INSIGHT 4K LASER

12,000 Lumens | Contrast Ratio: 2,000:1 | Part No: 114-821

**Colour System:** 3-chip DLP®
**DMD Specification:**
- 4096 x 2160 pixels native.
- Fast transit pixels for smooth greyscale and improved contrast.

**Display Type:**
- 3 x 1.38” DarkChip™ DMD™
**Aspect Ratio:**
- 1.90:1
**Fill Factor:**
- 87%

**Key Features**

**Video & Graphics Processing**
- Up to 60fps 4096 x 2160 pixels sequential input via single cable (Display Port 1.2)
- 3D Capable
- Scaling of HDMI 1.4 formats to fill the 4K display
- Input 4 (HDMI) can be assigned to overlay a scaled or native image over the main video image.
- Dark Time insertion capability
- Dual Flash Processing can be used to multiply the displayed frame rate for 3D sources (example 144Hz display).
- Synchronisation of active glasses or polarising switcher.

**Image Blanking**
- Linear black "curtains" adjustable for all four edges.

**Color adjustments**
- Up to 12 bits per color processing (depending on source and input type).
- Degamma table maps 12 bit input to 16 bit palette (R, G & B) for display.
- Individual R, G & B lift and gain.
- Black and White level adjustment via Brightness & Contrast control.
- Degamma selection from a list of parametric curves.

**ColorMax™**
- Accurate matching of projectors in tiled or blended applications.
- User selection and storage of primary and secondary user defined color targets up to 7 points.

**3D Functionality**
- Full 4K 3D display capability
- Frame multiplication capability (2x, 3x) with interleaving of Left/Right repeated frames.
- Synchronisation of active glasses or polarising switcher.
- Adjustable Dark Time and Synch Offset for optimisation of ghosting and smooth greyscale for switching glasses and polarizers.

**Projector Control**
- Keypad with LCD panel.
- Network control via RJ45 and protocol.
- PC Control Application

**Source Compatibility:**
- Graphics standards up to 4096 x 2160 at 60 fps via DisplayPort. 30 fps via HDMI. Higher input frame rates supported at lower input resolution.
## Inputs/Outputs

### Video & Computer

<table>
<thead>
<tr>
<th>Type</th>
<th>Connector</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>DisplayPort 1.2</td>
<td>DisplayPort</td>
<td>2</td>
</tr>
<tr>
<td>HDMI 1.4</td>
<td>HDMI</td>
<td>2</td>
</tr>
<tr>
<td>Option Board</td>
<td>BNC</td>
<td>4</td>
</tr>
<tr>
<td>3G-SDI</td>
<td>BNC</td>
<td>4</td>
</tr>
<tr>
<td>DVI-D</td>
<td>DVI-D</td>
<td>2</td>
</tr>
</tbody>
</table>

### Communication & Control

<table>
<thead>
<tr>
<th>Type</th>
<th>Connector</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D Sync Out</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>3D Sync In</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>LAN</td>
<td>RJ45</td>
<td>1</td>
</tr>
<tr>
<td>RS232</td>
<td>9-pin D Sub</td>
<td>1</td>
</tr>
<tr>
<td>Wired Remote In</td>
<td>3.5mm Stereo Jack</td>
<td>1</td>
</tr>
<tr>
<td>Service Port</td>
<td>USB Type A</td>
<td>1</td>
</tr>
</tbody>
</table>

### 3D Formats Supported
- Dual Pipe (Q3 2016)
- Frame Sequential

### HDTV Formats Supported
- 4096 x 2160p (24, 25, 30, 50, 59.94, 60 Hz)
- 3840 x 2160p (24, 25, 30, 50, 59.94, 60 Hz)
- 1080p (24, 25, 30, 50, 59.94, 60 Hz)
- 1080i (50, 59.94, 60 Hz)

### Computer Compatibility
- Up to 4096 x 2160

### Remote Control
- Wired remote control
- On-Board keypad with LCD screen
- User selectable from 3300 to 10000K

### Colour Temperature
- User selectable from 3300 to 10000K

### Lamp Type
- Laser Light Source
- 20,000 hours

### Lenses

<table>
<thead>
<tr>
<th>Lens</th>
<th>Part No.</th>
<th>Focus Range</th>
<th>Lens Shift</th>
</tr>
</thead>
<tbody>
<tr>
<td>At Native 4K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.93:1 fixed</td>
<td>-</td>
<td>0.5m - 100m</td>
<td>Vert: 0.21 (U) 0.21 (D) frame, Hor: 0.08 (L) 0.08 (R) frame</td>
</tr>
<tr>
<td>1.13 - 1.72:1 zoom</td>
<td>115-627</td>
<td>2.5m - 100m</td>
<td>Vert: 0.34 (U) 0.19 (D) frame, Hor: 0.08 (L) 0.10 (R) frame</td>
</tr>
<tr>
<td>1.65 - 2.60:1 zoom</td>
<td>115-630</td>
<td>3.5m - 100m</td>
<td>Vert: 0.40 (U) 0.20 (D) frame, Hor: 0.13 (L) 0.13 (R) frame</td>
</tr>
<tr>
<td>2.53 - 4.98:1 zoom</td>
<td>115-632</td>
<td>4.5m - 100m</td>
<td>Vert: 0.37 (U) 0.20 (D) frame, Hor: 0.13 (L) 0.13 (R) frame</td>
</tr>
<tr>
<td>At UHD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.99:1 fixed</td>
<td>-</td>
<td>0.5m - 100m</td>
<td>Vert: 0.27 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.11 (R) frame</td>
</tr>
<tr>
<td>1.21 - 1.83:1 zoom</td>
<td>115-627</td>
<td>2.5m - 100m</td>
<td>Vert: 0.40 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.14 (R) frame</td>
</tr>
<tr>
<td>1.76 - 2.77:1 zoom</td>
<td>115-630</td>
<td>3.5m - 100m</td>
<td>Vert: 0.45 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.17 (R) frame</td>
</tr>
<tr>
<td>2.70 - 5.31:1 zoom</td>
<td>115-632</td>
<td>4.5m - 100m</td>
<td>Vert: 0.42 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.17 (R) frame</td>
</tr>
</tbody>
</table>

### Lens Mount
- Motorised shift, zoom and focus. Intelligent Lens Memory with user-definable preset positions.

### Mechanical Mounting

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Table Top or Inverted: Yes</th>
<th>Pointing Up: Yes</th>
<th>Pointing Down: Yes</th>
<th>Roll (Portrait): Yes</th>
</tr>
</thead>
</table>

### Power Requirements
- 200 - 240VAC 50/60Hz single phase
- 1600W

### Thermal Dissipation
- 5027 BTU/Hour
- 58 dBA

### Operating/Storage Temperature
- Operating: 0 to 40°C (32 to 104°F)
- Storage: -10 to 50°C (14 to 122°F)
- 20 to 80% non-condensing

### Weight (Chassis Only)
- Dimensions
Safety & EMC Regulations

CE, FCC Class A, UL, CCC

*Dimensions included for reference only and are subject to change. Please download the full set of CAD files for this display for more accurate information.

Downloads

PDF CAD Drawings
AUTOCAD Drawings
User Guides
Important Information

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