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Product Description
Type: 1-chip DLP projector 0.45” DLP
Brightness: 1000 lumens
Resolution: 1280 x 800
Dimensions: 9.38” (W) x 2.05” (H) x 6.98” (D) Weight: 3.1 lbs
Power Consumption: 110W (max) BTU’s: 469 BTU/hour

Lens Specifications
Throw Ratio: 1.4 (for 100” diagonal) Focal Length: 13.92mm
Offset Angle: 13.8° (for 100” diagonal) F/#: 1.5
Screen Sizes: 17” - 100” diagonal (16:10) Manual Focus

Notes
- For screen sizes not indicated on the projection tables, use the formulas on the following page.
- If the figures on the tables do not match the results of formulas, use the figures in the table.
- All calculations are based on a 16:10 aspect ratio.
- Distances are in inches, for millimeters multiply by 25.4.
- Distances may vary ±5%.
Formulas

The Projection Formulas use the image width for calculation. For proper projection placement, determine the image width for the desired screen size. Use the Screen Formulas below to calculate all screen dimensions. Plug in the width for “W” in the Projection Formulas.

Refer to the diagrams and charts below for popular screen sizes:

Definitions:

\[
\begin{align*}
W &= \text{Image Width} \\
H &= \text{Image Height (size)} \\
B &= \text{Vertical distance between lens center and screen center} \\
C &= \text{Throw distance} \\
D &= \text{Vertical distance between lens center and screen top} \\
& \quad \text{(screen bottom for desktop application)} \\
\end{align*}
\]

16:10 Screen Formulas:

\[
\begin{align*}
W &= H \times 16/10 \\
H &= W \times 10/16 \\
\text{Screen Diagonal} &= W \times 18.868/16 \\
\end{align*}
\]

Projection Formulas:

\[
\begin{align*}
B &= 0.34W \\
C &= 1.432W - 1.966 \\
D &= 0.033W \\
\alpha &= \tan^{-1} \left( \frac{B}{C} \right) \\
\end{align*}
\]

Distance Chart for popular 16:10 screens

<table>
<thead>
<tr>
<th>Screen Size (16:10)</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>(\alpha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>inches Width(W) Height (H)</td>
<td>inches</td>
<td>inches</td>
<td>inches</td>
<td>degree</td>
</tr>
<tr>
<td>18</td>
<td>15</td>
<td>9</td>
<td>5</td>
<td>0.5</td>
</tr>
<tr>
<td>31</td>
<td>26</td>
<td>16</td>
<td>9</td>
<td>0.9</td>
</tr>
<tr>
<td>40</td>
<td>34</td>
<td>21</td>
<td>12</td>
<td>1.1</td>
</tr>
<tr>
<td>60</td>
<td>51</td>
<td>32</td>
<td>17</td>
<td>1.7</td>
</tr>
<tr>
<td>80</td>
<td>68</td>
<td>43</td>
<td>23</td>
<td>2.2</td>
</tr>
<tr>
<td>99</td>
<td>84</td>
<td>53</td>
<td>29</td>
<td>2.8</td>
</tr>
</tbody>
</table>

Note: For screen sizes not indicated on the projection tables, use the formulas on above
Diagrams and Distance Charts

The following shows the proper relative positions of the projector and screen. Refer to the table to determine the position of installation. Distances are in inches. For millimeters multiply by 25.4.

**Ceiling Mounted**

![Diagram of Ceiling Mounted Position]

**Desktop**

![Diagram of Desktop Position]
Cabinet Dimensions
The following drawings show the cabinet dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>LENS CENTER</td>
<td>1.36</td>
</tr>
<tr>
<td>LENS COVER</td>
<td>1.36</td>
</tr>
<tr>
<td>AC INLET</td>
<td>8.03</td>
</tr>
<tr>
<td>AIR INTAKE</td>
<td>9.38</td>
</tr>
<tr>
<td>EXHAUST</td>
<td>6.98</td>
</tr>
<tr>
<td>FOCUS LEVER</td>
<td>1.35</td>
</tr>
<tr>
<td>LENS CENTER</td>
<td>1.08</td>
</tr>
<tr>
<td>LENS COVER</td>
<td>2.05</td>
</tr>
<tr>
<td></td>
<td>2.15</td>
</tr>
</tbody>
</table>
Cabinet Dimensions cont.
The following drawings show the ceiling mount dimensions. Dimensions are in inches. For millimeters multiply by 25.4.

[Diagram of cabinet dimensions]

Input Panel

[Diagram of input panel]