# INSIGHT 4K HFR 360 (Preliminary)

27,000 Lumens | Contrast Ratio: 2,000:1 | Part No:119-666

## INSIGHT MULTIVIEW 4K
DIGITAL PROJECTOR

THE VISIONARIES CHOICE

<table>
<thead>
<tr>
<th>Colour System:</th>
<th>DMD Specification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-chip DLP®</td>
<td>4096 x 2160 pixels native.</td>
</tr>
<tr>
<td></td>
<td>Fast transit pixels for smooth greyscale and improved contrast.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Display Type:</th>
<th>Aspect Ratio:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 x 1.38&quot; DarkChip™ DMD™</td>
<td>1.90:1</td>
</tr>
<tr>
<td></td>
<td>Fill Factor</td>
</tr>
<tr>
<td></td>
<td>87%</td>
</tr>
</tbody>
</table>

## Key Features
- Up to 360 FPS Display capability at native 4096 x 2160 resolution.
- Accepts up to 6 inputs in parallel and displays them sequentially with smooth greyscale and amazing colour.
- High Brightness laser illuminated.
- Compact integrated chassis.
- Long life light source.
- Sealed optics.
- Maintenance free.
- 3D capable.
- DisplayPort 1.2 and HDMI 2.0 inputs.

## Video & Graphics processing
- Up to 6 x 60 fps 4096 x 2160 pixels sequential input via single DisplayPort input.
- Dark Time insertion matched to fast switching glasses.
- Smear reduction for 2D displays.
- Synchronisation of active glasses (or polarising switcher, TBC).
- Image blanking (linear curtains) on all edges.
- Low latency processing.

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

## 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.

## Projector Control
- Keypad with on-screen display.
- Remote control - IR or cable.
- Network control via RJ45.
- Served web page for remote control via tablets and smart phones. Wireless requires access point (not supplied).
- PC control application.

## Mounting
- Built-in stacking points.
- Eyebolts for quick mounting.
- Optional mounting/grab rail.

**Lens features**
- Robust lens mount with memorised position, zoom and focus.
- Extensive lens shift encompassing all lens capabilities.
- High quality sharp lenses designed for 4K performance with long focal distances.

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

**Inputs/Outputs**

<table>
<thead>
<tr>
<th>Video &amp; Computer Type</th>
<th>Connector</th>
<th>Qty</th>
<th>Communication &amp; Control Type</th>
<th>Connector</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>DisplayPort 1.2</td>
<td>DisplayPort</td>
<td>6</td>
<td>3D Sync Out</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>HDMI 2.0</td>
<td>HDMI</td>
<td>6</td>
<td>3D Sync In</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LAN</td>
<td>RJ45</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RS232</td>
<td>9-pin D Sub</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wired Remote In</td>
<td>3.5mm Stereo Jack</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Service Port</td>
<td>USB Type A</td>
<td>1</td>
</tr>
</tbody>
</table>

**3D Formats Supported**
Dual Pipe
Frame Sequential

**HDTV Formats Supported**
- 4096 x 2160p (24, 25, 29.97, 30, 50, 59.94, 60 Hz)
- 3840 x 2160p (24, 25, 29.97, 30, 50, 59.94, 60 Hz)
- 1080p (24, 25, 29.97, 30, 50, 59.94, 60 Hz)

**Computer Compatibility**
Up to 4096 x 2160

**Remote Control**
- Wired remote control
- On-Board keypad with OSD

**Communication & Control**
- 3D Sync Out: BNC
- 3D Sync In: BNC
- LAN: RJ45
- RS232: 9-pin D Sub
- Wired Remote In: 3.5mm Stereo Jack
- Service Port: USB Type A

**Colour Temperature**
User selectable from 3300 to 10000K

**Typical Lamp Life**
- 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>0.93:1 fixed</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></td>
<td>1.13 - 1.72:1 zoom</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></td>
<td>1.65 - 2.60:1 zoom</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></td>
<td>2.53 - 4.96:1 zoom</td>
<td>4.5m - 100m</td>
<td>Vert: 0.37 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.13 (R) frame</td>
</tr>
<tr>
<td>At UHD</td>
<td>0.99:1 fixed</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></td>
<td>1.21 - 1.83:1 zoom</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></td>
<td>1.76 - 2.77:1 zoom</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></td>
<td>2.70 - 5.31:1 zoom</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 focal ranges above are the optimised distances but are likely to focus further, please contact your RSM for more details. Lens ratio tolerances: E-Vision Series: +/-3%. HighLight Series: +/- 5%. M-Vision Series: +/- 2%. Titan Series: +/- 2%, INSIGHT Series: +/-2%.

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

**Mechanical Mounting**
- Orientation: Table Top or Inverted: Yes
- Pointing Up: Yes
- Pointing Down: Yes
- Roll (Portrait): Yes

**Power Requirements**
- Power Consumption: 3400W

**Thermal Dissipation**
- Fan Noise: 54 dBA

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

<table>
<thead>
<tr>
<th>Weight (Chassis Only)</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 kg</td>
<td>H: 47.9 cm W: 72.2 cm L: 100.3 cm</td>
</tr>
<tr>
<td>220 lb</td>
<td>H: 18.9 in W: 28.4 in L: 39.5 in</td>
</tr>
</tbody>
</table>

Safety & EMC Regulations

CE, FCC Class A, UL, CCC

![Laser Radiation](image)

Avoid direct eye exposure  
Class 3R Laser product

*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

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