

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

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 NPO2LM1)



Top cover lamp change provides for easy lamp changes without removal of the projector from the mount.

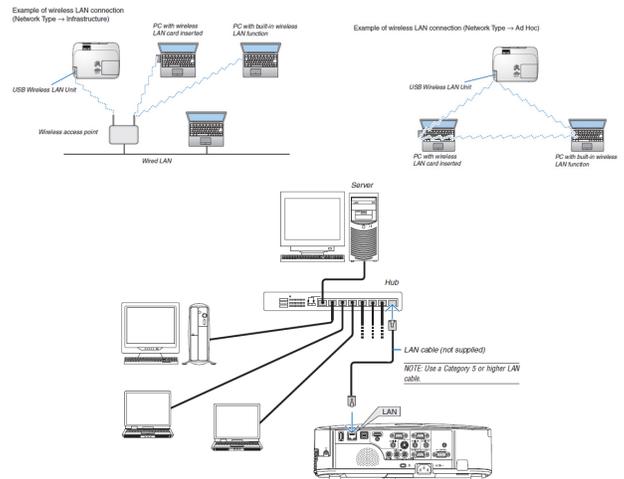


Image Express Lite

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



Wireless LAN module (optional)



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



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.

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.



HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

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

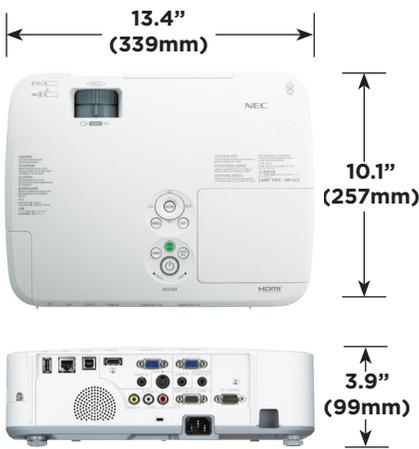
In instances when you'd prefer to leave your laptop behind for a presentation, M Series projectors can deliver a solution. Using the presentation conversion software included with your projector, simply place your file onto a USB drive and plug it into the projector's USB port. This allows you to display images stored as .jpgs 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
 Light Output (lumens)
 Resolution Native
 Maximum Contrast Ratio (up to)
 Lamp Type
 Lamp Life (up to)
 Screen Size (diagonal)
 Throw Ratio
 Projection Distance
 Projection Angle
 Lens*
 Zoom
 Focus
 F-#, f-#
 Keystone Correction

M271X: 0.63" LCD
 M311X: 0.63" LCD with MLA
 M311W: 0.59" LCD with MLA
 M271X: 2700 normal
 M311X/M311W: 3100 normal
 M271X/M311X: XGA 1024 x 768
 M311W: WXGA 1280 x 800
 UXGA 1600 x 1200
 3000:1
 M271X/M311X: 180W AC / 145W eco
 M311W: 230W AC / 170W eco
 M271X/M311X: 5000 hours normal / 10,000 hours eco
 M311W: 4000 hours normal / 8000 hours eco
 25 - 300 in., 0.64 - 7.6m
 1.3 - 2.2
 M271X: 2.1 - 45.3 ft. / 0.65 - 13.8m
 M311X: 1.9 - 45.3 ft. / 0.6 - 13.8m
 M311W: 2.3 - 47.8 ft. / 0.69 - 14.6m
 M271X/M311X: 6.5 - 6.8° tele / 10.7 - 11.4° wide
 M311W: 6.5 - 6.8° tele / 10.8 - 11.4° wide
 1.7
 Manual
 F=1.7 - 2.1, f=17.5 - 29mm
 Automatic or manual +/- 30°

SIGNAL COMPATIBILITY/CONNECTIVITY

Scan Rate
 Horizontal
 Vertical
 Supported Video Standards
 SD/HD Video Signal Compatibility
 PC Signal Compatibility
 Macintosh Compatibility
 Input/Output Terminals
 RGB1 (analog)
 RGB2 (analog)
 RGB3 (analog)
 RGB4 (digital)
 Video 1
 Video 2
 Audio 1
 Audio 2
 Audio 3
 Audio Out
 Monitor Out
 Audio
 External Control
 Sync Compatibility

15 - 100 kHz
 50 - 120 Hz
 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-CVIE)
 VGA, SVGA, XGA, SXGA, SXGA+, UXGA
 Yes
 VGA 15-pin D-sub
 VGA 15-pin D-sub
 HDMI
 USB A Type
 RCA
 S-Video
 L/R RCA (shared by video sources)
 1/8 in. stereo
 1/8 in. stereo
 mini stereo (variable audio out)
 Yes
 10W speaker
 RS-232, IR, LAN, DDC/CI, USB, Wireless LAN (optional)
 Separate Sync / Composite Sync / Sync on G

ELECTRICAL

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

100 - 240V AC, 50/60Hz
 M271X/M311X: 2.8A / 1.2A
 M311W: 3.4A / 1.5A
 M271X/M311X: 248W / 198W / 8W / 0.2W
 M311W: 311W / 239W / 8W / 0.2W

MECHANICAL

Installation Orientation
 Dimensions (WxDxH)
 Net Weight
 Fan Noise
 Regulations

Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
 13.4 x 10.1 x 3.9 in. / 339 x 257 x 99mm
 M271X/M311X: 6.4 lbs. / 2.9 kg
 M311W: 6.6 lbs. / 3 kg
 M271X/M311X: 33 dB normal / 26 dB eco
 M311W: 35 dB normal / 28 dB eco
 UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-03 Class B,
 NOM-001-SCFI-1993

ENVIRONMENTAL

Operating Temperature
 Humidity
 Storage

41° - 104°F / 5° - 40°C
 20-80% non-condensing
 -14° - 122°F / -10° - 50°C

ACCESSORIES

NP01MR
 NP02LM1
 SPKR30
 ADP-CVIE
 MP300CM
 NP01UCM
 AECO609
 AEC12018
 AECO203
 AECO305
 SCPI00
 NP15LP
 NP16LP
 RMT-RJ29
 NECEW1-MP
 NECEW2-MP
 ADVEXON1-MP
 ADVEXON2-MP
 NECECO

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
 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 for M271X and M311X
 Replacement lamp for M311W
 Replacement remote control
 Extends term of parts and labor warranty to 3 years
 Extends term of parts and labor warranty to 4 years
 Extends term of InstaCare service program to 2 years
 Extends term of InstaCare service program to 3 years
 Projector recycling program, disposal certificate

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

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

