P Series

P350X, P350W and P420X digital projectors

Easy to use and at the right price, P Series projectors provide all the essential features that you need to connect with your audience. Highlighted by enhanced connectivity and bright images, these models are ideal for entry-level integration environments such as corporate boardrooms, higher education classrooms and government training rooms.
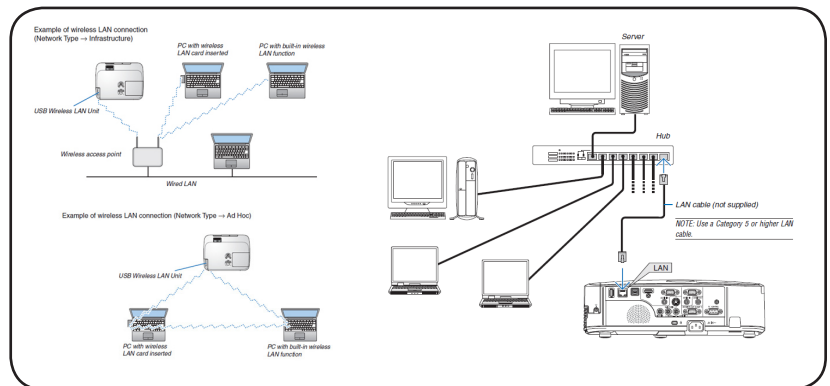
ESSENTIAL FEATURES FOR INTEGRATION

○ With **XGA and WXGA native resolutions**, high brightness up to 4200 lumens and patented NEC technologies, P Series projectors display impressive image quality

○ **Remarkable contrast ratio (2000:1)** enhances your image

○ **Powerful 10-watt speaker** provides volume needed for large rooms

○ **Vertical lens shift** provides for flexible installation

○ **Terminal cover** easily hides cables to create a clean environment while deterring unintentional access

○ **Versatile, color-coded connections** to computer, video sources and external monitor

Top cover lamp change
Perform easy lamp changes without removal of the projector from the mount.

ADVANCED NETWORKING CAPABILITIES

○ **Integrated RJ45 connection** for quick connection to the LAN (10/100 base-T capability)

○ **Remote diagnostics** enable the user to monitor and make adjustments to the projector remotely

○ **PC CTL 4.0** controls the power switching input selection and other functions while managing lamp usage and a variety of other vital information over the network. Email notification and projector scheduling for better asset management is included with the software.

○ **Image Express Utility dedicated projector software** (IEU 2.0; compatible with Windows or Mac operating systems) provides wired and wireless data transmission via peer-to-peer or over the network
   • Broadcast mode allows you to send information from one computer to several projectors

○ **Image Express Lite dedicated projector software** provides wired and wireless data transmission via peer-to-peer or over the network

○ **Windows Network Projector function** within Windows Vista connects directly to networked projectors without the need for additional proprietary software

○ **Windows Remote Desktop function** allows you to control a networked computer by connecting a USB mouse and keyboard directly to the projector's USB input

○ **Windows Media Connection and Network Drive functions** display multimedia files (.jpeg, .bmp, .png, .mpeg2 or .wmv9) stored on the Windows Media Connect server, in the Windows shared folder, or on a local network using the Viewer function—all without bringing your PC into the conference room

○ **Crestron Roomview**

DESIGNED WITH THE ENVIRONMENT IN MIND

- **Extended lamp life with ECO Mode™ technology** increases lamp life up to 5000 hours, while lowering power consumption
- **Power management** enables projector to automatically turn off when an incoming signal is not detected from any of the inputs
- **Auto Power On** via the RGB (15-pin) input connector when a signal is detected from a computer
- **Carbon savings meter** calculates the positive effects of operating the projector in ECO Mode, which is encouraged by an optional message at startup. A green ECO Mode button on the remote control makes the switch easy.
- **Quick start (3 to 4 seconds)** lets you begin presenting in seconds while quick shutdown (immediate power off with no cooling required after shutdown) ensures efficient energy usage
- **Sleep timer** can be set to automatically turn off the projector at set countdown times
- **Low power consumption** (0.2W in stand-by mode) minimizes energy costs
- **Direct power off** provides instantaneous shutdown of the projector

ECO MODE

5000-hour filter life
NEC is committed to designing its products to provide long lifecycles. This commitment even extends to components within its products, including the improved filter. This virtually maintenance-free filter reduces the frequency at which cleaning is required, thereby decreasing your total cost of ownership.

