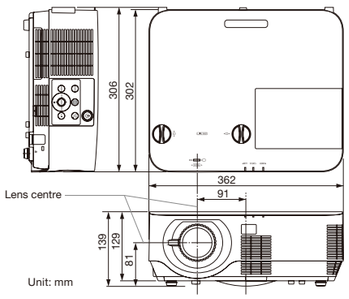
Specifications

Model number		NP-P502H	NP-P502W	NP-P452H	NP-P452W
Method		Reflection by single DMD chip			
Specifications of main parts					
Main panel	Size	0.65" (aspect ratio: 16:9)	0.65" (aspect ratio: 16:10)	0.65" (aspect ratio: 16:9)	0.65" (aspect ratio: 16:10)
	Pixels*1	2,073,600 (1,920 dots × 1,080 lines)	1,024,000 (1,280 dots × 800 lines)	2,073,600 (1,920 dots × 1,080 lines)	1,024,000 (1,280 dots × 800 lines)
Projection lens	Focus	Manual			
	Zoom	Manual (zoom ratio 1.7)			
	Throw ratio	1.24	1.3	1.24	1.3
	F-number	Wide: F= 2.0 / Tele: F= 2.5			
	Focal length	Wide: f= 18.2 mm / Tele: f= 31.1 mm			
	Lens shifting	Manual (H: ±25%, V: +62%, –0%)	Manual (H: ±28%, V: +59%, –0%)	Manual (H: ±25%, V: +62%, –0%)	Manual (H: ±28%, V: +59%, –0%)
Optical unit		C/W type (DLP), colour separation by colour wheel; time-multiplexing colour wheel method with white segment			
Light output *2*3*4	ECO mode off	5,000 lm		4,500 lm	
	Normal ECO mode	Approx. 80%			
	ECO mode	Approx. 60%			
Light source (lamp) life	ECO mode off	3,000 H			
	Normal ECO mode	4,000 H			
	ECO mode	5,000 H			
Contrast ratio (all white / all black)		6,000:1 with lamp control			
Screen size		30 to 300 inches			
Colour reproducibility		10-bit signal processing (approx. 1.07 billion colours)			
Quietness (ECO / Normal ECO / ECO mode off)		31 dB / 36 dB / 39 dB			
Synchronization rate	Horizontal	15 to 100 kHz (24 kHz or greater for RGB inputs)			
	Vertical	50 to 120 Hz			
Max. display resolution (horizontal × vertical)		Analogue: 1,920 × 1,200 (with Advanced AccuBlend) / Digital: 1,920 × 1,080 (P502W / P452W with Advanced AccuBlend)			
Keystone correction	Horizontal	Manual (approx. ±25 degrees)			
	Vertical	Manual (approx. ±30 degrees)			
Input / output terminals					
Computer input		Mini D-Sub 15-pin × 1			
Audio input		Stereo mini jack × 1			
HDMI® input		Type A 19-pin HDMI® connector (HDCP, audio) × 2			
Ethernet / HDBaseT™		RJ45 (Ethernet 100Base-TX / HDBaseT, audio) × 1			
Video input		RCA × 1			
Audio input		RCA × 2 (L / R)			
Computer output		Mini D-Sub 15-pin × 1			
Audio output		Stereo mini jack × 1			
PC control		D-Sub 9-pin × 1			
USB port		Type A for USB memory × 1, Type B for service × 1			
LAN port		RJ-45 (10/100Base-TX) × 1, W-LAN (USB type A) × 1 for wireless LAN unit			
3D SYNC		Synchronized signal output for 3D use × 1			
Remote		Stereo mini jack × 1 for wired remote control			
Built-in speaker		20 W monaural × 1			
Usage environment		Operating temperature: 5 to 40°C*4, operating humidity: 20 to 80% (with no condensation) Storage temperature: –10 to 50°C, storage humidity: 20 to 80% (with no condensation) Operating altitude: 0 to 2,600 m (1700 to 2,600 m: set [FAN MODE] to [HIGH ALTITUDE])			
Power supply		100–240 V AC, 50/60 Hz			
Power consumption	ECO mode off	465 W (100–130 V) / 445 W (200–240 V)		426 W (100–130 V) / 416 W (200–240 V)	
	Normal ECO mode	379 W (100–130 V) / 366 W (200–240 V)		346 W (100–130 V) / 340 W (200–240 V)	
	ECO mode	311 W (100–130 V) / 305 W (200–240 V)		288 W (100–130 V) / 286 W (200–240 V)	
	STANDBY (NORMAL)	Less than 0.33 W			
	STANDBY (NETWORK)	Less than 2.7 W			
Rated input current		5.4–2.2 A		4.9–20 A	
Dimensions (W × H × D)		362 × 129 × 302 mm (net dimensions, not including protruding parts)			
Weight		5.2 kg (net weight)			

