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 resolution, 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.
**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.

**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.
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 .jogs from optional USB memory.

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.

**USB Viewer**

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

**OPTICAL**
- **Display Technology**: 0.65" DLP by Texas Instruments w/ BrilliantColor
- **Resolution**: 4000
- **Brightness**: 1080p 1920 x 1080
- **Contrast Ratio**: WUXGA 1920 x 1200
- **Lamp Type**: Up to 10,000:1
- **Lamp Life**: 270W AC
- **Screen Size (minimum)**: 3500 hours / 8000 hours eco
- **Throw Ratio**: 30 - 300 in., 0.76 - 7.6m
- **Projection Distance**: 1.2 - 2.0:1
- **Projection Angle**: 2.4 - 46.2 ft, 0.74 - 14.08m
- **Lens**
  - F = 2.4 - 3.2, f = 18.0 - 30.66mm
  - +/- 25% Horizontal & +/- 30% Vertical (Automatic/Manual) adjustment

**SIGNAL COMPATIBILITY/CON NECTIVITY**
- **Scan Rate**: 15 - 100 kHz
- **Horizontal Vertical**: 50 - 120 Hz
- **Supported Video Standards**: NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM
- **PC Signal Compatibility**: 1080i, 1080p, 720p, 576p, 576i, 480p, 480i, Y/Cb/Cr component (with optional adapter – ADP-CV1E)
- **Macintosh Compatibility**: VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WXGA
- **Audio**: 20W speaker
- **Separate Sync/Composite Sync/Sync on G**: Yes
- **Audio Inputs**: 3Pin Din, 3D Sync Line, Monitor Out, Audio Out
- **Audio Outputs**: Audio 1, Audio 2, Audio 3
- **input/output terminals**: In, Audio Out, Monitor Out, 3D Sync Line, 3Pin Din, Audio, External Control, Sync Compatibility

**ELECTRICAL**
- **Power Requirements**: 900-240V AC, 50/60Hz
- **Input Current**: 3.9A / 1.9A
- **Power Consumption (ECO Off/ECO Mode/Standby/Standby—Power Saving)**: 354W / 258W / 2.5W / 0.2W

**MECHANICAL**
- **Installation Orientation**: Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
- **Dimensions (WxDxH)**: 14.5 x 11.5 x 4.3 in / 368 x 291 x 108mm
- **Net Weight**: 9.2 lbs / 4.2 kg
- **Fan Noise**: 39 dB / 33 dB eeco
- **FCC Class**: UL 60601-1, CSA 60950-1, FIC Part 15 Class B, ICES-03 Class B

**ENVIRONMENTAL**
- **Operating Temperature**: -14° – 122°F / -10° – 50°C
- **Humidity**: 20-90% non-condensing
- **Storage**: -14° – 122°F / -10° – 50°C

**ACCESSORIES**
- **NP01MR**: IR receiver enables PJ remote to control PC and MAC functions
- **NP02M1**: 802.11g/n wireless LAN adapter
- **ADP-CV1E**: Component video to VGA adapter
- **MECOM**: Ceiling mount
- **NP01UCM**: Universal ceiling mount for projectors weighing less than 40 pounds
- **ADP-CV2**: 12 to 16 inch adjustable extension column for use with projector mount
- **ADP-CV3**: 2 to 3 foot adjustable extension column for use with projector mount
- **ADP-CV4**: 3 to 5 foot adjustable extension column for use with projector mount
- **ADP-CV5**: Adjustable suspended ceiling plate for use with ceiling mount
- **NP03LP**: Replacement lamp
- **RMT-PJ36**: Replacement remote control
- **NP30LP**: Extended term of parts and labor warranty to 4 years
- **UEC2W1**: Extended term of parts and labor warranty to 5 years
- **UEC2W2**: Extended term of InstaCare service program to 2 years
- **UEC2W3**: Projector recycling program, disposal certificate
- **NP30LP**: Power cable
- **RMT-PJ36**: RGB cable

**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

**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.

**ORDERING MODEL NUMBERS**
- NP-M402H

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**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

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