

INSIGHT 4K LASER

12,000 Lumens | Contrast Ratio: 2,000:1 | Part Number: 114-821

INSIGHT 4K LASER DIGITAL PROJECTOR



THE VISIONARIES CHOICE

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Colour System:

3-chip DLP®

DMD Specification:

4096 x 2160 pixels native, +/- 12° tilt angle
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			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			HDTV Formats Supported		
Dual Pipe (Q3 2016)			4096 x 2160p (24, 25, 30, 50, 59.94, 60 Hz)		
Frame Sequential			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			Bandwidth		
Up to 4096 x 2160			N/A		

Remote Control		Automation Control	
Wired remote control On-Board keypad with LCD screen		RS232 LAN	
Colour Temperature		Operation	
User selectable from 3300 to 10000K			
Illumination Type		Typical Illumination Life	
Laser Light Source		20,000 hours	
Lenses			
Lens	Part No.	Optimised Focus Range*	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)
1.13 - 1.72:1	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	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	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)
1.21 - 1.83:1	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	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	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		Power Consumption	
200 - 240VAC 50/60Hz single phase		1600	
Thermal Dissipation		Fan Noise	
5027		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			
Accessories			
Accessory	Part No.		
RapidRig™ Frame	116-064		
Ceiling Mount	116-065		
Quad 3G-SDI, Twin DVI Card	116-067		
Replacement Filter Set	115-761		
Lens Adapter Kit for 0.72:1 4K Schneider Lens	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](#)

[AUTOCAD Drawings](#)

[STEP / IGS Drawings](#)

[Rigging Frame CAD Drawings Rigging
Frame CAD Drawings](#)

[Lens CAD Drawings](#)

[User Guides](#)

[User Guides \(German\)](#)

[User Guides \(French\)](#)

[Laser Risk Group Document](#)

[Important Information](#)

[Control Protocol](#)

[0.72:1 Schneider Lens Assembly Guide](#)



Certificate Number 13629
ISO 9001

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