M Short Throw Series

M300XS and M300WS digital projectors

Easy to use and at the right price, M Short Throw 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 (2000:1) enhances your image
° With XGA and WXGA native resolutions, high brightness up to 3000 lumens and patented NEC technologies, M Short Throw Series projectors display impressive image quality

Virtual Remote™

(DDC/CI) over the VGA cable to control the projector directly from a computer without the need for additional control cables.

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

Built-in wall color correction presets 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 Short Throw Series projectors vs. standard projectors

Short throw creates a 110” diagonal image from 3 feet, 6 inches, eliminating shadows on the screen along with projected light in the presenter’s eyes created by traditional front projection systems.
DESIGNED WITH THE ENVIRONMENT IN MIND

- **Extended lamp life with ECO Mode™ technology** increases lamp life up to 5000 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.

**5000-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.

SOFTWARE FEATURES

**Geometric Correction**

Projecting an image isn’t confined to a standard flat screen or wall with the NEC M Short Throw Series. Geometric correction allows these models to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.

**DICOM SIM**

DICOM Simulation enables users in medical environments to display accurate diagnostic images.

**Cornerstone**

Enhanced keystone correction allows for horizontal, vertical and diagonal image correction for aligned images even when the projector is set up at an angle to the screen.
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 Short Throw 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.

**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 Short Throw 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 Short Throw Series. Connect your laptop or PC directly to the projector using the USB port and a standard USB cable.

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.

**Image Express Lite**

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

**Wireless LAN module** (optional)
Specifications for M300XS & M300WS

**OPTICAL**
- Display Technology: M300XS: 0.63" LCD with MLA
- Native Resolution: M300XS: 0.59" LCD with MLA
- M300WS: XGA 1024 x 768
- M300WS: WXGA 1280 x 800
- UXGA 1600 x 1200
- Maximum: 2000:1
- Light Output (lumens): M300XS: 2300W AC / 170W eco / 140W eco2
- M300WS: 2600W AC / 195W eco
- Lamp Life (up to): M300XS: 4000 hours normal / 5000 hours eco
- M300WS: 3000 hours normal / 3500 hours eco
- Screen Size (diagonal): M300XS: 60 - 110 in. / 1.52 - 2.79m
- M300WS: 56.2 - 104 in. / 1.47 - 2.64m
- Throw Ratio: 0.47:1
- Projection Distance: M300XS: 1.9 - 3.6 ft / 0.57 - 1.1m
- M300WS: 1.8 - 3.6 ft / 0.57 - 1.1m
- Projection Angle: 37° - 38.6°
- Lens: 1.2
- Zoom: Manual
- Focus: P. F. 1.6
- Keystone Correction: ± 20°

**SIGNAL COMPATIBILITY/CONNECTIVITY**
- Scan Rate: Horizontal 15 - 100 kHz / Vertical 50 - 120 Hz
- Supported Video Standards: NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM
- HD Video Signal Compatibility: 1080i, 1080p, 720p, 576p, 576i, 480p, 480i, Y/Cb/Cr component (with optional adapter - ADP-Y2E)
- HDMI Signal Compatibility: VGA, SVG, XGA, WXGA, SXGA, 480p, 576p, 720p, 1080i, 1080p
- VGA, SVG, XGA, SXGA, +, UXGA
- Yes
- Input/Output Terminals: Viewport 1 (analog)
- RGB2 (analog)
- RGB3 (digital)
- RGB4 (digital)
- USB A Type
- Video 1
- Video 2
- Video 3
- S-Video
- Audio 1
- Audio 2
- Audio 3
- Audio Out
- Monitor Out
- Audio Out
- Yes
- Audio: 10W speaker
- External Control: DB9, IR, LAN, DDC/CI, USB, Wireless LAN (optional)
- Sync Compatibility: Separate Sync / Composite Sync / Sync on G

**ELECTRICAL**
- Power Req.: 100 - 240V AC, 50/60Hz
- Input Current: M300XS: 3.4A / 1.5A
- M300WS: 3.9A / 1.7A
- Power Consumption (Normal/ECO): M300XS: 311W / 239W / 8W / 0.2W
- M300WS: 350W / 271W / 8W / 0.2W

**MECHANICAL**
- Installation Orientation: Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
- Dimensions: (WxDxH): 15.7 x 12.2 x 5.5 in. / 398 x 309 x 140mm
- Net Weight: 8.8 lbs, 4 kg
- Fan Noise: M300XS: 35 dB normal / 39 dB eco
- M300WS: 36 dB normal / 30 dB eco
- Regulations: UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-03 Class B, NOM-001-SCFI-1993

**ENVIRONMENTAL**
- Operational Temp: 41° - 104° F / 5° - 40°C
- Humidity: 20-80% non-condensing
- Storage: 14° - 122° F / -10° - 50°C

**ACCESSORIES**
- IR receiver enables PJ remote to control PC and MAC functions
- 802.11 b/g/n wireless LAN adapter
- Input panel cover
- 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 M300XS
- Replacement lamp for M300WS
- Replacement remote control

**WARRANTY PROGRAMS**
- NEC Care: Extends term of parts and labor warranty to 2 years
- InstaCare: Extends term of InstaCare service program to 2 years
- Replacement remote control

**IN THE BOX**
- Remote control, batteries, power card, RGB signal cable, built-in lens cover, user’s manual on CD-ROM, quick start guide, product registration card, security sticker

**ORDERING MODEL NUMBERS**
- NP-M300XS
- NP-M300WS

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