## Specifications

| | | |
|---|---|---|
| Model name | | LP-WU9100B |
| 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. |
| Power requirements | | AC100 - 130V (50Hz / 60Hz) 13.4A *4<br>AC200 - 240V (50Hz / 60Hz) 6.2A |
| Power consumption | | AC100 - 130V : 1340W<br>AC200 - 240V : 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 batteries, Power cord, Computer cable, RS-232C adapter cable (cross), Wired remote cable, User's Manual (Book, CD) |
| Optional parts | | USL-901A (Ultra short throw lens)<br>SL-902 (Short throw lens)<br>SD-903 (Standard lens)<br>ML-904 (Middle throw lens)<br>LL-905 (Long throw lens)<br>UL-906 (Ultra long throw lens)<br>FL-920 (Ultra short throw fixed lens FL-900 with support metal)<br>HAS-L9750 (Bracket for fixing mount)<br>HAS-104S (Slim adapter for fixing mount)<br>HAS-204L (Standard adapter for fixing mount)<br>HAS-304H (Long adapter for fixing mount)<br>HAS-404U (Ceiling mount with 6-axis adjustment) |

*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.

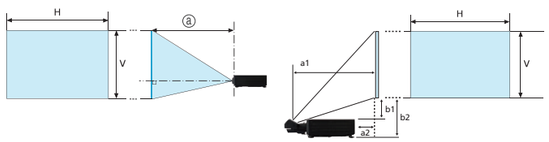

## Environment

- **Compliance with EU Directive RoHS*1**
- **Power saving mode engaged during standby**
- **Eco mode**
  Eco mode provides power saving.
- **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".

## Projection Distance

Ultra short throw fixed lens FL-920




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

**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. | @max. |
| 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 | 15.3 |
| 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 | 19.0 |
| 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 | 22.8 |
| 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 | 28.4 |
| 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 | 56.5 |
| 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 | 94.0 |

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. | @max. |
| 80 | 68 | 42 | 54 | 67 | 80 | 119 | 111 | 167 | 164 | 250 | 238 | 385 | 380 | 601 |
| 100 | 85 | 53 | 67 | 84 | 100 | 149 | 140 | 209 | 205 | 313 | 298 | 482 | 472 | 749 |
| 120 | 102 | 64 | 80 | 100 | 120 | 179 | 168 | 251 | 246 | 376 | 359 | 579 | 565 | 896 |
| 150 | 127 | 79 | 100 | 125 | 150 | 223 | 210 | 314 | 308 | 469 | 449 | 724 | 703 | 1118 |
| 300 | 254 | 159 | 200 | 248 | 300 | 446 | 420 | 629 | 617 | 939 | 902 | 1452 | 1397 | 2225 |
| 500 | 424 | 265 | 332 | 413 | 501 | 744 | 700 | 1048 | 1029 | 1566 | 1505 | 2422 | 2322 | 3701 |

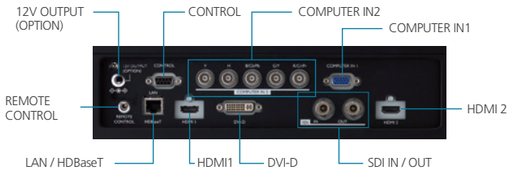
meter

| 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




**—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.
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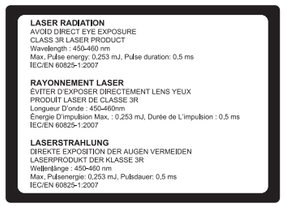
- All other trademarks are the properties of their respective owners.
- This projector is a CLASS 1 LASER PRODUCT (IEC/EN 60825-1:2014). (CLASS 3R LASER PRODUCT (IEC/EN 60825-1:2007) for the U.S.A. and Canada)





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| **Hitachi Consumer Marketing, Inc.** | http://www.hitachi.co.jp/proj/ |
| **Development and Manufacture : Maxell, Ltd.** | |



March 2018

**NM-E502** 032018


**LASER Projector**

HITACHI
Inspire the Next

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

LP-WU9100B
WUXGA 10,000 lm

DLP TEXAS INSTRUMENTS
Extron XTP CERTIFIED
AMX DISCOVERY
CRESTRON connected

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

# LP-WU9100B

WUXGA | 10,000 lm

LASER Light Source

HDMI® HDBT™

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

## Option lens

**FL-920**
Ultra short throw fixed lens
Zoom: ×1.0

**USL-901A**
Ultra short throw lens
Zoom: ×1.3

**SL-902**
Short throw lens
Zoom: ×1.5

**SD-903**
Standard lens
Zoom: ×1.5

**ML-904**
Middle throw lens
Zoom: ×1.5

**LL-905**
Long throw lens
Zoom: ×1.6

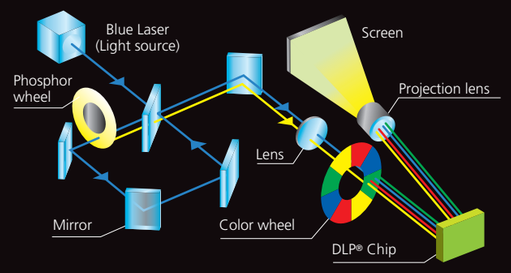
**UL-906**
Ultra long throw lens
Zoom: ×1.6

# High Reliability and Stability

## Long life 20,000 hours*1 Laser light source

Light source combined Blue laser diodes and Phosphor can achieve 10,000 lumens. The projection image is bright, clear and vivid 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.