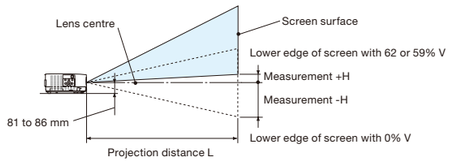
*1: Effective pixels are more than 99.99%.
*2: Light output value when the [PRESET] mode is set to [HIGH-BRIGHT].
*3: Compliant with ISO21118-2012.
*4: When surrounding temperature is 35–40°C, [ECO MODE] becomes [NORMAL] ECO mode from ECO mode [OFF] automatically.

These specifications and the product's design are subject to change without notice.

Cabinet dimensions



Throw distance and screen size



P502H / P452H Full HD (Aspect ratio 16:9)

Screen size	Screen width (cm)	Screen height (cm)	Throw distance L (m) Wide	Throw distance L (m) Tele	Height H (cm) 0% V – 62% V
30"	66.4	37.4	0.79	1.39	–18.7 – 4.3
60"	132.8	74.7	1.62	2.81	–37.4 – 8.7
80"	177.1	99.6	2.17	3.76	–49.8 – 11.6
100"	221.4	124.5	2.72	4.71	–62.3 – 14.5
120"	265.7	149.4	3.28	5.66	–74.7 – 17.4
150"	332.1	186.8	4.11	7.08	–93.4 – 21.7
200"	442.8	249.1	5.49	9.45	–124.5 – 28.9
250"	553.4	311.3	6.87	11.82	–155.7 – 36.2
300"	664.1	373.6	8.25	14.19	–186.8 – 43.4

P502W / P452W WXGA (Aspect ratio 16:10)

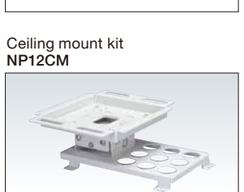
Screen size	Screen width (cm)	Screen height (cm)	Throw distance L (m) Wide	Throw distance L (m) Tele	Height H (cm) 0% V – 59% V
30"	64.6	40.4	0.81	1.42	–20.2 – 3.4
60"	129.2	80.8	1.66	2.87	–40.4 – 6.9
80"	172.3	107.7	2.22	3.84	–53.8 – 9.2
100"	215.4	134.6	2.78	4.81	–67.3 – 11.5
120"	258.5	161.5	3.35	5.78	–80.8 – 13.8
150"	323.1	201.9	4.19	7.23	–101.0 – 17.2
200"	430.8	269.2	5.60	9.65	–134.6 – 23.0
250"	538.5	336.5	7.01	12.08	–168.3 – 28.7
300"	646.2	403.9	8.43	14.50	–201.9 – 34.5

*Stated projection distances are standard values.
*The values in the tables are design values and may vary.

- Do not stare into the lens while in use.
- The projector can be unplugged during its cool down period after it is turned off. Parts of the projector will become heated during operation. Use caution when picking up the projector immediately after it has been operating.
- Use caution when putting the projector in the soft case immediately after the projector has been operating.The projector cabinet is hot.

