# **MP-TW4011** LCD Laser Interactive Projector

maxell

## Key Features

- 3LCD Laser Projector
- WXGA 1280 x 800
- 4,200 ANSI Lumens Brightness
- 500,000 : 1 Contrast Ratio
- 50,000 Hours Light Source Life (Long life 2 mode)
- 60"-110" Interactive Screen Size
- HDMI 2 Inputs (1 shared with MHL)
- Powered Focus and Perfect Fit
- High Dynamic Range (HDCR2)
- Interactive Touch with Pen or Finger, Up to 6
- Optional Finger Touch Module
- Compatible with other top interactive software
- Starboard Interactive Software Included with no yearly subscription fee!






## Maxell expands their laser projector line with a 4,200 ANSI lumens, 3LCD model delivering larger-than-life performance.

Maxell's laser light source projector line now includes the 3LCD model MP-TW4011 with 4,200 ANSI lumens. The new laser phosphor light source offers approximately 20,000 hours (normal mode) of operation time and is virtually maintenance free, there is no lamp to replace providing a dramatic reduction in total cost of ownership. The innovative interactive MP-TW4011 features an ultra short throw design and integrates Maxell's powerful software to deliver a complete interactive experience on any flat surface. With a rich feature set that meets the specific interactive needs of K-12, higher education, and corporate users, the MP-TW4011 is both easy to install and easy to calibrate. It provides vibrant image quality with cost-effective operation and produces large images in small spaces. Interactive features include interactive pens, multiple pen capability, auto-calibration, PC-less drawing, and multi-display interactive. The optional Finger Touch Module (FT02M) supports finger touch capability. Aditionally a suite of advanced features includes High Dynamic Contrast Range (HDCR2), 2 HDMI ports, and Maxell's original technology Accentualizer. As with all Maxell projectors, you can expect vibrant image quality, cost-efficient operation, and long-lasting reliability. For added piece of mind, Maxell's MP-TW4011 is also backed by a generous 5-year warranty and our world-class service and support programs.

**1.800.377.5887**
**www.maxellproav.com**

3LCD

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## INTERACTIVE FEATURES

### INTERACTIVE SOFTWARE

**This product includes a drawing application that offers more sophisticated drawing functions.**

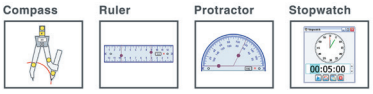
#### Neatly Convert Letters or Figures

You can automatically convert freehand shapes into geometric objects and handwriting into text on projected images. These operations are easily accomplished with the interactive pens.




#### Select a Variety of Useful Tools

The interactive pen lets you operate a compass, ruler, protractor, stopwatch and other useful tools on the projected image, making lessons even easier to understand.

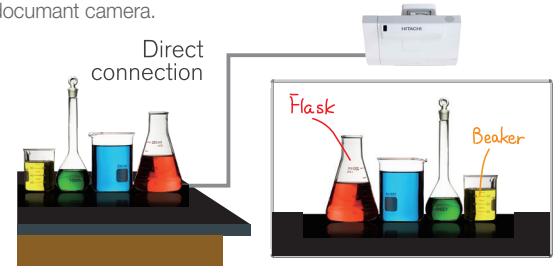



### ADVANCED WRITING/DRAWING CAPABILITIES

**This projector comes with a built-in function allowing you to directly draw and write on the projected screen without a PC.**

#### Directly Draw on the Projected Screen

You can write and draw on images projected from connected devices such as a documant camera.




#### Save and Open Drawn Screens

You can save the image drawn on the projector screen. This enables you to easily manage what you've taught in the past.

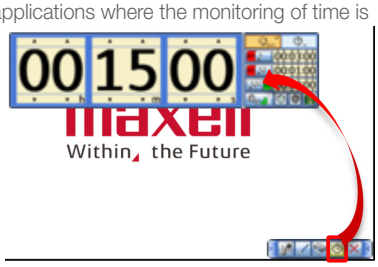
#### Finger Touch Option

This projector incorporates the optional finger touch unit that enables the projector to detect finger touch activity on the screen area. It allows users to annotate and interact with the material presented. Instead of simply showing static images, students and teachers can interact with on screen material for hands-on interactivity that brings learning to life. *When using the finger touch unit in a bright environment, auto-calibration may not be used. Must be used on a flat screen. The finger touch unit may not be used in locations where there is sunlight or light from an incandescent light source.*



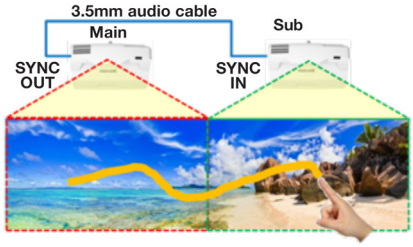
#### Multi Functions Timer

This timer can support different applications where the monitoring of time is needed such as a presentation, class duration, examination timer, etc.




#### Multiple-Screen Synchronization

Projectors are synchronized by the connection of the 3.5mm stereo audio cable between the projectors. This enables annotation across a large screen.




