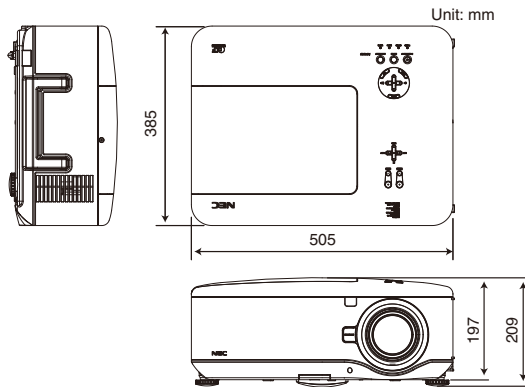


Specifications

		NP4100	NP4100W
DLP chip		0.7 inch Single DLP chip (Aspect Ratio 4:3)	0.65 inch Single DLP chip (Aspect Ratio 16:10)
Resolution*1		1024 x 768 pixels	1280 x 800 pixels
Lens*2	Powered Zoom/ Focus	Power focus, throw ratio 0.77:1, F2.0, f=11.4mm	
		Power zoom and focus, throw ratio 1.33~1.79:1, F1.8~2.3, f=19.3~25.8mm	
		Power zoom and focus, throw ratio 1.78~2.35:1, F1.7~1.9, f=26~34mm	
		Power zoom and focus, throw ratio 2.22~4.43:1, F2.1~2.9, f=32~63mm	
Light Output**4**5	Normal Mode (with 4-segment colour wheel**6, NPO8ZL) Eco Mode	6200 ANSI lumens (Dual Lamp) 3100 ANSI lumens (Single Lamp)	5500 ANSI lumens (Dual Lamp) 2700 ANSI lumens (Single Lamp)
		Approx. 80% of Normal	
Contrast Ratio (White/Black)		1000 : 1 / 2100 : 1 with DynamicBlack**7	
Quietness		38dB (Dual Lamp) / 34dB (Single Lamp)	
Lamp (Eco Mode)		34dB (Dual Lamp) / 31dB (Single Lamp)	
Lamp Life**8 (Eco Mode)		2800h (230W) AC 2000h (300W)	
Image Size (Diagonal)		50 to 200 inch (1.27 to 5.08m)	
Projection Distance		40 to 500 inch (1.02 to 12.7m)	
Projection Angle		0.78m to 3.24m	
Colour Reproduction		1.06m (NPO7ZL / Wide) to 86.36m (NP10ZL / Tele) 8.9 degree to 12.1 degree with NPO8ZL	
Maximum Resolution		Full Colour, 16.7 Million Colours Simultaneously	
Keystone Correction		UXGA(1600 x 1200) @60Hz	
Synchronization Range		SXGA+(1400 x 1050) @60Hz Manual Approx. ±Max 35 degrees (Less than XGA resolution, aspect 4:3) Manual Approx. ±Max40 degrees (Less than XGA resolution, aspect 4:3)	
Input Terminals		3 Computer Input	
		Compatible signals**9 RGB (Analog)**9 H/V Sync**9 Composite Sync**9 Sync on G**9	
		VGA, SVGA, XGA, WXGA, WXGA+, SXGA, SXGA+, UXGA	
		0.7Vp-p / 75Ω	
		TTL Level	
		TTL Level	
		1.0Vp-p / 75Ω (with Sync) Negative Polarity	
		Stereo L/R 0.5Vrms/22kΩ or over	
		1 DVI-D (Computer 3 IN) Stereo L/R	
		T.M.D.S. Specification, with H.D.C.P.**10, Max Resolution : SXGA+/60Hz	
3 Component Input		Stereo L/R 0.5Vrms / 22kΩ or over	
		Y 1.0Vp-p / 75Ω (with Sync)	
		Cb/Cr (Pb/Pt) 0.7Vp-p / 75Ω	
		Compatible signals 480i, 480p, 720p, 1080i, 1080p @60Hz / 576i, 576p, 720p, 1080i, 1080p @50Hz DVD Progressive Signals (50/60Hz)	
1 Video Input		Stereo L (MONO)/R 0.5Vrms (Typical) / 47kΩ	
		Some with Computer NTSC/NTSC4.43/PAL/PAL-N/PAL-M/PAL-60/SECAM 1.0Vp-p/75Ω	
1 S-Video Input		Y 0.714Vp-p/75Ω	
		C 0.286Vp-p/75Ω	
Audio Input is Sharing with Video		Same with Video	
Output Terminals		1 RGB Output 1 D-Sub Mini 15pin	
		Selected Computer1, Computer2 or Component Signal Input	
1 Audio Output		Stereo L/R	
1 Screen Trigger		Variable Output Level	
LAN Port		Selected Audio Signal input from Computer1, Computer2, Computer3 (DVI-D), Component, Video or S-Video	
USB Port		12V DC 200mA	
REMOTE 1		100BASE-TX/10BASE-T	
REMOTE 2		for Service	
PC Control		for External Control Device	
Built-In Speaker		Wired Remote Control	
Environment		RS-232C	
Power Requirement		3W+3W Stereo	
Input Current		5°C to 40°C, 20 to 80% Humidity (Non-Condensing) -10°C to 50°C, 20 to 80% Humidity (Non-Condensing)	
Power Consumption		100 to 240V AC, 50Hz/60Hz 7.5A (Dual Lamp Normal Mode, 100V) 710W (Dual Lamp) / 375W (Single Lamp) (100V) 580W (Dual Lamp) / 315W (Single Lamp) (100V) 30W (Normal Mode) / 1W (Power Saving)	
Regulations		Safety	
		Oceania IEC60950-1	
		Asia IEC60950-1	
		Korea EK (K60950-1)	
		China GB4943, GB9254, GB17625.1	
EMC		Oceania AS/NZS CISPR 22 Class B	
		Asia CISPR 22 Class B	
		Korea EK (K00022 Class B, K00024, K61000-3-2, K61000-3-3)	
		China GB9254, GB17625.1	
Dimensions (W x H x D)		505mm x 197mm x 385mm (Not Including Protrusions)	
Net Weight		17.5kg (Not Including Lens)	

