/R RCA, (3) mini stereo<br/>Variable 1 x mini stereo<br/>1-15 pin<br/>2 x 3W speaker<br/>9-pin D-sub, RS-232, IR<br/>Separate Sync / Composite Sync / Sync on G<br/>RJ-45 Monitoring<br/>Yes<br/>USB-B for Service</p>   |
| <b>ELECTRICAL</b>                        | <p><b>Power Requirements</b><br/>100 - 240V AC, 50/60Hz</p> <p><b>Input Current</b><br/>Normal Mode 7.1A dual lamp / 3.8A single lamp<br/>Eco Mode 5.8A dual lamp / 3.1A single lamp</p> <p><b>Power Consumption</b><br/>Normal Mode 710W dual lamp / 375W single lamp<br/>Eco Mode 580W dual lamp / 315W single lamp<br/>Standby Power 1W (power saving mode)</p>   |
| <b>MECHANICAL</b>                        | <p><b>Installation Orientation</b><br/>Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear</p> <p><b>Dimensions (WxDxH)</b><br/>19.88 x 15.16 x 8.23 in. / 505 x 385 x 209mm</p> <p><b>Net Weight</b><br/>38.6 lbs. / 17.5 kg</p> <p><b>Fan Noise</b><br/>38 dB normal / 34 dB eco @ 1m</p> <p><b>Regulations</b><br/>USA UL60950-1 FCC Class B, Canada CSA60950-1 NOM-001-SCFI-1993</p>  |
| <b>ENVIRONMENTAL</b>                     | <p><b>Operational Temp</b><br/>41° - 104°F / 5° - 40°C Sea level / 41° - 73°F / 5° - 23°C @ 10,000 ft.</p> <p><b>Humidity</b><br/>20-80% non-condensing</p> <p><b>Storage</b><br/>14° - 122°F / -10° - 50°C</p>  |
| <b>ACCESSORIES</b>                       | <p>0.77:1 fixed short throw lens for the NP4100 Series<br/>1.33 - 1.79:1 zoom lens for the NP4100 Series<br/>1.78 - 2.35:1 zoom lens for the NP4100 Series<br/>2.22 - 4.43:1 zoom lens for the NP4100 Series<br/>4.43 - 8.3:1 zoom lens for the NP4100 Series</p> <p>Ceiling mount<br/>ATA-certified case for shipping and secure storage<br/>Replacement remote control<br/>Replacement power cable<br/>Replacement RGB signal cable<br/>Suspended ceiling plate<br/>Replacement lamp for the NP4100 Series<br/>Extends term of parts and labor warranty to 4 years<br/>Extends term of InstaCare service program to 2 years<br/>Extends term of InstaCare service program to 3 years<br/>Maintenance plan for NP4100 series<br/>Extends maintenance plan for 3rd year including parts &amp; labor<br/>Extends maintenance plan for 4th year including parts &amp; labor<br/>Projector recycling program, disposal certificate</p>  |

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

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