# FL-900 LENS

## SPECIFICATIONS

| | |
|---|---|
| F Number : | **2.0** |
| Throw ratio : | **0.39 : 1 (CP-X9110)** |
| | **0.40 : 1 (CP-WX9210)** |
| | **0.38 : 1 (CP-WU9410 / WU9411)** |
| | **0.38 : 1 (CP-HD9320 / HD9321)** |
| Focal Length : | **5.6 mm** |
| Dimensions (WxHxD) : | **(W) 279 x (H) 181 x (D) 404 mm** |
| Weight : | **Approx. 3.1kg** |
| Applicable Projectors : | **CP-WU9410, CP-WU9411,** |
| | **CP-HD9320, CP-HD9321,** |
| | **CP-WX9210, CP-X9110** |

# FL-900
# SEE LIFE THROUGH A DIFFERENT LENS



537

438

289



537

205

727

**Units: mm**

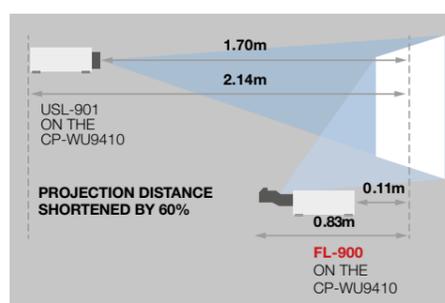289

ULTRA SHORT THROW LENS
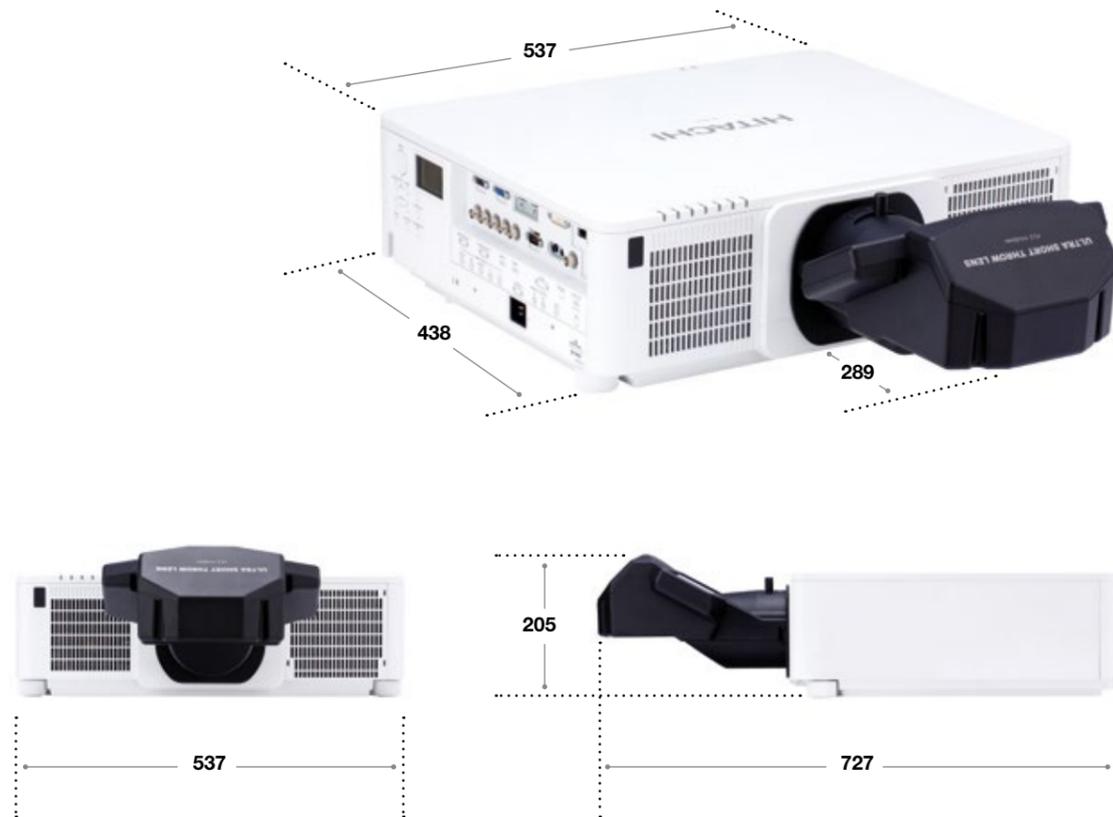
F2.0  f=5.62mm

FILTER  SHUTTER  SECURITY  LAMP-2  LAMP-1  TEMP.  POWER