Active lens cover
This cover enables presenters to immediately mute the audio and video, then seconds later lower the lamp brightness to 25% for a short period of time.

ADVANCED SOFTWARE FEATURES

Geometric Correction
Projecting an image isn't confined to a standard flat screen or wall with the NEC P Series. Geometric correction allows these models to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.

Vertical cylindrical convex screen

Horizontal cylindrical concave screen
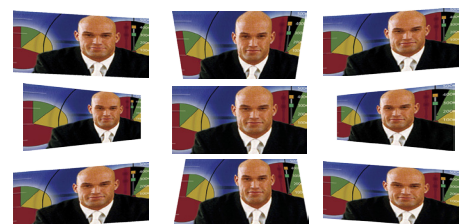
Vertical cylindrical concave screen

Corner

Virtual Remote™ (DDC/CI)
Used over the VGA cable, you can control the projector directly from a computer without the need for additional control cables.

Cornerstone
Enhanced keystone correction allows for horizontal, vertical and diagonal image correction for aligned images even when the projector is set up at an angle to the screen.

GET CONNECTED WITH A WIDE SELECTION OF INPUTS

◦ **Dual computer inputs** ensure quick switching between presentations
◦ **Four audio inputs (two mini stereo [Comp1 & Comp2], R/L [RCA - shared by video sources] and HDMI)** make it easy to add sound to enhance your presentations

Remote control
Easy control from remote allows you to adjust lamp mode, aspect ratio, volume and image all with the touch of a button.

HDMI input
Among the P Series' wide selection of inputs is an HDMI w/HDCP for connecting to high-definition sources such as Blu-ray players, cable boxes, satellite receivers and personal computers.

Variable audio-out
This input enables the remote control to be used to adjust volume of self-powered external speakers that are connected to the projector. In stand-by mode, the audio-out stays active, allowing the last input used to pass to the self-powered external speakers.

USB Viewer
In instances when you'd prefer to leave your laptop behind for a presentation, P Series projectors can deliver a solution. Using the presentation conversion software included with your projector, 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 .jpgs from optional USB memory.

USB input
Your connection options go even further with the P Series. Connect your laptop or PC directly to the projector using the USB port and a standard USB cable.

Input panel cover
This optional accessory creates a clean look for your installation, while hiding signal cables and the power cord.

BUILT-IN SOFTWARE

Built-in wall color correction presets
These provide for adaptive color tone correction to display properly on non-white surfaces.

On a green wall...
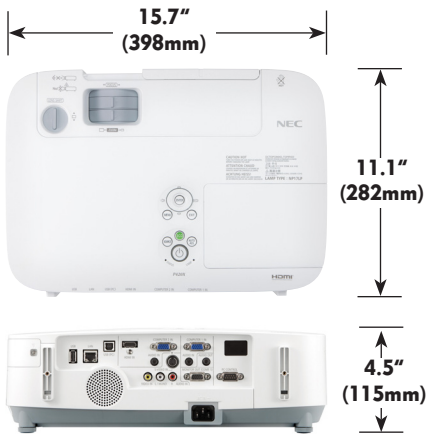
BEFORE auto wall correction

AFTER auto wall correction

DICOM SIM
DICOM Simulation enables users in medical environments to display accurate diagnostic images.

15.7"
(398mm)

11.1"
(282mm)

4.5"
(115mm)

UNIQUE FEATURES

Advanced AccuBlend ensures detailed images when non-native resolution sources are connected to the projector

64-step image magnification with location control

Countdown sleep timer can be set to automatically turn off the projector

WARRANTY

IN THE BOX

Remote control, batteries, power cord, RGB signal cable, built-in lens cover, user's manual on CD-ROM, quick start guide, product registration card, security sticker