#### Convenient Painter Tool

Equipped with the Pen, Eraser, Undo, Redo, functions. You can also change the pen color and thickness. With the easy-to-use Painter tool bar, you can teach classes smoothly.




#### Multiple Interactive Pens

With up to 6 interactive pens, pupils can do more than just watch–they can interact with the onscreen content. Let them enjoy providing answers, showing their understanding and becoming involved in lessons like never before.



*I-PEN5 - Added Button for an eraser function*

#### Windows® Multi Touch

Windows® 8.1/10 multi touch allows users with touch enabled Windows® 8.1/10 systems to operate the PC directly from the interactive screen with up to 6 pens or touches including Windows® 8.1/10 gesture.



*Optional Finger Touch unit required.*

#### Smart Device Control

Plugging the optional USB wireless adapter into the projector and using the dedicated free online application developed by Maxell, projectors can be controlled from a tablet or smartphone.



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## UNIQUE FEATURES

### Starboard Interactive Presentation Software
Maxell's world-class interactive StarBoard Software (SBS) is the next standard in collaboration, information sharing and dynamic presentation software. With a customizable interface and toolbar, Starboard streamlines your workflow and improves production. While you would expect to pay hundreds of dollars extra for similar interactive software from the competition, Maxell bundles it as a standard feature with each interactive projector.

### Accentualizer
Maxell original technology makes pictures look more real by enhancing sharpness, gloss and shade to make pictures as clear as pictures on a flat-panel device. You can also adjust the effects by three levels according to your surroundings so that the colors of projected images are the actual colors of the objects they represent.

### Aspect Zoom
Aspect Zoom makes the maximum image size on the screen while keeping the aspect of the image.

### HDCR2 (High Dynamic Contrast Range)
When average projectors are used in bright rooms, the darker colors of an image deteriorate and images become unclear. Using this function, blurred images caused by room lighting or outside light sources are corrected, and an effect similar to increasing contrast occurs. The recent enhancement to HDCR2 achieves not only auto tone enhancement but also auto color enhancement. This results in clear images even in bright rooms.

### Image Optimizer
The Image Optimizer automatically adjusts HDCR and Accentualizer to improve visibility as lamp brightness dims over time.

### MHL™
MHL (Mobile High-Definition) allows users to mirror their phone/tablet screen with the projector display. It is compatible with any and all apps.

### Perfect Fit 2
Enables the user to adjust individual corners and sides independent of one another. Perfect Fit 2 provides vertical and horizontal digital correction of either barrel or pin cushion distortions. This feature helps correct geometric and complicated distortions. Perfect Fit 2 allows the projected image to fit correctly to the screen quickly and easily.



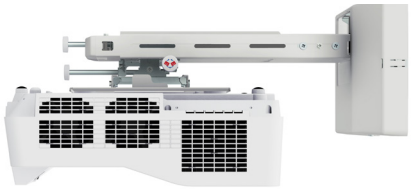

Front View




Ceiling Mount




Top View

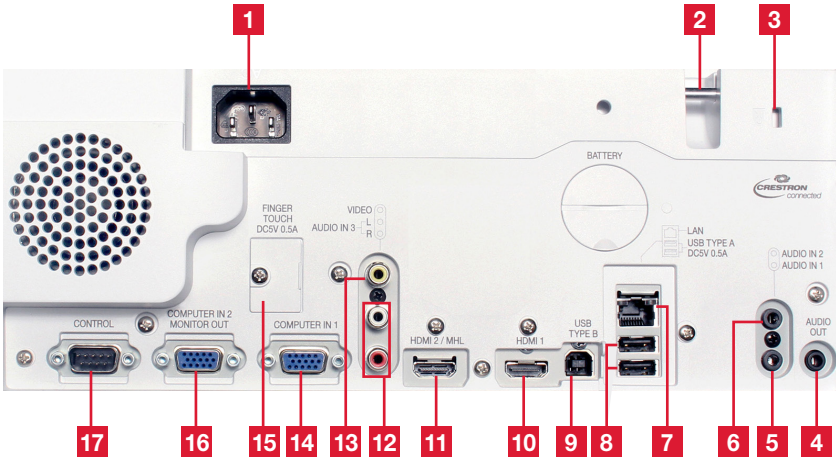


Side View



Back

## Input/Outputs




1. AC
2. Security Bar
3. Kensington Lock
4. Audio Out
5. Audio In 1
6. Audio In 2
7. LAN
8. USB Type A DC5V 0.5A
9. USB Type B
10. HDMI 1
11. HDMI 2/MHL
12. Audio In 3 L/R
13. Video
14. Computer In 1
15. Finger Touch Unit Power
16. Computer In 2/ Monitor Out
17. Control (RS-232C)

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## Accessories and Lenses

| | |
|---|---|
| **Supplied Accessories** | Remote control, power cable, computer cable, USB cable, interactive pens x 2, pen tips x 2, AA batteries x 4, user manual (concise), StarBoard software application DVD, adapter cover, security label, HDMI cable holder x 2, cable ties x 4, hook metal, screw, Ferrite core |
| **Optional Accessories** | HAS-WM06 wall mount (Supports display size 70" - 100"), USBWL5G wireless adapter, FT02M finger touch unit |
| **Optional Lenses** | N/A |

