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## E-Vision Laser 4K-UHD Black HC

4,200 ANSI / 4,700 ISO Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) 2,000:1 native | Part Number: 118-151

E-VISION LASER 4K  
 DIGITAL PROJECTOR

THE VISIONARIES CHOICE



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### Colour System:

Laser Phosphor with colourwheel

### Display Type:

1 x 0.67" WQXGA+ TRP UHD DMD™

### DMD Specification:

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

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

- 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

Frame Sequential  
Dual-Pipe

#### Computer Compatibility

##### 2D

4K-UHD up to 60Hz.  
WQXGA+ up to 120Hz.

##### 3D

Supported formats will be displayed within WQXGA+.

#### Remote Control

Addressable IR remote control, wireless and wired.  
On-Board keypad

#### Colour Temperature

3200K to 9300K

#### Illumination Type

Laser Light Source

#### 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

#### HDTV Formats Supported

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)

#### Bandwidth

498 megapixels per second via DisplayPort and HDMI 2.0.

#### Automation Control

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)

#### Operation



#### Typical illumination Life

20,000 hours

\* Lens focal ranges above are the optimised distances but are likely to focus further, please contact your RSM for more details.

## 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

## Power Requirements

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

## Thermal Dissipation

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

## Operating/Storage Temperature

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

## Weight (Chassis Only)

28.15 kg  
62 lb

## Safety & EMC Regulations

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

## Accessories

### Accessory

Infrared Remote (replacement)

## Orientation

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

## Power Consumption

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

## 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 Humidity

10 to 85% non-condensing

## Dimensions

L: 58.0 cm W: 50.0 cm H: 21.1 cm

L: 22.8 in W: 19.7 in H: 8.3 in

### Part No.

118-678

*\*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](#)

[Lens CAD Drawings](#)

[Important Information](#)

[Control Protocol](#)

[Ultra Short Throw Lens](#)

[Ultra Short Throw Lens Installation Guide](#)



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