*1 For laser light source. Not a guaranteed value.




## Dust Resistant Optical 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

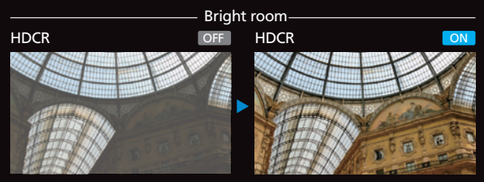
A liquid-cooling system is applied for laser light source cooling. This projector achieves long life of up to 20,000 hours*2 though high brightness.

*2 For laser light source. Not a guaranteed value.

# High Image Quality

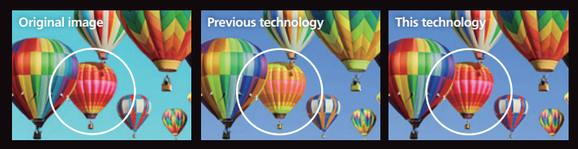
## ACCENTUALIZER and HDCR

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.




## COLOR MANAGEMENT

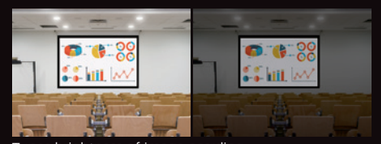
This feature allows you to change the HUE, SATURATION, and LUMINANCE for each of 6 colors (red, green, blue, cyan, magenta, and yellow) without influencing each other.
With this technology, for example, you can change only bluish colors, such as the sky, while maintaining the other colors by adjusting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




## Laser Power Level Control

Power of laser light source is controllable by every 1% step*3.
It allows the brightness of projection image fits in the luminance environment and can save the power consumption.
This feature helps you to adjust the similar brightness of projectors in such the side-by-side projection and the edge blending applications.

*3 The adjustment range is 20~100% at Custom mode.



Tunes brightness of image accrding to surrounding environment.

Matches brightness of images projected side by side.

# Advanced Installability and System Features for Various Uses

## Geometry Correction

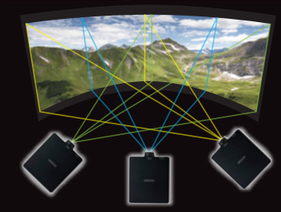
Geometry correction is possible from your computer by using the specialized application. Projection is possible on spherical surfaces and surfaces with corners, as well as conventional flat screens.

Spherical object | Corner wall | Curved screen | Curved screen

## Edge Blending & Warping

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

*4 Additional equipment may be required for the feature.



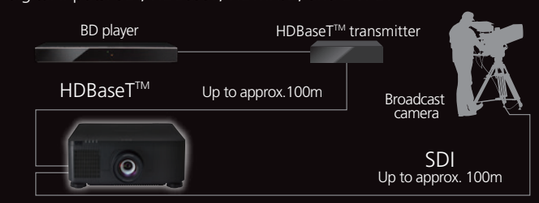
## 360° Projection

This projector provides great installation flexibility as it can be installed at various angle*5.

*5 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, HDMI1/2, and DVI-D.



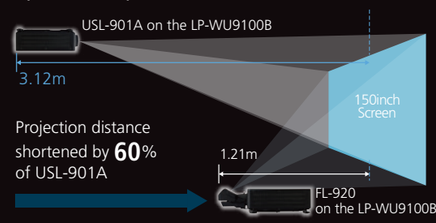

## Ultra Short Throw fixed lens FL-920 features

### All Glass lens

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

### Ceiling mount HAS-404U

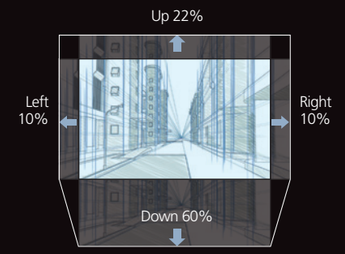
Ceiling mount bracket with 6-axis adjustment mechanism. Adopting a jack system, perform elevation adjustment easily.




* Maintain enough space around the projector's exhaust port.

## 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.

**Other Features** · Perfect fit · DICOM® simulation mode · PbyP / PinP · Wired Remote & Remote ID

*Projected images are simulations.