## Replacement Parts

| | |
|---|---|
| **Lamp** | Lamp free |
| **Remote Control** | HL03037 |
| **Filter** | UX43251 |

### Projection Throw Chart (In inches)

| Screen Size 16:10 | | |
|---|---|---|
| **Diagonal** | **Distance from edge of projector to screen** | **Distance from center of mirror to screen** |
| 60 | 3.1 | 16.3 |
| 70 | 5.9 | 19 |
| 80 | 8.6 | 21.8 |
| 90 | 11.4 | 24.5 |
| 100 | 14.1 | 27.3 |
| 130 | 22.4 | 35.5 |

Throw Ratio: (distance : width)
0.1 : 1 from edge of projector
0.3 : 1 from center of mirror

## Specifications

| | | |
|---|---|---|
| Display | **Projection Technology** | 3 LCD, 3 chip technology |
| | **Resolution** | WXGA 1280 x 800 |
| | **Brightness** | 4,200 ANSI lumens |
| | **Colors** | 16.7 million colors |
| | **Aspect Ratio** | Native 16:10, 4:3, 16:9, 14:9 and zoom compatible |
| | **Contrast Ratio** | 500,000 : 1 (Dynamic Black on) |
| | **Throw Ratio** (distance : width) | 0.3 : 1 (From center of mirror to screen) |
| | **Focus Distance** | 16" - 35" (From center of mirror to screen) |
| | **Display Size** | 60" - 130" or 60" - 110" using interactive feature |
| Operation | **Lens** | f = 4.21 mm, Digital zoom x 1.35, powered focus |
| | **Expected Light Source Life*** | Approx. 20,000 hours (Normal and Whisper mode), 30,000 hours (Long life 1 mode), 50,000 hours (Long life 2 mode) |
| | **Expected Filter LIfe**** | Approx. 20,000 hours |
| | **Speaker Output** | 16W |
| | **Keystone** | H and V +/- 5° |
| Compatibility | **Computer** | VGA, SVGA, XGA, WXGA, SXGA/WXGA+/WSXGA+/UXGA/ WUXGA, Mac 16" |
| | **H-Sync** | 15 kHz - 106 kHz |
| | **V-Sync** | 50 Hz - 120 Hz |
| | **Composite Video** | NTSC, NTSC4.43, PAL, PAL-M, -N, SECAM |
| | **Component Video** | 480i, 480p, 576i, 576p, 720p, 1080i, 1080p |
| | **HDMI** | 480i, 480p, 576i, 576p, 720p, 1080i, 1080p Computer signal TMDS clock 25 MHz - 162 MHz |
| | **MHL** | 480i, 480p, 576i, 576p, 720p, 1080i, 1080p Computer signal TMDS clock 25 MHz - 75 MHz |
| Connectors | **Digital Input** | HDMI x 1, HDMI/MHL x 1 (HDCP compliant) |
| | **Computer Input 1** | 15-pin mini D-sub x 1 |
| | **Computer Input 2** | 15-pin mini D-sub x 1 |
| | **Computer Monitor Output** | 15-pin mini D-sub x 1 (shared with Computer In 2) |
| | **Video Input** | |
| | **Composite Video** | RCA jack x 1 |
| | **Component Video** | 15-pin mini D-sub x 2 (shared with analog computer in 1/2) |
| | **Audio Input** | 3.5 mm stereo mini jack x 1, RCA jack (L/R) x 1 |
| | **Audio Output** | 3.5 mm stereo mini jack x 1 |
| | **Network LAN Wired** | RJ-45 port (10 base-T / 100 base-TX) |
| | **Network LAN Wireless** | USB-A, IEEE802.11 a/b/g/n/ac - optional wireless adapter required |
| | **USB** | Type A x 2 (PC-less presentation, wireless adapter) Type B x 1 (USB display or mouse control) |
| | **Control Terminals** | 9-pin D-sub x1 (RS-232 control) |
| Ratings & Warranty | **Power Supply** | AC100-120V / AC220-240V, 50/60Hz |
| | **Power Consumption** | 350W/340W |
| | **Operating Temperature** | 32° - 104° (0°C - 40°C) under 5,250 ft. 32° - 95° (0°C - 35°C) 5,250 ft. - 10,000 ft. |
| | **Dimensions (W x D x H)** | 19.9" x 16.7" x 5.5" |
| | **Weight** | Approximately 17.4 lbs. |
| | **Approvals** | UL 60950-1 / cUL, FCC part 15 subpart B Class B |
| | **Warranty** | 5-year or 20,000 hours (whichever occurs first) limited warranty |

* Actual light source life will vary by individual light source based on environmental conditions, selected operating mode, user settings and usage. Hours of average light source life specified are not guaranteed and do not constitute part of the product or light source warranty. Light source brightness decreases over time.

** Actual filter life will vary by individual filter based on environmental conditions, selected operating mode, user settings and usage. Hours of expected filter life specified are not guaranteed and do not constitute part of the product warranty.

CRESTRON connected

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3LCD HDMI MHL 5 YEAR WARRANTY OneVision Kids

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