M Series
M282X, M322X, M322W and M402X digital projectors

Easy to use and at the right price, M Series projectors using the latest DLP® technology from Texas Instruments provide all the essential features that you need to connect with your audience.

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 XGA and WXGA native resolutions, high brightness up to 4000 lumens and patented NEC technologies, M Series projectors display impressive image quality

Designed with the Environment in Mind

- Extended lamp life with ECO Mode™ technology increases lamp life up to 10,000 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

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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 NP02LMI)
- 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 projectors 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

When combined with active shutter glasses (NP02GL), 3D Ready M Series Projectors use DLP Link™ technology, developed by Texas Instruments, to create 3D images from a computer. The M282X/M322X/M322W/M402X are certified as a display device for NVIDIA® 3D Vision™, which allows you to view 3D images using supported graphics boards or software. HDMI 3D images can be viewed using a 3rd party 3D glass from XPAND or Volfoni.
Get Connected with a Wide Selection of Inputs

- Dual HDMI inputs ensure quick switching between presentations
- Four audio inputs (two mini stereo, R/L and HDMI™) make it easy to add sound to enhance your presentations

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.

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 M 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, M 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 .jpegs from optional USB memory.

USB input
Your connection options go even further with the M Series. Connect your laptop or PC directly to the projector using the USB port and a standard USB cable.
**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 2-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-M282X  
NP-M322X  
NP-M322W  
NP-M402X

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**Specifications for M282X/M322X/M322W/M402X**

**OPTICAL**

- **Display Technology**: NEC’s Advanced AccuBlend, ECO Mode and Virtual Remote are trademarks of NEC Display Solutions. HDMI, the HDMI logo and HDMI Licensing LLC. All other brand or product names are trademarks or registered trademarks of their respective holders. Product specifications subject to change.

**SIGNAL COMPATIBILITY/CONNECTIVITY**

- **Scan Rate**: 15 – 100 kHz  
- **Horizontal Frequency**: 30 – 100 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)

**ELECTRICAL**

- **Power Requirements**: 100 – 240V AC, 50/60Hz
- **Input Current**: M282X: 3.0A / 1.5A  
M322X/M322W: 3.3A / 1.8A
- **Power Consumption (ECO Off/ECO Mode)**:
  - M282X: 257W / 187W / 2.5W / 0.2W  
  - M322X/M322W: 282W / 202W / 2.5W / 0.2W  
  - M402X: 335W / 246W / 2.5W / 0.2W

**MECHANICAL**

- **Installation Orientation**: Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
- **Dimensions (WxHxD)**: 34.0 x 102.1 x 85.8 in. / 863 x 260 x 218mm
- **Net Weight**: M282X/M322X/M322W: 24.7 lbs. / 11.2 kg  
M402X: 24.7 lbs. / 11.2 kg
- **Fan Noise**: M282X: 20 dBA  
M322X/M322W: 23 dBA  
M402X: 26 dBA  
- **Regulations**: UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-003 Class B

**ENVIRONMENTAL**

- **Operating Temperature**: 41° – 104°F / 5° – 40°C
- **Humidity**: 20-80% non-condensing  
- **Storage**: -14° – 122°F / -10° – 50°C

**ACCESSORIES**

- **IR receiver enables PJ remote to control PC and MAC functions**
- **Power cable**
- **Replacement lamp for M402X**
- **Replacement lamp for M322X and M322W**
- **Replacement lamp for M282X**
- **Receivers for InstaCare service program to 3 years**
- **Receivers for InstaCare service program to 2 years**
- **Receivers for InstaCare service program to 1 year**
- **Replacement remote control**
- **Projector recycling program, disposal certificate**
- **Power cable**

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