NEC

NEC Multi-Purpose ECO Projectors

M SERIES

STANDARD | WIDE | SHORT THROW EDUCATION AND BUSINESS PROJECTION

ECO INNOVATION

ECO PRODUCTIVITY

M SERIES

RANGE VARIATIONS

M SERIES MODELS	M230X	M260X	M300X	M260W	M350X	M300W	M420X	M260XS	M300XS	M260WS	M300WS	M350XS
Brightness (ANSI Lumen)	2300	2600	3000	2600	3500	3000	4200	2600	3000	2600	3000	3500
Resolution	XGA			WXGA	XGA	WXGA	XGA	XGA		WXGA		XGA
Throw Ratio	1.3-2.2:1							0.47:1				
Eco 2 Mode	NO	YES	NO									
Lamp (Wattage)	180				230		260	180	230		260	
Lamp Hours	5000/6000				4000/5000		3500/4000	5000/6000	4000/5000		3500/4000	
Noise Level	27/34				29/35		31/37	27/34	29/35		31/37	
Power Consumption (Watts)												
Normal	239				302		343	239	302		343	
Eco	193				236		264	193	236		264	
Network Standby	8				8		8	8	8		8	
Standby	0.4				0.4		0.4	0.4	0.4		0.4	
Weight (kg)	2.9				2.99			4.0				

ECO INNOVATION

CERTIFIED MODELS

M230X | M260X | M300X
M350X | M260W | M300W
M260XS | M300XS | M260WS
M300WS | M350XS

MULTI-PURPOSE PROJECTION

Enjoy great performance and flexibility, with the confidence you are saving the environment and your budget. The new M Series by NEC include advanced Eco features without compromising on quality and flexibility.

With an impressive range of standard, wide and short throw models and various brightness levels, suitable for a wide range of projection applications, M Series projectors incorporate new NEC innovations such as 75% AV Mute, Dynamic Eco Mode and longer lamp life support as well as all the advanced connectivity and functionality you can expect for today and tomorrow.

The entry level M260X is particularly suited to classrooms and small to medium sized meeting rooms, whilst the high brightness M420X with it's 4200 ANSI Lumen output is ideal for even mid to large size conference rooms. The wide models are ideal for displaying wider powerpoint presentations and today's video media in its native format and the short throw models provide a flexible value short throw solution with virtually no glare and shadow, ideal for classroom environments.

NEC M Series like other NEC Projector ranges are also available with special warranty packages and mounting solutions dedicated to education.

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M SERIES | DESIGN CONCEPT

Standard, Short and Wide. The ideal Eco Education and Corporate Projection Range

Simplicity and flexibility are at the heart of the M Series design concept. The wide lens throw ratio, advanced range of connectivity options, simple to use remote and automated set up features mean that fast, accurate projection is available almost instantly and your presented materials for the classroom or corporate meeting rooms are not delayed.

The M Series range include a host of improvements over our previous models, including 2000:1 contrast with Auto-Iris function on all models, faster start-up in about 3 sec, a USB Viewer with JPEG support, lower noise levels, 27 OSD languages, 10W speaker (instead of 7W), built in test pattern for short throw set up, logo replacement via Virtual Remote, Image transfer via network, Geometric Correction with PC software and DICOM Simulation.

Maintenance and servicing are easier and less frequent, with the wide throw range that makes professional installation simple and the user centric design that matches lamp and filter life at up to 6000 hours. Filter as well as lamp are also easily accessible, even when the projector is ceiling mounted.

TCO Certification of all M Series models is your guarantee of balanced ECO performance and image quality, with power saving to reduce energy costs and a lower total cost of ownership together and confidence that the NEC 'Green Vision' commitment to ECO sustainability and safer productivity has been at the heart of this product's development. In addition TCO Certification is your guarantee that the image you see meets stringent performance criteria.

AN INTUITIVE DESIGN THAT PUTS THE USER FIRST

Large 1.7 x Optical Zoom means Flexible Installation without the need to replace existing mount in most locations

Minimised Cost of Ownership with Less Maintenance, Less Installation and Lower Running Costs

Innovative New Intuitive Eco Functions

Comprehensive Future Ready Connectivity

User Centric Design Concept

M SERIES | USER PRIORITISATION

Intuitive User Driven Functionality

At the heart of the M Series concept is flexibility and we have taken major steps to bring the control of the projector completely within the hands of the presenter whether working via a connected notebook, a local area network or even an installed USB device.

