

Specifications

| | | |
|--|---|--|
| Model name | MP-TW4011 | MP-TW3011 |
| Display system | 3LCD | |
| Display device | Size of effective display area 0.59" × 3 aspect ratio 16:10 Number of pixels 1,024,000 pixels H: 1280 × V: 800 (WXGA) | |
| Lens | Zoom Digital zoom (1.35 x) Focus Powered | |
| Light source | Laser diode | |
| Screen size | 60 ~ 110 inch (60 ~ 130 inch when no interactive function is used.) | |
| Light output (Brightness)*1 | 4,200 lm | 3,300 lm |
| Contrast ratio (full white / full black)*2 | 500,000 : 1 | |
| Speaker | 16 W × 1 mono | |
| Displayable scanning frequency | Horizontal 15 ~ 106 kHz Vertical 50 ~ 120 Hz | |
| Display Resolution | Computer Full HD (max.) * Native resolution is WXGA. Video 1080P (max.) * Native resolution is WXGA. | |
| Terminals | HDMI IN HDMI connector × 2 (HDMI 2 supports MHL input.) COMPUTER IN 1 Mini D-sub 15-pin connector × 1 COMPUTER IN 2 / MONITOR OUT Mini D-sub 15-pin connector × 1 VIDEO IN RCA connector × 1 SYNC IN 3.5mm (stereo) mini connector × 1 SYNC OUT 3.5mm (stereo) mini connector × 1 AUDIO IN 3.5mm (stereo) mini connector × 2, RCA connector L/R × 1 AUDIO OUT 3.5mm (stereo) mini connector × 1 CONTROL IN (RS-232C) D-sub 9-pin connector × 1 LAN RJ-45 connector × 1 USB-A USB type A × 2 (PC-LESS Presentation or optional wireless adapter) USB-B USB type B × 1 (USB Display and USB mouse control) | |
| Network | Wired 100BASE-TX / 10BASE-T Wireless (Option*3) IEEE 802.11a/b/g/n/ac | |
| Operating temperature | 0 ~ 40 °C *4 (The brightness of light source may be reduced automatically over 35 °C) | |
| Operating humidity | 10 - 80%RH (non-condensing) | |
| Power requirements | AC 100 V - 120 V (50/60 Hz), 3.6 A AC 220 V - 240 V (50/60 Hz), 1.8 A | AC 100 V - 120 V (50/60 Hz), 2.8 A AC 220 V - 240 V (50/60 Hz), 1.4 A |
| Power consumption | AC 100 V - 120 V : 350 W AC 220 V - 240 V : 340 W | AC 100 V - 120 V : 270 W AC 220 V - 240 V : 270 W |
| Standby mode power consumption | Less than 0.5 W at saving mode*5 | |
| Standard outside dimensions (W × H × D) | 512 mm × 155 mm × 424 mm (20.2" × 6.1" × 16.7") (Including protruding parts), 506 mm × 139 mm × 424 mm (19.9" × 5.5" × 16.7") (Excluding protruding parts) | |
| Weight | Approx. 7.8 kg (17.2 lbs.) | Approx. 7.6 kg (16.8 lbs.) |
| Accessories | Remote control with two AA batteries, Power cord, Computer cable, Adapter cover, User's manual, Security label, USB cable, Interactive pen (× 2) with AA battery (× 2), Pen tip (× 2), Application DVD, Hook metal, Screw, Cable tie, HDMI cable holder, Ferrite core | |
| Optional Parts | USB wireless adapter USB-WL-5G*6 Air filter UX43251*7 / UX43931*7 Interactive pen I-PEN5 Finger Touch Unit FT-02 Finger Touch HAS-FB01 Adjustment Bracket Mounting accessories HAS-WM06 (Wall mount, supported image size : 70-110 inch), HAS-9110 (Bracket for fixing mount), HAS-104S (Slim adapter for fixing mount), HAS-204L (Standard adapter for fixing mount), HAS-304H (Long adapter for fixing mount) | |

*1: When PICTURE MODE is set to DYNAMIC, DYNAMIC BLACK is OFF and LIGHT OUTPUT is set to Normal 100%. *2 : When PICTURE MODE is set to DYNAMIC, DYNAMIC BLACK is ON and Laser Mode is set to Normal 100%. *3: Optional wireless adapter is needed. *4: 0 - 40 °C at altitude from 0m to 1,600 m. 0 - 35°C at altitude from 1,600 m to 3,048 m. *5: SAVING mode disables the functions of MONITOR OUT, AUDIO OUT, speaker sound, network communication, RS-232C control except POWER ON command, etc. in standby. *6: The availability of the USB-WL-5G varies depending on the country and the region. *7: Please refer to the user's manual for choosing the appropriate filter.

