Tele-zoom lens for projector

MODEL AH-55701

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OWNER'S MANUAL
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English
When the distance from the lens center to the bottom of the image \( H \) is a negative number, allow a margin of error in the value in the diagrams above.

### 16:10 Signal Input (Normal Mode)

<table>
<thead>
<tr>
<th>Picture (Screen) size</th>
<th>Projection distance ( L )</th>
<th>Distance from the lens center to the bottom of the image ( H )</th>
<th>Distance from the lens center to the center of the image ( W )</th>
</tr>
</thead>
<tbody>
<tr>
<td>( 90'' ) ( (228.6 \text{ cm}) )</td>
<td>( 1.28 (0.425 \text{ ft}) )</td>
<td>( 1.15 (0.380 \text{ ft}) )</td>
<td>( 2.43 (0.797 \text{ ft}) )</td>
</tr>
<tr>
<td>( 100'' ) ( (254.0 \text{ cm}) )</td>
<td>( 1.49 (0.491 \text{ ft}) )</td>
<td>( 1.31 (0.430 \text{ ft}) )</td>
<td>( 2.80 (0.919 \text{ ft}) )</td>
</tr>
<tr>
<td>( 120'' ) ( (304.8 \text{ cm}) )</td>
<td>( 1.79 (0.591 \text{ ft}) )</td>
<td>( 1.50 (0.492 \text{ ft}) )</td>
<td>( 3.39 (1.114 \text{ ft}) )</td>
</tr>
<tr>
<td>( 150'' ) ( (381.0 \text{ cm}) )</td>
<td>( 2.24 (0.732 \text{ ft}) )</td>
<td>( 1.96 (0.646 \text{ ft}) )</td>
<td>( 4.39 (1.437 \text{ ft}) )</td>
</tr>
</tbody>
</table>

The formula for picture size (diagonal) \( (\text{in/cm}) \): \( W = \frac{H}{2.54} \)

The formula for picture size (diagonal) \( (\text{ft/inches}) \): \( W = \frac{H}{0.3048} \)

The formula for lens center position: \( L1 = \frac{H1}{0.25143} \); \( L2 = \frac{H2}{0.25143} \)

### 4:3 Signal Input (Normal Mode)

<table>
<thead>
<tr>
<th>Picture (Screen) size</th>
<th>Projection distance ( L )</th>
<th>Distance from the lens center to the bottom of the image ( H )</th>
<th>Distance from the lens center to the center of the image ( W )</th>
</tr>
</thead>
<tbody>
<tr>
<td>( 80'' ) ( (203.2 \text{ cm}) )</td>
<td>( 1.08 (0.353 \text{ ft}) )</td>
<td>( 1.03 (0.338 \text{ ft}) )</td>
<td>( 2.12 (0.697 \text{ ft}) )</td>
</tr>
<tr>
<td>( 100'' ) ( (254.0 \text{ cm}) )</td>
<td>( 1.26 (0.414 \text{ ft}) )</td>
<td>( 1.22 (0.398 \text{ ft}) )</td>
<td>( 2.54 (0.833 \text{ ft}) )</td>
</tr>
<tr>
<td>( 120'' ) ( (304.8 \text{ cm}) )</td>
<td>( 1.50 (0.492 \text{ ft}) )</td>
<td>( 1.49 (0.492 \text{ ft}) )</td>
<td>( 3.04 (1.000 \text{ ft}) )</td>
</tr>
<tr>
<td>( 150'' ) ( (381.0 \text{ cm}) )</td>
<td>( 1.90 (0.623 \text{ ft}) )</td>
<td>( 1.89 (0.623 \text{ ft}) )</td>
<td>( 3.94 (1.329 \text{ ft}) )</td>
</tr>
</tbody>
</table>

The formula for picture size (diagonal) \( (\text{in/cm}) \): \( W = \frac{H}{2.54} \)

The formula for picture size (diagonal) \( (\text{ft/inches}) \): \( W = \frac{H}{0.3048} \)

The formula for lens center position: \( L1 = \frac{H1}{0.47058} \); \( L2 = \frac{H2}{0.47058} \)

### Handling Precautions
- Do not disassemble this lens.
- Please refer to your authorized dealer for any maintenance and inspections requiring an open cabinet.
- Touching any other internal part could cause personal injury or machine malfunction.
- Do not touch any glass or protruding part of the lens. This may cause personal injury and reduced performance of the projector.
- When maintaining the projector the following points should be noted.
  - When cleaning the lens be sure to use a commercial air blower or lens cleaning paper (used in cleaning glasses and cameras).
  - The surface of the lens is very delicate. Do not allow hard objects to bump or rub against it.

### Supplied Accessories
- Lens cap (front) \( \times 1 \)
- Installation manual
- Lens cap (rear) \( \times 1 \)
- Owner’s manual (this manual)

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>AH-55701</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture size (diagonal)</td>
<td>60” to 230” (16:10)</td>
</tr>
<tr>
<td>Focal length</td>
<td>40.8 mm (1 1/4&quot;) – 62.8 mm (2 1/4&quot;)</td>
</tr>
<tr>
<td>F no.</td>
<td>2.5</td>
</tr>
<tr>
<td>Throw ratio</td>
<td>1.30 – 4.5</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 1,505 g (3.3 lbs.)</td>
</tr>
<tr>
<td>Depth of projector with the lens attached</td>
<td>645 mm (25 1/4&quot;)</td>
</tr>
</tbody>
</table>

Note:
- Allow a margin of error in the value in the diagrams above.
- When the distance from the lens center to the bottom of the image \( H \) is a negative number, this indicates that the bottom of the image is below the lens center.

Refer to “Image Projection” in the projector owner’s manual for information on adjusting the focus and picture size.