This user centric approach is also applied to the intuitive remote and clear easily accessible surface control button arrangement and ECO innovations such as 75% AV Mute that can be operated with a simple slide of the front cover or pressing the convenient AV Mute button.

Features such as front ventilation to direct heat output away from attendees, Direct Power On (AC & Computer input) capability, Auto vertical keystone function, 27 OSD languages, an on screen connection guide if no signal is received, USB display function for future-proof connectivity, Viewer function for PC-less presentation and remote mouse function for presenting with projector remote all help assured faster more focussed presentation without setup issues.

M Series projectors let you concentrate on captivating your viewers attention without distraction.

INTUITIVE DESIGN: 75% AV MUTE SLIDE FEATURE

USERS BENEFIT FROM THE M SERIES INTUITIVE DESIGN

Flexibility and user convenience is at the core of the M Series design

For installation and maintenance, the large 1.7 x optical zoom means flexible installation without the need to replace existing mount in most locations, a supplied Test Pattern for easy set up of M Series Short Throw Projectors, central network control and matching of Lamp and Filter Life all add to more convenience and lower service costs

All important functions are easily accessible on the remote or the projector control panel and there are many new advanced features such as front ventilation to direct heat away from participants, a simple slide cover that activates 75% lamp reduction with instant restart on reopening and rapid cool down and direct shut off

NEC take the user centric approach even further with free included software such as virtual remote and geometric control

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USER CENTRIC | INSTALLATION AND MAINTENANCE

FLEXIBLE INSTALLATION

Traditionally, replacing a projector could all too often mean changing or repositioning the mount as throw ratios differ with the added cost of using an installation contractor. The wide 1.7x lens ratio of the M Series projectors mean they can be adjusted to fit most mounting locations without the need for extra installation services, in addition this means projectors can be easily moved between locations in a campus or organisation with only the need to make adjustments to the throw.

USER-FRIENDLY IMAGE SETUP

Like most NEC projectors the M Series includes a series of image set up functions, including automatic vertical image correction and luminance adjustment, all designed to deliver the perfect image more quickly.

SHORT THROW TEST IMAGE

Built-in test pattern makes short throw image alignment simple

A new addition with M Series projectors is a test pattern that will prove extremely useful in the process of fine geometric aligning a short throw projection image on a whiteboard or screen.

PC BASED GEOMETRIC CONTROL

With our Geometric Control Software detailed adjustment of an image can now also be made across a network for fine adjustment of inaccessible projectors.

SIMPLE PROJECTION MAINTENANCE AND CONTROL

MATCHED SERVICE INTERVALS

With M Series not only can lamp and filter replacement intervals be as long as 6000 usage hours between visits, but we also matched lamp life to filter life so ordinarily both are exchanged on the same visit. Reduced service visits means reduced service costs.

An easy access side cover allows for quick and easy filter replacement

MAINTENANCE VIA NETWORK

The projectors can be directly controlled and supervised by a PC over a LAN or WLAN and with PC control utility Pro. This makes it possible, for example, for centralised switching on and off, which is particularly advantageous when multiple devices have been installed. Maintenance of the devices can also be performed faster and with more precision, since status, running times, lamp lifetimes, use of filters etc. of the individual devices can be called up at any time.

An integrated scheduler and a warning-alert function facilitate the easy planning of projector service times.

Input sources for any projectors on the network can also be changed remotely and controlled image adjustments can be made for projectors in remote or inaccessible mounting positions.

MAINTENANCE VIA THE WEB

Any location remote management is also possible with the full PC Control system operational over the web. This is particularly useful where site maintenance is outsourced to third party maintainers or convenient maintenance is required where access to the local network is not possible.

