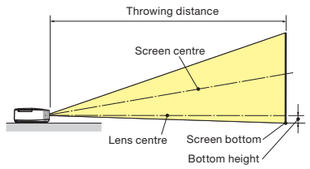
Specification

			M420X	M420XV
LCD Panel			0.63 inch LCD with Micro Lens Array (Aspect Ratio 4:3) Dichroic mirror separation-prism convergence system	
Resolution*1			1024 x 768 pixels	
Lens			Manual Zoom / Manual Focus, Zoom ratio 1 to 1.7, Throw ratio 1.3 to 2.2, F1.7-2.1, f=17.5-29.0mm	
Lamp			265W AC(195W in ECO1)	
Lamp Life*2 (Eco Mode On / Eco Mode Off)			3500H / 3000H	
Image Size (Projection Distance)			25 to 300 inch (0.64m to 13.77m)	
Colour Reproduction			10-bit signal processing (1.07 billion colours) (VIEWER, NETWORK : 16.7 million colours)	
Light Output*3 *4		Eco Mode Off	4200 ANSI lumens	
		Eco Mode On	Approx.75% of Eco Mode Off	
Contrast Ratio (White / Black)*4			2000:1	
Maximum Resolution		Analog	UXGA (1600 x 1200) with Advanced AccuBlend	
		Digital	HDTV (1920 x 1080) with Advanced AccuBlend	
Scan Rate		Horizontal	15kHz to 100kHz (RGB : 24kHz or over)	
		Vertical	50Hz to 120Hz (HDMI : 50Hz to 85Hz)	
Keystone Correction		Vertical	Auto / Manual Approx.±Max 30 degrees	
Input Terminals	2 Computer Input	2 D-Sub Mini 15pin	VGA, SVGA, XGA, XGA+, WXGA, WXGA+, SXGA, SXGA+, UXGA RGB : 0.7Vp-p/75Ω H/V Sync : 4.0Vp-p/TTL Level	
		2 Stereo Mini Jack	Stereo L/R 0.5Vrms/22kΩ or over	-
	2 Component Input	2 D-Sub Mini 15pin (Shared with Computer IN)	Y : 1.0Vp-p/75Ω(with Sync) Cb, Cr (Pb, Pr) : 0.7Vp-p/75Ω Compatible signals : 480i, 480p, 720p, 1080i, 1080p /60Hz, 576i, 576p, 720p, 1080i/50Hz DVD Progressive (50/60Hz)	
		Audio Input is Shared with Computer IN	Same as Computer IN	-
	1 HDMI Input	1 HDMI Type A	VGA, SVGA, XGA, WXGA, SXGA / 480p, 576p, 720p, 1080i, 1080p DeepColor, LipSync, T.M.D.S. Specification, with H.D.C.P.	
		HDMI support audio	Audio format : LPCM Number of channel : 2ch Sampling Frequency : 32/44.1/48kHz Sampling bit : 16/20/24-bit	
	1 S-Video Input	1 Mini DIN-4pin	Y : 1.0Vp-p/75Ω C : 0.286Vp-p/75Ω	
	1 Video Input	1 RCA pin x 2	Stereo L (MONO)/R : 0.5Vrms/22kΩ or over	-
		1 RCA pin	Compatible signals : NTSC/NTSC4.43/PAL/PAL-N/PAL-M/PAL-60/SECAM Compatible Video : 1.0Vp-p/75Ω	
		Audio Input is Shared with S-Video	Same as S-Video	-
Output Terminals	1 RGB Output	1 D-Sub Mini 15pin	Only Computer 1 input can be output	
	1 Audio Output	1 Stereo Mini Jack	Stereo L/R 0.5Vrms/22kΩ or over, Selected Audio Signal input can be output	-
USB Port		1 Type A	USB2.0 (for USB memory)	
		1 Type B	USB2.0 (for PC)	
Wired LAN Port		1 RJ-45	10BASE-T / 100BASE-TX	
Wireless LAN (USB Port)		1 Type A	IEEE 802.11 b/g/n (Optional USB Wireless LAN Unit required)	
Control Terminal	PC Control	1 D-sub 9Pin	RS-232C	
Built-In Speaker			10W Monaural	-
Quietness (Eco Mode On / Eco Mode Off)			30dB / 36dB	
Environment	Operational Temperatures		5°C to 40°C ([ECO MODE] selected automatically at 35°C to 40°C), 20% to 80% Humidity (Non-Condensing)	
	Storage Temperatures		-10°C to 50°C, 20% to 80% Humidity (Non-Condensing)	
Power Requirement			100 to 240V AC, 50Hz/60Hz	
Input Current			3.9A - 1.7A	
Power Consumption	Eco Mode Off	100 - 130V	358W	
		200 - 240V	343W	
	Eco1 Mode	100 - 130V	271W	
		200 - 240V	264W	
	Standby Mode	100 - 130V / 200 -240V	8W	
	Power-saving Mode	100 - 130V	0.2W	
		200 - 240V	0.4W	
Calorific Value		100 - 130V	1222BTU (Max)	
		200 - 240V	1170BTU (Max)	
Dimensions (W x H x D)			398mm x 115mm x 282mm (Not Including Protrusions)	
Weight			3.6kg	3.5kg
Accessories			Remote control, Batteries(AAA x 2), Computer cable, Power code, User's manual(CD-ROM), Quick setup guide, Important information	
Regulations		For United States	UL Approved (UL 60950-1), Meets FCC Class B Requirements	
		For Canada	C-UL Approved (CSA 60950-1), Meets DOC Canada Class B Requirements	
		For Asia/Oceania	IEC60950-1, Meets AS/NZS CISPR.22 Class B	
		For Korea	KC (safety : K60950-1, EMC : K00022, K00024, K61000-3-2)	
		For China	GB4943, GB9254, GB17625.1	
		For Russia	Gost R 60950-1, 51318.22, 51317.3.2./3.3.	

