# LCD Projector

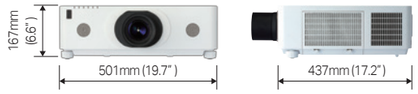
maxell
Within, the Future

## Specifications

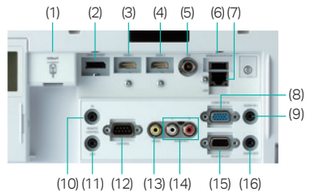
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model name | | MC-WU8701W<br>MC-WU8701B | MC-WU8601W | MC-WX8751W<br>MC-WX8751B | MC-WX8651W | MC-X8801W | |
| Display system | | 3LCD | | | | | |
| Display device | Size of effective display area | 0.76" × 3 aspect ratio 16:10 | | | | 0.79" × 3 aspect ratio 4:3 | |
| | Number of pixels | 2,304,000 pixels<br>(1920 horizontal × 1200 vertical) | | 1,024,000 pixels<br>(1280 horizontal × 800 vertical) | | 786,432 pixels<br>(1024 horizontal × 768 vertical) | |
| Lens | | Optional (No lens include in the projector) | | | | | |
| | Zoom | Motorized (except for the option lens FL-710 / FL-701) | | | | | |
| | Focus | Motorized | | | | | |
| | Lens shift | Motorized (V,H) (except for the option lens FL-710 / FL-701) | | | | | |
| Light source | | 430 W lamp | 370 W lamp | 430 W lamp | 370 W lamp | 430 W lamp | |
| Screen size | | 30 ~ 600 inch (100 ~ 350 inch for the ultra short throw fixed lens FL-701, 60~600 inch for the ultra short throw lens USL-701) | | | | | |
| Light output (Brightness)*1 | | 7,000 lm | 6,000 lm | 7,500 lm | 6,500 lm | 8,000 lm | |
| Contrast ratio (full white / full black)*2 | | 10,000 : 1 (Presentation mode) | | | | | |
| Speaker | | 8 W × 2 (mono) | | | | | |
| Displayable scanning frequency | Horizontal | 31.5 ~ 106 kHz | | | | | |
| | Vertical | 56 ~ 120 Hz | | | | | |
| Display Resolution | Computer | WUXGA*3 (max.)<br>*Native resolution is WUXGA. | | Full HD (max.)<br>*Native resolution is WXGA. | | Full HD (max.)<br>*Native resolution is XGA. | |
| | Video | 1080P (max.)<br>*Native resolution is WUXGA. | | 1080P (max.)<br>*Native resolution is WXGA. | | 1080P (max.)<br>*Native resolution is XGA. | |
| Terminals | HDMI IN | HDMI connector × 2 (HDCP compliant) | | | | | |
| | COMPUTER IN | Mini D-sub 15-pin connector × 1 | | | | | |
| | MONITOR OUT | Mini D-sub 15-pin connector × 1 | | | | | |
| | VIDEO IN | RCA connector × 1 | | | | | |
| | SDI IN | BNC connector x1 | - | | | | |
| | HDBaseT | RJ-45 connector × 1 | | | | | |
| | Display Port | Display Port × 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 | | | | | |
| | WIRELESS | USB type A × 1 (Used for wireless network) | | | | | |
| | REMOTE CONTROL IN | 3.5mm (stereo) mini connector × 1 | | | | | |
| | REMOTE CONTROL OUT | 3.5mm (stereo) mini connector × 1 | | | | | |
| Network | Wired | 100BASE-TX / 10BASE-T | | | | | |
| | Wireless (Option*4) | IEEE 802.11b/g/n | | | | | |
| Operating temperature | | 0 ~ 45 °C*5 (The brightness of light source may be reduced automatically over 40 °C.) | | | | | |
| Operating humidity | | 10 - 90 % (non-condensing) | | | | | |
| Power requirements | | AC 100 V - 120 V, 5.9 A<br>AC 220 V - 240 V, 2.9 A | AC 100 V-120 V, 5.2 A<br>AC 220 V - 240 V, 2.5 A | AC 100 V - 120 V, 5.9 A<br>AC 220 V - 240 V, 2.9 A | AC 100 V - 120 V, 5.2 A<br>AC 220 V - 240 V, 2.5 A | AC 100 V - 120 V, 5.9 A<br>AC 220 V - 240 V, 2.9 A | |
| Power consumption | | AC 100 V - 120 V : 580 W<br>AC 220 V - 240 V : 560 W | AC 100 V - 120 V : 510 W<br>AC 220 V - 240 V : 500 W | AC 100 V - 120 V : 580 W<br>AC 220 V - 240 V : 560 W | AC 100 V - 120 V : 510 W<br>AC 220 V - 240 V : 500 W | AC 100 V - 120 V : 580 W<br>AC 220 V - 240 V : 560 W | |
| Standby mode power consumption | | Less than 0.35 W at saving mode*6 | | | | | |
| Standard outside dimensions (W × H × D)(Excluding lens) | | 501 mm × 167 mm × 437 mm (19.7" × 6.6" × 17.2") (Including protruding parts),<br>498 mm × 156 mm × 426 mm (19.6" × 6.1" × 16.8")(Excluding protruding parts) | | | | | |
| Weight | | Approx. 11.1 kg (24.5 lbs.) (Excluding lens) | | | | | |
| Accessories | | Remote control with batteries, Power cord, Computer cable, User's manual, Security label,<br>Adapter cover, Terminal cover*7, HDMI cable holder, Cable tie | | | | | |
| Optional parts | USB wireless adapter | USB-WL-11N*8 | | | | | |
| | Lamp | DT01881 | DT01871 | DT01881 | DT01871 | DT01881 | |
| | Air filter | UX40821 | | | | | |
| | Option lens | FL-710 (Ultra short throw fixed lens), USL-701 (Ultra short throw lens), FL-701 (Fixed short throw lens), SL-712 (Short throw lens)<br>ML-713 (Middle throw lens), LL-704 (Long throw lens), UL-705 (Ultra short throw lens) | | | | | |
| | Mounting accessory | HAS-9110 (Bracket for fixing mount), HAS-104S (Slim adapter for fixing mount), HAS-204L (Standard adapter for fixing mount),<br>HAS-304H (Long adapter for fixing mount), HAS-404U (Ceiling mount with 6-axis adjustment)*9 | | | | | |