—Design and specifications are subject to change without notice.

• The projected images and comparison photos in this catalog are simulations. • LCD panels, polarizers and other optical components and cooling fans may need replacement after prolonged usage. For more details, please consult a sales representative. • Do not use in places where there is a lot of water, dampness, steam, dust, soot or tobacco smoke. This may result in fire or malfunction. • Optical components (light source, LCD panel, polarizing plate, PBS [polarizer beam splitter]) have limited service lives. They must be repaired or replaced if they are used for a long period of time. • During use and immediately after use, do not touch anywhere near the vents as these parts are extremely hot. • Optical components other than the light source: If the projector is used for six hours or more per day, they may need to be replaced in less than a year. • LCD panel: If the projector is used continuously for six hours or more, its replacement cycle may be shortened. • Each product may have differences of color, brightness and focus due to manufacture variation • Crestron® and Crestron RoomView® are registered trademarks of Crestron Electronics, Inc. in the United States and other countries. • DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information. • MHL, the MHL logo, and Mobile High-Definition Link are trademarks or registered trademarks of MHL, LLC in the United States and other countries. • HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries. • All other trademarks are the properties of their respective owners.

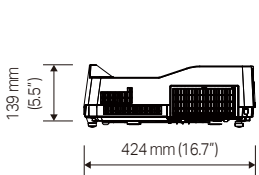


Maxell, Ltd. 5030 Totsuka-cho, Totsuka-ku Yokohama, 244-0003, Japan <http://proj.maxell.co.jp/en/>

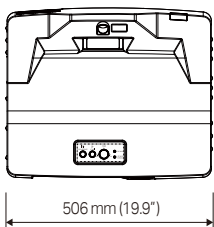
July 2019

Dimensions

[Side view]



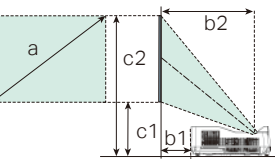
[Top view]



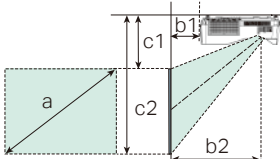
*The figures are not drawn to scale.

Projection Distance

Placed on the horizontal surface



Suspended from the ceiling

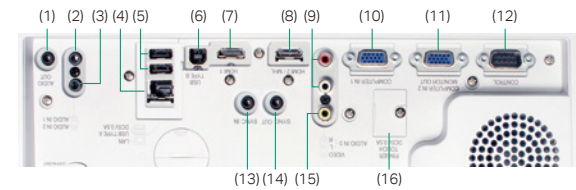


*The figures above are not drawn to scale.

| Screen size(diagonal) | | Projection distance | | | | Screen height | | | |
|-----------------------|-----|---------------------|------|-------|------|---------------|------|-------|------|
| a | | b1 | | b2 | | c1 | | c2 | |
| type (inch) | m | m | inch | m | inch | m | inch | m | inch |
| 60 | 1.5 | 0.079 | 3.1 | 0.413 | 16.3 | 0.237 | 9.3 | 1.044 | 41.1 |
| 70 | 1.8 | 0.149 | 5.9 | 0.483 | 19.0 | 0.261 | 10.3 | 1.203 | 47.4 |
| 80 | 2.0 | 0.219 | 8.6 | 0.553 | 21.8 | 0.285 | 11.2 | 1.362 | 53.6 |
| 90 | 2.3 | 0.289 | 11.4 | 0.623 | 24.5 | 0.309 | 12.2 | 1.521 | 59.9 |
| 100 | 2.5 | 0.359 | 14.1 | 0.693 | 27.3 | 0.334 | 13.1 | 1.680 | 66.1 |
| 110 | 2.8 | 0.428 | 16.9 | 0.763 | 30.0 | 0.358 | 14.1 | 1.839 | 72.4 |
| 120 | 3.0 | 0.498 | 19.6 | 0.833 | 32.8 | 0.382 | 15.0 | 1.997 | 78.6 |
| 130 | 3.3 | 0.568 | 22.4 | 0.903 | 35.5 | 0.406 | 16.0 | 2.156 | 84.9 |

NOTE The Interactive function does not operate normally when a projected image is over 100 type (inch).

