## Specifications

| Model Number | | NP-M403H |
|---|---|---|
| Projection System | | Single DLP® (0.65") |
| Resolution*¹ | | 1,920 × 1,080 (Full HD) |
| Lens | | Manual focus and zoom, Zoom Ratio= 1.7 |
| | F-number / Focal Length | F2.4–3.2 / f = 18.0–30.6 mm |
| Lamp | ECO Mode Off | 270 W |
| | NORMAL ECO | 219 W |
| | ECO | 162 W |
| Light Output*² | ECO Mode Off | 4,000 lumens |
| | NORMAL ECO | Approx. 81% |
| | ECO | Approx. 60% |
| Lamp Life*³ | ECO Mode Off | 3,500 H |
| | NORMAL ECO | 5,000 H |
| | ECO | 8,000 H |
| Contrast Ratio*² (Full White: Full Black) | | 10,000:1 with lamp power control |
| Image Size (Diagonal) | | 30 to 300 inches (16:9) |
| Inputs | | 1 × RGB / Component (D-Sub 15Pin),  2 × HDMI Type A (19Pin, HDMI® Connector) HDCP supported*⁴, 1 × Video (RCA), 1 × (L/R) RCA Audio, 1 × Stereo Mini Audio |
| Outputs | | 1 × RGB (D-Sub 15Pin), 1 × Stereo Mini Audio, 1 × 3D Sync (Mini DIN 3Pin) |
| PC Control | | 1 × PC Control Port (D-Sub 9Pin) |
| Wired LAN Port | | 1 × RJ-45 (10BASE-T / 100BASE-TX) |
| Wireless LAN Port (Optional) | | IEEE 802.11 b/g/n (optional USB wireless LAN unit required) |
| USB Port | | 1 × Type A, 1 × Type B |
| Mic Input | | 1 × Monaural Mini Audio |
| Colour Reproduction | | 10-bit signal processing (1.07 billion colours)  (USB-A, LAN: 16.7 million colours) |
| Compatible Signals*⁵ | | Analogue: VGA / SVGA / XGA / WXGA / Quad-VGA / SXGA / SXGA+ / WXGA+ / WXGA++ / UXGA / WSXGA+ / HD / Full HD / WUXGA / Mac 13" / Mac 16" / Mac 19" / Mac 21" / Mac 23"<br>Component: 480i / 480p / 720p / 1080i (60 Hz), 576i / 576p / 1080i (50 Hz), DVD Progressive (50/60 Hz)<br>Digital: VGA / SVGA / XGA / WXGA / Quad-VGA / SXGA / SXGA+ / WXGA+ / WXGA++ / WSXGA+ / HDTV (1080p) / HDTV (1080i) / HDTV (720p) / HDTV (480p)<br>3D: For PC XGA / 1,280 × 720 / WXGA, for Video SDTV (480i), for HDMI-1.4 a 720p (Frame Packing) / 1080p (Frame Packing) / 1080i (Side by Side (Half)) / 720p (Top and Bottom) / 1080p (Top and Bottom) |
| Scan Rate | | Horizontal: 15 kHz to 100 kHz (RGB: 24 kHz or over)    Vertical: 50 Hz to 120 Hz (HDMI: 50 Hz to 85 Hz) |
| Keystone | Horizontal | Manual   Approx. +/– 25 degrees |
| Correction | Vertical | Manual / Automatic   Approx. +/– 30 degrees |
| Built-in Speaker | | 20 W (monaural) |
| Quietness | ECO Mode Off | 36 dB |
| | NORMAL ECO | 30 dB |
| | ECO | 30 dB |
| Power Requirement | | 100 to 240 V AC, 50 / 60 Hz |
| Input Current | | 3.9 A to 1.6 A |
| Power | ECO Mode Off | 320 W |
| Consumption | NORMAL ECO | 264 W |
| 200–240 V | ECO | 210 W |
| (Typical) | STANDBY (NETWORK) | 2.9 W |
| | STANDBY (NORMAL) | 0.32 W |
| Installation Orientation | | Desktop / Front, Desktop / Rear, Ceiling / Front, Ceiling / Rear |
| Dimensions (W) × (H) × (D) | | 368 mm × 108 mm × 291 mm, 368 mm × 98 mm × 286 mm (not including protrusions) |
| Weight | | 3.7 kg |
| Environmental Considerations | | Operational temperatures : 5°C to 40°C, (ECO mode selected automatically at 35°C to 40°C), 20% to 80% humidity (non-condensing)<br>Storage temperatures: (–10°C to 50°C), 20% to 80% humidity (non-condensing) |

*1: Effective pixels are more than 99.99%.  *2: Compliant with ISO 21118-2012.  *3: The average time span for the brightness of the lamp to be reduced by half; does not refer to the warranty period for the lamp.
*4: HDMI® (Deep Colour, Lip Sync, 3D) with HDCP.  *5: An image with higher or lower resolution than the projector's native resolution will be displayed with Advanced AccuBlend.

