

Specifications

|  |                                |   |
|--|--------------------------------|---|
| Model name                               |                                | MP-WU9101B  |
| Display system                           |                                | 1-chip DLP®   |
| Display device                           | Size of effective display area | 0.67" DLP® chip × 1, aspect ratio 16 : 10   |
|  | Number of pixels               | 2,304,000 pixels (1,920 horizontal × 1,200 vertical)  |
| Lens (option)                            | Zoom                           | Motorized (except for ultra short throw fixed lens FL-920)  |
|  | Focus                          | Motorized   |
|  | Lens shift                     | Motorized (V, H) (except for ultra short throw fixed lens FL-920)   |
| Light source                             |                                | Laser diode   |
| Screen size                              |                                | 50 - 600 inch (100 - 350 inch for ultra short throw fixed lens FL-920)  |
| Light output (Brightness)                |                                | 10,000 lm *1  |
| Contrast ratio (full white / full black) |                                | 30,000 : 1 (Dynamic Black setting is On.)   |
| Displayable scanning frequency           | Horizontal                     | 15 ~ 91 kHz   |
|  | Vertical                       | 24 ~ 85 Hz  |
| Display resolution                       | Computer                       | WUXGA *2 (max.) *Native resolution is WUXGA.  |
|  | Video                          | 1080P (max.) *Native resolution is WUXGA.   |
| Terminals                                | COMPUTER IN                    | Mini D-sub 15-pin connector × 1, 5BNC connector × 1   |
|  | HDMI IN                        | HDMI connector × 2 (HDCP compliant)   |
|  | DVI-D                          | DVI-D connector × 1   |
|  | SDI IN / OUT                   | BNC connector × 1 / BNC connector × 1   |
|  | HDBaseT                        | RJ-45 jack × 1  |
|  | CONTROL IN (RS-232C)           | D-sub 9-pin connector × 1   |
|  | REMOTE CONTROL IN              | 3.5mm (stereo) mini connector × 1   |
|  |                                |   |
| Operating temperature                    |                                | 0 - 45°C *The brightness of light source may be reduced automatically over 36°C at altitude from 0 to 1,219 m *3.   |
| Operating humidity                       |                                | 10 - 80%RH (non-condensing)   |
| Power requirements                       |                                | AC100 - 130V (50Hz / 60Hz), 13.4A *4<br>AC200 - 240V (50Hz / 60Hz), 6.2A  |
| Power consumption                        |                                | AC100 - 130V (50Hz / 60Hz) : 1340W<br>AC200 - 240V (50Hz / 60Hz) : 1240W  |
| Standby mode power consumption           |                                | Less than 0.5W at saving mode *5  |
| Standard outside dimension (WxHxD)       |                                | 500mm × 216mm × 576mm (19.7" × 8.5" × 22.7") (Excluding lens)   |
| Weight                                   |                                | Approx. 28kg (61.7lbs.) (Excluding lens)  |
| Accessories                              |                                | Remote control with two AA batteries, Power cord, Computer cable, RS-232C adapter cable (cross), Wired remote cable, User's Manual                          |
| Optional parts                           | Option lens                    | USL-901A (Ultra short throw lens)<br>SL-902 (Short throw lens)<br>SD-903 (Standard lens)<br>FL-920 (Ultra short throw fixed lens FL-900 with support metal) |
|  |                                | ML-904 (Middle throw lens)<br>LL-905 (Long throw lens)<br>UL-906 (Ultra long throw lens)  |
|  | Mounting accessories           | HAS-L9750 (Bracket for fixing mount)<br>HAS-1045 (Slim adapter for fixing mount)<br>HAS-204L (Standard adapter for fixing mount)                            |
|  |                                | HAS-304H (Long adapter for fixing mount)<br>HAS-404U (Ceiling mount with 6-axis adjustment)<br>HAS-204L (Standard adapter for fixing mount)                 |

\*1 Picture Mode setting is Dynamic, Eco Mode setting is Normal, attached lens is SD-903, and lens shift position is center (V/H : 0%). \*2 WUXGA (60Hz) Reduced Blanking only. \*3 over 30° C at altitude from 1,219 to 1,676 m, over 25° C at altitude from 1,676 to 4,200 m. \*4 Recommended circuit size : 20A (for 110-130V) \*5 Can't operate the projector via the LAN and the RS-232C when projector is in standby mode.

Dimensions

\* Image with Standard Lens SD-903 mounted.



Environment

- Compliance with EU Directive RoHS\*\*
- 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".

—Design and specifications are subject to change without notice.