*1 : Effective pixels are more than 99.99%.
*2 : Lamp life is defined as the average time span for the brightness of the lamp to be reduced by half, it dose not refer to the warranty period for the lamp.
*3 : This is the light output value (ANSI lumens) when the [PRESET] mode is set to [HIGH-BRIGHT].
If any other mode is selected as the [PRESET] mode, the light output value may drop slightly.
*4 : Compliance with ISO21118-2005

All specifications are subject to change without notice.

Throw Distance and Screen Size

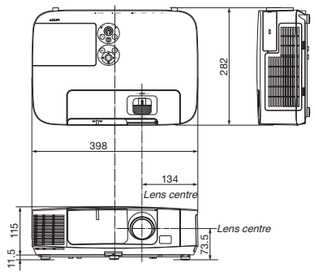


M420X/M420XV (Aspect ratio 4:3)

Screen size (inch)	Throwing distance(m)		Bottom height (cm)
	Wide	Tele	
25 (0.51x0.38)	0.64	1.09	6.0
30 (0.61x0.46)	0.78	1.32	7.1
40 (0.81x0.61)	1.05	1.79	9.5
60 (1.22x0.91)	1.61	2.71	14.3
80 (1.63x1.22)	2.17	3.63	19.1
100 (2.03x1.52)	2.72	4.55	23.8
120 (2.44x1.83)	3.28	5.47	28.6
150 (3.05x2.29)	4.11	6.86	35.7
180 (3.66x2.74)	4.95	8.24	42.9
200 (4.06x3.05)	5.50	9.16	47.6
240 (4.88x3.66)	6.61	11.01	57.2
300 (6.10x4.57)	8.28	13.77	71.4

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

Cabinet Dimensions



Remote Control (included accessory)



Options



Replacement lamp
NP17LP



Ceiling mount kit
NP12CM



Wireless LAN unit
NP02LM1
NP02LM2
NP02LM3



Cable cover
NP01CV

⚠ · 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.

•Virtual Remote Tool uses WinI2C/DDC library, ©Nicomsoft Ltd.
•HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
•Wi-Fi® is registered trademark of the Wi-Fi Alliance.
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This brochure uses recycled paper.

Cat.No. WLPJ-1102-331NN

Empowered by Innovation NEC

High-brightness projector

M420X/M420XV



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

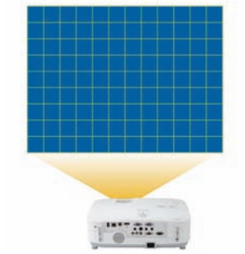
From classrooms to boardrooms, these high-bright, multi-function projectors adapt seamlessly to a wide range of spaces.



Features designed to make installation and maintenance easy

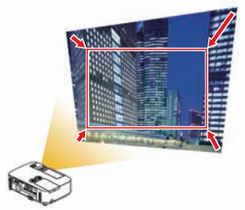
A convenient test pattern for picture adjustment

You can check the screen projection condition while setting up the projector by using a test pattern (grid). The projector can be checked independently without having to connect image devices and output test images.



A geometric correction function to enable projection to a screen on an angle

The Geometric Correction Tool (GCT) of included Image Express Utility Lite software enables the projection of images from a computer to screen on an angle and to screens with complex shapes.



An optional cable cover is available

The optional cable cover (NP01CV) can hide cables even in situations where cables standout, such as with ceiling mountings.



