Short Throw Pocket LED Projector
ML1050ST+

Powerful palm-sized projection with auto focus

- Large and bright 1,000 lumen WXGA images from a few feet away
- Auto focus lens for easy place and project
- Project large 100-inch images anywhere
- RGB LED light source with up to 30,000 hour life
- PC-free USB and micro SD media player, image viewer and office document reader
- Wireless presentations and images with HDCast Pro (requires optional WUSB adapter)

Project large, WXGA images from a few feet away with the 1,000 lumen short throw Optoma ML1050ST+. Its auto focus lens and palm-sized form factor make it easy to place and project images up to 135-inches anywhere.

The RGB LED light source provides up to 30,000 hours of life for years of reliable operation. A PC-free media player, image viewer and document reader display office documents, PDFs and images from micro SD cards and USB storage devices.

Optional HDCast Pro connectivity provides wireless screen mirroring with Android, Mac OS and Windows devices. An HDMI input with MHL 2.0 enables compatibility with notebooks, mobile devices and gaming consoles.
**OPTICAL/TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Technology</td>
<td>Texas Instruments 0.45” WXGA DMD</td>
</tr>
<tr>
<td>Color Wheel</td>
<td>RGB LED</td>
</tr>
<tr>
<td>Native Resolution</td>
<td>WXGA (1280 x 800)</td>
</tr>
<tr>
<td>Maximum Resolution</td>
<td>WUXGA (1920 x 1200)</td>
</tr>
<tr>
<td>Brightness</td>
<td>1,000 ANSI lumens</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>20,000:1</td>
</tr>
<tr>
<td>Displayable Colors</td>
<td>16 million</td>
</tr>
<tr>
<td>Keystone Correction</td>
<td>Auto, ±40° vertical</td>
</tr>
<tr>
<td>360 degree and Portrait mode operation</td>
<td>Yes</td>
</tr>
<tr>
<td>Light source life*</td>
<td>30,000/20,000 (ECO/Bright)</td>
</tr>
<tr>
<td>Lamp Life and Type*</td>
<td>RGB LED light source</td>
</tr>
<tr>
<td>Projection Method</td>
<td>Table top</td>
</tr>
<tr>
<td>Geometry</td>
<td>Auto focus, vertical keystone</td>
</tr>
<tr>
<td>Uniformity</td>
<td>90%</td>
</tr>
<tr>
<td>Offset</td>
<td>100% ±5%</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:10 (native), 16:9, 4:3 and auto compatible</td>
</tr>
<tr>
<td>Throw Ratio</td>
<td>0.81 ±5%</td>
</tr>
<tr>
<td>Projection Distance</td>
<td>16” - 135”</td>
</tr>
<tr>
<td>Image Size</td>
<td>25” - 200”</td>
</tr>
<tr>
<td>Projection Lens</td>
<td>F= 1.9, F=8.02, auto focus lens</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>1.5x</td>
</tr>
<tr>
<td>Audio</td>
<td>1.5W speaker</td>
</tr>
<tr>
<td>Noise Level</td>
<td>28 dB</td>
</tr>
<tr>
<td>Battery</td>
<td>No</td>
</tr>
<tr>
<td>Remote Control</td>
<td>Card size remote</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>41–104°F (5–40°C), 85% max humidity</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>77 W, &lt; 0.5W (standby)</td>
</tr>
<tr>
<td>High Altitude</td>
<td>Operating temp @ sea level to 10,000 feet = 23°C (max); must manually switch to high altitude mode @ 5,000 feet &amp; above (using OSD)</td>
</tr>
</tbody>
</table>

**COMPATIBILITY SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
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</tr>
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<tbody>
<tr>
<td>Computer Compatibility</td>
<td>VGA, SVGA, XGA, SXGA, WXGA, WXGA, WXGA, WXGA, WXGA+, SXGA+, WSXGA+</td>
</tr>
<tr>
<td>Video Compatibility</td>
<td>480i, 576i, 480p, 576p, 720p, 1080i, 1080p</td>
</tr>
<tr>
<td>Vertical Scan Rate</td>
<td>24Hz to 120KHz</td>
</tr>
<tr>
<td>Horizontal Scan Rate</td>
<td>31 to 135 KHz</td>
</tr>
<tr>
<td>User Controls</td>
<td>Complete on-screen menu adjustment in 16 languages</td>
</tr>
<tr>
<td>I/O Connection Ports</td>
<td>1x HDMI (MHL 2.0), 1x i/O port (VGA &amp; composite input), 1x USB, 1x micro SDXC slot, 1x headphone out</td>
</tr>
<tr>
<td>Loop Through (Audio)</td>
<td>Yes</td>
</tr>
<tr>
<td>Control</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**PHYSICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Security</td>
<td>Kensington® lock port, password (OSD)</td>
</tr>
<tr>
<td>Weight</td>
<td>14 oz.</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>4.41” x 1.57” x 4.13”</td>
</tr>
</tbody>
</table>

"Light source life is dependent upon many variables, including brightness mode used, display mode used, daily usage (such as 24/7 operation), environmental conditions (such as extreme heat or cold) and more. Light source brightness can and will decrease over time. Maximum light source life cannot be achieved using Bright mode – must use ECO mode."