*1: When PICTURE MODE is set to STANDARD, ACTIVE IRIS is set to OFF, and ZOOM position is WIDE (max). *2: When PICTURE MODE is set to STANDARD, ACTIVE IRIS is set to ON, and ZOOM position is WIDE (max). *3: WUXGA (60 Hz) Reduced Blanking only. *4: Optional wireless adapter is needed. *5: When the ambient temperature exceeds 40 °C(104 °F), the brightness of the lamp is reduced automatically. *6: SAVING mode disables the functions of MONITOR OUT, AUDIO OUT, speaker sound, network communication, RS-232C control except POWER ON command, etc. in standby. *7: No terminal cover is bundled in some regions and countries. *8: The availability of the USB wireless adapter varies depending on the country and the region. *9: HAS-404U is used with a projector that the ultra short throw fixed lens FL-710 is attached to when it is installed at the ceiling mounting position.

## Dimensions

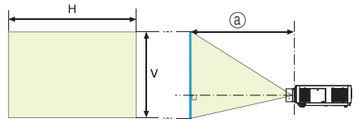



## Terminals

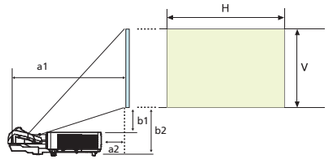



(1) HDBaseT (2) DisplayPort (3) HDMI IN 1 (4) HDMI IN 2 (5) SDI (MC-WU8701W / MC-WU8701B only) (6) WIRELESS (7) LAN (8) COMPUTER IN (9) AUDIO IN 1 (10) REMOTE CONTROL IN (11) REMOTE CONTROL OUT (12) CONTROL (13) VIDEO (14) AUDIO IN 2 (15) MONITOR OUT (16) AUDIO OUT

## Projection Distance




**H × V : Screen size**
ⓐ: Projection distance (from the projector's front panel to screen) (±10%)




**H × V : Screen size**
a1: Reflecting mirror surface to screen
a2: Projector end to screen
b1: Projector top to screen edge (closer edge to projector)
b2: Projector bottom to screen edge (closer edge to projector)

*The figures are not drawn to scale.