# INTRODUCING THE NEW FL-900 LENS

The new FL-900 lens opens up a world of possibilities. By reducing the throw distance of our 9000 Series projectors by 60%, we've managed to bring Ultra-Short Throw flexibility to the Installation category.

This allows you to achieve the brightness, vivid colour and 24/7 usability of the 9000 Series in spaces that would otherwise be too small.



1.70m

2.14m

USL-901
ON THE
CP-WU9410

**PROJECTION DISTANCE
SHORTENED BY 60%**

0.11m

0.83m

**FL-900**
ON THE
CP-WU9410

The 9000 Series comes well-equipped with an excellent range of multi-projector capabilities. From Geometric Correction and Perfect Fit to Portrait Projection and Edge Blending, there are a host of features available to make your installations more exciting.

And all this is now available in tighter, more limited spaces than ever before thanks to the FL-900 lens.
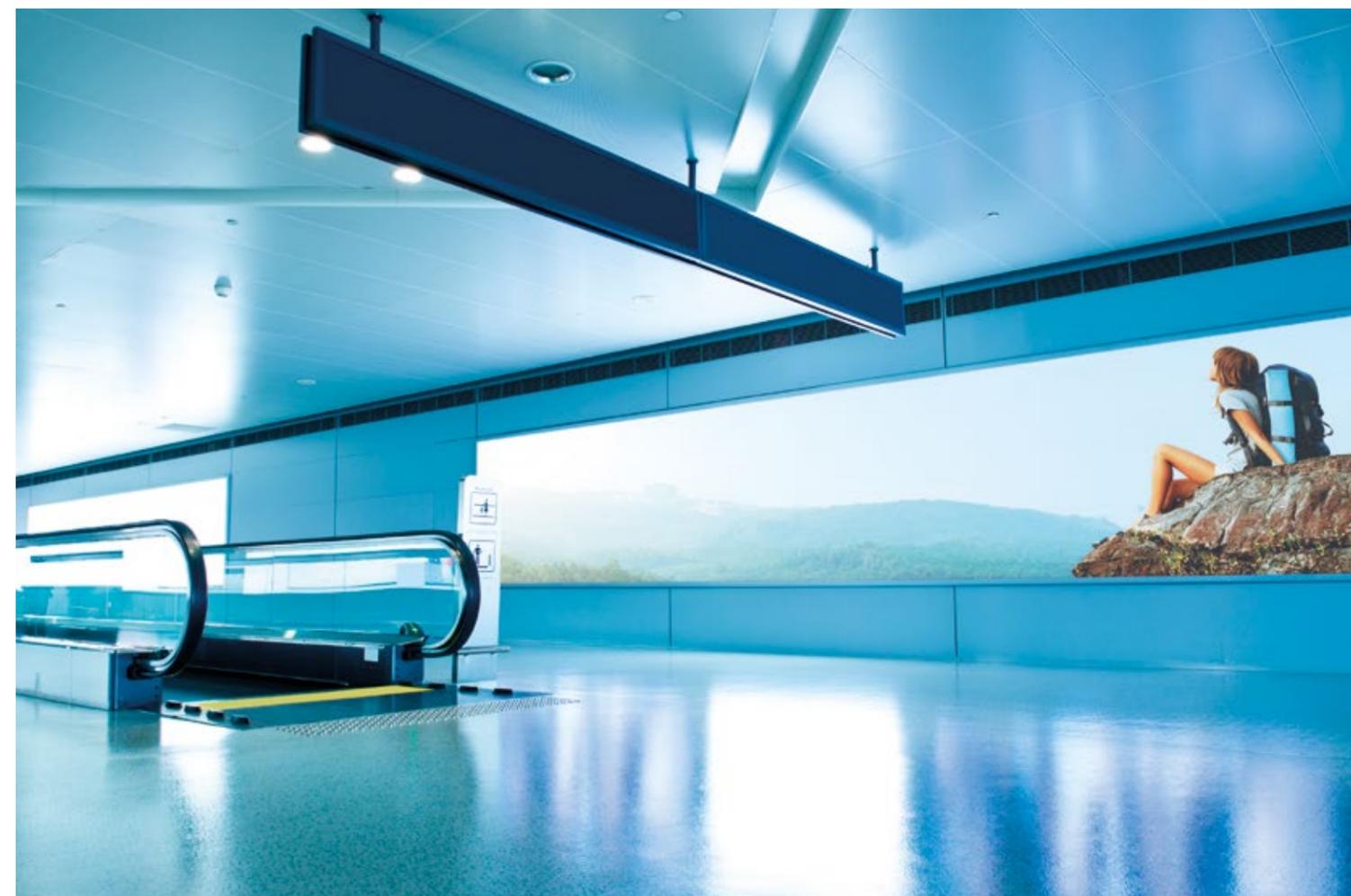
# FL-900 LENS
# EDGE BLENDING IN LIMITED SPACES

