

INSIGHT 4K LASER

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

INSIGHT 4K LASER DIGITAL PROJECTOR



THE VISIONARIES CHOICE

| | |
|--------------------------|-----------------------------------------------------------------------------------------------|
| Colour System: | DMD Specification: |
| 3-chip DLP® | 4096 x 2160 pixels native. Fast transit pixels for smooth greyscale and improved contrast. |
| Display Type: | Aspect Ratio: |
| 3 x 1.38" DarkChip™ DMD™ | 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 | | | Communication & Control | | |
|------------------|-------------|-----|-------------------------|-------------------|-----|
| Type | Connector | Qty | Type | Connector | Qty |
| DisplayPort 1.2 | DisplayPort | 2 | 3D Sync Out | BNC | 1 |
| HDMI 1.4 | HDMI | 2 | 3D Sync In | BNC | 1 |
| Option Board | | | LAN | RJ45 | 1 |
| | | | RS232 | 9-pin D Sub | 1 |
| | | | Wired Remote In | 3.5mm Stereo Jack | 1 |
| 3G-SDI | BNC | 4 | Service Port | USB Type A | 1 |
| DVI-D | DVI-D | 2 | | | |

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

Bandwidth

N/A

Remote Control

Wired remote control
On-Board keypad with LCD screen

Automation Control

RS232
LAN

Colour Temperature

User selectable from 3300 to 10000K

Lamp Type

Laser Light Source

Typical Lamp Life

20,000 hours

Lenses

| Lens | Part No. | Focus Range | Lens Shift |
|--------------------|----------|-------------|---------------------------------------------------------------|
| 0.93:1 fixed | 116-087 | 0.5m - 100m | Vert: 0.210 (U) 0.210 (D) frame, Hor: 0.08 (L) 0.08 (R) frame |
| 1.13 - 1.72:1 zoom | 115-627 | 2.5m - 100m | Vert: 0.340 (U) 0.190 (D) frame, Hor: 0.09 (L) 0.09 (R) frame |
| 1.65 - 2.60:1 zoom | 115-630 | 3.5m - 100m | Vert: 0.400 (U) 0.200 (D) frame, Hor: 0.13 (L) 0.13 (R) frame |
| 2.53 - 4.98:1 zoom | 115-632 | 4.5m - 100m | Vert: 0.375 (U) 0.200 (D) frame, Hor: 0.13 (L) 0.13 (R) frame |

Lens Mount

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

Mechanical Mounting

Front/Rear Table
Front/Rear Ceiling
Adjustable Front/Rear Feet
Optional RapidRig™ frame with integrated pitch, roll and yaw adjustments.

Orientation

Table Top or Inverted: Yes
Pointing Up: Yes
Pointing Down: Yes
Roll (Portrait): Yes

Power Requirements

200 - 240VAC 50/60Hz single phase

Power Consumption

1600W

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Thermal Dissipation | Fan Noise |
| 5027 BTU/Hour | 58 dBA |
| Operating/Storage Temperature | Operating Humidity |
| Operating: 0 to 40C (32 to 104F) Storage: -10 to 50C (14 to 122F) | 20 to 80% non-condensing |
| Weight (Chassis Only) | Dimensions |
| 67 kg 148 lb | H: 32.5 cm W: 70.0 cm L: 93.5 cm H: 12.8 in W: 27.56 in L: 36.8 in |
| Safety & EMC Regulations | |
| CE, FCC Class A, UL, CCC | |
| <i>*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.</i> | |
| Downloads | |
| PDF CAD Drawings | User Guides |
| AUTOCAD Drawings | Important Information |
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