\*1 : Effective pixels are more than 99.99%. \*2 : Lenses are not attached to the NP4100 and NP4100W. \*3 : The Lens Shift function is not available for the NPO6FL. When the Lens Shift is set as 0%[H] / Vertical Offset=50%, Throw Ratio=1.78 \*4 : This is the light output value (lumens) when the [Prefer] mode is set to [High-Bright]. If any other mode is selected as the [Prefer] mode, the light output value may drop slightly. \*5 : The brightness when using the 6-segment colour wheel is about 71% of the brightness when using the 4-segment colour wheel. \*6 : 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. \*7 : DynamicBlack™ technology works only in 2-Lamp Mode. \*8 : 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. \*9 : Under some conditions of input signals, the auto adjustment of video images may not be available, and manual adjustment may be required. In the case of composite sync signals or sync on G signals, it may not display properly. \*10 : HDCP is an acronym for High-bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI). If you are unable to view material via the DVI input, this does not necessarily mean the projector is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).

Dimensions



Remote Control



Options



WDPJ-0902-151RR

for more information  
[www.nec-display.com/ap/](http://www.nec-display.com/ap/)

DLP and the DLP logo are registered trademark or trademark of Texas Instruments. DynamicBlack is trademark of Texas Instruments. All other trademarks are the property of their respective owners. The images in this brochure are samples. This brochure uses recycled paper.

Empowered by Innovation



Empowered by Innovation



Installation Projector

NP4100

XGA (1024 x 768)

NP4100W

WXGA (1280 x 800)



Multifunctional capability supports various kinds of large venues



High brightness with dual lamp system  
NP4100 achieves **6200 ANSI lumens**  
NP4100W achieves **5500 ANSI lumens**

Extended lamp life  
Lamp ECO mode serves **3000 hours**

Ecologic adaptation  
Power consumption in Standby Mode is **1W**



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



**Dual lamp system in the high brightness projector demonstrates high reliability and superior installation flexibility.**

# NP4100

6200 ANSI Lumens Real XGA 17.5kg (Not Including Lens)

# NP4100W

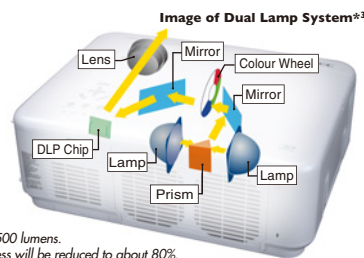
5500 ANSI Lumens Real WXGA 17.5kg (Not Including Lens)