## Projection Distance

| Screen size | | | FL-710 | | | | | | | | USL-701 | | | | FL-701 | SL-712 | | | | ML-713 | | | | LL-704 | | | | UL-705 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type | H(m) | V(m) | a1 | | a2 | | b1 | | b2 | | ⓐ min. | | ⓐ max. | | Fixed | ⓐ min. | | ⓐ max. | | ⓐ min. | | ⓐ max. | | ⓐ min. | | ⓐ max. | | ⓐ min. | | ⓐ max. | |
| (inch) | | | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch | m | inch |
| **MC-WU8701W / MC-WU8701B / MC-WU8601W** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 : 10 screen (1,920 × 1,200)(±10%) | 100 | 2.2 | 1.3 | 0.819 | 32 | 0.108 | 4 | 0.427 | 17 | 0.616 | 24 | 1.7 | 67 | 2.2 | 87 | 1.8 | 69 | 2.5 | 100 | 3.8 | 151 | 3.7 | 146 | 6.3 | 248 | 6.1 | 240 | 10.3 | 407 | 10.3 | 407 | 17.6 | 691 |
| | 150 | 3.2 | 2.0 | 1.185 | 47 | 0.473 | 19 | 0.662 | 26 | 0.851 | 34 | 2.5 | 100 | 3.3 | 129 | 2.6 | 103 | 3.8 | 150 | 5.7 | 225 | 5.5 | 219 | 9.4 | 371 | 9.1 | 359 | 15.5 | 612 | 15.4 | 605 | 26.2 | 1032 |
| | 300 | 6.5 | 4.0 | 2.281 | 90 | 1.569 | 62 | 1.369 | 54 | 1.558 | 61 | 5.0 | 196 | 6.5 | 256 | 5.2 | 205 | 7.6 | 298 | 11.4 | 450 | 11.1 | 435 | 18.8 | 740 | 18.2 | 718 | 31.1 | 1225 | 30.5 | 1200 | 52.2 | 2056 |
| **MC-WX8751W / MC-WX8751B / MC-WX8651B** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 : 10 screen (1,280 × 800)(±10%) | 100 | 2.2 | 1.3 | 0.819 | 32 | 0.108 | 4 | 0.427 | 17 | 0.616 | 24 | 1.7 | 67 | 2.2 | 87 | 1.8 | 71 | 2.6 | 102 | 3.9 | 154 | 3.8 | 149 | 6.4 | 252 | 6.2 | 244 | 10.5 | 415 | 10.5 | 415 | 17.9 | 705 |
| | 150 | 3.2 | 2.0 | 1.185 | 47 | 0.473 | 19 | 0.662 | 26 | 0.851 | 34 | 2.5 | 100 | 3.3 | 129 | 2.7 | 105 | 3.9 | 153 | 5.8 | 230 | 5.7 | 223 | 9.6 | 378 | 9.3 | 366 | 15.8 | 624 | 15.7 | 617 | 26.7 | 1053 |
| | 300 | 6.5 | 4.0 | 2.281 | 90 | 1.569 | 62 | 1.369 | 54 | 1.558 | 61 | 5.0 | 196 | 6.5 | 256 | 5.3 | 209 | 7.7 | 304 | 11.7 | 459 | 11.3 | 444 | 19.2 | 755 | 18.6 | 732 | 31.7 | 1250 | 31.1 | 1223 | 53.3 | 2097 |
| **MC-X8801W** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 : 3 screen (1,024 × 768)(±10%) | 100 | 2.0 | 1.5 | 0.797 | 31 | 0.086 | 3 | 0.326 | 13 | 0.515 | 20 | 1.7 | 65 | 2.1 | 84 | 1.7 | 67 | 2.5 | 97 | 3.7 | 146 | 3.6 | 142 | 6.1 | 240 | 5.9 | 232 | 10.0 | 395 | 10.0 | 395 | 17.0 | 671 |
| | 150 | 3.0 | 2.3 | 1.152 | 45 | 0.440 | 17 | 0.510 | 20 | 0.699 | 28 | 2.4 | 96 | 3.2 | 125 | 2.5 | 100 | 3.7 | 145 | 5.6 | 219 | 5.4 | 212 | 9.1 | 360 | 8.8 | 348 | 15.1 | 593 | 14.9 | 587 | 25.4 | 1002 |
| | 300 | 6.1 | 4.6 | 2.215 | 87 | 1.504 | 59 | 1.064 | 42 | 1.253 | 49 | 4.8 | 190 | 6.3 | 247 | 5.0 | 198 | 7.3 | 289 | 11.1 | 436 | 10.7 | 422 | 18.2 | 718 | 17.7 | 696 | 30.2 | 1189 | 29.6 | 1164 | 50.7 | 1995 |

## Environment

- **Compliance with EU Directive RoHS*1**
- **Reduction of resin usage in production** Use of hot runners in molds for making upper housing in order to reduce mill ends.

*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".

