

Ideal centrepiece for modern education and meeting areas

## NEC M Series

Easy to use and at the right price, M Series projectors provide all the essential features that you need for brilliant display in classrooms and meeting rooms while providing low cost of ownership with minimal maintenance.



### 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, WXGA and 1080p 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

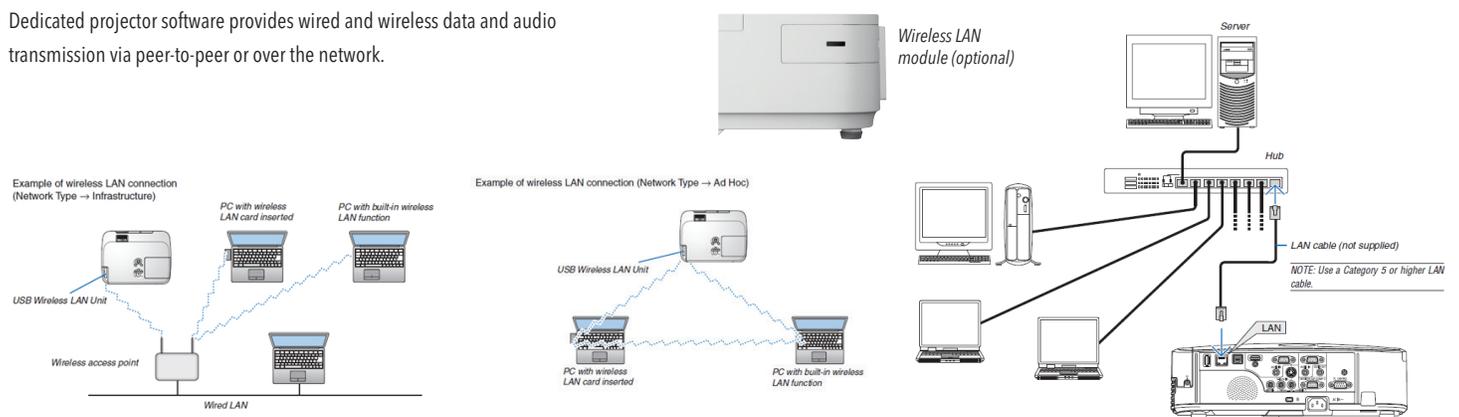
# High Performance Portable Projectors

## 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 NP05LM1)
- Simple Access Point Sending photos and documents have never been easier from a computer or iPad.
- MultiPresenter enables up to 16 wireless devices to be connected to the projector simultaneously with access controlled by the moderator.

## 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.



On a green wall...



BEFORE auto wall correction



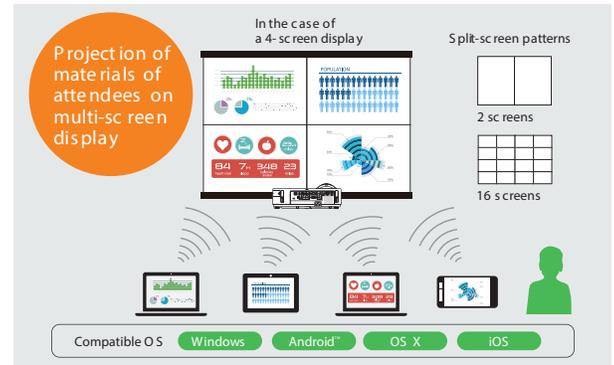
AFTER auto wall correction

## M Series Features

### Multi-screen Projection Function\*

The multi-screen projection function allows you to share screens from multiple devices on various split-screen displays. Display information from up to 16 PCs, tablet PCs, smart phones, and other network connected devices on a multi-screen display of up to 16 screens. Easily share screens and information regardless of device or operating system.

\*Requires an optional wireless LAN module for wireless connection. PCs require the installation of the Image Express Utility Lite software on the included CD-ROM. Smart phones and tablets require the download and installation of our Wireless Image Utility software.



### Top cover lamp change

This feature provides for easy lamp changes without removal of the projector from the mount.



### Shielded Optical Structure and filterless Design

The filter-free design and shielded engine eliminate the hassle and time spent monitoring and/or changing filters.



Key optical parts are shielded for dust protection.



Magnetic sensor is effective against dust.

### 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 are 2 HDMI w/HDCP (one MHL compatible) 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.



### Full HD 3D video (144Hz)

When combined with active shutter glasses and 3D emitter, the M Series Projectors create 3D images from a computer or Blu-ray player. The projectors utilize the 3D sync line output to connect to the 3D emitter. Optional 3D glasses and emitters by XPAND are available from NEC (X105-RF-X2 / AD025-RF-X1)