Hitachi projectors are equipped with built-in Edge Blending technology that allows multiple projectors to achieve one large, seamless image. And, with the addition of the FL-900 lens, you're able to take advantage of this technology in even the trickiest of spaces.
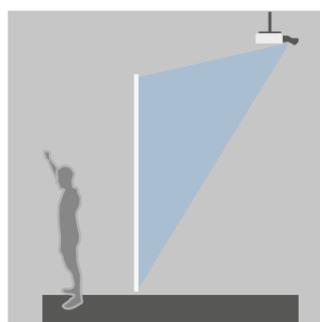
## WIDE RANGE OPERATIONAL TEMPERATURE FROM 0⁰C-60⁰C

The FL-900 lens utilises glass optics which are less effected by heat compared to commonly used plastic components. Allowing for installation opportunities in all kinds of naturally warm spaces, including underground train stations and outdoor areas.

## FL-900 LENS
## LARGE SCREEN PROJECTION ON STAGES

The 9000 Series delivers exceptional brightness, vivid colours and high performance in a wide variety of environments.

With the Ultra-Short Throw capability of the FL-900 lens, you can achieve the exact same standards of projection in a fraction of the throw distance.

And because the projector does not need to be installed at height, it makes installation and dismantling easy.

## DIGITAL SIGNAGE BEHIND THE SHOW WINDOW DISPLAYS
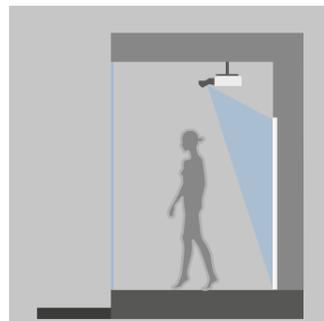
The 9000 Series and FL-900 lens allows you to deliver real impact from short range, creating eye-catching, bright high quality images from areas usually compromised by rear projection.

The throw distance for a 100" screen, for example, would only be 0.83m compared with 1.7m for a USL-901 lens.

## FL-900 LENS PROJECTION DISTANCE WITH 9000 SERIES

L1 : **Projection distance (from screen to glass centre)**
L2 : **From screen to end of lens**
L3 : **From screen to front of projector**
L4 : **From screen to rear of projector**
L5 : **From cover glass to end of lens (L2-L1)**

