DIGITAL PROJECTION
A Delta Associate Company

Specification Sheet

INSIGHT 4K LASER

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

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

Type	Connector	Qty
DisplayPort 1.2	DisplayPort	2
HDMI 1.4	HDMI	2
Option Board		
3G-SDI	BNC	4
DVI-D	DVI-D	2

Communication & Control

Type	Connector	Qty
3D Sync Out	BNC	1
3D Sync In	BNC	1
LAN	RJ45	1
RS232	9-pin D Sub	1
Wired Remote In	3.5mm Stereo Jack	1
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

Lamp Type

Laser Light Source

Typical Lamp Life

20,000 hours

Lenses

Lens	Part No.	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) 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 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

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)

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

**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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