- The projected images and comparison photos in this catalog are simulations.
- 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, DLP® chip, etc.) and cooling fans 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.
- 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.
- DLP® and the DLP logo are registered trademarks of Texas Instruments.
- Crestron Connected and the Crestron Connected logo are registered trademarks of Crestron Electronics.
- DiCOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.
- 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.
- 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.
- This projector is a CLASS 1 LASER PRODUCT (IEC/EN 60825-1:2014). (CLASS 3R LASER PRODUCT (IEC/EN 60825-1:2007) for the U.S.A. and Canada)

**LASER RADIATION**  
AVOID DIRECT EYE EXPOSURE  
CLASS 3R LASER PRODUCT  
Wavelength: 450-460 nm  
Max. Pulse energy: 0.253 mJ, Pulse duration: 0.5 ms  
IEC/EN 60825-1:2007

**RAYONNEMENT LASER**  
ÉVITER D'EXPOSER DIRECTEMENT LENS YEUX  
PRODUIT LASER DE CLASSE 3R  
Longueur D'onde : 450-460nm  
Énergie D'impulsion Max : 0.253 mJ, Durée de L'impulsion : 0.5 ms  
IEC/EN 60825-1:2007

**LASERSTRAHLUNG**  
DIREKTE EXPOSITION DER AUGEN VERMEIDEN  
LASERPRODUKT DER KLASSE 3R  
Wellenlänge : 450-460 nm  
Max. Pulsennergie: 0.253 mJ, Pulsdauer: 0.5 ms  
IEC/EN 60825-1:2007

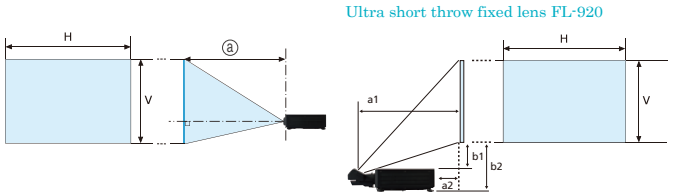


Maxell, Ltd. 5030 Totsuka-cho, Totsuka-ku Yokohama, 244-0003, Japan <http://proj.maxell.co.jp/en/>

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Projection Distance



H x V : Screen size

① : Projection distance (from the projector's front panel to screen) (±10%)

\*The figures are not drawn to scale.

H x 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)

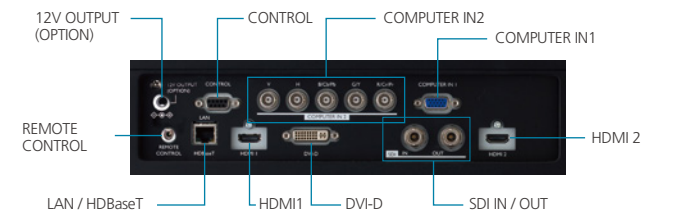
| 1,920 x 1,200 (Aspect ratio 16 : 10) |      |          |       |        |       |        |       |        |       |        |       |        |       |
|--------------------------------------|------|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| meter                                |      |          |       |        |       |        |       |        |       |        |       |        |       |
| Screen size                          |      | USL-901A |       | SL-902 |       | SD-903 |       | ML-904 |       | LL-905 |       | UL-906 |       |
| Type                                 | H(m) | V(m)     | @min. | @max.  | @min. | @max.  | @min. | @max.  | @min. | @max.  | @min. | @max.  | @min. |
| 80                                   | 1.7  | 1.1      | 1.4   | 1.7    | 2.0   | 3.0    | 2.8   | 4.3    | 4.2   | 6.4    | 6.0   | 9.8    | 9.6   |
| 100                                  | 2.2  | 1.3      | 1.7   | 2.1    | 2.5   | 3.8    | 3.5   | 5.3    | 5.2   | 7.9    | 7.6   | 12.2   | 12.0  |
| 120                                  | 2.6  | 1.6      | 2.0   | 2.5    | 3.0   | 4.5    | 4.3   | 6.4    | 6.3   | 9.5    | 9.1   | 14.7   | 14.3  |
| 150                                  | 3.2  | 2.0      | 2.5   | 3.2    | 3.8   | 5.7    | 5.3   | 8.0    | 7.8   | 11.9   | 11.4  | 18.4   | 17.9  |
| 300                                  | 6.5  | 4.0      | 5.1   | 6.3    | 7.6   | 11.3   | 10.7  | 16.0   | 15.7  | 23.9   | 22.9  | 36.9   | 35.5  |
| 500                                  | 10.8 | 6.7      | 8.4   | 10.5   | 12.7  | 18.9   | 17.8  | 26.6   | 26.1  | 39.8   | 38.2  | 61.5   | 59.0  |