- Automatic signal selection
- Powered Lens Shift
- Dual lamp system
- Keystone Correction in four directions
- Security lock
- Carrying handle
- Supports DVI input
- 3W+3W Speakers

## High reliability from advanced technologies

**Dual lamp system provides high brightness of 6200 ANSI lumens. Continuous use is also possible when using a single lamp mode.**

By employing a dual lamp system, high brightness of 6200 ANSI lumens has been achieved<sup>\*1</sup>. This is sufficient when high brightness is required in large venues. Furthermore, in the Single lamp mode, since the projector can be operated continuously by using the automatic lamp switching function, it is suitable for monitoring purposes. Lamp Eco mode is available in both the dual lamp and single lamp modes for extending the service life of the lamp<sup>\*2</sup>. The lamp service life has been extended to 3000 hours from 2500 hours in the NP4000/NP4001, so that it is possible to continuously operate the projector for more hours.



<sup>\*1</sup>: For the NP4100. The brightness of the NP4100W is 5500 lumens.  
<sup>\*2</sup>: When the lamp mode is set to ECO mode, the brightness will be reduced to about 80%.  
<sup>\*3</sup>: The illustration is an image of the dual lamp system, which may differ from the actual product.

**Ecological operation with power consumption of 1 W in standby mode**

If the standby mode is set to Power Saving while the projector is in the standby state, the power consumption in standby mode becomes 1 W (5 W in the NP4000/NP4001). Since the projector can stay in the standby state with little power consumption, it is still possible to ecologically operate the projector when mounted on the ceiling even if it is difficult to turn off the main power.

<sup>\*</sup> The projector in power saving mode can be started with the power button on the projector, the wireless remote controller, or GPIO (an external controller) only.

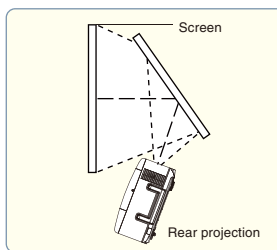
**WXGA chip for wide-format images (NP4100W)**

Since the NP4100W has a WXGA (1280 X 800) panel with an aspect ratio of 16:10, it is capable of handling WXGA resolution and wide video images such as DVDs.

<sup>\*</sup> The existing NP4001 has a WXGA (1280 X 768) panel with an aspect ratio of 15:9.

**Tilt Free expansion possibility for installation environments**

Tilt Free makes it possible to install the projector inclined up to 90 degrees in the vertical direction. With this function it is possible to install the projector with an acute angle or mirror reflection for use in a broader range of installation environments such as a display in a commercial facility or special event.



**Supporting the optional remote controller NP02RC to which the control ID can be registered**

When multiple projectors are used simultaneously, the same quantity of remote controllers may be required. On the other hand, NP02RC can manipulate multiple NP4100/NP4100W projectors independently by setting separate ID numbers. It is also possible to control the multiple projectors collectively by setting the same ID number.



**The power can be controlled intensively with Auto Start and Direct Power Off**

The NP4100/NP4100W start projecting images automatically when AC power is supplied and you can turn off the power source with a switch or a circuit breaker while projecting images or running the fan. With these functions, it is possible to completely control the power supply to the projector with the power distribution board.

**A contrast ratio of 2100:1 is achieved using DynamicBlack™ and the DLP technology**

With the introduction of DynamicBlack™ the projector delivers high contrast ratio of 2100:1 for superior image display capability, particularly to express the vivid details in dark images.

<sup>\*</sup> DynamicBlack™ works only in Dual Lamp Mode.



**Two types of Replaceable Colour Wheel and BrilliantColor project vivid images**

The NP4100/NP4100W have a six-segment colour wheel, in addition to the standard four-segment colour wheel - and the colour wheels can be changed by the customer. The BrilliantColor results in superior reproducibility of neutral tints for vivid images of natural scenery.

<sup>\*</sup> The brightness when using the six-segment colour wheel is about 71% of the brightness when using the four-segment colour wheel.

Colour wheel illustration



Four - segment Colour Wheel (red, green, blue, and white)



Six - segment Colour Wheel (red, green, blue, cyan, magenta, and yellow)

<sup>\*</sup> The above colour wheel illustration is for display purposes only and differs from the actual product.

