Multiple lens options for greater installation flexibility.

<table>
<thead>
<tr>
<th>Lens</th>
<th>USL901</th>
<th>SL902</th>
<th>SD903W</th>
<th>SD903X</th>
<th>ML904</th>
<th>LL905</th>
<th>UL906</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Zoom Ratio</strong></td>
<td>x 1.3</td>
<td>x 1.5</td>
<td>x 1.5</td>
<td>x 1.5</td>
<td>x 1.5</td>
<td>x 1.5</td>
<td>x 1.6</td>
</tr>
<tr>
<td><strong>F Number</strong></td>
<td>1.8 (Wide) - 2.3 (Tele)</td>
<td>1.8 (Wide) - 2.3 (Tele)</td>
<td>1.8 (Wide) - 2.0 (Tele)</td>
<td>1.8 (Wide) - 2.3 (Tele)</td>
<td>1.8 (Wide) - 2.2 (Tele)</td>
<td>1.8 (Wide) - 2.3 (Tele)</td>
<td></td>
</tr>
<tr>
<td><strong>Focal Length</strong></td>
<td>11 mm (Wide) - 14 mm (Tele)</td>
<td>17 mm (Wide) - 25 mm (Tele)</td>
<td>24 mm (Wide) - 36 mm (Tele)</td>
<td>24 mm (Wide) - 36 mm (Tele)</td>
<td>35 mm (Wide) - 54 mm (Tele)</td>
<td>51 mm (Wide) - 83 mm (Tele)</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>7.8 x 5.9 x 6.0 in.</td>
<td>7.9 x 5.9 x 6.0 in.</td>
<td>7.2 x 5.0 x 6.0 in</td>
<td>7.2 x 5.0 x 6.0 in</td>
<td>8.6 x 5.0 x 6.0 in</td>
<td>9.1 x 5.0 x 6.0 in</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>4.0 lbs.</td>
<td>4.4 lbs.</td>
<td>2.9 lbs.</td>
<td>2.9 lbs.</td>
<td>4.0 lbs.</td>
<td>4.2 lbs.</td>
<td>4.0 lbs.</td>
</tr>
<tr>
<td><strong>Image Size</strong></td>
<td>50&quot; – 600&quot;</td>
<td>50&quot; – 600&quot;</td>
<td>50&quot; – 600&quot;</td>
<td>50&quot; – 600&quot;</td>
<td>50&quot; – 600&quot;</td>
<td>50&quot; – 600&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Seven lenses are available to match various screen sizes and installation environments. Projection is possible in diverse installation areas from small conference rooms to auditoriums, convention halls, and other large spaces.

**USL901**
- **Ultra short throw lens**
- **Zoom**: x 1.3
- **Projection Distance**
  - CP-WU9410: 67"–84" (1.7-2.1m)
  - CP-WX9210: 71"–88" (1.8-2.2m)
  - CP-X9110: 66"–82" (1.7-2.1m)
- **Throw Ratio**: 0.8 - 1.0
- **Projection distances for optional lenses when projecting onto a 100" screen**

**SL902**
- **Short throw lens**
- **Zoom**: x 1.5
- **Projection Distance**
  - CP-WU9410: 100"–149" (2.5-3.8m)
  - CP-WX9210: 105"–156" (2.7-4.0m)
  - CP-X9110: 98"–146" (2.5-3.7m)
- **Throw Ratio**: 1.1 - 1.7
- **Projection distances for optional lenses when projecting onto a 100" screen**

**SD903W**
- **Standard lens**
- **Zoom**: x 1.5
- **Projection Distance**
  - CP-WU9410: 140"–209" (3.5-5.3m)
  - CP-WX9210: 147"–220" (3.7-5.6m)
- **Throw Ratio**: 1.6 - 2.4
- **Projection distances for optional lenses when projecting onto a 100" screen**

**SD903X**
- **Standard lens**
- **Zoom**: x 1.5
- **Projection Distance**
  - CP-X9110: 136"–205" (3.5-5.2m)
- **Throw Ratio**: 1.7 - 2.5
- **Projection distances for optional lenses when projecting onto a 100" screen**

**ML904**
- **Middle lens**
- **Zoom**: x 1.5
- **Projection Distance**
  - CP-WU9410: 205"–313" (5.2-7.9m)
  - CP-WX9210: 216"–329" (5.5-8.3m)
  - CP-X9110: 200"–306" (5.1-7.8m)
- **Throw Ratio**: 2.4 - 3.6
- **Projection distances for optional lenses when projecting onto a 100" screen**

**LL905**
- **Long throw lens**
- **Zoom**: x 1.6
- **Projection Distance**
  - CP-WU9410: 298"–482" (7.6-12.2m)
  - CP-WX9210: 314"–506" (8.0-12.9m)
  - CP-X9110: 291"–471" (7.4-12.0m)
- **Throw Ratio**: 3.5 - 5.6
- **Projection distances for optional lenses when projecting onto a 100" screen**

**UL906**
- **Ultra long throw lens**
- **Zoom**: x 1.6
- **Projection Distance**
  - CP-WU9410: 472"–749" (12.0-19.0m)
  - CP-WX9210: 496"–786" (12.6-20.0m)
  - CP-X9110: 462"–732" (11.7-18.6m)
- **Throw Ratio**: 5.5 - 8.8
- **Projection distances for optional lenses when projecting onto a 100" screen**
**900 Series Optional Lenses**

For 9000 Professional Series Projectors

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**900 Series Lenses**

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**Lens Shift**

Vertical or horizontal distance from the center of the projected image to the point where the lens axis intersects the screen. Illustrations below show the range of Lens Shift when the projector is installed upside down such as ceiling mount.

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### 900 Series Lens Shift

<table>
<thead>
<tr>
<th></th>
<th>USL901</th>
<th>USL902</th>
<th>SD903X/SD903W</th>
<th>ML904</th>
<th>LL905</th>
<th>UL906</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CP-X9110</strong></td>
<td>Left/Right</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
</tr>
<tr>
<td></td>
<td>Down</td>
<td>0-50%</td>
<td>0-55%</td>
<td>0-55%</td>
<td>0-55%</td>
<td>0-55%</td>
</tr>
<tr>
<td><strong>CP-WX9210</strong></td>
<td>Left/Right</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
</tr>
<tr>
<td></td>
<td>Down</td>
<td>0-55%</td>
<td>0-65%</td>
<td>0-65%</td>
<td>0-65%</td>
<td>0-65%</td>
</tr>
<tr>
<td><strong>CP-WU9410</strong></td>
<td>Left/Right</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
<td>0-10%</td>
</tr>
<tr>
<td></td>
<td>Down</td>
<td>0-50%</td>
<td>0-60%</td>
<td>0-60%</td>
<td>0-60%</td>
<td>0-60%</td>
</tr>
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