M Series
M271X, M311X and M311W digital projectors

Easy to use and at the right price, M Series projectors 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 10-watt speaker provides volume needed for large rooms
- Remarkable contrast ratio (3000:1) enhances your image
- With XGA and WXGA native resolutions, high brightness up to 3100 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 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

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.
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)

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

Advanced Software Features

Virtual Remote™
Used via a network connection (wired/wireless), you can control the projector directly from a computer without the need for additional control cables.

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.
Get Connected with a Wide Selection of Inputs

- Dual computer 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

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 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.

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.
Specifications for M271X/M311X/M311W

## OPTICAL
- **Display Technology**: M271X: 0.63" LCD, M311X: 0.63" LCD with MLA, M311W: 0.59" LCD with MLA
- **Light Output (lumens)**: M271X: 2700, M311X/M311W: 3100
- **Resolution**: M271X/M311X: XGA 1024 x 768, M311W: WUXGA 1280 x 800
- **Contrast Ratio (up to)**: M271X/M311X: 180W AC / 145W eco, M311W: 230W AC / 170W eco
- **Lamp Life (up to)**: M271X/M311X: 5000 hours / 10,000 hours eco, M311W: 4000 hours / 8000 hours eco
- **Screen Size (diagonal)**: M271X/M311X: 25 - 300 in., 0.64 - 7.6m
- **Throw Ratio**: M271X: 1.3 - 2.2, M311X: 2.1 - 4.53, M311W: 1.9 - 4.53
- **Projection Distance**: M271X: 2.1 - 45.3 ft. / 0.65 - 13.8m, M311W: 2.3 - 47.8 ft. / 0.69 - 14.6m
- **Projection Angle**: M271X/M311X: 6.5 - 6.8° tele / 10.7 - 11.4° wide, M311W: 6.5 - 6.8° tele / 10.8 - 11.4° wide
- **Lens**: Manual, F = 1.7 - 2.1, F/1.7 - 2.9mm
- **Zoom**: Manual, F# 1.7 - 2.1, F/# 1.7 - 2.1
- **Keystone Correction**: Automatic or manual +/- 30°

## SIGNAL COMATIBILITY/CONNECTIVITY
- **Scan Rates (Horizontal, Vertical)**: 15 - 100 kHz
- **Supported Video Standards**: NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM
- **PC Signal Compatibility**: VGA, SXGA, XGA, SXGA+, UXGA
- **Macintosh Compatibility**: Yes
- **USB A Type**: HDMI
- **S-Video**: Yes
- **Audio Sources**: 1/8 in. stereo, L/R RCA (shared by video sources)
- **Video Sources**: VGA, SVGA, XGA, SXGA, SXGA+, UXGA
- **Keystone Correction**: Automatic or manual +/- 30°

## ELECTRICAL
- **Power Requirements**: 100 - 240V AC, 50/60Hz
- **Input Current**: M271X/M311X: 2.8A / 1.2A, M311W: 3.4A / 1.5A
- **Power Consumption (Normal/ECO Mode)**: M271X/M311X: 248W / 198W / 0.2W, M311W: 311W / 239W / 0.2W

## MECHANICAL
- **Installation Orientation**: Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
- **Dimensions (WxDxH)**: 13.4 x 10.1 x 3.9 in. / 339 x 257 x 99mm
- **Net Weight**: M271X/M311X: 6.4 lbs. / 2.9 kg, M311W: 6.6 lbs / 3 kg
- **Fan Noise**: M271X/M311X: 33 dB normal / 26 dB eco

## ENVIRONMENTAL
- **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
- **Amplified 30-watt speaker**: Component video to VGA adapter
- **Ceiling mount**: Universal ceiling mount for projectors weighing less than 40 pounds
- **Light output (lumens)**: M271X: 2700, M311X/M311W: 3100
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Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit www.necdisplay.com for details.