### 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.



		NP-M403H	NP-M323W / M363W	NP-M283X / M323X / M363X / M403X	NP-M333XS / NP-M353WS
Projection System		Single DLP* (0.65")		Single DLP* (0.55")	Single Chip DLP (0.55" / 0.65")
Resolution		1920 x 1080 (1080p Full HD)		1280 x 800 (WXGA)	1024 x 768 (XGA) / 1280 x 800 (WXGA)
Lens		Manual zoom (x1.7) / manual focus, F=2.4 - 3.1, f=17.09 - 29.05mm, throw ratio 1.5 - 2.55	Manual zoom (x1.7) / manual focus, F=2.4 - 3.1, f=17.09 - 29.05mm, throw ratio 1.2 - 2.04	Manual zoom (x1.7) / manual focus, F=2.4 - 3.2, f=18.0 - 30.6mm, throw ratio 1.2 - 2.04	1.2 X Digital Zoom / manual focus F = 2.4, f = 6.5mm throw ratio 0.56 / 0.45
Light source (lamp)	ECO mode	162W	135W / 150W	120W / 135W / 150W / 162W	162W
	ECO mode off	270W	225W / 250W	200W / 225W / 250W / 270W	270W
Lamp life	ECO mode	8,000 H	8,000 H	10,000 / 8,000 / 8,000 / 8,000 H	8,000 H
	ECO mode off	3,500 H	3,500 H	4,500 / 3,500 / 3,500 / 3,500 H	3,500 H
Image size		30 to 300 inches		30 to 300 inches	60 - 150 in., 1.5 - 3.1m
Light output	Normal	4,000 ANSI lumens	3,200 / 3,600 ANSI lumens	2,800 / 3,200 / 3,600 / 4,000 ANSI lumens	3300 / 3500 ANSI lumens
	ECO mode	Approximately 80% of normal			
Contrast ratio (white/black)		10,000:1			
Maximum resolution		Up to WUXGA (1920 x 1200)			
Synchronization range	Horizontal	15KHz to 100kHz (RGB: 24 kHz or over)			
	Vertical	50Hz to 120Hz (HDMI: 50 - 85Hz)			
Keystone correction	Horizontal	Manual: +/- 25 degrees			N/A
	Vertical	Auto / manual: +/- 30 degrees			
Input terminals	Computer	Mini D-sub 15 pin x 1			
	Audio	Stereo mini jack x 1			
	Video	RCA x 1			
	Audio	(L/R) RCA x 1			
	HDMI	HDMI x 2 (HDMI 1 supports MHL function)			
	Microphone	Stereo mini jack, dynamic mic, condenser mic			
	3D Sync	Mini 3-pin			
	USB Port	Type A	USB 2.0 (USB viewer) powered		
	Type B	USB display / mouse control			
Output terminals		Mini D-sub 15 pin x 1			
	Audio	Stereo mini jack x 1 (VAO)			
Wired LAN port		RJ45 (10 BASE-T / 100 BASE-TX) x 1			
Control terminals		D-Sub 9-pin x 1			
Built-in speaker		20W monaural			
Usage environment	Operational temperature	41 to 104 degrees Fahrenheit, 20 to 80% humidity (no condensation)			
	Storage temperature	14 to 122 degrees Fahrenheit, 20 to 80% humidity (no condensation)			
Power requirements		100-240 VAC 50/60Hz			
Input current		3.9 A to 1.9 A	3.6 A to 1.4 A	3.9 A to 1.5 A	3.9A / 1.6A
Power consumption	ECO mode off	338W	283W / 316W	255W / 283W / 316W / 338W	338W
	ECO mode	221W	186W/205W	170W/186W/205W/221W	276W
	Standby (network)	0.5W or less			
	Standby (normal)	0.15W or less			
Net dimensions (W x H x D)		368 x 108 x 292mm (14.5" x 4.3" x 11.5")			368x134x291mm(14.5"x5.3"x11.5")
Weight		3.5kg / 7.7lbs			3.7kg/8.2lbs
Gross dimensions (W x D x H)		459 x 225 x 381mm (18.1" x 8.9" x 15.2")			
Gross weight		5.2kg / 11.5lbs			

## 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 (M403H/M333XS/M353WS 3 year) 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 (excludes M333XS and M353WS), remote control, batteries, power cord, RGB signal cable, built-in lens cover, user's manual on CD-ROM, quick start guide, and product registration card

## ORDERING MODEL NUMBERS

<b>NP-M283X</b>	<b>NP-M323X</b>	<b>NP-M363X</b>
<b>NP-M403H</b>	<b>NP-M323W</b>	<b>NP-M363W</b>
<b>NP-M403H</b>	<b>NP-M333XS</b>	<b>NP-M353WS</b>

## Accessories

- NP01MR** IR receiver enables PJ remote to control PC and MAC functions
- NP05LM1** 802.11b/g/n wireless LAN adapter
- SPKR30** Amplified 30-watt speaker
- MP300CM** Ceiling mount
- NP01UCM** Universal ceiling mount for projectors weighing less than 40 pounds
- NP02GL** Active shutter 3D glasses (PC only)
- X105-RF-X2** XPAND RF 3D glasses
- AD025-RF-X1** XPAND RF 3D emitter
- SCP200** Adjustable suspended ceiling plate for use with ceiling mount
- NP27LP** Replaceable lamp for M283X
- NP28LP** Replacement lamp for M323X & M323W
- NP29LP** Replacement lamp for M363X & M363W
- NP30LP** Replacement lamp for M403H, M403X, M333XS and M353WS
- RMT-PJ36** Replacement remote control
- PWRCRD-PJPX** Power cable

Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit [www.necdisplay.com](http://www.necdisplay.com) for details.



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