

M Short Throw Series

M332XS and M352WS digital projectors

Easy to use and at the right price, M Short Throw Series projectors using the latest DLP® technology from Texas Instruments 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 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 and WXGA native resolutions, high brightness up to 3500 lumens and patented NEC technologies, M Short Throw Series projectors display impressive image quality

Designed with the Environment in Mind

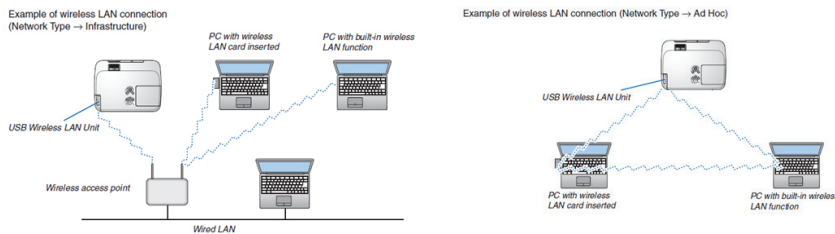
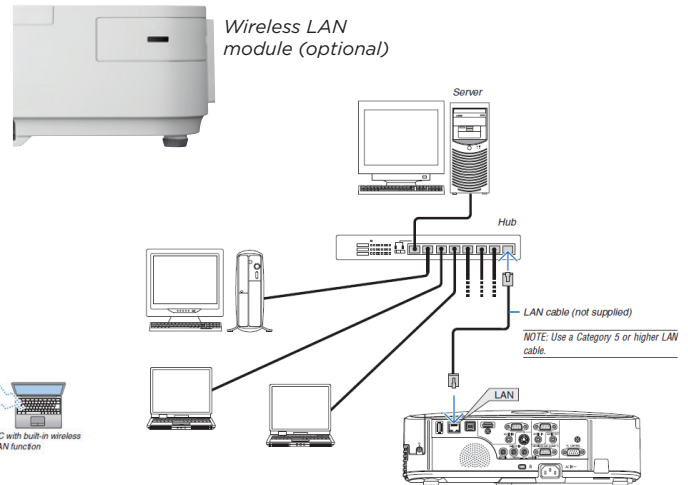
- Extended lamp life with ECO Mode™ technology increases lamp life up to 8000 hours, while lowering power consumption
- Power management enables projector to automatically turn off when an incoming signal is not detected from any of the inputs
- Auto Power On via the RGB (15-pin) input connector when 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

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 NPO2LM1)
- Simple Access Point Sending photos and documents have never been easier from a computer or iPad.

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 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.

On a green wall...



BEFORE
auto wall correction



AFTER
auto wall correction



When combined with active shutter glasses (NP02GL), 3D Ready M Series Projectors use DLP Link™ technology, developed by Texas Instruments, to create 3D images from a computer. The M332XS and M352WS are certified as a display device for NVIDIA® 3D Vision™, which allows you to view 3D images using supported graphics boards or software. HDMI 3D images can be viewed using a 3rd party 3D glass from XPAND or Volfoni.



Top cover lamp change

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



Get Connected with a Wide Selection of Inputs

- Dual HDMI 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.



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.



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 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.



UNIQUE FEATURES

BrilliantColor advanced video processing from Texas Instruments delivers more vibrant and realistic colors and blacks rich in detail.

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 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

Remote control, batteries, power cord, RGB signal cable, lens cap, user's manual on CD-ROM, quick start guide, product registration card and DisplayNote Presenter License

ORDERING MODEL NUMBERS

NP-M332XS
NP-M352WS



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

Specifications for M332XS and M352WS

OPTICAL

Display Technology

Light Output (lumens)

