

## INSIGHT 4K LASER (Preliminary)

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

### INSIGHT 4K LASER Digital Projectors

**DIGITAL**  **PROJECTION**

<b>Colour System:</b>	<b>DMD Specification:</b>
3-chip DLP®	4096 x 2160 pixels native, +/- 12° tilt angle Fast transit pixels for smooth greyscale and improved contrast.
<b>Display Type:</b>	<b>Aspect Ratio:</b>
3 x 1.38" DarkChip™ DMD™	1.90:1
	<b>Fill Factor</b> 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

Frame Packing - Q4 2015  
 Dual Pipe - Q4 2015  
 Frame Sequential  
 Side By Side (half) - Q4 2015  
 Top and Bottom - Q4 2015

### 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	TBD - 3.6m 8m - 100m 8m - 100m TBD -	Vert: 0.175 (U) 0.175 (D) frame, Hor: 0.055 (L) 0.055 (R)
1.13 - 1.72:1 zoom	115-627	TBD	Vert: 0.275 (U) 0.275 (D) frame, Hor: 0.09 (L) 0.09 (R) frame (Preliminary)
1.65 - 2.60:1 zoom	115-630		Vert: 0.275 (U) 0.275 (D) frame, Hor: 0.09 (L) 0.09 (R) frame (Preliminary)
2.53 - 4.98:1 zoom	115-632		Vert: 0.325 (U) 0.325 (D) frame, Hor: 0.105 (L) 0.105 (R) frame (Preliminary)

### 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

### Power Consumption

200 - 240VAC 50/60Hz single phase

1600W

### Thermal Dissipation

5027 BTU/Hour

### Fan Noise

48 dBA

### Operating/Storage Temperature

Operating: 0 to 40C (32 to 104F)

Storage: -10 to 50C (14 to 122F)

### Operating Humidity

20 to 80% non-condensing

### Weight (Chassis Only)

67 kg

148 lb

### Dimensions

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

### Accessories

#### Accessory

RapidRig™ Frame

Ceiling Mount

Quad 3G-SDI, Twin DVI Card

Replacement Filter Set

#### Part No.

116-064

116-065

116-067

TBD

*\*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](#)

[User Guides](#)

[AUTOCAD Drawings](#)

[Important Information](#)

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