

## E-VISION LASER 4K DIGITAL PROJECTOR

THE VISIONARIES CHOICE



4,200 ANSI / 4,700 ISO Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) 2,000:1 native | Part Number: 120-608-HC

### Colour System:

Laser Phosphor with colourwheel

### DMD Specification:

Display resolutions 4K-UHD (3840 x 2160)  
or WQXGA+ (2716 x 1528)

### Display Type:

1 x 0.67" WQXGA+ TRP UHD DMD™

8.3 megapixels on screen at 4K-UHD  
Fast transit pixels for smooth greyscale and improved contrast.

### Aspect Ratio:

16:9

### Fill Factor

Not applicable: Smooth Picture DMD™

## Key Features

### Video & Graphics Processing

- HDR processing
- Two projectors in one - 4K-UHD and WQXGA+.
- DisplayPort 1.2.
- 2 x HDMI 2.0.
- 2 x HDMI 1.4b for Dual Pipe processing and Frame Sequential 3D format.
- Sequential Processing: 3D via single HDMI 1.4b input.
- Dual Pipe Processing: 3D Left and Right Eyes via two HDMI 1.4b inputs.
- Synchronisation of active glasses.
- 3G-SDI with loop-through.
- DICOM simulation mode.

### Geometry Correction

- Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, Arc and Image Rotation.

- Non-linear warp.
- Digital zoom, pan and scan.
- Blanking control for custom input window sizing.
- Scaling available for fixed aspect ratio screens.
- Unscaled processing for pixel mapped display.

### Edge Blending

- Blending control available for all sides with width control.
- Correction for non-active pixels at the edge of the display.

### Picture in Picture

- Two sources can be displayed simultaneously using 2D inputs: either picture in picture (PIP), or side by side (PBP), with original aspect ratios maintained.

### HDBaseT® Interface

- Built in support for reception of uncompressed High Definition Video over standard CAT5e/6 LAN cable.
- Allows projector to be placed up to 100m from source with low cost cabling.
- Supports up to 4K UHD 3840 x 2160@60Hz 4:2:0 or 4K UHD 3840 x 2160@30Hz 4:4:4

### Colour Processing

- Four colour modes available.
- Powerful seven point colour correction for accurate colour matching with presets.
- Easy colour temperature selection.
- Manual seven point colour adjustment.
- Traditional lifts and gains.

### Projector Controller Software

- Intuitive user interface for network control.
- Simultaneous control of user-defined groups of projectors.
- At-a-glance monitoring of projector status.

### Projector Automation

- Real-time clock provides daily on/off automation.
- E-mail alerts for system status.

### Source Compatibility:

2D graphics standards up to 4K-UHD 3840 x 2160 resolution at 60Hz via HDMI 2.0, HDBaseT (4:2:0) and DisplayPort inputs.

3D graphics standards up to WQXGA at 120Hz DualPipe via HDMI 1.4b inputs.

3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.

#### WQXGA+ mode

2D sources up to WQXGA+ at 120Hz can be displayed scaled to fit WQXGA+.

3D sources up to WQXGA at 120Hz can be displayed scaled to fit WQXGA+.

**4K-UHD mode**

2D sources up to 4K-UHD will be displayed scaled to fit 4K-UHD.

**Auto mode**

Sources greater than WQXGA+ will be displayed scaled to fit 4K-UHD.

Sources up to WQXGA+ will be displayed scaled to fit WQXGA+.

## Inputs/Outputs

Video & Computer			Communication & Control		
Type	Connector	Qty	Type	Connector	Qty
DisplayPort 1.2 (2D)	DisplayPort	1	3D Sync Out	BNC	1
HDMI 1.4b (3D)	HDMI	2	3D Sync In	BNC	1
HDMI 2.0 (2D)	HDMI	2	LAN	RJ45	2
3G-SDI in (2D)	BNC	1	RS232	9-pin D Sub	1
3G-SDI out	BNC	1	Wired Remote	3.5mm Stereo Jack	1
HDBaseT (see LAN) (2D)	RJ45	1	12V Trigger	3.5mm Stereo Jack	2
			3D Sync IR Out	BNC	1

