Specification

		P420X	P350X	P350W
LCD Panel		0.63 inch LCD with Micro Lens Array (Aspect Ratio 4:3) Dichroic mirror separation-prism convergence system		0.59 inch LCD with Micro Lens Array (Aspect Ratio 16:10) Dichroic mirror separation-prism convergence system
Resolution*1		1024 x 768 pixels		1280 x 800 pixels
Lens		Manual Zoom / Manual Focus, Zoom ratio 1 to 1.7, Throw ratio 1.3 to 2.2, F1.7-2.0, f=17.4-29.0mm		
Lens Shift		Vertical : Max +0.5		Vertical : Max +0.6
Lamp		265W AC (195W in ECO1)	230W AC (170W in ECO1)	265W AC (195W in ECO1)
Lamp Life*2 (Eco Mode On / Eco Mode Off)		3500H / 3000H	5000H / 4000H	3500H / 3000H
Image Size (Projection Distance)		25 to 300 inch (0.64m to 13.8m)		25 to 300 inch (0.68m to 14.58m)
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	3500 ANSI lumens	
	Eco Mode On	ECO1 : 75%		
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	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 RCA pin x 2	Stereo L (MONO)/R : 0.5Vrms/22kΩ or over		
	1 Video Input — 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 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	29dB / 35dB	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	3.5A - 1.5A	3.9A - 1.7A
Power Consumption	Eco Mode Off — 100 - 130V	358W	311W	358W
	200 - 240V	343W	302W	343W
	Eco1 Mode — 100 - 130V	271W	239W	271W
	200 - 240V	264W	236W	264W
	Standby Mode — 100 - 130V / 200 -240V	9W		
	Power-saving Mode — 100 - 130V	0.2W		
	200 - 240V	0.4W		
Calorific Value	100 - 130V	1222BTU (Max)	1061BTU (Max)	1222BTU (Max)
	200 - 240V	1170BTU (Max)	1030BTU (Max)	1170BTU (Max)
Dimensions (W x H x D)		398mm x 115mm x 282mm (Not Including Protrusions)		
Weight		3.9kg		
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.

● Remote Control (included accessory)

● Options
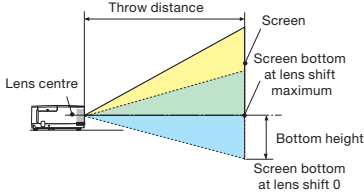Replacement lamp
NP16LP
(P350X)
NP17LP
(P420X/P350W)

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HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

⚠ · 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.

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● Throw Distance and Screen Size

● P420X/P350X

Throw distance — Screen — Screen bottom at lens shift maximum — Bottom height — Screen bottom at lens shift 0 — Lens centre

P420X/P350X（Aspect ratio 4:3）

Screen size (inch)	Throw distance (m) Wide	Tele	Bottom height (cm) At Lens Shift 0	At Lens Shift Maximum
25 (0.5×0.4)	0.64	1.10	-19.1	0
30 (0.6×0.5)	0.78	1.33	-22.9	0
40 (0.8×0.6)	1.06	1.79	-30.5	0
60 (1.2×0.9)	1.62	2.71	-45.7	0
80 (1.6×1.2)	2.17	3.64	-61.0	0
100 (2.0×1.5)	2.73	4.56	-76.2	0
120 (2.4×1.8)	3.29	5.49	-91.4	0
150 (3.0×2.3)	4.12	6.87	-114.3	0
200 (4.1×3.0)	5.51	9.18	-152.4	0
300 (6.1×4.6)	8.30	13.80	-228.6	0

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

● P350W

Throw distance — Screen — Screen bottom at lens shift maximum — Lens centre — Bottom height — Screen bottom at lens shift 0 — Lens centre
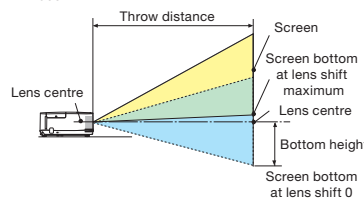
P350W（Aspect ratio 16:10）

Screen size (inch)	Throw distance (m) Wide	Tele	Bottom height (cm) At Lens Shift 0	At Lens Shift Maximum
25 (0.5×0.3)	0.68	1.17	-16.8	+3.4
30 (0.5×0.4)	0.83	1.41	-20.2	+4.0
40 (0.9×0.5)	1.12	1.90	-26.9	+5.4
60 (1.3×0.8)	1.71	2.83	-40.4	+8.1
80 (1.7×1.1)	2.30	3.85	-53.8	+10.8
100 (2.2×1.3)	2.89	4.82	-67.3	+13.5
120 (2.6×1.6)	3.47	5.80	-80.8	+16.2
150 (3.2×2.0)	4.35	7.26	-101.0	+20.2
200 (4.3×2.7)	5.82	9.70	-134.6	+26.9
300 (6.5×4.0)	8.76	14.58	-201.9	+40.4

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

● Cabinet Dimensions (unit: mm)

398 · 282 · 115 · 11.5 · 134 · Lens centre · 71.8→76.5 · Lens centre
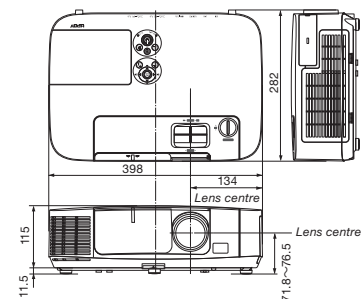
Installation projector

P420X/P350X/P350W

High bright, multi-function projectors, designed for installation in large conference rooms and auditoriums.

