

Empowered by Innovation

**NEC**

Installation Projector

# NP3151W

*Networkable projectors supporting Windows Vista  
Cinematic video powered by HQV (Hollywood Quality Video)  
WXGA LCD panel for wide-format images (1280 x 800)*



- High Brightness up to 4000 ANSI Lumens
- Wired/wireless LAN capable
- Picture-in-picture function
- Five optional lenses available for Flexible installation
- Manual lens shift
- Multiple input/output terminals
- A variety of functions can be added by updating the firmware



From Digital Cinema to Mobile Convenience - NEC Projector is the Best Solution

# NP3151W

**WXGA**  
(1280 x 800)

**4000 ANSI lm**

**7.3kg**

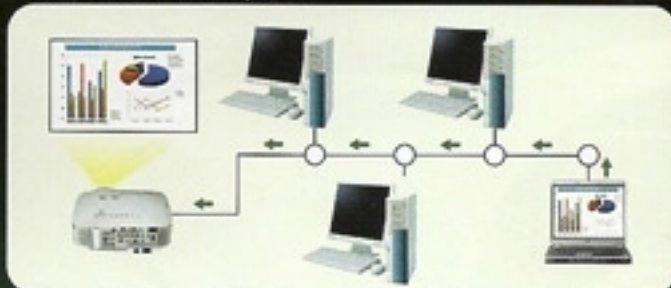


*High brightness, high performance projector with the latest technology for vivid image quality*

## Networkable projectors supporting Windows Vista

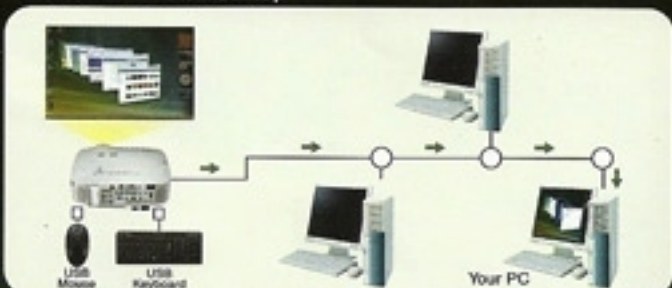
The projectors support "Windows Network Projector" function, which is one of the brand-new features introduced with Windows Vista. You can make presentations from your PC via the network without connecting RGB cable, if your PC is running Windows Vista. You don't need to install any proprietary software application on your PC. Like using a networked printer, you can simply select which projector to use from the list presented on your PC screen. Furthermore, it is possible to remotely operate a PC installed some distance away from the projector via the network by using "Windows Remote Desktop" function.

### • Windows Network Projector



A PC connected to LAN automatically detects projectors on the network.

### • Windows Remote Desktop



When you connect a USB mouse and keyboard to the projector, you can remotely operate your PC via the network.

\*Use a commercially available USB mouse and USB keyboard (US layout version). We do not warrant that the USB port of the projector will support all USB mouse and USB keyboards in the market.

## Cinematic video powered by HQV (Hollywood Quality Video)

HD-like, vivid and crisp DVD images can be projected with the Reon VX video processor using HQV technology from Silicon Optix. HQV represents an enormous leap in video processing, with true flagship performance in noise reduction, de-interlacing and scaling.

### • Random and Mosquito Noise Reduction

### • Video and Film Cadence Detection (3:2 and 2:2 pull down)

### • Per-pixel Motion Adaptive Deinterlacing

### • Detail Enhancement

### • Full 10-bit processing, scaling and warping

### • 3 : 2 Pull down Detection



Not HQV



HQV

### • Diagonal Interpolation to remove "jaggies"



Not HQV



HQV

## The projector supports wired/wireless LAN

By connecting a LAN cable to the LAN port (RJ-45) on the projector or installing the optional wireless LAN unit on the projector, it is possible to transfer screen images from the PC to the projector more quickly (2 to 3 times faster than conventional models from NEC) for on-screen presentation using Image Express Utility 2.0 software (Windows Vista/XP/2000 are available). This projector can change presenters with a single operation. The person who wants to speak can send images from his/her PC to the projector just by clicking the "Become a Presenter" button. Furthermore, for a presentation in a large conference room, participants can confirm details of the projected images, such as small characters, etc., with their own PCs. A presenter can distribute files or documents used in the presentation through the network. And it is possible to turn the power of the projector on and off and switch input signals from a PC via the network. Model name of the optional wireless LAN unit varies depending on the country where the unit is used (or to be used).