Resolution
Native

Maximum
Contrast Ratio (up to)
Lamp Type

Lamp Life (up to)
Screen Size (diagonal)
Throw Ratio

Projection Distance

Projection Angle

Lens*

Zoom

Focus

F-#, f-#

Keystone Correction

M332XS: 0.55" DLP by Texas Instruments w/ BrilliantColor
M352WS: 0.65" DLP by Texas Instruments w/ BrilliantColor
M332XS: 3300
M352WS: 3500

M332XS: XGA 1024 x 768
M352WS: WXGA 1280 x 800
WUXGA 1920 x 1200
Up to 10,000:1
270W AC

3500 hours / 8000 hours eco
60 - 150 in., 1.5 - 3.1m
M332XS: 0.6:1
M352WS: 0.48:1
M332XS: 2.21 - 5.76 ft. / 0.675 - 1.757m
M352WS: 1.85 - 4.86 ft. / 0.565 - 1.482m
M332XS: 40.7° - 40.8°
M352WS: 40.7° - 40.9°

1.2
Manual
F=2.4, f=6.5mm
Vertical (Automatic/Manual) adjustment

SIGNAL COMPATIBILITY/ CONNECTIVITY

Scan Rate

Horizontal

Vertical

Supported Video Standards

SD/HD Video Signal Compatibility

PC Signal Compatibility
Macintosh Compatibility
Input/Output Terminals

RGB1 (analog)

RGB2 (digital)

RGB3 (digital)

RGB4 (digital)

Video 1

Video 2

Audio 1

Audio 2

Microphone

Audio Out

Monitor Out

Audio

External Control

Sync Compatibility

15 - 100 kHz
50 - 120 Hz
NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM
1080i, 1080p, 720p, 576p, 576i, 480p, 480i; Y/Cb/Cr component (with optional adapter - ADP-CVIE)
VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA
Yes

VGA 15-pin D-sub
HDMI w/ HDCP
HDMI w/ HDCP
USB A Type
RCA
S-Video
L/R RCA (shared by video sources)
1/8 in. stereo
1/8 in. stereo
mini stereo (variable audio out)
Yes
20W speaker
RS-232, IR, LAN, DDC/CI, USB, Wireless LAN (optional)
Separate Sync / Composite Sync / Sync on G

ELECTRICAL

Power Requirements

Input Current

Power Consumption (ECO Off/ECO Mode/
Standby/Standby-Power Saving)

100 - 240V AC, 50/60Hz
3.9A / 1.6A
335W / 246W / 2.4W / 0.2W

MECHANICAL

Installation Orientation

Dimensions (WxDxH)

Net Weight

Fan Noise

Regulations

Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
14.5 x 11.5 x 5.3 in. / 368 x 286 x 134mm
8.2lbs. / 3.7kg
39 dB / 33 dB eco
UL60950-1, CSA60950-1, FCC Part 15 Class B, ICES-03 Class B

ENVIRONMENTAL

Operating Temperature

Humidity

Storage

41° - 104°F / 5° - 40°C
20-80% non-condensing
-14° - 122°F / -10° - 50°C

ACCESSORIES

NP01MR

NP02LM1

SPKR30

ADP-CVIE

MP300CM

NP01UCM

NP02GL

AEC006009

AEC012018

AEC0203

AEC0305

SCP200

NP30LP

RMT-PJ36

NECEW1-MP

NECEW2-MP

ADVEXON1-MP

ADVEXON2-MP

NECECO

PWRCRD-PJPX

RGBCBL-PJPX

IR receiver enables PJ remote to control PC and MAC functions
802.11b/g/n wireless LAN adapter
Amplified 30-watt speaker
Component video to VGA adapter
Ceiling mount
Universal ceiling mount for projectors weighing less than 40 pounds
Active shutter 3D glasses (PC only)
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
Replacement remote control
Extends term of parts and labor warranty to 3 years
Extends term of parts and labor warranty to 4 years
Extends term of InstaCare service program to 2 years
Extends term of InstaCare service program to 3 years
Projector recycling program, disposal certificate
Power cable
RGB cable

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rev. 2.1.14

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