**High connectivity supporting several different image sources**

Units are equipped with DVI-D, component, and RGB input/output terminals. Integrated 3W+3W stereo speakers make it possible to output sound together with images.



## Superior installability compatible with a variety of large spaces

**Five types of lenses selectable for the installation environment**

Five different lenses are available to support a variety of uses. The projector supports screens from 40 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 1.6 m (short fixed focus lens) or between 2.7 m to 17.1 m for the NP4100, while projection is possible at a distance 1.7 m (short fixed focus lens) or between 2.9 m to 18.4 m for the NP4100W. Lenses are easily replaced by the customer and do not require special tools.

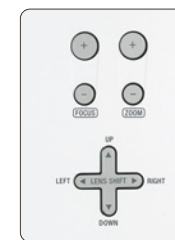
<sup>\*</sup> Note: Lenses are not attached to the NP4100/NP4100W.

Model	NP06FL	NP07ZL	NP08ZL	NP09ZL	NP10ZL	
Lens type	Short Focus Fixed Lens	Zoom Lens	Zoom Lens	Zoom Lens	Zoom Lens	
Option Lens						
Zoom/Focus	Power (Focus Only)	Power	Power	Power	Power	
Zoom Ratio	1.00	1.34	1.32	2.00	1.87	
Throw Ratio <sup>*1</sup>	0.77 : 1	1.33 - 1.79 : 1	1.78 - 2.35 : 1	2.22 - 4.43 : 1	4.43 - 8.3 : 1	
Screen Size	50 - 200	40 - 500	40 - 500	40 - 500	40 - 500	
Brightness <sup>*</sup> (lumens)	NP4100 2Lamp Mode	5000	5500	6200	5500	4300
	NP4100W 2Lamp Mode	2500	2700	3100	2700	2100
Lens Shift	NP400W 2Lamp Mode	4500	4900	5500	4900	3800
	NP4100W 1Lamp Mode	2200	2400	2700	2400	1900
Weight	Vertical	0	Max +0.5V	Max +0.5V	Max +0.5V	Max +0.5V
	Horizontal	0	Max ±0.1H	Max ±0.1H	Max ±0.1H	Max ±0.1H
Weight	1.0kg	1.1kg	0.8kg	1.1kg	0.9kg	

<sup>\*1</sup>: The throw distance to the screen: The width of the screen  
<sup>\*2</sup>: This is the brightness when the four-segment colour wheel is installed on the projector and the lamp mode is set to Normal mode. In Eco mode, the brightness will be about 80% of normal mode.

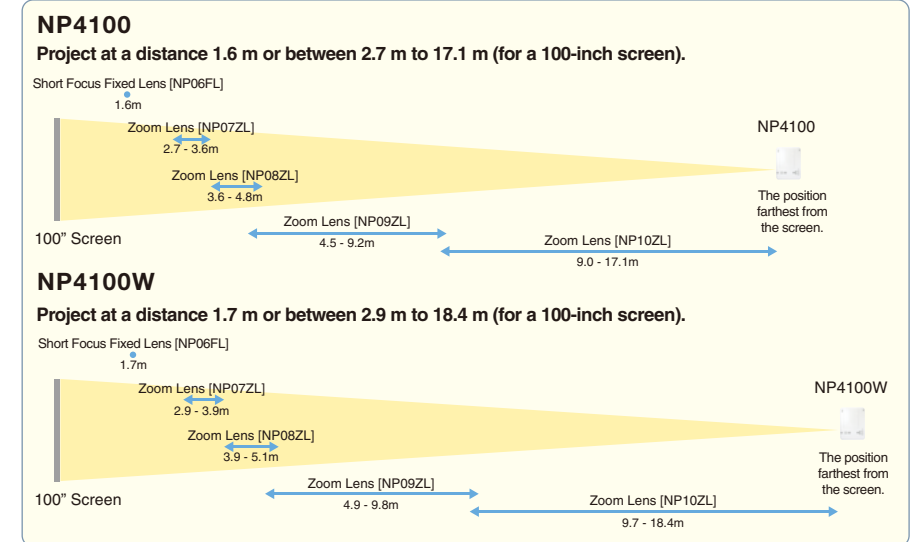
**Powered lens shift mechanism for simple adjustment of projected images on screen and Keystone correction**

With the powered lens shift mechanism, the position of projected images on screen can be adjusted in both the vertical and horizontal directions without moving the projector. Furthermore, Keystone correction corrects distortions in the vertical and horizontal directions up to a maximum +/- 35 degrees in the horizontal direction and a maximum +/- 40 degrees in the vertical direction. Adjustment of lens zoom and focus, as well as Lens shift and Keystone correction, can be operated for the projector installed on the ceiling with the remote control.

