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
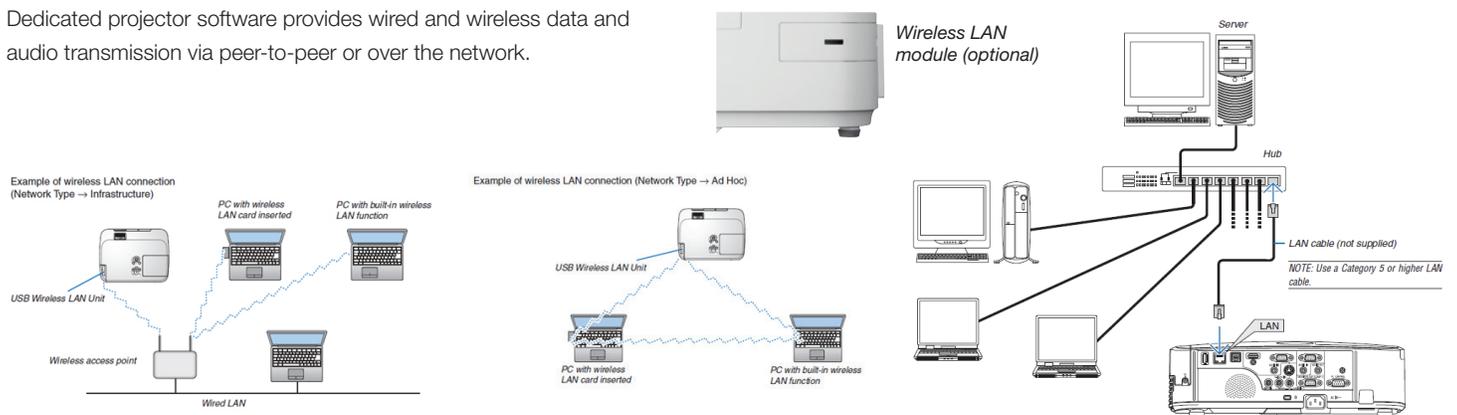- Low power consumption (0.2W in stand-by mode) minimizes energy costs

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.

Wireless LAN module (optional)

Server

Hub

LAN cable (not supplied)

NOTE: Use a Category 5 or higher LAN cable.

LAN

Example of wireless LAN connection (Network Type → Infrastructure)

PC with wireless LAN card inserted
PC with built-in wireless LAN function
USB Wireless LAN Unit
Wireless access point
Wired LAN

Example of wireless LAN connection (Network Type → Ad Hoc)

USB Wireless LAN Unit
PC with wireless LAN card inserted
PC with built-in wireless LAN function

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.

WALL COLOR
- OFF
- BLACKBOARD
- BLACKBOARD (GRAY)
- LIGHT YELLOW
- LIGHT GREEN
- LIGHT BLUE
- SKY BLUE
- LIGHT ROSE
- PINK

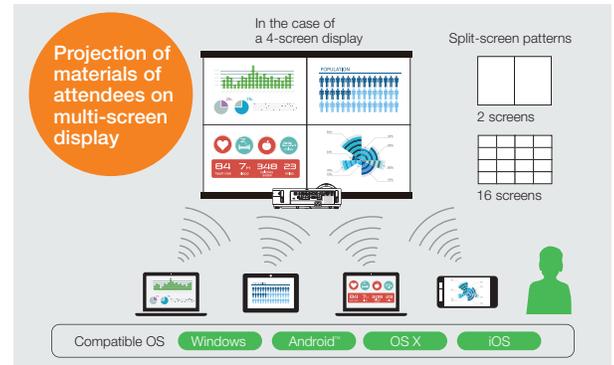*On a green wall...*

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.

Wireless Image Utility

Projection of materials of attendees on multi-screen display

In the case of a 4-screen display

Split-screen patterns

2 screens

16 screens

Compatible OS Windows Android™ OS X iOS

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.

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.

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)

PICTURE BY DLP
TEXAS INSTRUMENTS

DLP SmartSource 3D

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® (0.65")	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)	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	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)			
Sychronization 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 Fahrenheith, 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 dimenstions (W x H x D)		368 x 108 x 292mm (14.5" x 4.3" x 11.5")			368 x 134 x 291mm (14.5" x 5.3" x 11.5")
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 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

NP-M283X	NP-M323X	NP-M363X
NP-M403X	NP-M323W	NP-M363W
NP-M403H	NP-M333XS	NP-M353WS

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
NP03Wi	Interactive module with two pens for M333XS and M353WS
NP02Pi	Interactive stylus pen

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

EcoCare℠   *InstaCare*   CRESTRON   AMX

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