**—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 (lamp, 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. • These projectors use a mercury lamp with high internal pressure. Because of its properties, this lamp may burst with a loud noise or burn out if struck or after it has been used for a period of time. The time until it bursts or burns out varies greatly according to differences between lamps and usage conditions. Turning the lamp' s power on and off frequently shortens its service life. • Optical components other than the lamp: 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. • Do not turn projector on again for ten minutes after shutdown. Neglect can shorten the lifetime or the lamp. During use and immediately after use, do not touch anywhere near the lamp and the vents as these parts are extremely hot. • Each product may have differences of color, brightness and focus due to manufacture variation. • Blu-ray Disc™ and Blu-ray™ are trademarks of Blu-ray Disc Association. • Crestron Connected and the Crestron Connected Logo are registered trademarks of Crestron Electronics. • 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. • DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information. • HDBaseT™ and the HDBaseT Alliance logo are trademarks of the HDBaseT Alliance. • Extron® is registered trademark of RGB Systems, Incorporated. • All other trademarks are the properties of their respective owners.

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*Projected images are simulations

LINE UP

HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE

HDBT™

* The lens of the projector is sold separately.
* Local availability may be limited.

| WH MC-WU8701W<br>BL MC-WU8701B | WH MC-WU8601W | WH MC-WX8751W<br>BL MC-WX8751B | WH MC-WX8651W | WH MC-X8801W |
|---|---|---|---|---|
| WUXGA 7,000 lm | WUXGA 6,000 lm | WXGA 7,500 lm | WXGA 6,500 lm | XGA 8,000 lm |

Option lens

FL-710
Ultra short throw fixed lens
Zoom: ×1.0

USL-701
Ultra short zoom lens
Zoom: ×1.3

FL-701
Fixed short throw lens
Zoom: x1.0

SL-712
Short throw lens
Zoom: ×1.5

ML-713
Middle throw lens
Zoom: ×1.7

LL-704
Long throw lens
Zoom: ×1.7

UL-705
Ultra long throw lens
Zoom: ×1.7

## High Image Quality and Visibility

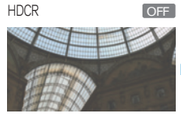
### ACCENTUALIZER and HDCR

ACCENTUALIZER makes pictures look more real by enhancing shade, sharpness, and gloss, to make pictures clearer. The HDCR function corrects blurred images caused by room lighting or outside light sources and creates an effect similar to increasing contrast resulting in clear images even in bright rooms.

* Comparison photos are simulations.

Bright room

HDCR OFF



HDCR ON

### IMAGE OPTIMIZER

Equipped with IMAGE OPTIMIZER that maintains visibility of an image through automatic image correction in accordance with lamp condition.

* This function may not work properly when HDCR and/or ACCENTUALIZER is ON.
* Comparison photos are simulations.

After long-hour use

IMAGE OPTIMIZER OFF

The entire image becomes dark.

IMAGE OPTIMIZER ON

Dark parts of the image becomes clear.

### COLOR MANAGEMENT

This feature allows you to change the HUE, SATURATION, and LUMINANCE for each of 6 colors (red, green, blue, cyan, magenta, and yellow) without influencing each other. With this technology, for example, you can change only bluish colors, such as the sky, while maintaining the other colors by adjusting the HUE of the blue.

* Comparison photos are simulations.

## Advanced Installability and System Features for Various Uses

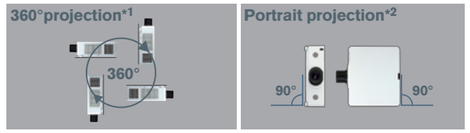
### Warping

This function is possible from your computer by using the specialized application. Projection is possible on spherical surfaces and surfaces with corners, as well as conventional flat screens.

* The specialized application for geometry correction is required.

### Various Installation

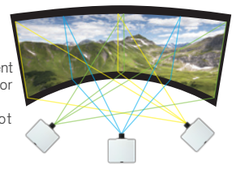
Projectors can be installed facing vertical 360 degrees directions*1. In addition, by rotating the installation position of the projector 90 degrees*2, you can project images that are vertically long. These features make it possible to provide various displays and image representations.




*1 When the ultra long throw lens UL-705 is attached, the projector cannot be installed facing its projection lens upward or downward.
*2 Limited to the position where the lamp door side faces upward. When the projector is used in a portrait installation, the service life of a lamp becomes shorter.

### Edge Blending

The projectors are equipped with the Edge Blending function that achieves further seamless projection of one image using multiple projectors, and allow to project on a huge curved screen by using the geometry correction simultaneously.

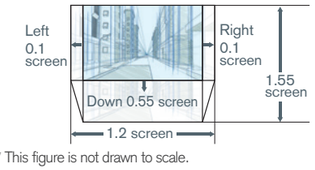


* Additional equipment may be required for this feature.
* This figure is not drawn to scale.