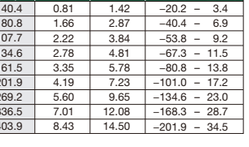
Remote control

(included accessory)



Options

Replacement lamp
NP39LP (P502H / P502W)
NP38LP (P452H / P452W)



Wireless LAN unit
NP05LM1-5*
*The last digit may vary depending on the country of destination.

Cable cover
NP09CV

Ceiling mount kit
NP12CM

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NEC Display Solutions, Ltd.

http://www.nec-display.com/ap/

Cat. No. WDPJ-1511-0011N

Multipurpose projector

\Orchestrating a brighter world NEC

The powerful compact multimedia semi-installation projector

P502H / P502W / P452H / P452W

Perfect for mid to large meeting rooms as well as classrooms in higher education settings where semi-professional high brightness performance is required.

Impressive Image Quality for Various Applications

The latest Texas Instruments DLP™ engine featuring BrilliantColor™ technology offers great 6,000:1 contrast for high brightness images up to 5,000 lumens at Full-HD and WXGA native resolutions.

Selective Four Lamp Modes for Suitable Usage

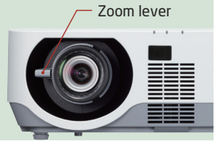
The ECO MODE (NORMAL and ECO) increases lamp life up to 5,000 hours, lowering power consumption and cutting down on CO_2 emissions. Four brightness modes of the lamp can be selected: [OFF], [AUTO ECO], [NORMAL] and [ECO] modes.

[ECO MODE]	Description
[OFF]	The lamp brightness is 100%.
[AUTO ECO]	Lamp power consumption will be controlled between [OFF] and [ECO] automatically according to picture level.
[NORMAL]	Lamp power consumption. (approx. 80% brightness) The lamp life will extend by lowering the lamp power.
[ECO]	Lamp power consumption (approx. 60% brightness). The lamp life will extend longer than the one on NORMAL mode by controling power appropriate for the lamp.

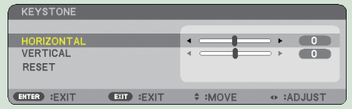
Wide 1.7 × Optical Zoom and H/V Lens Shift for Easily Adjusting the Position of the Projected Image

The wide 1.7 × optical zoom, horizontal / vertical lens shift and keystone correction allow flexible setting in various locations.

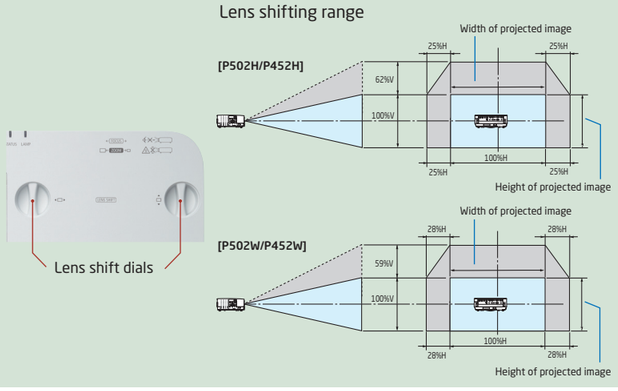
Wide optical zoom lens



Keystone correction



Horizontal / vertical lens shift



Compatible with Diverse Signal Sources

Built-in HDBaseT Support

Simplify your installations with HDBaseT, which is optimized for video applications and supports uncompressed Full HD digital video, audio, Ethernet, and various control signals. With only a single cable (up to 100 m) to run, infrastructure and labour costs are reduced, installations are significantly easier, and there is no cable clutter to manage. With uncompressed HD video support, images have never been more stunning. What is more, control signals are contained in the same cable.

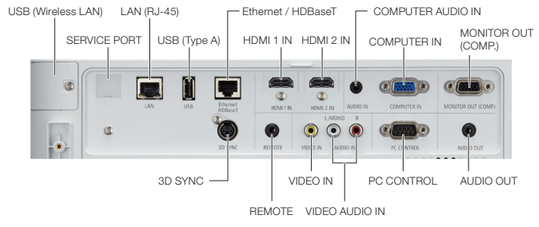
USB Viewer

This series projector can deliver a solution when you would prefer to leave your laptop computer behind for a presentation. Simply place your file onto a USB drive and plug it into the projector's USB port. This allows you to display images stored as JPEGs from a USB storage.