NO SIGNAL GUIDANCE

Where no signal is received a simple on screen message and instruction is displayed

For less advanced users, a simple instruction is displayed when no signal cable has been connected showing the location that the cable should be connected to the rear of the projector to start up the projector.
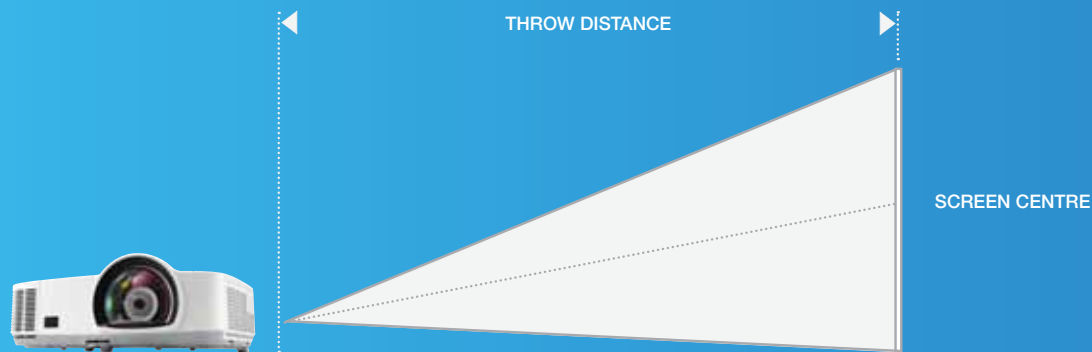
ADVANCED SECURITY TO TRUST

Administrators keen to consider security of the projectors in the field, will value the security features included with the M Series such as Kensington Security Slot, Customer logo and password upload utility, a password security system, keypad lock and security bar.

FLEXIBLE INSTALLATION | FOR EDUCATION AND BUSINESS

The M Series offers a wide choice, with 12 models available, covering various brightness levels, standard
and short throwing distances as well as different native resolutions.

THROW DISTANCES

SCREEN OR BOARD SIZE		STANDARD MIN (M)	MAX (M)	WIDE MIN (M)	MAX (M)	SCREEN OR BOARD SIZE		SHORT XGA	SHORT WXGA
25"	635MM	0.65	1.11	0.69	1.17	60"	1524MM	0.573	0.569
30"	762MM	0.79	1.34	0.83	1.42	72"	1829MM	0.700	0.611
40"	1016MM	1.07	1.80	1.13	1.90	80"	2032MM	0.784	0.723
60"	1524MM	1.62	2.72	1.71	2.88	84"	2134MM	0.827	0.835
80"	2032MM	2.18	3.64	2.30	3.85	90"	2286MM	0.890	0.947
100"	2540MM	2.73	4.56	2.88	4.82	100"	2540MM	0.996	1.059
120"	3048MM	3.29	5.49	3.47	5.80	110"	2794MM	1.101	1.104
150"	3810MM	4.12	6.87	4.35	7.26				
180"	4572MM	4.96	8.25	5.23	8.72				
200"	5080MM	5.51	9.17	5.81	9.69				
240"	6096MM	6.62	11.02	6.99	11.64				
300"	7620MM	8.29	13.78	8.74	14.56				

THROW DISTANCE

SCREEN CENTRE

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USER READY | SMART PRESENTATION FEATURES

For convenient no cable connection, add the optional NEC USB WiFi Connector.

Auto Vertical Keystone Correction adjusts the keystone automatically.

GENUINE WIRE FREE PRESENTATION

With an installed USB WiFi device connected to the same wireless network as your host computer, projection without cables is a reality.

NEVER AGAIN WASTE TIME SEARCHING FOR YOUR REMOTE

The unique NEC Virtual Remote Software, supplied with all NEC M Series loads on your host computer and allows complete control of the Projector via an on screen remote control console. All you need for full remote functionality is a VGA cable or network connection between your computer and the projector.

Especially useful to the classroom environment where lost remote controls between class changes are common. Control your projector this way via VGA or network.

Included with every M Series projector is a free Virtual Remote Software utility that means you can simply control your projector from your presentation device

QUICK START / DIRECT POWER OFF

A particular highlight when the projector is being used for portable applications is the quick start function of the M Series, which allows the projector to be fully operational in only 3 seconds. Once a presentation has been successfully made and the projector switched off, the power lead can then also be immediately removed. The quick start/quick power-off function allows the device to be immediately packed away and then transported to its next deployment location.

M Series Projectors can be turned off even during a presentation using the on-off switch on the projector, or directly at a multiple power outlet without seriously harming the lamp life.

FRONT VENTILATION

Ventilation of the M Series has also been carefully considered with careful attention to filter positioning and access for in-flowing air, but we have also considered the importance of directing hot out-flowing air away from users. For this reason the M Series uniquely has external ventilation at the front where there can be by the nature of projection no presenter or viewer.