### Throw distance and screen size
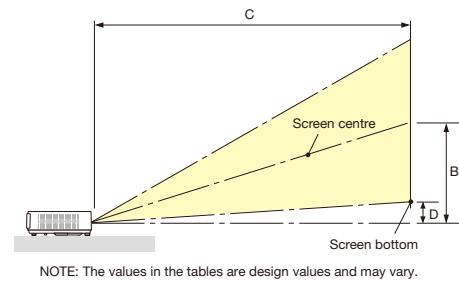


NOTE: The values in the tables are design values and may vary.

#### M403H

| Screen size | | | B | C | | D |
|---|---|---|---|---|---|---|
| Diagonal | Width | Height | | Wide | Tele | |
| inch | mm | mm | mm | mm | mm | mm |
| 30 | 762 | 664 | 374 | 246 | 744 | 1,324 | 60 |
| 40 | 1,016 | 886 | 498 | 329 | 1,017 | 1,796 | 80 |
| 60 | 1,524 | 1,328 | 747 | 493 | 1,562 | 2,742 | 119 |
| 80 | 2,032 | 1,771 | 996 | 657 | 2,107 | 3,687 | 159 |
| 90 | 2,286 | 1,992 | 1,121 | 739 | 2,379 | 4,159 | 179 |
| 100 | 2,540 | 2,214 | 1,245 | 822 | 2,651 | 4,632 | 199 |
| 120 | 3,048 | 2,657 | 1,494 | 986 | 3,196 | 5,577 | 239 |
| 150 | 3,810 | 3,321 | 1,868 | 1,232 | 4,014 | 6,994 | 298 |
| 200 | 5,080 | 4,428 | 2,491 | 1,643 | 5,376 | 9,356 | 398 |
| 300 | 7,620 | 6,641 | 3,736 | 2,464 | 8,101 | 14,082 | 597 |

### Cabinet dimensions



Unit : mm
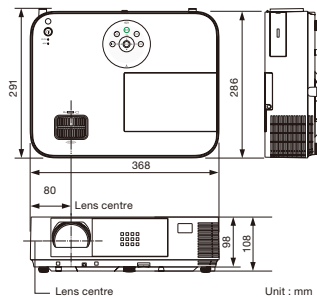
### Remote control

(included accessory)



### Options



Replacement lamp
NP30LP

Wireless LAN unit
NP05LM1-5*
*The last digit may vary
depending on the
country of destination.

Cable cover
NP05CV

Ceiling mount kit
NP12CM

⚠ • Do not stare into the lens during use.
• The projector can be unplugged immediately after it is turned off. Parts of the  projector become heated
during operation. Use caution when picking up the projector immediately after it has been operating.

**NEC Display Solutions, Ltd.**

http://www.nec-display.com/ap/

Cat.No. WDPJ-1507-00012N

## \Orchestrating a brighter world

### NEC

Ideal centrepiece of modern education and meeting areas
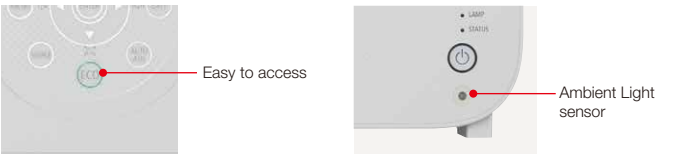Multipurpose projector

# M403H



*M403H

# Enjoy great performance and flexibility with the M series which includes advanced networking features without compromising on quality.

## Wide 1.7 x Optical Zoom

The projector has a 1.7 x optical zoom to cover a wide projection distance, so you can set it up in various locations.
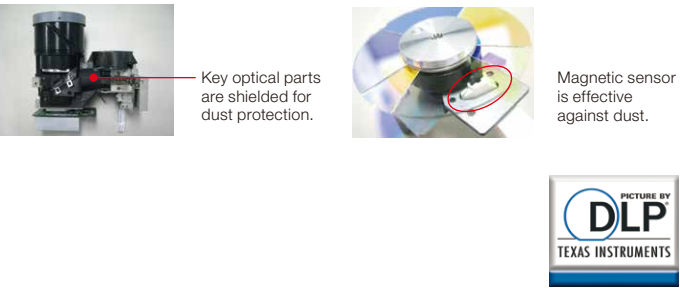
## Impressive Image Quality for Various Applications

The latest Texas Instruments DLP™ engine featuring BrilliantColor™ technology offers great 10,000:1 contrast for high brightness images up to 4,000 lumens at Full-HD, WXGA and XGA native resolutions.

## Advanced ECO Modes

You can select a suitable ECO setting from [AUTO ECO], [NORMAL] and [ECO], including [ROOM LIGHT SENSING], [CONSTANT BRIGHT-NESS] and [AUTO-DIM], depending on your application. This advanced ECO setting allows you to decrease the power consumption and to prolong the lamp life up to 10,000* hours by controlling the lamp brightness.

Easy to access

Ambient Light sensor

## 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.

**PICTURE BY DLP**
**TEXAS INSTRUMENTS**

# Get Connected with a Wide Selection of Inputs and Outputs

## USB Display Function

Using a commercially available USB cable (compatible with USB 2.0 specifications) to connect a computer with the projector allows you to send your computer screen image and sound to the projector without needing traditional computer display cables.