NP01LM1: Thailand, China, Hong Kong, Singapore, South Korea, Malaysia, Vietnam, India, Australia, New Zealand, United Arab Emirates, Saudi Arabia, Oman, Peru, Chile, Russia, Indonesia, South Africa, Turkey, Ukraine, Philippines

NP01LM5: Argentina, Taiwan

For support in North America, Europe, Japan, and the countries listed above, refer to our website (<http://www.nec-pj.com>).

Note that the USB port (Type A) and the USB Wireless LAN Unit cannot be used at the same time. When connecting a USB device such as a USB mouse, USB keyboard, or USB memory, first remove the USB Wireless LAN Unit from the projector.

Optional Wireless LAN unit



*An image of picture-in-picture. A sub picture can be displayed either at the top-left, the top-right, the bottom-left, or the bottom right in the main picture.*

## Picture-in-picture function

This function projects two different signals simultaneously. The main picture signal supports the COMPUTER 1 and 2 inputs. The sub picture signal supports the VIDEO input only.

## Five types of optional lenses available for Flexible installation

In order to support a variety of installations, five types of lenses are available in addition to the standard lens. The projector supports screens from 30 to 500 inches; select the optimum lens depending on the specific installation environment, such as conference rooms, halls, and exhibitions. For a 100-inch screen, projection is possible at a distance 1.74 m (Wide Angle Fixed Lens) or between 2.6 m to 15.5 m. Lenses are easily replaced by the customer and do not require special tools.

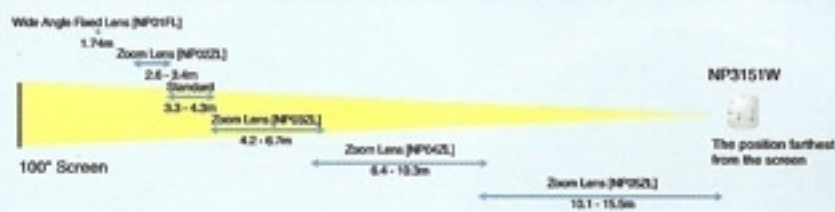
Model	Standard	NP01FL	NP02ZL	NP03ZL	NP04ZL	NP05ZL
Lens type	Zoom Lens	Wide Angle Fixed Lens	Zoom Lens	Zoom Lens	Zoom Lens	Zoom Lens
<b>Option Lens</b>						
Zoom/Focus	Manual	Manual (Focus only)	Manual	Manual	Manual	Manual
Zoom Ratio	1.33	-	1.3	1.58	1.6	1.52
Throw Ratio	1.5-2.0 : 1	0.8 : 1	1.2-1.5 : 1	1.9-3.1 : 1	3.0-4.8 : 1	4.7-7.2 : 1
Screen Size	30-500 inch	40-150 inch	30-500 inch	40-500 inch	60-500 inch	60-500 inch
Brightness*	Normal Mode	4000 ANSI lm	3000 ANSI lm	3200 ANSI lm	3300 ANSI lm	3200 ANSI lm
Lens Shift	Vertical	Max +0.5V	0	Max +0.5V	Max +0.5V	Max +0.5V
	Horizontal	Max ±0.1H	0	Max ±0.1H	Max ±0.1H	Max ±0.1H
Weight	0.63 kg	1.1 kg	1.1 kg	1.13 kg	0.89 kg	0.92 kg

\*This is the brightness value when the lamp mode is set to "Normal Mode" and the preset mode is "High brightness mode".

If the lamp mode is switched to "Eco Mode", the brightness will drop to about 80%. If any other mode is selected as the preset mode, brightness may drop slightly.

### Projection range of lens (image projected on a 100-inch screen)

Project at a distance 1.74m or between 2.6m to 15.5m (for a 100-inch screen).



### Throwing Distance

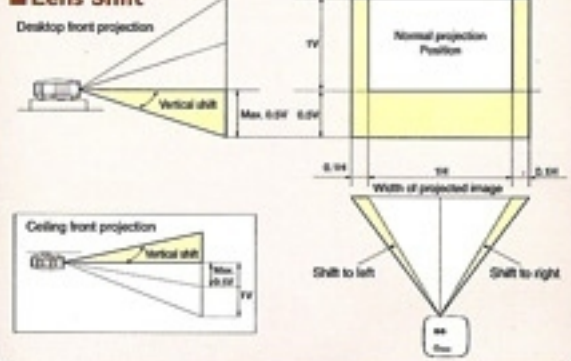
Screen Size (inch)	Throwing Distance (m)					
	Standard	NP01FL	NP02ZL	NP03ZL	NP04ZL	NP05ZL
30"	0.913	-	0.710	-	-	-
40"	1.17	0.68	1.013	1.626	-	-
60"	1.926	1.00	1.520	2.340	3.861	6.092
80"	2.635	1.39	2.027	3.154	5.182	8.124
100"	3.343	1.74	2.634	4.267	6.410	10.155
120"	3.952	2.10	3.140	5.381	7.712	12.338
150"	4.965	2.63	3.950	6.410	9.715	15.323
200"	6.687	-	5.268	8.535	12.928	20.432
300"	9.913	-	7.893	12.820	19.531	30.846
400"	13.207	-	10.413	17.107	26.048	41.382
500"	16.521	-	13.016	21.433	32.552	51.478