| inch        |        |          |       |        |       |        |       |        |       |        |       |        |       |
|-------------|--------|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| Screen size |        | USL-901A |       | SL-902 |       | SD-903 |       | ML-904 |       | LL-905 |       | UL-906 |       |
| Type        | H(in.) | V(in.)   | @min. | @max.  | @min. | @max.  | @min. | @max.  | @min. | @max.  | @min. | @max.  | @min. |
| 80          | 68     | 42       | 54    | 67     | 80    | 119    | 111   | 167    | 164   | 250    | 238   | 385    | 380   |
| 100         | 85     | 53       | 67    | 84     | 100   | 149    | 140   | 209    | 205   | 313    | 298   | 482    | 472   |
| 120         | 102    | 64       | 80    | 100    | 120   | 179    | 168   | 251    | 246   | 376    | 359   | 579    | 565   |
| 150         | 127    | 79       | 100   | 125    | 150   | 223    | 210   | 314    | 308   | 469    | 449   | 724    | 703   |
| 300         | 254    | 159      | 200   | 248    | 300   | 446    | 420   | 629    | 617   | 939    | 902   | 1452   | 1397  |
| 500         | 424    | 265      | 332   | 413    | 501   | 744    | 700   | 1048   | 1029  | 1566   | 1505  | 2422   | 2322  |

| meter       |      |        |       |        |       |       |
|-------------|------|--------|-------|--------|-------|-------|
| Screen size |      | FL-920 |       |        |       |       |
| Type        | H(m) | V(m)   | a1    | a2     | b1    | b2    |
| 100         | 2.2  | 1.3    | 0.817 | -0.022 | 0.376 | 0.592 |
| 120         | 2.6  | 1.6    | 0.969 | 0.130  | 0.464 | 0.680 |
| 150         | 3.2  | 2.0    | 1.196 | 0.357  | 0.595 | 0.811 |
| 300         | 6.5  | 4.0    | 2.331 | 1.492  | 1.250 | 1.466 |
| 350         | 7.5  | 4.7    | 2.709 | 1.870  | 1.469 | 1.685 |

| inch        |        |        |     |    |    |    |
|-------------|--------|--------|-----|----|----|----|
| Screen size |        | FL-920 |     |    |    |    |
| Type        | H(in.) | V(in.) | a1  | a2 | b1 | b2 |
| 100         | 85     | 53     | 32  | -1 | 15 | 23 |
| 120         | 102    | 64     | 38  | 5  | 18 | 27 |
| 150         | 127    | 79     | 47  | 14 | 23 | 32 |
| 300         | 254    | 159    | 92  | 59 | 49 | 58 |
| 350         | 297    | 185    | 107 | 74 | 58 | 66 |

Terminals



LASER Projector



The long-life laser light source allows long continuous projection.



MP-WU9101B

WUXGA 10,000 lm



\* Projected images are simulations.  
\* Projector image with Standard Lens SD-903 mounted.  
\* The lens of the projector is sold separately.





# MP-WU9101B

WUXGA 10,000 lm

LASER  
Light  
Source

HDMI® CHDBT™



\* Image with Standard Lens SD-903 mounted.  
\* The lens of the projector is sold separately.

## Option lens



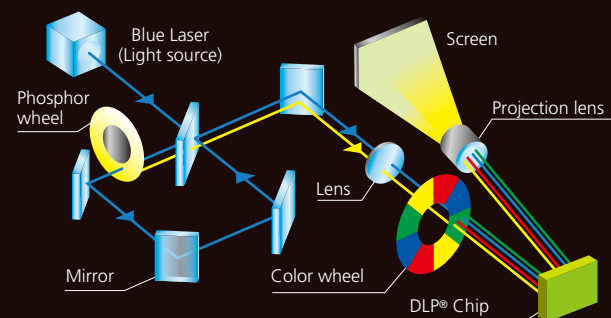
\* Local availability may be limited.

## High Reliability and Stability

### Long life 20,000 hours\*<sup>1</sup> Laser light source

Light source combined Blue laser diodes and Phosphor can achieve high brightness of 10,000 lumens. The projection image has a bright, clear and vivid in color. Since lamp exchange is unnecessary, maintenance cost is reduced. Furthermore, you do not need to worry about lamp life, and it is fit for digital signage purposes that require long hours of continuous projection. Because the product does not use mercury lamps, it is eco-friendly.

\*<sup>1</sup> For laser light source. Not a guaranteed value.



### Dust Resistant structure by sealed engine

Reduces the invasion of dust and other particles in the air that decreases the brightness when they get attached to the optical parts. Reduces the decrease in brightness due to dust, resulting in a long lasting bright, clear, and vivid colored picture. Eliminates the intake filter and filter maintenance.

### Cooling System that Provides High Reliability

A liquid-cooling system is applied for laser light source cooling. This projector achieves long life of up to 20,000 hours\*<sup>2</sup> though high brightness.