AUTO AND MANUAL IMAGE CORRECTION FEATURES

Automatic keystone correction automatically adjusts vertical distortions by up to +/- 30°. A built-in sensor recognises any vertical distortion and reshapes the picture into the correct, rectangular format. Keystone correction can also be set manually or using the projector's remote control. Other functions allow brightness settings for whiteboards and compensation for wall colours.

INTUITIVE OSD WITH 27 LANGUAGES

The On Screen Display (OSD) of the M series is particularly user-friendly, with the chosen main and sub-categories highlighted, as appropriate, in yellow. The clear structure allows intuitive, efficient and simple navigation through the On Screen Display and the settings of the desired functions. Almost every language you could ever need is covered so the On Screen Display menus take on a universal feel.

EASY OPERATION REMOTE CONTROL

Included within the overall package is a remote control unit that allows you to easily and conveniently operate all the projector's functions and settings. If the projector is connected via USB to the computer, the remote control unit can also be used, as required, to perform all the functions of a computer mouse.
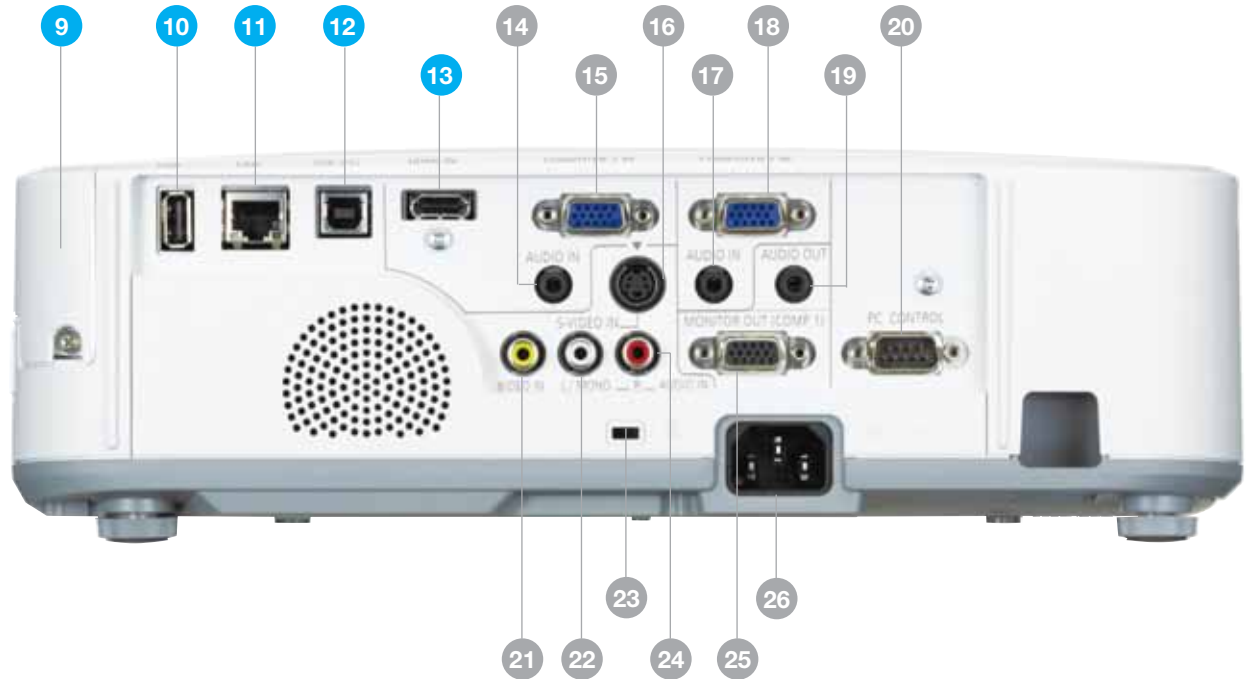
M SERIES USER CONTROLS

The intuitively placed user controls ensure that all the important functionality of your projector is instantly adjustable at the touch of a finger.

BUTTON DESIGNATIONS

1. FOCUS ADJUSTMENT
2. ZOOM ADJUSTMENT
3. AV MUTE SLIDE COVER
4. MENU BUTTONS
5. INPUT SOURCE SELECT
6. POWER ON / OFF
7. AUTOMATIC ADJUSTMENT
8. ECO MODE BUTTON

ADVANCED CONNECTIVITY

Both standard and short throw
M Series projectors include similar
comprehensive connectors.