USB cable (not supplied)

## Dual HDMI Inputs

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 1 IN  HDMI 2 IN

**HDMI®**
HIGH-DEFINITION MULTIMEDIA INTERFACE

## USB Viewer

M series projectors can deliver a solution when you would prefer to leave your laptop computer behind for a presentation. 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 storage.

## Microphone Input

Connecting a commercially available dynamic or condenser micro-phone to the MIC input jack allows you to output your mic input from the built-in speaker.
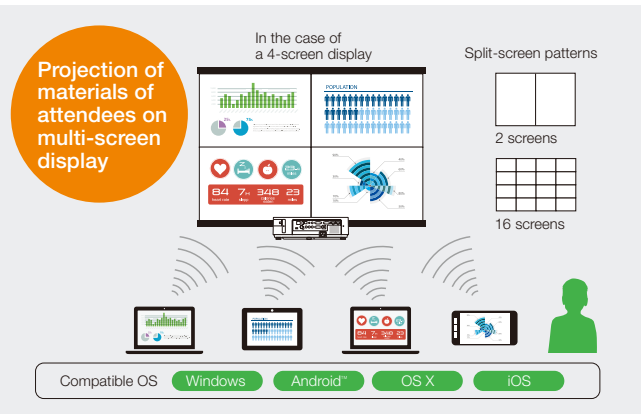
## Variable Audio-out

This function allows you to use the remote control to adjust the volume of self-powered external speakers that are connected to the projector. In network stand-by or sleep mode, the audio-out stays active, allowing the last input used to pass to the self-powered external speakers.

## M403H

**4,000** ANSI lumens **Full-HD** **3.7** kg

# Advanced Networking Capabilities

## 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

## NaViSet Administrator 2

This software is an all-in-one remote support solution that runs from a central location and provides monitor-ing, asset management and control functionality for a majority of NEC display devices and Windows comput-ers. It is ideal for multi-device installations over larger infrastructures.

**NaViSet**
Administrator 2

## Virtual Remote Tool

The utility software Virtual Remote Tool included on the supplied NEC Projector CD-ROM can display the Virtual Remote (or toolbar) on your computer screen. This allows you to turn the projector power on or off and select signals from a computer display cable (VGA), serial cable, or LAN connection.

Virtual Remote
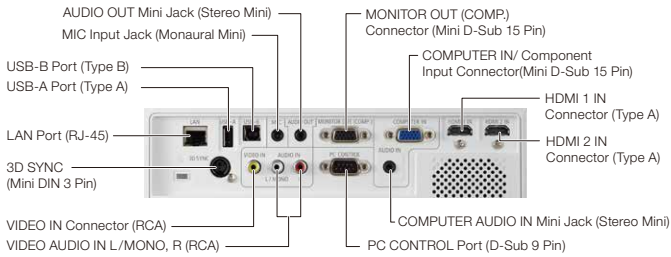
## Other Networking Capabilities

- Simple Access Point
- PC Control Utility 4.0 for Windows
- PC Control Utility 5.0 for Mac
- CRESTRON ROOMVIEW™ with emergency function
- AMX BEACON
- HTTP server
- PJLink

# Other Useful Features and Functions

- Powerful 20-watt speaker provides volume needed for large rooms
- Automatic vertical keystone correction technology instantly projects a square image even when the projector is set up at a steep offset angle to the screen
- Auto power-on via the RGB (15-pin) input connector when a signal is detected from a computer
- Sleep timer can be set to automatically turn off the projector at set countdown times
- Power management automatically turns off the projector when an incoming signal is not detected from any of the inputs
- No-signal guidance for easy cable connections Intuitive plug and play setup and operation

- PC-based geometric correction and 3D Reform™ function
- DLP™ 3D Ready

**3D READY**

- Includes a remote with the control ID registration function, which allows operation of multiple projectors with a single remote
- Wall colour correction for vivid images even without a screen
- DICOM simulation
- Security bar / Kensington lock / Control panel lock and password lock
- Low power consumption (0.32 W in 240 V AC stand-by mode) minimizes energy costs
- The carbon metre lets you check the amount of $CO_2$ you reduced by using ECO Mode

## Terminals

AUDIO OUT Mini Jack (Stereo Mini)
MIC Input Jack (Monaural Mini)
MONITOR OUT (COMP.) Connector (Mini D-Sub 15 Pin)
USB-B Port (Type B)
USB-A Port (Type A)
COMPUTER IN/ Component Input Connector(Mini D-Sub 15 Pin)
HDMI 1 IN Connector (Type A)
LAN Port (RJ-45)
HDMI 2 IN Connector (Type A)
3D SYNC (Mini DIN 3 Pin)
VIDEO IN Connector (RCA)
COMPUTER AUDIO IN Mini Jack (Stereo Mini)
VIDEO AUDIO IN L /MONO, R (RCA)
PC CONTROL Port (D-Sub 9 Pin)