\*Stated projection distances are standard values. For a stack installation, the recommended projection distances will be different.

\*The values in the tables are design values and may vary.

### Manual lens shift for simple adjustment of projected images on screen and Keystone correction

#### Lens Shift



With the manual lens shift mechanism, the position of projected images on screen can be adjusted in both the vertical and horizontal directions without moving the main unit. Furthermore, Keystone correction corrects distortions in the vertical and horizontal directions up to a maximum +/- 40 degrees in the horizontal direction and a maximum +/- 30 degrees in the vertical direction. Keystone correction can be operated by remote control.

\*Shifting the lens to the maximum in two directions combined will cause the edges of the image to become dark or will cause some shadows.

\*The Lens Shift function is not available for the NP01FL.



The Lens Shift Dial (Right Left, Up/Down) on the top side of the projector.

### Multiple input/output terminals including DVI (digital), BNC, and built-in stereo speakers

Multiple input/output terminals include analogue RGB, 5-core BNC, DVI (digital), video, and S-video. (The analogue RGB and BNC also support component inputs.) The 5W+5W stereo speakers are built in to provide audiovisual conditions with high image and audio qualities. Furthermore, the Viewer feature allows you to view slides stored on a USB memory on the projector. Even if no computer is available, presentations can be conducted simply with the projector.

\*To use the Viewer, first you need to create presentation materials on your PC (JPEG, BMP, GIF, PNG). Use commercially available USB memory devices. We do not warrant that the USB port of the projector will support all USB memory devices in the market.



### A variety of functions are implemented.

- AMX
- PJ Link
- Program Timer
- Geometric Correction tool (scheduled for Summer 2008)