### Motorized Lens Shift

The motorized lens shift lets you choose more convenient installation locations, even for large spaces.

* The figure below shows the lens shift range for MC-WU8701W / MC-WU8701B / MC-WU8601W / MC-WX8751W / MC-WX8751B / MC-WX8651W with the optional middle throw lens ML-713 at the ceiling mounting position.

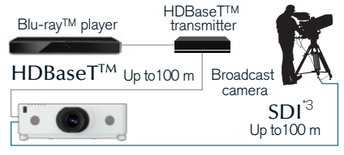



* This figure is not drawn to scale.

### Digital Connectivity

Equipped with 2 HDMI® input terminals for the current widely-used interface. In addition, these models have more rich digital connectivity, DisplayPort, HDBaseT™, and SDI*3 input terminals.

*3 SDI terminal is located on the MC-WU8701W/B only.



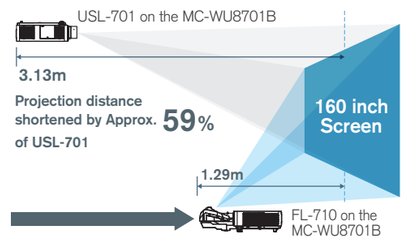

### Ultra Short Throw fixed lens

#### All Glass lens

FL-710 uses all glass lenses that reduce the blurring that occurs under changes between high and low temperature.

#### Ceiling mount HAS-404U

Ceiling mount bracket with 6-axis adjustment mechanism. Adopting the Jack system, it is easy to adjust elevation.

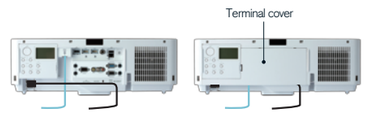



* Secure a clearance of 50 cm or greater between the exhaust vents and a screen or walls.
* This figure is not drawn to scale.

### Seamless Design*4

With the terminal cover, you can install the projector seamlessly.

* You may not be able to attach the terminal cover when cables and devices are connected to the connectors other than the HDBaseT™ terminal.
*4 This function is not supported and no terminal cover is bundled in some regions and countries.




## High Reliability and Stability

### Hybrid Filter

The projectors use a three-layer filter with two layers of unwoven cloth and a static electrode filter. The filter can last up to 20,000 hours*5 without cleaning, reducing maintenance time.

*5 This is an estimate of the acceleration test performed under the condition of 50mg/m³ suspension dust concentration using JIS (Japanese Industrial Standards) standard powder. Cleaning intervals vary depending on the use environment.

### Easy Maintenance

The lamp door and the filter cover are located on both sides, facilitating maintenance and replacement when the projector is installed on the ceiling. The serial number and MAC address are also labeled on the side chassis for easy readability.

### Status Monitor

The status monitor is a sub-LCD located on the rear panel of the projector. It displays the present condition of the projector, including errors, setup information, and error history.

**Real time monitoring**

- Lamp time ・Filter time
- Projector usage time
- IP Address

**Error and alarm message**

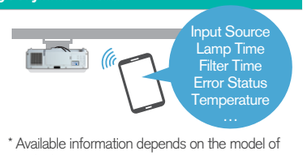
- Cover error ・Lamp error
- Temperature error
- Filter cleaning time

and more…

An error message turns on.

### Monitoring Projector Status

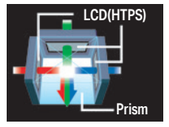
The projectors allow you to get the information displayed on the status monitor and more by your tablet or smartphone with the latest dedicated free online application when you need, even if you are not close to the projector.




* Available information depends on the model of projector.
The optional USB wireless adapter USB-WL-11N supporting IEEE802.11b/g/n is required when you connect the projector to a wireless network.

### Inorganic LCD panels

Maxell 3LCD projectors incorporate three LCD panels with inorganic alignment layers that are light resistant, increasing brightness and contrast ratio. They provide smooth images and high reliability.




### Other Features

**[Network]** : Projector Control, Wireless capability (option), Easy Scheduling Setting, Network presentation **[Installability]** : Perfect Fit, Instant Stack, Lens center design **[Security]** : PIN lock, Key lock, Lens lock **[Usability]** : Multi-language user menu, Direct Power On/Off, Magnify, PbyP / PinP, DICOM® simulation mode*6, Remote ID, Wired/Wireless(IR) remote control

*6 This projector is not a medical device and is not compliant with the DICOM® standard, and neither the projector nor the DICOM® Simulation Mode should be used for medical diagnosis.