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CONNECTOR DESIGNATIONS

Enjoy peace of mind with all the latest connection terminals. NEC multi-purpose M Series Projectors are designed with flexibility in mind whether you need to move the projector between different projection environments or change between projection sources.

Armed with various USB Type A and B 2.0 connectors, HDMI and RJ45 you can connect to most devices and play almost any content from presentations on a USB stick to the latest Blu-Ray movies.

Networked content management is also simple with the included NEC PC Control Utility that allows the control of multiple projectors within a network or via a serial interface.

9. USB WIFI SOCKET

Add the optional NEC USB WiFi Connector for instant WiFi connectivity.

NEC USB WIFI CONNECTOR

10. USB TYPE A 2.0 CONNECTORS

M Series Projectors have two additional USB Type A 2.0 connectors. One is designed for adding an optional USB WLAN device for instance network functionality across site, whilst the second is ideal for instance for direct viewing JPEG files on a USB memory stick.

11. LAN CONNECTOR

An RJ45 port allows connection to a local area network or control of the projector via ethernet cable.

12. USB TYPE B 2.0 CONNECTOR

This 'Type B' connector delivers power in addition to carrying data, it therefore is able to operate with almost all USB devices, in particular it provides;

• Future proof connectivity with the ability to display your PC screen on the projector

• The option to use the projector remote control to manage your presentation and direct your mouse

• The power to enjoy instant screen display without activating an external monitor output (e.g. by pressing the function and F5 keys). This operation is simple, just connect the USB cable, (maximum 5 metres) and the NEC image Express Lite software is automatically launched via the USB cable (this is achieved without the need for administration rights in Windows 7)

13. HDMI

HDMI is the high definition connection of the future, it supports, on a single cable, any uncompressed TV or PC video format, including standard, enhanced, and high-definition video; up to 8 channels of compressed or uncompressed digital audio; and a Consumer Electronics Control (CEC) connection.

HDMI cables allow longer distances between the host and the projector.

For instance 15 metres is achievable which allows custom location of the projector and the laptop or other player in almost any location in a standard meeting room.

HDMI provides the advantage that multimedia sources such as DVDs, Blu-Ray disks, set-top boxes and games consoles can all be connected without loss of quality at source.

OTHER CONNECTORS

All M Series projectors also include the following additional connectors:

14. AUDIO IN
15. COMPUTER 2 IN
16. S-VIDEO IN
17. AUDIO IN (2)
18. COMPUTER 1 IN
19. AUDIO OUT
20. RS232 CONNECTOR
21. VIDEO IN
22. AUDIO IN LEFT CHANNEL
23. KENSINGTON SECURITY SLOT
24. AUDIO IN RIGHT CHANNEL
25. MONITOR OUT
26. AC POWER IN

M SERIES | COST SAVING INNOVATION

Saving Your Budget, Whilst Saving the Environment

Loaded with innovations that increase productivity, reduce maintenance and installation costs and reduce power consumption, these projectors are ideal for customers working on annual expenditure budgets.

M Series savings include:

LOWER INSTALLATION AND SERVICING COSTS

- The large throw ratio means a greater range of installation options and less need for moving or installing new mounts

- The wide range of connectors means in most instances M Series projectors can connect to your existing services without the need to run additional cables

- Longer lamp and filter replacement times, as long as 6000 hours mean less frequent servicing costs and in addition we matched the filter and lamp life so one visit maintenance is standard

- The user centric design includes easy access to all serviceable components

- Network control software allows for easier and more efficient managed maintenance

LESS REDUNDANT MANAGEMENT AND ATTENDEE TIME

Employee and opportunity times are key facets of your business that all too often in the past can be detrimentally affected waiting for your presentations to appear on screen. M Series projectors carry many functions from quick direct start to automated image adjustment to ensure that any break in presentations are limited.

ENERGY SAVING INNOVATION

With ever increasing energy costs, power saving features deliver genuine financial savings that can be accurately measured.

M Series energy saving features include:

- 75% AV Mute slide cover

- Auto ECO Mode

- Low Power Consumption

The example below illustrates that over a year the choice of a NEC ECO M Series projector over a standard projector can result in sizeable savings that become considerably greater when a number of projectors are installed in one location.