## Specifications

			NP3151W		
LCD Panel <sup>*1</sup>	0.74 inch (1280x800) p-Si TFT active-matrix with WGA (Aspect Ratio 16:10)				
Lens	Manual Zoom / Focus Manual Shift <sup>*2</sup>				
Projection Distance	Throw ratio 1.52:0.1, F1.7-2.2, 0-24.4-32.5mm (Standard Lens)				
Projection Angle	Horizontal: max±0.18° / Vertical: max±0.59°				
Projection Angle (Eco Mode)	0.94m to 21.91m (Standard Lens)				
Lamp Life <sup>*3</sup> (Eco Mode)	0 to 12.1deg (Wide) / 0 to 9.1deg (Tall)				
Light Output	330W (744W) AC 2000lm (3000lm) 4000 ANSI lumens Approx. 80% of Nominal				
Contrast Ratio (White/Black)	500 : 1 3808 (3148)				
Quietness (Eco Mode)	30inch to 500inch (0.74m to 12.7m) (Standard Lens)				
Image Size (Diagonal)	WXGA 1600 x 1200 (1400 x 1050 @ 60Hz or DV-8)				
Maximum Resolution	15kHz to 108kHz (RGB : 24kHz or over)				
Synchronization Range	Horizontal Vertical				
Video Bandwidth	RGB : 145MHz (Maximum sampling rate)				
Colour Reproduction	Full Colour, 16.7Million Colours Simultaneously				
Input Terminals	3 Computer Input	1 D-Sub Mini 15pin (Computer 1 IN)	Compatible signals	VGA, SVGA, XGA, WXGA, SXGA, SXGA+, UXGA	
		1 BNC x 5 (Computer 2 IN)	RGB (Analog)	0.7Vpp/75Ω	
		2 Stereo Mini Jack	iL/V Sync	4.0Vpp/75Ω (Level)	
		1 DVI-D (Computer 3 IN)	Composite Sync	4.0Vpp/75Ω (Level)	
		1 Stereo Mini Jack	Sync on G	1.0Vpp/75Ω (with Sync) Negative Polarity	
	3 Component Input	1 RCA pin x 3	Stereo L/R	0.5Vrms/22kΩ or over	T.M.D.S. Specification, with 8.0 C.P., Max Resolution : SXGA+/60Hz
		1 D-Sub Mini 15pin (Sharing with Computer 1 IN)	RGB (Digital)	0.5Vrms/22kΩ or over	
		1 BNC x 5 (Sharing with Computer 2 IN)	Stereo L/R	1.0Vpp/75Ω (with Sync)	
		1 RCA pin x 2	Y (C/M/C/P/P)	0.7Vpp/75Ω	
	1 Video Input	1 RCA pin	Compatible signals	480i, 480p, 720p, 1080i/60Hz, 576i, 576p, 1080i/50Hz	DVD Progressive (50/60Hz)
1 RCA pin x 2		Stereo L (OMRON)/R	0.5Vrms/22kΩ or over		
1 S-Video Input	1 RCA pin	Composite Video	Same with Computer	NTSC/NTSC4.43/PAL/PAL-N/PAL-M/PAL-60/SECAM	
	1 Mini DIN 4pin	Stereo L (OMRON)/R	1.0Vpp/75Ω		
Output Terminals	1 Monitor Output	1 D-Sub Mini 15pin	Y	0.7Vpp/75Ω	
	1 Audio Output	1 Stereo Mini Jack	C	0.28Vpp/75Ω	
Control Terminals	1 USB Port	Type A	Same with Video		
	1 LAN Port	Ethernet	Selected Computer 1*2 or Component Signal		
	1 Wireless LAN (USB Port)	Type B	Variable Output Level		
	1 REMOTE	Stereo Mini Jack	Selected Computer 1*2*, Component, Video or S-Video Signal		
Built-in Speaker	1 PC Control	Drush Type	USB 2.0 High Speed		
			100BASE-TX/100BASE-T		
Keystone Correction	Horizontal Vertical		IEEE 802.11b/g (NPD1101) / NPD1105		
Environment	Operational Temperatures Storage Temperatures		Wireless Remote Control		
Power Requirement	Input Current		RS-232C		
Power Consumption	Normal Mode Eco Mode Standby Mode		SW+SW Stereo		
Regulations	For United States / Mexico For Canada For Asia/Oceania For Europe For Korea For China		5W+5W Stereo		
Dimensions (WxHxD)	Net Weight		Manual Approx. ± Max 40 degrees (Standard Lens)*4 Manual Approx. ± Max 30 degrees (Standard Lens)*4		
			5°C to 40°C (Eco Mode selected automatically at 35°C to 40°C), 20% to 80% Humidity (Non-Condensing) -10°C to 50°C, 20% to 80% Humidity (Non-Condensing) 100 to 240V AC, 50Hz/60Hz		
			5.9-2.3A 490W 410W 25W		
			UL Approved (UL 60950-1), NIOS-001-SC91993, Meets FCC Class B Requirements CE Approved (CEA 60950-1), Meets IEC Canada Class B Requirements IEC60950-1, Meets AS/NZS CISPR 22 Class B Meets EMC Directive (EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3), Meets Low Voltage Directive (EN60950-1, IEC 60950-1) EHSafety : 60950-1, EMC : K00022, K00024, K61000-3-2, K61000-3-3 684143, 689254, 6817425.1		
			399mm x 150.5mm x 166.3mm (Not including Protrusions) 7.3kg		

\*1 : LCD Panel technology consists of fine picture cells with more than 99.99% of the cells being active.

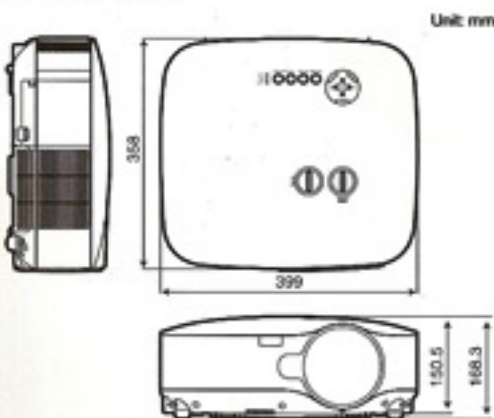
\*2 : The Lens Shift function is not available for the NP01FL.

\*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.

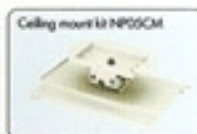
\*4 : When the lens shift is set to the center. When the lens shift is used and yet the image is not displayed in the center of the screen, the adjustable range will be increased or decreased. Image is projected in Wide (Zoom level).

All specifications are subject to change without notice.

## Dimensions



## Options



## Remote Control



## Terminals



WLPJ-0803-061PR