Terminals



- (1) AUDIO OUT (2) AUDIO IN 1 (3) AUDIO IN 2 (4) LAN (5) USB-A (6) USB-B (7) HDMI 1
(8) HDMI 2 / MHL (9) AUDIO IN 3 (10) COMPUTER IN 1
(11) COMPUTER IN 2 / MONITOR OUT (12) CONTROL (RS-232C) (13) SYNC IN
(14) SYNC OUT (15) VIDEO (16) Terminal for the optional finger touch unit (inside the cover)

Environment

- Compliance with EU Directive RoHS*1
- Long Life mode
- No use of mercury lamp

*1 RoHS is the acronym of "Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment."

| | | |
|---|--|---|
| LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT Wavelength : 449-461 nm Max. Output : 36.5 mW IEC 60825-1:2007 | RAYONNEMENT LASER NE FIXEZ PAS LE FAISCEAU PRODUIT LASER DE CLASSE 2 Longueur D'onde : 449-461 nm Sortie max. : 36.5 mW IEC 60825-1:2007 | 雷射輻射 請勿凝視光束 2類雷射光產品 波長：449-461 nm 最大輸出：36.5 mW IEC 60825-1:2007 |
|---|--|---|

| | |
|--|-----|
| CLASS 1 LASER PRODUCT PRODUIT LASER DE CLASSE 1 LASERPRODUKT DER KLASSE 1 IEC/EN 60825-1:2014 | RG2 |
|--|-----|

Ultra Short Throw Laser Projector



Enrich your classes and conferences!
Interactive Ultra short throw
laser projector.



MP-TW4011
MP-TW3011



*Projected images are simulations.

MHP-E018 072019

An interactive function with enhanced operability and functionality



*Projected images are simulations.

Advanced Writing/Drawing Capabilities

PC less Drawing

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

Easy-to-use 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.



Save and Open Drawn Screens

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

Multiple Interactive Pens

With up to 6*1 interactive pens, students 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 as never before.

*1 The number of pens that can simultaneously be used in PC operation mode may be limited by PC operating system or applications.

Eraser Function*2

The eraser function has been newly added to the pen. This simplifies drawing and erasing operations while saving the inconvenience of switching between functions.



*2 For other function of the pen, please refer to the user's manual.

Drawing Saving Function

When using multiple input channels, the state of the pen such as thickness and colors, and drawings can be saved per input terminal. This allows you to view the drawn content again and start drawing without having to reset the state of the pen when returning to the original input channel after having moved to another channel.

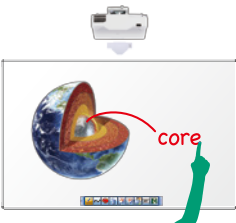
*Turning Tool bar off resets the saved information.



Interactive Software

Finger Touch (Option)

The T Series 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.

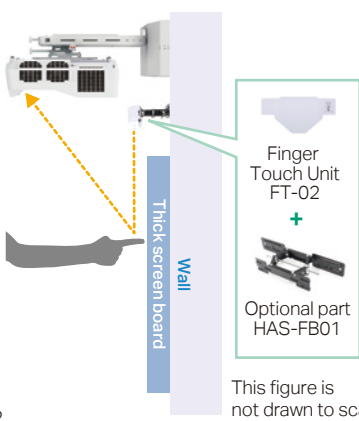


* When using the finger touch unit at bright environment, auto calibration may not be used.
* Please use the finger touch unit on a flat screen.
* The finger touch unit may not be used in locations where there is sunlight or light from an incandescent light source.

Finger Touch Adjustment Bracket (Option)

By combining the bracket (HAS-FB01) to the Finger Touch Unit (FT-02) and fixing them to the wall, interactive spaces can be used with thick boards without the inconvenience of reducing the projection surface. Even if students are seated in the back of the classroom, they can easily see video and images due to the large screen.

* For installation, please refer to the user's manual of HAS-FB01 and FT-02.



This figure is not drawn to scale.

Timer Function

Count down and count up are available with the timer function. The alarm can be set to ring up to 3 times and can be used to indicate the remaining time of presentations or mini quizzes with the number of chimes. The chime has been set to a soft tone so that students will not be surprised when the alarm rings. The elapsed overtime is also displayed.



LINE UP

* Local availability may be limited.

