

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

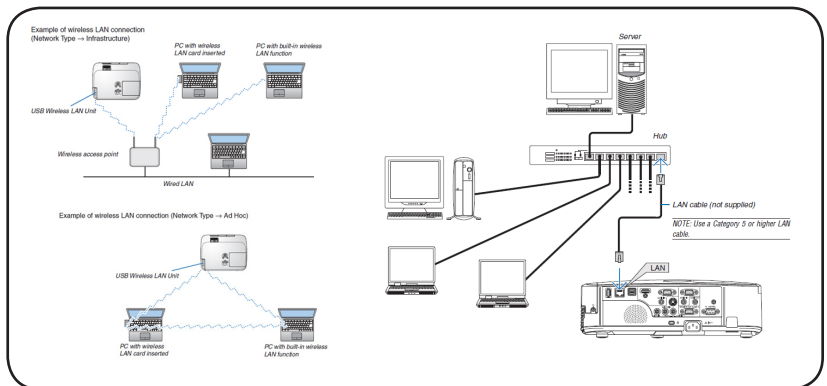
Top cover lamp change

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



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

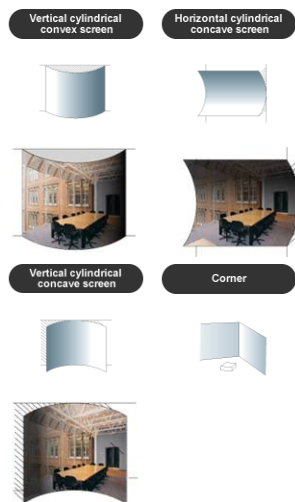
This cover enables presenters to immediately mute the audio and video, then seconds later lower the lamp brightness to 25% for a short period of time.



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.



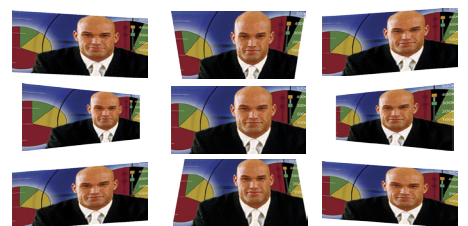
Virtual Remote™ (DDC/CI)

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



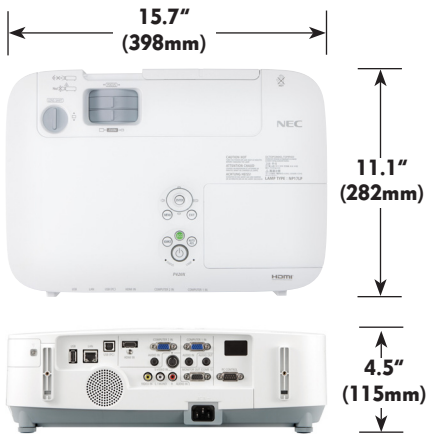
AFTER auto wall correction



DICOM SIM

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





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

Registered owners receive a 3-year parts and labor warranty including the first year of InstaCare. The lamp is covered for one year or 500 hours - whichever comes first. InstaCare provides the original owner one year of either limited 3-business-day repair/return or next-business-day exchange.

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



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 Light Output (lumens) | UXGA 1600 x 1200 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 | 1.7 |
| Zoom | Manual |
| Focus | F = 1.7 - 2, f = 17.4 - 29mm |
| F-#, f-# | P350X/P420X: 0 - 0.5V |
| Shift (vertical) | 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/ECO2 Mode/Standby Mode/Power Saving Mode) | P350X: 311W / 239W / 197W / 9W / 0.2W 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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