

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:

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

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

| 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 |
|--------------------------|

| 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 |

**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 |
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|----------------------------------|---------------------------------------|
| PDF CAD Drawings | User Guides |
| AUTOCAD Drawings | User Guides German |
| | User Guides French |
| | Important Information |



Certificate Number 13629
ISO 9001

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DIGITAL PROJECTION, LTD GREENSIDE WAY, MIDDLETON MANCHESTER, UK. M24 1XX
T: +44.161.947.3300 | F: +44.161.684.7674 | www.digitalprojection.co.uk

DIGITAL PROJECTION, INC 55 CHASTAIN ROAD, SUITE 115 KENNESAW, GA. 30144
T: 770.420.1350 | F: 770.420.1360 | www.digitalprojection.com

DIGITAL PROJECTION, CHINA TOWER C, RM C1202, CAI FU JIA YUAN, NO. 19 XIAO YING STREET, CHAOYANG DISTRICT BEIJING, PR CHINA 100101
T: +86.10.58239771 | F: +86 10 58239770

DIGITAL PROJECTION, ASIA 16 NEW INDUSTRIAL ROAD, #02-10 HUDSON TECHNOCENTRE SINGAPORE 536204
T: +65.6284.1138 | F: +65.6284.1238