

INSIGHT 4K LASER

12,000 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, +/- 12° tilt angle 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
3G-SDI	BNC	4	Wired Remote In	3.5mm Stereo Jack	1
DVI-D	DVI-D	2	Service Port	USB Type A	1

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

Operation

24x7 Operation

Lamp Type

Laser Light Source

Typical Lamp Life

20,000 hours

Lenses

Lens	Part No.	Optimised Focus	Lens Shift
At Native 4K	-	-	-
0.93:1 fixed	117-310	0.5m - 100m	Vert: 0.21 (U) 0.21 (D) frame, Hor: 0.08 (L) 0.08 (R) frame
1.13 - 1.72:1 zoom	115-627	2.5m - 100m	Vert: 0.34 (U) 0.19 (D) frame, Hor: 0.08 (L) 0.10 (R) frame
1.65 - 2.60:1 zoom	115-630	3.5m - 100m	Vert: 0.40 (U) 0.20 (D) frame, Hor: 0.13 (L) 0.13 (R) frame
2.53 - 4.98:1 zoom	115-632	4.5m - 100m	Vert: 0.37 (U) 0.20 (D) frame, Hor: 0.13 (L) 0.13 (R) frame
At UHD	-	-	-
0.99:1 fixed	117-310	0.5m - 100m	Vert: 0.27 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.11 (R) frame
1.21 - 1.83:1 zoom	115-627	2.5m - 100m	Vert: 0.40 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.14 (R) frame
1.76 - 2.77:1 zoom	115-630	3.5m - 100m	Vert: 0.45 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.17 (R) frame
2.70 - 5.31:1 zoom	115-632	4.5m - 100m	Vert: 0.42 (U) 0.20 (D) frame, Hor: 0.10 (L) 0.17 (R) frame

* 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%. HighLite 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

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

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

Thermal Dissipation

5027 BTU/Hour

Fan Noise

58 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
Lens Adapter Kit for 0.72:1 4K Schneider Lens

Part No.

116-064
116-065
116-067
115-761
117-343

**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](#)

[User Guides German](#)

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[Important Information](#)



Certificate Number 13629
ISO 9001

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