Dual HDMI Inputs

Among the P502H series wide selection of inputs is HDMI with HDCP for connecting to high-definition sources such as Blu-ray players, cable boxes, satellite receivers and personal computers.

Terminals

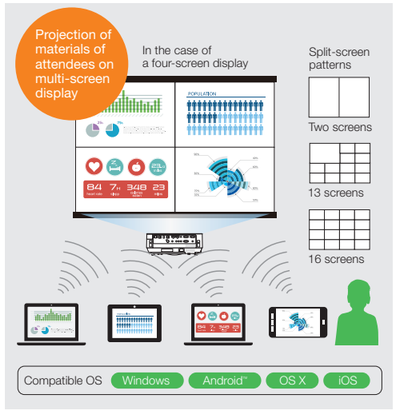


Advanced Networking Capabilities

Multi-screen Projection Function*1

The multi-screen projection function allows for the sharing of screens of multiple devices on various split-screen displays. Display information from up to 50*2 PCs, tablet PCs, smart phones, and other network connected devices on a multi-screen display of up to 16 screens. Easily share screens and information regardless of device or operating system.

*1: Requires the optional wireless LAN module for wireless connection. PCs require the installation of the Image Express Utility Lite software on the included CD-ROM. Smart phones and tablets require the download and installation of our Wireless Image Utility software.
*2: The connection of 50 devices is limited to when the projector is configured to "Managed Mode". The connection of 50 devices to the network requires construction of a wireless LAN environment, such as the use of a separate access point.



Web Sharing Function

Without the need for exclusive software, it enables you to share images and files between the projector and computers in the same network by accessing the web server of the projector utilizing the web browser.

NaViSet Administrator 2

This software is an all-in-one remote support solution that runs from a central location and provides monitoring, asset management and control functionality for a majority of NEC display devices and Windows computers. It is ideal for multi-device installations over larger infrastructures.

NaViSet Administrator 2

Virtual Remote Tool

The utility software Virtual Remote Tool included on the supplied NEC Projector CD-ROM can display the Virtual Remote (or toolbar) on your computer screen. This allows you to turn the projector power on or off and select signals from a computer display cable (VGA), serial cable, or LAN connection.

Virtual Remote

Other Networking Capabilities

- Simple Access Point
- PC Control Utility 4.0 for Windows
- PC Control Utility 5.0 for Mac
- Miracast™
- CRESTRON ROOMVIEW™ with emergency function
- AMX BEACON
- HTTP server
- PJLink

Other Useful Features and Functions

- Powerful 20-watt speaker provides the volume levels needed for large rooms
- Auto power-on via the HDMI 1, HDMI 2 and COMPUTER input terminals when a signal is detected from a computer
- Sleep timer can be set to automatically turn off the projector at set countdown times
- Power management automatically turns off the projector when an incoming signal is not detected from any of the inputs
- No-signal guidance for easy cable connections
- Intuitive plug and play setup and operation
- PC-based geometric correction and 3D Reform™ function
- SmartSource™ 3D Ready
- Includes a remote with the control ID registration function, which allows operation of multiple projectors with a single remote
- Wall colour correction for vivid images even without a screen
- DICOM simulation
- Security bar / Kensington lock / Control panel lock and password lock
- Low power consumption (0.33 W in 240 V AC standby mode) minimizes energy costs
- The carbon metre lets you check the amount of CO_2 you reduced by using ECO Mode

P502H — 5,000 ANSI lumens | Full HD | 5.2 kg

P502W — 5,000 ANSI lumens | WXGA | 5.2 kg

P452H — 4,500 ANSI lumens | Full HD | 5.2 kg

P452W — 4,500 ANSI lumens | WXGA | 5.2 kg