Tseries

Ultra Short Throw



MP-TW4011

WXGA 4,200 lm



MP-TW3011

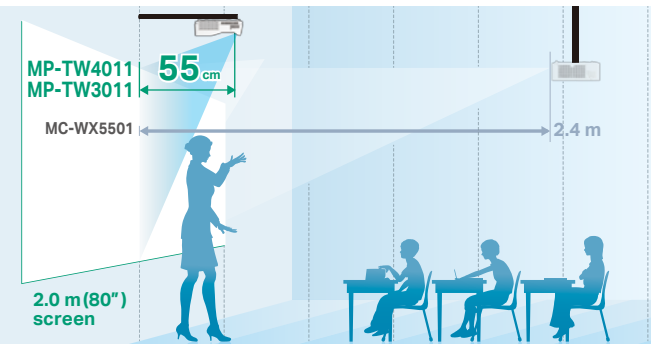
WXGA 3,300 lm



Installability

Reduced Glare and Shadows

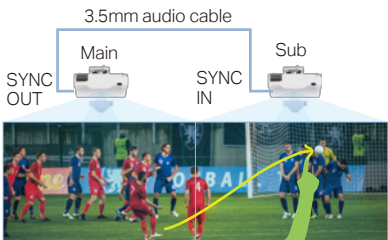
These projectors feature Ultra Short Throw, for projecting a 2.0 m (80 inch) image from only 55 cm (21.8 inch) onto a wall or screen. The Ultra Short Throw greatly reduces glare from the projector's light source, making it easier for a teacher or presenter to see the audience. The audience also has a clearer view because the shadows of the teacher's or presenter's hands and body are minimized. The result is a better classroom or meeting room experience for everyone.



This figure is not drawn to scale.

Multiple-screen synchronization

By connecting each projector through SYNC, the interactive function can be achieved seamlessly on multiple screens. This allows you to draw on large screens without having to worry about the connecting areas between each screen.



This figure is not drawn to scale.

* The number of projectors that can be connected depends on the computer.

360°Projection

This projector provides great installation flexibility as it can be installed at various angle. By rotating the projector 90 degrees, you can project vertically long images (Portrait Projection).



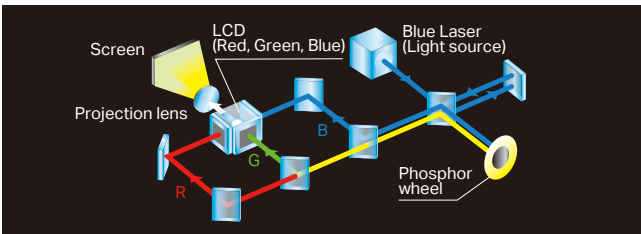
* The interactive function is unavailable on screens other than general wall-mount types.

High Reliability and Stability

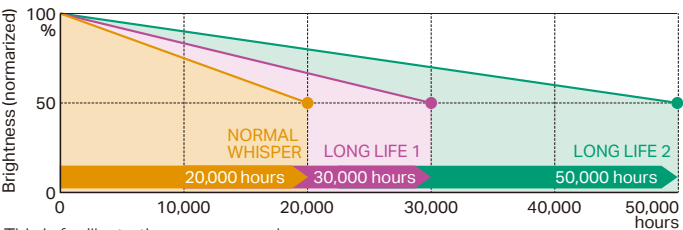
Long Life 20,000 hours*3 Laser Light Source

Maxell's laser light source projectors have 20,000 hours*3 of light source life. Use for 50,000 hours*3 can be achieved in LONG LIFE 2 mode. Also, users may select their desired operation mode. Furthermore, in addition to the light source, the phosphor wheel is also dust resistant, suppressing brightness level reduction by preventing dust from coming into contact with the optical parts. Users can enjoy using the projector for long periods of time while maintaining its brightness.

*3 For laser light source. The value is an estimate and may vary depending on the use environment or use condition.



Brightness Deterioration Comparison between Light Output Modes



This is for illustrative purposes only.

*4 These are reference values and may vary depending on products. *5 The values are an estimate and may vary depending on the usage environment or use condition.

*6 Reference values when used in an ambient temperature of 23 °C. The noise level varies by the projector model, installation environment, and use condition.

Other Functions

- Quick Start
- DICOM® Simulation Mode*7
- 16W Internal Speaker
- MHL connectivity
- Smart Device Control & Monitoring
- Moderator Control Mode
- PIN lock
- Key lock

*7 This projector is not a medical device and is not compliant to the DICOM standard, and neither the projector nor this function should be used for medical diagnosis.