

Entry Level Installation projector

M Series

Designed for conference and classrooms



A powerhouse projector packed with essential features

Essential Features for Educational Facilities

- Plug and Play intuitive setup and operation
- Bright images easily viewed in any application
- Versatile, color-coded connections to computer, video sources and external monitor
- Automatic keystone correction technology instantly projects a square image even when the projector is set up at a steep offset angle to the screen
- AutoSense™ intuitively syncs the projector with most computer signals and features one-touch image optimization
- One-touch source changes and complete menu control using the intuitive projector keypad
- Powerful 20-watt speaker provides volume needed for large rooms
- High contrast images (10,000:1) from the latest Texas Instruments DLP engine featuring BrilliantColor™ technology with improved color accuracy
- With a 1080p native resolutions, high brightness of 4000 lumens and patented NEC technologies, the M402H projector displays impressive image quality

Designed with the Environment in Mind

- Extended lamp life with ECO Mode™ technology increases lamp life up to 8000 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
- 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

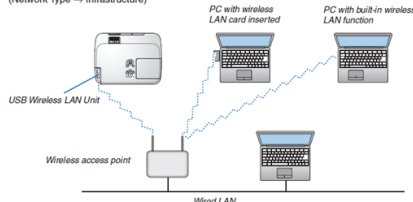
Advanced Networking Capabilities

- 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.
- PC CTL 5.0 for MAC users
- Control and receive important broadcast messages via Crestron Roomview™
- Wireless Image Utility (WIU) sends images directly from an iPad to the projector (requires wireless LAN module NP02LM1)
- Simple Access Point Sending photos and documents have never been easier from a computer or iPad.

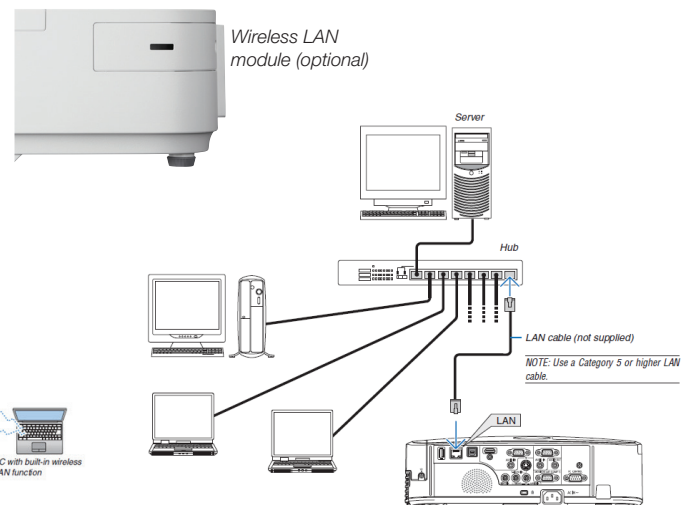
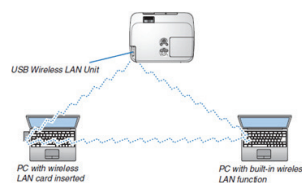
Image Express Lite

Dedicated projector software provides wired and wireless data and audio transmission via peer-to-peer or over the network.

Example of wireless LAN connection (Network Type → Infrastructure)



Example of wireless LAN connection (Network Type → Ad Hoc)



Advanced ECO Mode

ECO Mode

- Lamp control selections with the ability to change power dependent on the ambient lighting conditions. With a built-in ambient light sensor, automatic adjustment of the projector's lamp provides unprecedented brightness control resulting in bright images for most environments.
- Automatically dim the image with the new Auto-dim feature to control the brightness of static images and extend lamp life.
- Constant brightness control prevents the usual drop in brightness over time while maximizing lamp life.

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



Wall color correction presets

When combined with active shutter glasses, the 3D Ready M402H uses DLP Link™ technology, developed by Texas Instruments, to create 3D images from a computer. HDMI 3D images can be viewed using a 3rd party 3D glass from XPAND or Volfoni.



Top cover lamp change

This feature provides for easy lamp changes without removal of the projector from the mount.



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.





GET CONNECTED WITH A WIDE SELECTION OF INPUTS

- **Dual HDMI inputs** ensure quick switching between presentations
- **Four audio inputs (mini stereo, R/L 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.



Dual HDMI inputs

Among the M402H's wide selection of inputs, dual HDMI w/ HDCP for connecting to high-definition sources such as Blu-ray players, cable boxes, satellite receivers and personal computers.



Variable audio-out

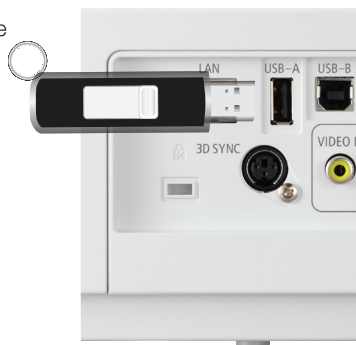
This input enables the remote control to be used to adjust volume of self-powered external speakers that are connected to the projector. In stand-by mode, the audio-out stays active, allowing the last input used to pass to the self-powered external speakers.