The M Series standard range (above) and in particular the 'S' short throw models are the ideal projection solution for the classroom combining eco features and affordable high quality output with simple functionality

PROJECTOR COMPARISON NEW ECO v OLD NON-ECO	PRICE Ca	WATTAGE	LAMP COST	LAMP LIFE	FILTER LIFE	5 YEAR COST
ECO MODEL (ECO MODE 1)	700	193	250	6000 Hr	6000 Hr	**1252 Euro**
CONVENTIONAL MODEL	650	250	250	4000 Hr	500 Hr	1678 Euro

TCO 25% SAVING

ASSUMPTIONS:

Operating 1,200 hours per year
Cost of Lamp Exchange 12 Euro
Cost of Filter Cleaning 12 Euro
Energy Cost/ KiloWatt Hour 0.2 Euro
AV Mute and Dynamic Eco Mode not considered
Warranty costs not considered

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TCO | INDEPENDENT CERTIFIED ASSURANCE

MORE THAN AN ECO LABEL

TCO Certified goes beyond green by combining features such as high performance and ergonomic design with one of the toughest environmental requirements on the market. TCO Certified makes it easy to choose equipment that is designed for the benefit of both the user and the environment.

TCO CERTIFIED PROJECTORS

A TCO-labelled projector is certified to reproduce excellent images to a maximum projected image size, the TCO Image Size. In addition, the projector complies with stringent environmental requirements such as low energy consumption and minimal levels of environmentally hazardous substances.

There is also an 'ECO Mode' requirement, so the projector can be set to lower luminosities, thus reducing noise, energy consumption and increasing the life of the bulb. The label also requires manufacturers to prove they are working pro-actively on environmental improvements to the production process and social responsibility issues.

NEC M SERIES TCO CERTIFICATION

As a manufacturer, NEC are committed to TCO Certification where practicable throughout our projector and desktop display ranges.

The NEC NP215 and NP410 Projectors were the first ever worldwide certified TCO projectors and the M Series follows that standard with the following models achieving already achieving certification with more to follow.

TCO STATUS	MODELS
CERTIFIED	M230X	M260X	M300X	M350X	M260W M300W	M260XS	M300XS	M260WS M300WS	M350XS

WHAT TCO MEANS

TCO Certification means that the following features of our products have been independently certified by a name you can trust.

ENVIRONMENTAL FEATURES EXAMPLES	
Production	Environmental management system Brand owner demonstrates corporate social responsibility Limits on hazardous materials - for restrictions on heavy metals and flame retardants Packaging designed for recycling
Usage	Energy consumption – Current Energy Star compliant Product Lifetime – warranty and availability of spare parts
End of Life	Designed for recycling, take-back options
USABILITY FEATURES EXAMPLES	
TCO Image Size rating	Ensuring optimal image performance to match projected image size Easy to choose a projector which suits existing screens or rooms
Calibrated colour temperature	Correct colour temperature provides true-to-life colours
Large colour range	Accurate reproduction of a large number of colours
Even colours	No patches of abnormal coloration on the image
Even luminance	No patches of abnormal luminance on the image
High contrast and black level	Crucial for showing wide variety of detail in the image and dynamics in dark scenes
Low noise levels	Low noise relative to image size
Video and data inputs	Option to connect video and data sources
Low electric and electromagnetic fields	Users are exposed to low electrical and electromagnetic fields

POWER **25%** SAVING

DYNAMIC ECO MODE 25% LAMP POWER SAVING
Lamp power is reduced in dark areas without noticeable difference to the displayed image

POWER **75%** SAVING

AV MUTE SLIDE COVER 75% LAMP POWER SAVING

GREEN VISION | ECO DISPLAY SOLUTIONS

NEC was one of the first major manufacturers to seriously adopt ecological policies and we quickly incorporate eco values into our new ranges. Simply speaking, we believe that the new M Series projectors are probably our greenest ever projectors.

The award winning NEC 'Green Vision' initiative concentrates on delivering better productivity with increased sustainability in terms of product performance and reduced impact on the environment. 'Green Vision' means continually striving for improvement and delivering ECO Solutions that are simple to operate, deliver real savings to the user and the environment and do not compromise performance.

ECO INNOVATION IN PROJECTION

Since our introduction of ECO Modes to our projectors, the concept has been widely accepted by the industry, but during 2010/2011 we are releasing new ECO features to our projectors which are both simple to operate and capable of generating major savings.