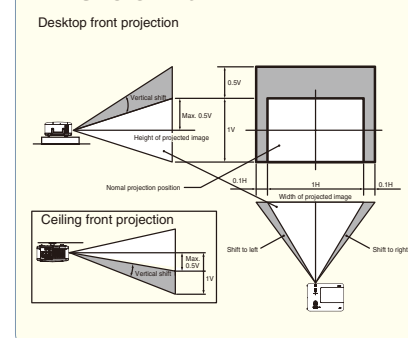


<sup>\*</sup> Shifting the lens to the maximum in two directions combined will cause the edges of the image to become dark or will cause some shadows.  
<sup>\*</sup> The lens shift mechanism does not work when using NP06FL.

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



### ■ Lens Shift



### ■ Throwing Distance NP4100 (Aspect Ratio 4 : 3)

Screen Size (Inch)	Throwing Distance				
	NP06FL	NP07ZL	NP08ZL	NP09ZL	NP10ZL
40 [0.81x0.61m]	—	1.06-1.44	1.42-1.89	1.76-3.61	3.54-6.78
50 [1.02x0.76m]	0.78	1.34-1.82	1.79-2.38	2.23-4.54	4.45-8.51
60 [1.22x0.91m]	0.94	1.61-2.19	2.16-2.87	2.70-5.47	5.37-10.24
80 [1.63x1.22m]	1.27	2.17-2.93	2.90-3.84	3.63-7.34	7.21-13.70
100 [2.03x1.52m]	1.60	2.72-3.68	3.64-4.82	4.56-9.20	9.04-17.16
120 [2.44x1.83m]	1.93	3.27-4.42	4.38-5.80	5.50-11.06	10.88-20.62
150 [3.05x2.29m]	2.42	4.10-5.54	5.49-7.26	6.90-13.85	13.63-25.81
200 [4.06x3.05m]	3.24	5.48-7.40	7.34-9.70	9.23-18.50	18.22-34.46
300 [6.10x4.57m]	—	8.25-11.12	11.05-14.59	13.90-27.80	27.40-51.76
400 [8.13x6.10m]	—	11.02-14.84	14.75-19.47	18.57-37.11	36.57-69.06
500 [10.16x7.62m]	—	13.78-18.56	18.46-24.35	23.24-46.41	45.75-86.36

(Unit : m)

<sup>\*</sup> The values in the tables are design values and may vary.

### ■ Throwing Distance NP4100W (Aspect Ratio 16 : 10)

Screen Size (Inch)	Throwing Distance				
	NP06FL	NP07ZL	NP08ZL	NP09ZL	NP10ZL
40 [0.86x0.54m]	—	1.14-1.55	1.53-2.04	1.90-3.89	3.81-7.28
50 [1.08x0.67m]	0.84	1.44-1.95	1.93-2.56	2.40-4.89	4.79-9.13
60 [1.29x0.81m]	1.02	1.73-2.35	2.32-3.08	2.90-5.89	5.78-10.98
80 [1.72x1.08m]	1.37	2.33-3.15	3.12-4.13	3.91-7.89	7.75-14.69
100 [2.15x1.35m]	1.72	2.92-3.95	3.91-5.18	4.91-9.89	9.73-18.40
120 [2.58x1.62m]	2.07	3.52-4.75	4.71-6.23	5.91-11.89	11.70-22.10
150 [3.23x2.02m]	2.60	4.41-5.95	5.90-7.80	7.42-14.88	14.66-27.66
200 [4.31x2.69m]	3.48	5.89-7.94	7.88-10.43	9.92-19.88	19.59-36.93
300 [6.46x4.04m]	—	8.86-11.94	11.86-15.67	14.94-29.87	29.46-55.46
400 [8.62x5.38m]	—	11.83-15.93	15.83-20.91	19.96-39.87	39.32-73.99
500 [10.77x6.73m]	—	14.81-19.93	19.80-26.16	24.97-49.86	49.19-92.52

(Unit : m)