Fixed-Focus Lens

This fixed-focus lens is designed for use with Panasonic’s applicable projectors. This lens is an ultra-short focal length lens which uses a mirror.

NOTE: The lens cannot be used by itself. It must be mounted onto the specified Panasonic DLP™ projector.

Specifications

- **F value:** 2.0
- **Focal distance (f):** 5.3 mm
- **Throw ratio:**
  - WXGA 0.38:1 for PT-RZ970/RZ770/RZ660/DZ870/DZ780 (16:10 aspect ratio)
  - WUXGA 0.40:1 for PT-RW930/RW730/RW620/DW830/DW750 (16:10 aspect ratio)
  - XGA 0.39:1 for PT-RX110/DX100/DX820 (4:3 aspect ratio)
- **Dimensions** (W × H × D): 132 × 102 × 311 mm (5-3/16 × 4-1/32 × 12-1/4 inches)
- **Weight:** Approx 1.3 kg (3.1 lbs)
- **Applicable projector:**
  - [Group A]
    - PT-DZ870K/DZ870LK/DZ870W/DZ870LW/DW830K/DW830LK/DW830W/DW830LW/
      DX100K/DX100LK/DX100W/DX100LW
  - [Group B]
    - PT-DZ770K/DZ770LK/DZ770S/DZ770LS/DW740S/DW740LS/DW740K/DW740LK/
      DW730S/DW730LS/DW730K/DW730LK/DX810S/DX810LS/DX810K/DX810LK/
      DX800S/DX800LS/DX800K/DX800LK/DZ680S/DZ680LK/DZ680S/DZ680LS/
      DX6710/DX6710L/DX6710S/DX6710LW/DX6710K/DX6710LKW/D6600LK/D6600LS/
      D6600K/D6600LK/D5600S/D5600LS
  - [Group C]
    - PT-RZ970B/RZ970W/RZ970LB/RZ970LW/RW930B/RW930W/RW930LB/RW930LW/
      RX110B/RX110W/RX110LB/RX110LW/RZ770B/RZ770W/RZ770LB/RZ770LW/
      RW630B/RW630W/RW630LB/RW630LW
  - [Group D]
    - PT-DZ780/DZ780L/DW750/DW750L/DX820/DX820L

Dimensions

Illustration shows the lens attached to an applicable projector.

[Group A]

NOTE: This illustration is not drawn to scale.
For information on the projection distance, refer to the specifications for the projector to which the lens will be mounted. DLP is a trademark of Texas Instruments. Weights and dimensions shown are approximate. Specifications subject to change without notice.
### ET-DLE030 Projection Distance Table

**RZ970/RZ770/RZ660/RZ670/DZ870/DZ770/DZ680/DZ6710/DZ6700**

**Unit:** meters

<table>
<thead>
<tr>
<th>Diagonal image size (Inches)</th>
<th>Throw ratio</th>
<th>0.38:1</th>
<th>(0.39:1)</th>
<th>From rear of set to screen (L4)</th>
<th>From top of set to bottom edge of screen (A1)</th>
<th>From bottom of set to bottom edge of screen (A2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fixed-Focus Lens</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>2.54</td>
<td>2.15</td>
<td>0.82</td>
<td>0.84</td>
<td>0.65</td>
<td>0.12</td>
</tr>
<tr>
<td>120</td>
<td>3.05</td>
<td>2.59</td>
<td>0.98</td>
<td>1.00</td>
<td>0.82</td>
<td>0.28</td>
</tr>
<tr>
<td>150</td>
<td>3.62</td>
<td>3.81</td>
<td>1.23</td>
<td>1.25</td>
<td>1.06</td>
<td>0.52</td>
</tr>
<tr>
<td>200</td>
<td>5.01</td>
<td>4.31</td>
<td>1.63</td>
<td>1.66</td>
<td>1.47</td>
<td>0.93</td>
</tr>
<tr>
<td>250</td>
<td>6.35</td>
<td>5.39</td>
<td>2.04</td>
<td>2.06</td>
<td>1.87</td>
<td>1.34</td>
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<td>2.45</td>
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<td>1.74</td>
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<tr>
<td>350</td>
<td>8.89</td>
<td>7.54</td>
<td>2.85</td>
<td>2.88</td>
<td>2.69</td>
<td>2.15</td>
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</table>