1. CARBON METER MOTIVATING ECO OPERATION

When you first turn on your projector a message appears reminding the user that using eco mode will lower their carbon footprint and extend their lamp life. The integrated Carbon Savings Meter also keeps a cumulative savings total visible via the OSD of carbon savings made since the projector was installed.

2. NEW DYNAMIC ECO MODE

The M Series feature "the world's first Dynamic Eco mode on projectors", which automatically adjusts the luminance of the lamp to match the content being presented, allowing "optimum brightness and maximum energy efficiency at all times". It operates by reducing the lamp power by as much as 25% where a large part of the image is dark and does not require full lamp power.

3. NEW 75% AV MUTE FEATURE

Another new ECO Innovation provides instant lamp power reduction by 75% achieved by simply sliding the front cover across when there is a break in projection. The image instantly restarts when the cover is re-opened.

4. NEW 50% ECO MODE 2

In addition, some M Series models have two Eco mode levels, with the new second level being designed specifically for whiteboard applications.

M SERIES POWER SAVING MODES Power Consumption (Watts)	M230X	M260X	M300X	M260W	M350X	M300W	M420X	M260XS	M300XS	M260WS	M300WS	M350XS
Normal		239				302	343	239		302		343
Eco Mode 1		**193**				**236**	**264**	**193**		**236**		**264**
Network Standby		8				8	8	8		8		8
Standby		0.4				0.4	0.4	0.4		0.4		0.4

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M SERIES ECO PROJECTION BENEFITS

20% Longer Lamp Life (up to 6000 Hours) and 4 x Longer Filter Life (6000)

Dynamic Intelligent Eco Mode and 50% Eco Mode 2*

Easy Slide 75% AV Mute Feature

Lower Power Requirement 239W Normal Mode, 193 Eco Mode 1 for 3000 ANSI and in Standby (0.4W)

Intuitive ECO Buttons on Remote Control and Projector and Auto Power Off if No Signal is Connected

Integrated and Remote Scheduling and Carbon Savings Meter

Only Recycled Carbon, Less Packaging, Instruction Manual Supplied Digitally

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* Some models only, differs subject to circumstances.

M SERIES

STANDARD LCD MODELS

LAMP CODE	COMPATIBLE MODELS
NP15LP 180W	M230X M260X M300X M260W
NP16LP 230W	M300W M350X
NP17LP 260W	M420X

EDUCATION SOLUTIONS

Complimentary lamp warranty extensions are available for Education customers

VISIT: WWW.EDUCATION-NEC.COM

M SERIES STANDARD MODELS	M230X	M260X	M300X	M350X	M420X	M260W	M300W
Resolution	XGA					WXGA	
Brightness ANSI Lumen	2300	2600	3000	3500	4200	2600	3000
Lamp Power	180W			230W	260W	180W	230W
Contrast Ratio	2000:1						
Lamp Hours Normal/ECO	5000/6000			4000/5000	3500/4000	5000/6000	4000/5000
Filter Hours Normal/ECO	5000/6000						
Lens Zoom Throw Ratio	Manual Zoom 1.7x/(1.3-2.2):1						
Noise Level (Normal/ ECO) dB	34/27			35/29		34/27	35/29
Auto Vertical Keystone Adjustment	Yes, +/- 30°						
HDMI Input	Yes						
RJ45 (CTL/JPEG)	Yes						
Wireless LAN (Option)	Optional, 11b/g/n						
USB Display/ Viewer	Yes						
Component Input/Output	2/1						
Video/S-Video Input	1/1						
Audio Input/Output/Microphone	3/1/No						
Speaker	10W Mono						
Weight	2.9kg		2.99kg			2.9kg	2.99kg

INCLUDED WITH SELECTED M SERIES MODELS

CARRY BAG

REMOTE CONTROL

INCLUDED WITH: M230X, M260X, M300X, M350X, M260W and M300W, otherwise optional.