A1 : **From bottom edge of screen to top of projector**
A2 : **From bottom edge of screen to bottom of projector**
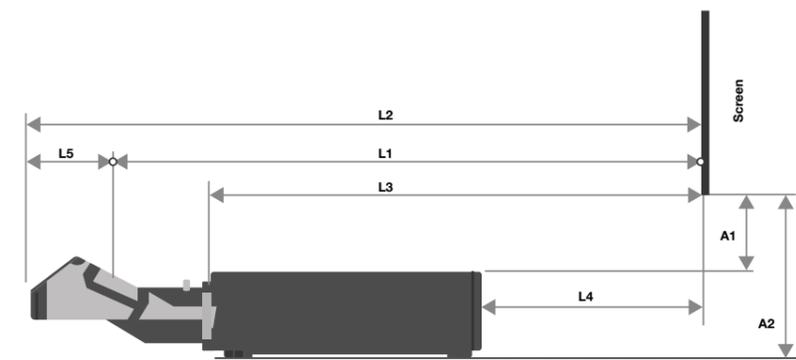


We have put together a quick reference guide to help you choose the projector that is right for you.

| MODEL | IMAGE SIZE (INCH) | The unit of measurement here is metres | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | L1 | L2 | L3 | L4 | L5 | A1 | A2 |
| CP-WU9410 CP-WU9411 (WUXGA) | 100 | 0.69 | 0.83 | 0.54 | 0.11 | 0.14 | 0.38 | 0.55 |
| | 150 | 1.07 | 1.21 | 0.92 | 0.49 | 0.14 | 0.60 | 0.77 |
| | 200 | 1.45 | 1.59 | 1.30 | 0.86 | 0.14 | 0.82 | 0.99 |
| | 250 | 1.83 | 1.97 | 1.68 | 1.24 | 0.14 | 1.03 | 1.20 |
| | 300 | 2.21 | 2.35 | 2.06 | 1.62 | 0.14 | 1.25 | 1.42 |
| | 350 | 2.59 | 2.73 | 2.44 | 2.00 | 0.14 | 1.47 | 1.64 |
| CP-HD9310 CP-HD9311 (Full HD) | 100 | 0.72 | 0.85 | 0.57 | 0.13 | 0.14 | 0.47 | 0.64 |
| | 150 | 1.10 | 1.24 | 0.95 | 0.52 | 0.14 | 0.74 | 0.91 |
| | 200 | 1.49 | 1.63 | 1.34 | 0.91 | 0.14 | 1.00 | 1.17 |
| | 250 | 1.88 | 2.02 | 1.73 | 1.29 | 0.14 | 1.26 | 1.43 |
| | 300 | 2.27 | 2.41 | 2.12 | 1.68 | 0.14 | 1.53 | 1.70 |
| | 350 | 2.66 | 2.80 | 2.51 | 2.07 | 0.14 | 1.79 | 1.96 |
| CP-WX9210 CP-WX9211 (WXGA) | 100 | 0.73 | 0.87 | 0.58 | 0.14 | 0.14 | 0.51 | 0.68 |
| | 150 | 1.13 | 1.27 | 0.98 | 0.54 | 0.14 | 0.80 | 0.97 |
| | 200 | 1.53 | 1.67 | 1.38 | 0.94 | 0.14 | 1.09 | 1.26 |
| | 250 | 1.92 | 2.06 | 1.77 | 1.34 | 0.14 | 1.37 | 1.54 |
| | 300 | 2.32 | 2.46 | 2.17 | 1.73 | 0.14 | 1.66 | 1.83 |
| | 350 | 2.72 | 2.86 | 2.57 | 2.13 | 0.14 | 1.94 | 2.11 |
| CP-X9110 XP-X9111 (XGA) | 100 | 0.68 | 0.82 | 0.53 | 0.09 | 0.14 | 0.36 | 0.53 |
| | 150 | 1.05 | 1.19 | 0.90 | 0.46 | 0.14 | 0.57 | 0.74 |
| | 200 | 1.42 | 1.56 | 1.27 | 0.83 | 0.14 | 0.78 | 0.95 |
| | 250 | 1.79 | 1.93 | 1.64 | 1.20 | 0.14 | 0.99 | 1.16 |
| | 300 | 2.16 | 2.30 | 2.01 | 1.57 | 0.14 | 1.20 | 1.37 |
| | 350 | 2.53 | 2.67 | 2.38 | 1.94 | 0.14 | 1.41 | 1.58 |