<table>
<thead>
<tr>
<th>Diagonal image size (m)</th>
<th>From front of set to screen (L3)</th>
<th>From rear of set to screen (L4)</th>
<th>From top of set to bottom edge of screen (A1)</th>
<th>From bottom of set to bottom edge of screen (A2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3205 x Diagonal image size + 0.00467 + From rear of set to screen (L4) + From top of set to bottom edge of screen (A1) + From bottom of set to bottom edge of screen (A2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

**Unit:** feet

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<th>(0.39:1)</th>
<th>From rear of set to screen (L4)</th>
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<td>2.69</td>
<td>2.15</td>
</tr>
</tbody>
</table>

### Projection Distance Calculation Table

**Screen aspect ratio 16:10**

**Projection distance calculation formula**

\[ L1 (m) = 0.3205 \times \text{Diagonal image size} + 0.00467 \]

**Calculation formula for distance from top of set to bottom edge of screen**

- **RZ970/RZ770/RZ660/RZ670/DZ870**
  \[ A1 (m) = 0.1977 \times \text{Diagonal image size} - 0.07210 \]

- **DZ770/DZ680/DZ6710/DZ6700**
  \[ A1 (m) = 0.1977 \times \text{Diagonal image size} - 0.06710 \]
## Projection Distance Calculation Table

### Screen aspect ratio 16:10

<table>
<thead>
<tr>
<th>Diagonal image size (Inches)</th>
<th>Diagonal image size (m)</th>
<th>Height (SH)</th>
<th>Width (SW)</th>
<th>Projection distance (from mirror reflective surface to screen) (L1)</th>
<th>From tip of lens to screen (L2)</th>
<th>From front of set to screen (L3)</th>
<th>From rear of set to screen (L4)</th>
<th>From top of set to bottom edge of screen (A1)</th>
<th>From bottom of set to bottom edge of screen (A2)</th>
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<tbody>
<tr>
<td>100</td>
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<td>1.35</td>
<td>2.15</td>
<td>0.86</td>
<td>0.88</td>
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<td>2.59</td>
<td>1.03</td>
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<td>2.83</td>
<td>2.29</td>
<td>2.32</td>
<td>2.41</td>
</tr>
</tbody>
</table>

### Calculation formula for distance from top of set to bottom edge of screen

- LW30: LW630 (ET-DLE030)  
  \[ L_{A1} = 0.2597 \times \text{Diagonal image size} - 0.07396 \]
- LW730: LW830 (ET-DLE030)  
  \[ L_{A1} = 0.2597 \times \text{Diagonal image size} - 0.06896 \]

### Diagram

1. **L1**: Projection distance from screen to mirror reflective surface
2. **L2**: From screen to tip of lens
3. **L3**: From screen to front of set
4. **L4**: From screen to rear of set
5. **A1**: From bottom edge of screen to top of set
6. **A2**: From bottom edge of screen to bottom edge of set

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**As of January 2018**

**SFD12A019-4**
Projection Distance Calculation Table

Screen aspect ratio 4:3

Projection distance calculation formula

\[ L1 (m) = 0.3133 \times \text{Diagonal image size} + 0.00467 \]

Calculation formula for distance from top of set to bottom edge of screen

- RX110/DX100: \[ A1 (m) = 0.1881 \times \text{Diagonal image size} - 0.07149 \]
- DX810/DX800/DX610/D6000/D5000: \[ A1 (m) = 0.1881 \times \text{Diagonal image size} - 0.06649 \]