ALL M SERIES PROJECTORS COMMON SPECIFICATIONS

Lens — **STANDARD MODELS:** F= 1.7–2.1, f= 17.5–29.0 mm, **SHORT THROW MODELS:** F= 2.0, f= 00 mm

Projection Distance (M) — **STANDARD MODELS:** 0.6 – 13.8, **STANDARD WIDE MODELS:** 0.7 - 14.7, **SHORT THROW MODELS:** 0.6 - 1.1

Supported Resolutions — 1360 x 768 (WXGA); 1366 x 768 (WXGA); 1600 x 900 (WXGA++); 1440 x 900 (WXGA+); 1680 x 1050 (WSXGA+); 1440 x 900 (WXGA+); 1152 x 870 (MAC 21"); 800 x 600 (SVGA); 832 x 624 (MAC 16"); 720 x 576 SDTV 480p/480i; 720 x 480 SDTV 576p/576i; 1280 x 1024 (SXGA); 720 x 576 (DVD progressive); 720 x 480 (SDTV 480p); 640 x 480 (VGA/MAC 13"); 832 x 624 (MAC 16"); 800 x 600 (SVGA); 1600 x 900 (WXGA++); 1280 x 1024 (MAC 23"); 1280 x 1024 (SXGA); 1280 x 720 (HDTV 720p); 1280 x 768 (WXGA); 1280 x 800 (WXGA); 1280 x 960 (SXGA); 1400 x 1050 (SXGA+); 1024 x 768 (XGA); 1152 x 864 (XGA); 1920 x 1080 (HDTV 1080i/60); HDTV 1080i/50); 1600 x 1200 (UXGA); 1280 x 1024 (Maximum resolution of digital input);

Horizontal Frequency — 15–100 kHz (RGB: 24 kHz– 100 kHz); Vertical: 50 – 120Hz

Video Signals — PAL; PAL60; NTSC; SECAM; NTSC 4.43; PAL-N; PAL-M

Remote Control — Source Select; Auto Adjust; Aspect Ratio; Picture Adjust; Audio Control; Picture Mode; Freeze; Help Eco Mode; Digital Zoom; Presentation and Mouse Control; AV Mute; ID set

Connectors — **RGB IN:** 2 x Mini D-sub 15-pin, compatible to component (YPbPr); **RGB OUT:** 1 x Mini D-sub 15-pin, **VIDEO:** 1 x RCA, **HDMI:** 1 x HDMI® (Deep Color, Lip sync), **S-VIDEO** 1 x Mini DIN 4-pin, **AUDIO:** Input: 2 x 3.5 mm Stereo Mini Jack; Input: 2 x RCA Stereo; Output: 1 x 3.5 mm Stereo Mini Jack (variable), **PC CONTROL:** 1 x D-Sub 9 pin (RS-232) (male), **LAN:** 1 x RJ45, **USB:** 2 x Type A (USB 2.0 high speed); 1 x Type B

Environmental — Operating Temperature [5 to 40°C]; Operating Humidity [20 to 80%]; Storage Temperature [-10 to 50°C]; Storage Humidity [20 to 80%] CE; TÜV GS; ERP; RoHS; Gost-R **PROJECTOR:** 3 Years pan-European Service, **LAMP:** 6 Months; 1000 Hours

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SHORT THROW LCD MODELS

M SERIES SHORT THROW MODELS	M260XS	M300XS	M350XS	M260WS	M300WS
Resolution	XGA			WXGA	
Brightness ANSI Lumen	2600	3000	3500	2600	3000
Lamp Power	180W	230W	260W	230W	260W
Contrast Ratio	2000:1				
Lamp Hours Normal/ECO	5000/6000	4000/5000	3500/4000	4000/5000	3500/4000
Filter Hours Normal/ECO	5000/6000				
Lens Zoom Throw Ratio	Digital Zoom Fixed/0.47				
Noise Level (Normal/ ECO) dB	35/29	35/29	31/37	35/29	31/37
Auto Vertical Keystone Adjustment	Yes, +/20°				
HDMI Input	Yes				
RJ45 (CTL/JPEG)	Yes				
Wireless LAN (Option)	Optional, 11b/g/n				
USB Display/ Viewer	Yes				
Component Input/Output	2/1				
Video/S-Video Input	1/1				
Audio Input/Output/Microphone	3/1/No				
Speaker	10W Mono				
Weight	4kg				

LAMP CODE	COMPATIBLE MODELS
NP15LP 180W	M260XS
NP16LP 230W	M260WS M300XS
NP17LP 260W	M300WS M350XS

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NP02WK Plus NP02HW
(Motorised Vertical Adjustment)

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(Motorised Vertical Adjustment)

NP02WK
M Series Bar Mount

NP02HW
Excludes Bar Mount

NP02HM
Excludes Bar Mount

LAMPS

NP15LP | NP16LP | NP17LP

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