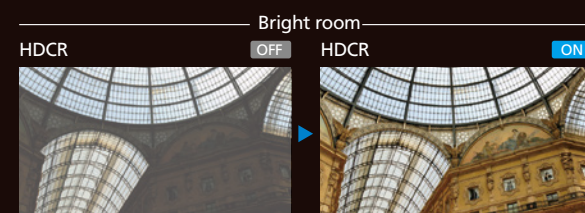
\*<sup>2</sup> For laser light source. Not a guaranteed value.

## High Image Quality

### 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.

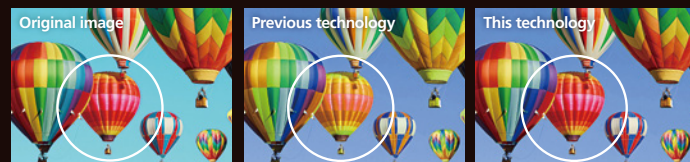
\* Comparison photos are simulations.



### 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.

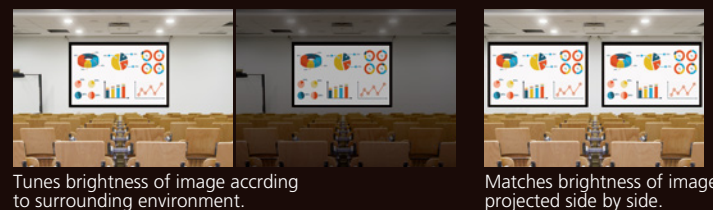
\* Comparison photos are simulations.



### Laser Power Level Control

Power of laser light source is controllable by every 1% step\*<sup>3</sup>. You can adjust brightness of projection image to fits the luminance of the environment and can save power consumption. This feature helps you to adjust the similar brightness of projectors, for example, the side-by-side projection and the edge blending applications.

\*<sup>3</sup> The adjustment range is 20~100% at Custom mode.



## Advanced Installability and System Features for Various Uses

### Geometry Correction

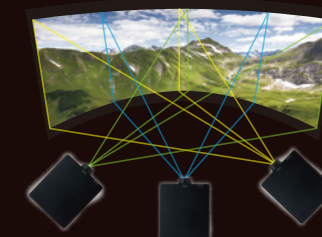
Geometry correction is possible from your computer by using the specialized application. Projection is possible on spherical surfaces and surfaces with corners, as well as conventional flat screens.



\* The specialized application for geometry correction is required.

### Edge Blending

The multiple projectors allow to project one image on a huge curved screen by using the geometry correction and the edge blending functions\*<sup>4</sup> simultaneously.



\*<sup>4</sup> Additional equipment may be required for the feature.

### 360° Projection

This projector provides great installation flexibility as it can be installed at various angle\*<sup>5</sup>.

\*<sup>5</sup> The life of optical parts may shorten if the projector is installed with the lens facing downward or the IO connector side upward.



### Digital Connectivity

Equipped with an SDI input, the standard in the broadcast industry. 3G SDI can transfer 1080P signals via a coaxial cable. Projectors provide 5 digital inputs: SDI, HDBaseT™, HDMI®1/2, and DVI-D.



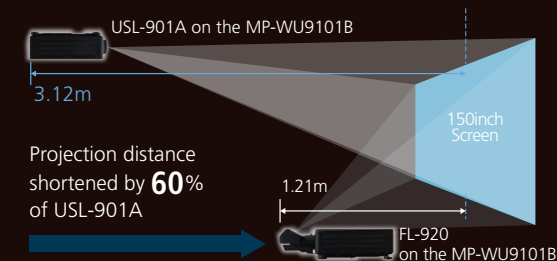
### Ultra Short Throw fixed lens FL-920 features

#### All Glass lens

FL-920 uses all glass lenses that reduce the blurring that occurs under changes between high and low temperature.

#### Ceiling mount HAS-404U

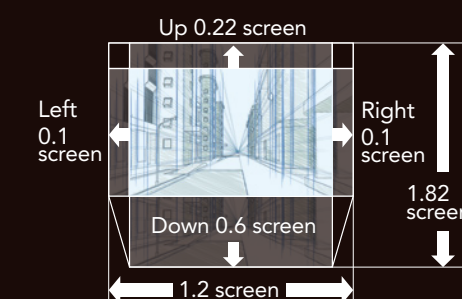
Ceiling mount bracket with 6-axis adjustment mechanism. Adopting the jack system, perform , it is easy to adjust elevation.



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

### Motorized Lens Shift

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



\* This figure shows the lens shift range for the projector with the optional lens SD-903 at the ceiling mounting position.

\* This figure is not drawn to scale.

### Other Features

- Perfect Fit · DICOM®\*<sup>6</sup> simulation mode · PhYP / PinP · Wired Remote & Remote ID

\*<sup>6</sup> 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.

\* Projected images are simulations.