ADVANCED SOFTWARE FEATURES

USB Viewer

In instances when you'd prefer to leave your laptop behind for a presentation, the M402H 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 M402H. Connect your laptop or PC directly to the projector using the USB port and a standard USB cable.



Specifications for M402H

UNIQUE FEATURES

BrilliantColor advanced video processing from Texas Instruments delivers more vibrant and realistic colors and blacks rich in detail.

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

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

Filter Free with shielded engine eliminates the hassle and time spent monitoring and /or changing filters.

Built-in closed captioning enables decoding and display of text information from a video

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 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.

SHIPS WITH

Carrying case, remote control, batteries, power cord, RGB signal cable, built-in lens cover, user's manual on CD-ROM, quick start guide, product registration card and DisplayNote Presenter License

ORDERING MODEL NUMBERS

NP-M402H



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

<p>OPTICAL</p> <p>Display Technology</p> <p>Light Output (lumens) Resolution Native Maximum Contrast Ratio (up to) Lamp Type</p> <p>Lamp Life (up to)</p> <p>Screen Size (diagonal) Throw Ratio Projection Distance</p> <p>Projection Angle</p> <p>Lens* Zoom Focus F-#, f-# Keystone Correction</p>	<p>0.65" DLP by Texas Instruments w/ BrilliantColor 4000 1080p 1920 x 1080</p> <p>WUXGA 1920 x 1200 Up to 10,000:1</p> <p>270W AC</p> <p>3500 hours / 8000 hours eco 30 - 300 in., 0.76 - 7.6m 1.2 - 2.0:1</p> <p>2.4 - 46.2 ft. / 0.74 - 14.08m 9.9° - 17.9°</p> <p>1.7 Manual F=2.4 - 3.2, f=18.0 - 30.6mm +/- 25% Horizontal & +/- 30% Vertical (Automatic/Manual) adjustment</p>
<p>SIGNAL COMPATIBILITY/ CONNECTIVITY</p> <p>Scan Rate Horizontal Vertical</p> <p>Supported Video Standards SD/HD Video Signal Compatibility</p> <p>PC Signal Compatibility Macintosh Compatibility Input/Output Terminals</p> <p>RGB1 (analog) RGB2 (digital) RGB3 (digital) RGB4 (digital) Video Audio 1 Audio 2 Audio 3 Audio Out Monitor Out 3D Sync Line 3Pin Din Audio External Control Sync Compatibility</p>	<p>15 - 100 kHz 50 - 120 Hz</p> <p>NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM 1080i, 1080p, 720p, 576p, 576i, 480p, 480i, Y/Cb/Cr component (with optional adapter - ADP-CV1E) VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA Yes</p> <p>VGA 15-pin D-sub HDMI w/ HDCP HDMI w/ HDCP USB A Type RCA L/R RCA 1/8 in. stereo Microphone in mini stereo (variable audio out) Yes</p> <p>20W speaker RS-232, IR, LAN, DDC/CI, USB, Wireless LAN (optional) Separate Sync / Composite Sync / Sync on G</p>
<p>ELECTRICAL</p> <p>Power Requirements Input Current Power Consumption (ECO Off/ECO Mode/ Standby/Standby-Power Saving)</p>	<p>ELECTRICAL</p> <p>100 - 240V AC, 50/60Hz 3.9A / 1.9A</p> <p>354W / 258W / 2.5W / 0.2W</p>
<p>MECHANICAL</p> <p>Installation Orientation Dimensions (WxDxH) Net Weight Fan Noise Regulations</p>	<p>Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear 14.5 x 11.5 x 4.3 in. / 368 x 291 x 108mm 8.2 lbs. / 3.7 kg 39 dB / 33 dB eco UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-03 Class B</p>
<p>ENVIRONMENTAL</p> <p>Operating Temperature Humidity Storage</p>	<p>41° - 104°F / 5° - 40°C 20-80% non-condensing -14° - 122°F / -10° - 50°C</p>
<p>ACCESSORIES</p> <p>NP01MR NP02LM1 ADP-CV1E MP300CM NP01UCM AEC006009 AEC012018 AEC0203 AEC0305 SCP200 NP30LP RMT-PJ36 NECEW1-I NECEW2-I ADVEXON1-I ADVEXON2-I NECECO PWRCRD-PJPX RGBCBL-PJPX</p>	<p>IR receiver enables PJ remote to control PC and MAC functions 802.11b/g/n wireless LAN adapter Component video to VGA adapter Ceiling mount Universal ceiling mount for projectors weighing less than 40 pounds 6 to 9 inch adjustable extension column for use with projector mount 12 to 18 inch adjustable extension column for use with projector mount 2 to 3 foot adjustable extension column for use with projector mount 3 to 5 foot adjustable extension column for use with projector mount Adjustable suspended ceiling plate for use with ceiling mount Replacement lamp Replacement remote control Extends term of parts and labor warranty to 4 years Extends term of parts and labor warranty to 5 years Extends term of InstaCare service program to 2 years Extends term of InstaCare service program to 3 years Projector recycling program, disposal certificate Power cable RGB cable</p>

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