Ordering Model Numbers

NP-P350X
NP-P350W
NP-P420X

CERTIFIED **CRESTRON** Integrated Partner

AMX DEVICE DISCOVERY

EcoCare℠ *InstaCare*

Specifications for P350X, P350W & P420X

OPTICAL		
Display Technology		P350X/P420X: 0.63" LCD with MLA
		P350W: 0.59" LCD with MLA
Native Resolution		P350X/P420X: XGA 1024 x 768
		P350W: WXGA 1280 x 800
Maximum		UXGA 1600 x 1200
Light Output (lumens)		P350X/P350W: 3500 normal / Eco = approx. 75% of normal mode
		P420X: 4200 normal / Eco = approx. 75% of normal mode
Contrast Ratio		2000:1
Lamp Type		P350X: 230W AC / 170W eco
		P350W/P420X: 265W AC / 195W eco
Lamp Life (up to)		P350X: 4000 hours normal / 5000 hours eco
		P350W/P420X: 3000 hours normal / 3500 hours eco
Screen Size (diagonal)		25 - 300 in., 0.64 - 7.6m
Throw Ratio		1.3 - 2.2
Projection Distance		P350X/P420X: 1.9 - 45.3 ft. / 0.6 - 13.8m
		P350W: 2.3 - 47.8 ft. / 0.69 - 14.6m
Projection Angle		0 - 9.8° tele / 0 - 16.5° wide
Lens		
	Zoom	1.7
	Focus	Manual
	F-#, f-#	F = 1.7 - 2, f = 17.4 - 29mm
	Shift (vertical)	P350X/P420X: 0 - 0.5V
		P350W: 0 - 0.6V
Keystone Correction		Automatic or manual +/- 30°

SIGNAL COMPATIBILITY/CONNECTIVITY		
Scan Rate		Horizontal 15 - 100 kHz / Vertical 50 - 120 Hz
Supported Video Standards		NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM
SD/HD Video Signal Compatibility		1080i, 1080p, 720p, 576p, 576i, 480p, 480i,Y/Cb/Cr component (with optional adapter – ADP-CV1E)
HDMI Signal Compatibility		VGA, SVGA, XGA, WXGA, SXGA, 480p, 576p, 720p, 1080i, 1080p
PC Signal Compatibility		VGA, SVGA, XGA, SXGA, SXGA+, UXGA
Macintosh Compatibility		Yes
Input/Output Terminals		
	RGB 1 (analog)	15 pin
	RGB2 (analog)	15 pin
	RGB3 (digital)	HDMI
	RGB4 (digital)	USB A Type
	Video 1	RCA
	Video 2	S-Video
	Audio 1	L/R RCA (shared by video sources)
	Audio 2	1/8 in. stereo
	Audio 3	1/8 in. stereo
	Audio Out	mini stereo (Variable audio out)
	Monitor Out	Yes
Audio		10W speaker
External Control		RS-232, IR, LAN, DDC/CI, USB, Wireless LAN
Sync Compatibility		Separate Sync / Composite Sync / Sync on G

ELECTRICAL		
Power Req.		100 - 240V AC, 50/60Hz
Input Current		P350X: 3.5 - 1.5A
		P350W/P420X: 3.9 - 1.7A
Power Consumption (Normal/ECO1 Mode/		P350X: 311W / 239W / 197W / 9W / 0.2W
ECO2 Mode/Standby Mode/Power Saving Mode)		P350W/P420X: 358W / 271W / NA / 9W / 0.2W

MECHANICAL		
Installation Orientation		Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
Dimensions (WxDxH)		15.7 x 11.1 x 4.5 in. / 398 x 282 x 115mm
Net Weight		8.6 lbs. / 3.9 kg
Fan Noise		P350X: 35 dB normal / 29 dB eco
		P350W/P420X: 36 dB normal / 30 dB eco
Regulations		UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-03 Class B, NOM-001-SCFI-1993

ENVIRONMENTAL		
Operational Temp		41° - 104°F / 5° - 40°C
Humidity		20-80% non-condensing
Storage		14° - 122°F / -10° - 50°C

ACCESSORIES		
NP01MR		IR receiver enables PJ remote to control PC and MAC functions
NP02LM1		802.11b/g/n wireless LAN adapter
NP01CV		Input panel cover
SPKR30		Amplified 30 watt speaker
ADP-CV1E		Component video to VGA adapter
MP300CM		Ceiling mount
NP01UCM		Universal ceiling mount for projectors weighing less than 40 pounds
AEC00609		6 to 9 inch adjustable extension column for use with projector mount
AEC012018		12 to 18 inch adjustable extension column for use with projector mount
AEC0203		2 to 3 foot adjustable extension column for use with projector mount
AEC0305		3 to 5 foot adjustable extension column for use with projector mount
SCP200		Adjustable suspended ceiling plate for use with ceiling mount
NP17LP		Replacement lamp for P350W and P420X
NP16LP		Replacement lamp for P350X
RMT-PJ31		Replacement remote control

WARRANTY PROGRAMS		
NECEW2-I		Extends term of parts and labor warranty to 4 years
ADVEXON2-I		Extends term of InstaCare service program to 3 years

Additional accessories are available, including screens, carts, mount accessories and replacement cables.
Visit www.necdisplay.com for details.

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