**NOTE: One of the LAN ports is shared with HDBase-T.**

3D Formats Supported	HDTV Formats Supported
Frame Sequential Dual-Pipe	1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz, 100Hz, 120Hz) 1080i (50Hz, 60Hz) 720p (50, 60Hz) 2K (24Hz, 25Hz, 30Hz, 50Hz, 60Hz) 4K-UHD (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)

Computer Compatibility	Bandwidth
<b>2D</b> 4K-UHD up to 60Hz. WQXGA+ up to 120Hz.	498 megapixels per second via DisplayPort and HDMI 2.0.
<b>3D</b> Supported formats will be displayed within WQXGA+.	

Remote Control	Automation Control
Addressable IR remote control, wireless and wired. On-Board keypad	Crestron RoomView® Connected PJLink Class 1 LAN RS232 AMX (Device Discovery) Served web pages (projector status, projector control, Crestron RoomView®, network settings, alert mail setup, time setup, error log, On Screen Display)

Colour Temperature	Operation
3200K to 9300K	

Illumination Type	Typical illumination Life
Laser Light Source	20,000 hours

Lenses			
Lens	Part No.	Optimised Focus Range*	Lens Shift
0.74 - 0.93 :1 zoom	118-679	1.02m - 12.7m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
1.24 - 1.78 :1 zoom	118-563	1.33m - 11.73m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
1.71 - 2.25 :1 zoom	118-562	1.83m - 14.9m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (R) frame
2.20 - 3.67 :1 zoom	118-680	2.36m - 24.2m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1 (L) 0.2 (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 and programmable shift, zoom and focus.  
Intelligent Lens Memory with 10 user-definable preset positions (except UST lens).

### Mechanical Mounting

Front/Rear Table  
Front/Rear Ceiling  
Adjustable Front/Rear Feet

### Orientation

**Table Top or Inverted:** Yes  
**Pointing Up:** Yes  
**Pointing Down:** Yes  
**Roll (Portrait):** Yes

### Power Requirements

100-130VAC and 200-240VAC selectable, 50/60Hz single phase

### Power Consumption

950 W @220 Vac (1000 W @110 Vac)

### Thermal Dissipation

Max 3139 BTU/hour @100 VAC  
Max 3002 BTU/hour @240 VAC

### Fan Noise

**Smooth Picture On:**  
*Normal mode:* typical 40 (max 42) dBA  
*Eco2 mode:* typical 37 (max 39) dBA  
**Smooth Picture Off:**  
*Normal mode:* typical 38 (max 40) dBA  
*Eco2 mode:* typical 34 (max 36) dBA

### Operating/Storage Temperature

Operating: 5 to 40C (41 to 104F)  
Storage: -10 to 60C (14 to 140F)

### Operating Humidity

10 to 85% non-condensing

### Weight (Chassis Only)

28.15 kg  
62 lb

### Dimensions

L: 59.83 cm x W: 50 cm x H: 21.85 cm  
L: 23.55 in x W: 19.68 in x H: 8.60 in

### Safety & EMC Regulations

CE, FCC Class A, CCC, UL/cUL, FDA CB, KC, CEL, CECP

### Accessories

Accessory	Part No.
Infrared Remote (replacement)	117-880

*\*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](#)

[Laser Risk Group Document](#)

[STEP / IGS Drawings](#)

[Important Information](#)

[Lens CAD Drawings](#)

[Important Information \(Korean\)](#)

[Control Protocol](#)

[Ultra Short Throw Lens](#)

[Ultra Short Throw Lens Installation Guide](#)



Certificate Number 13629  
ISO 9001

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**DIGITAL PROJECTION, INC** 55 CHASTAIN ROAD, SUITE 115 KENNESAW, GA. 30144  
T: 770.420.1350 } F: 770.420.1360 | [www.digitalprojection.com](http://www.digitalprojection.com)

**DIGITAL PROJECTION, CHINA** Rm A2301,Shaoyaoju 101 North Lane,Shi Ao International Center,Chaoyang District,Beijing 100029,PR China  
T: +86.10.58239771 | F: +86 10 58239770