Optimal capabilities with the inclusion of lens shift, 1.7x zoom and centre lens with ceiling mount support.

Features designed to make installation and maintenance easy.

Vertical lens shift mechanism to adjust the screen position

The projector is equipped with a lens shift function that can easily move the position of the projected image up or down by rotating a dial left or right, which means that the projector does not have to be moved. The focus can also be easily adjusted using a focus lever. The keystone correction function also makes it possible to move the range up or down ±30°.
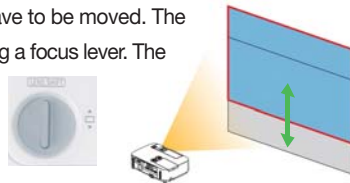
The 1.7x zoom provides excellent flexibility for installation locations

The projector supports a 1.7x zoom to cover a wide throw distance. When combined with the lens shift mechanism, this makes ceiling mountings much easier.

Ceiling mounting kit for centre lenses (option)

When the projector is hung from the ceiling using the ceiling mounting kit (NP12CM), the lens centre of the projector is positioned at the centre of the mounting kit. This design makes it easy to determine the position of the projector.

Lens centre
Lens centre
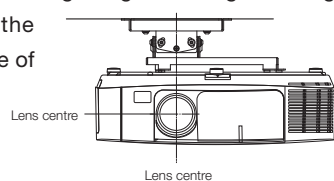
A convenient test pattern for picture adjustment

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.
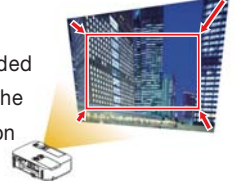
An optional cable cover is available

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.

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.

"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.
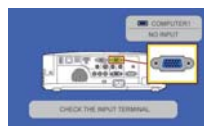
Crestron RoomView® support

This support provides unified management, including the ability to switch the power on and off for multiple projectors connected to a network.

Supports wired and wireless LAN (IEEE 802.11b/g/n) and various network controls

1. For Microsoft Windows Media Connect, still and video (streaming) images are sent to projectors connected to the network.* (Exceeding segments is not supported)
2. Files in the shared folders of computers connected to the network can be viewed.*
3. WPS (Wi-Fi Protected Setup) is supported. Projectors can be synchronized to an access point and infrastructure wireless LAN connections can be performed automatically.
4. Includes an access point connection for improved stability of wireless LAN connections.
5. Supports Windows Network Projector and PJ Link

*For details about supported file types and restrictions, please visit our web site.
**Model name of the 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
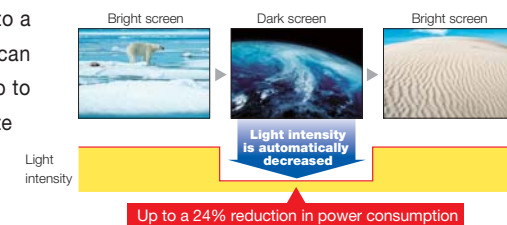
Optional Wireless LAN unit**

Supports Virtual Remote Tool for operation of projectors from a computer

*Use the included Virtual Remote Tool software.

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.

Bright screen   Dark screen   Bright screen

Light intensity

Light intensity is automatically decreased

Up to a 24% reduction in power consumption

Lengthen lamp lifetime

Using Eco Mode can increase the lamp lifetime to 5000 hours*.Furthermore, the low-energy design keeps power consumption to 0.2W(100-130V AC)/ 0.4W(200-240V AC)during standby (Power-saving Mode), which helps reduce total cost of ownership.
*For P350X. 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.

Built-in monaural speaker with a powerful 10 W output

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. In addition to still images in JPG, BMP, and PNG formats and video files in MPG and WMV formats, PowerPoint* and Adobe®PDF* files can also be displayed without a computer.

*Limited to specific fonts, etc.

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 29dB*(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. *For P350X.

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

● Terminals

USB Port (Type A)   USB Port (Type B)   Computer 2 Audio IN   Computer 1 Audio IN
LAN Port   HDMI IN   Computer 2 IN   Computer 1 IN
Video IN   S-Video IN   Audio OUT
S-Video / Video Audio IN   Monitor OUT   PC Control

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

P420X
4200 ANSI lumens | XGA | 3.9kg

P350X
3500 ANSI lumens | XGA | 3.9kg

P350W
3500 ANSI lumens | WXGA | 3.9kg