With the cable cover attached to the projector

Equipped with a large, maintenance-free filter

The large filter has the two-layer construction. It provides excellent dust protection and eliminates the need for regular cleaning. Just replace the filter when you change the lamp.



The 1.7x zoom provides excellent flexibility for installation locations

The projector supports a 1.7x zoom to cover a wide throw distance.

Advanced functionality designed for ease of operation

A USB display function for simple connection with a single USB cable

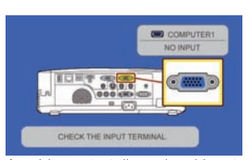
The USB display function lets you connect the projector and a computer with a standard USB cable to easily project computer screen images without computer cables.



Connect a USB cable to a USB port

“No-signal guidance” for easy cable connections

When there is no signal being input, the “No-signal guidance” display appears on the screen. Since you know in a glance where the cable should be inserted, your setup runs smoothly.



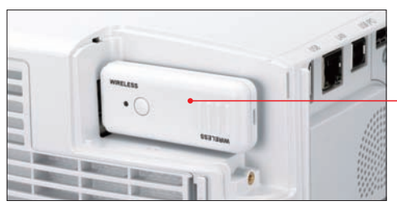
A guidance to tell no signal input

Supports Virtual Remote Tool for operation of projectors from a computer

*Use the included Virtual Remote Tool software.

- **Images can be sent over a LAN using the wired/wireless LAN option***

*Use the included Image Express Utility Lite software



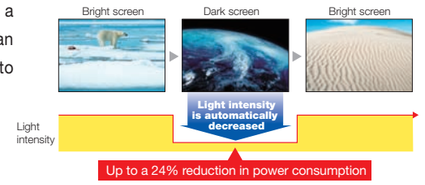
**Model name of the optional wireless LAN unit varies depending on the country where the unit is used (or to be used).
NP02LM1 : United States, Canada, Mexico, Taiwan, Brazil, Colombia
NP02LM2 : Europe, United Arab Emirates, Saudi Arabia, Oman, South Africa, Turkey, Ukraine, Egypt, Israel, Australia, New Zealand, Japan, Thailand, China, Hong Kong, Singapore, South Korea, Malaysia, Sri Lanka, Pakistan, Vietnam, India, Indonesia, Philippines, Peru, Chile, Argentina, Ecuador
NP02LM3 : Russia

- **Auto Vertical Keystone Correction**
- **Wall Colour Correction for vivid images even without a screen**
- **Front ventilation for effective heat dissipation**

Added functions for the economical use of energy and the reduction of total cost of ownership

Equipped with an automatic Eco Mode to automatically control picture brightness

Eco Mode reduces light intensity automatically and imperceptibly when switching from white screens like charts or bright images to a dark screen or image. This function can reduce the power consumption by up to 24%. Both the projector and its remote are equipped with an Eco button for easy setting of Eco Mode.



Lengthen lamp lifetime

Using Eco Mode can increase the lamp lifetime to 3500 hours*. Furthermore, the low-energy design keeps power consumption to 0.2 W during standby (low energy consumption), which helps reduce total cost of ownership. *This is not a guaranteed value.

The Carbon Meter lets you visually check the amount CO_2 you reduced

Equipped with an abundance of handy functionality

High brightness up to 4200 ANSI lumens

Built-in monaural speaker with a powerful 10 W output

*Not available on M420XV

Computer-free presentations

The projector allows you to project images without a computer. Simply insert a USB memory device loaded with image data directly into the projector.

*Supported graphic format is JPEG.

Basic DICOM mode allows simple display of medical images

The projector is preset with gradation characteristics for medical images (similar to DICOM standards). You can display medical images stored as DICOM files for presentations at academic conferences, etc.



*Cannot be used for the display of images for medical diagnosis.

The Quick start function starts projection a mere 3 seconds after the power is switched on

Quick Cooling and Direct Power Off allow speedy clean-up and transfer after use

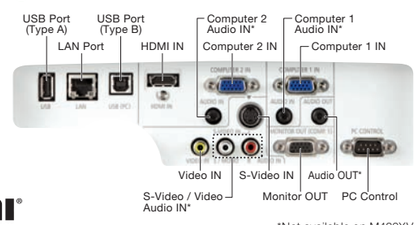
Designed for a low noise level of 30dB (in Eco Mode) that doesn’t disturb conferences or lessons

The RPM of the fan has been reduced and operation noises have been suppressed for a substantial reduction in noise.

The security function uses password settings and key locks to prevent unauthorized use



- **Terminals**



*Not available on M420XV

M420X		
4200 ANSI lumens	XGA	3.6 kg

M420XV		
4200 ANSI lumens	XGA	3.5 kg