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

**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)
6000-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. Filter replacement is only required at the time the lamp is replaced.

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

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 SOFTWARE**

**Built-in wall color correction presets**
These provide for adaptive color tone correction to display properly on non-white surfaces.

- **Before auto wall correction**
- **After auto wall correction**

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

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**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.
Specifications for M271X/M311X/M311W

OPTICAL

Display Technology
M271X: 0.63" LCD
M311X: 0.63" LCD with MLA
M311W: 0.63" LCD with MLA
M311X/M311W: XGA 1024 x 768
M311W: WXGA 1280 x 800
UXGA 1600 x 1200
Full HD 1920 x 1080

Light Output (lumens)
M311X/M311W: 3700 lumens normal / 7400 lumens eco
M311W: 3600 lumens normal / 7200 lumens eco

Resolution
Native
M271X/M311X: XGA
M311W: WXGA

Maximum
M271X: WXGA 1280 x 800
M311X/M311W: Full HD 1920 x 1080
M311W: WXGA 1280 x 800

Contrast Ratio (up to)
M311X/M311W: 4000:1
M311W: 3000:1

Lamp Type
M271X/M311X: Advanced AccuBlend™
M311W: ECO Mode

Lamp Life (up to)
M311X: 6000 hours normal / 12,000 hours eco
M311W: 5000 hours normal / 10,000 hours eco
M311X/M311W: 4000 hours normal / 8000 hours eco

Screen Size (diagonal)
25 - 300 in., 0.64 - 7.6m

Throw Ratio
1.3 - 2.2

Projection Distance
M271X: 21 - 45.5 ft. / 0.65 - 13.8m
M311X: 23 - 47.8 ft. / 0.69 - 14.6m
M311X/M311W: 6.5 - 8.8 ft / 1.97 - 2.74 m wide
M311W: 6.5 - 8.8 ft / 1.97 - 2.74 m wide

Projection Angle
1° Manual
F: 17 - 21, H:75 - 28mm
Automatic or manual +/- 30°

Unique Features

Advanced AccuBlend™ ensures detailed images when non-native resolution sources are connected to the projector
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
Direct power-off provides instantaneous shutdown of projector

Warranty

Registered owners receive a 2-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
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

Ordering Model Numbers
NP-M271X
NP-M311X
NP-M311W

Signal Compatibility/Connectivity

Scan Rate
Horizontal: 15 – 100 kHz
Vertical: 50 – 120 Hz

Supported Video Standards
SD/HD Video Signal Compatibility

PC Signal Compatibility
Macintosh Compatibility

Input/Output Terminals
RGB (analog)
RGB2 (analog)
RGB3 (analog)
RGB4 (digital)
Video 1
Video 2
Video 3
Audio 1
Audio 2
Audio 3
Audio Out
Monitor Out

Audio
10W speaker

Sync Compatibility
Separate Sync / Composite Sync / Sync on G

Electrical

Power Requirements
Input Current
Power Consumption (Normal/ECO Mode/Standby/Off)

Mechanical

Installation Orientation
Dimensions (WxDxH)
Net Weight

Fan Noise
M271X/M311X: 33 dB normal / 26 dB eco
M311W: 32 dB normal / 25 dB eco

Regulations
UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-003 Class B, NOM-001-SCFI-1993

Environmental

Operating Temperature
Humidity
Storage

Accessories
IR receiver enables PJ remote to control PC and MAC functions
802.11b/g/n wireless LAN adapter
Amplified 30-watt speaker
Component video to VGA adapter
Ceiling mount
Universal ceiling mount for projectors weighing less than 40 pounds: 1 to 9 inch adjustable extension column for use with projector mount
Adjustable suspended ceiling mount for projectors weighing between 10 to 40 pounds: 2 to 3 foot adjustable extension column for use with projector mount
Adjustable suspended ceiling mount for projectors weighing between 20 to 50 pounds: 2 to 5 foot adjustable extension column for use with projector mount
Adjustable suspended ceiling plate for use with ceiling mount
Replacement lamp for M311X and M311W
Replacement lamp for M311W
Replacement remote control

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