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# E-VISION LASER 4K DIGITAL PROJECTOR

THE VISIONARIES CHOICE



## E-Vision Laser 4K-UHD Black

**7,000 ANSI / 7,500 ISO Lumens | Contrast Ratio: 10,000:1 (Dynamic Black) 1,000:1 native | Part Number: 118-150**

### Key Specifications:

<b>Colour System:</b>	Laser Phosphor with colourwheel
<b>Display Type:</b>	1 x 0.66" WQXGA+ TRP UHD DMD™
<b>DMD Specification:</b>	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.
<b>Aspect Ratio:</b>	16:9
<b>Fill Factor</b>	Not applicable: Smooth Picture DMD™
<b>Key Features:</b>	<b>Video &amp; Graphics Processing</b> <ul style="list-style-type: none"><li>• HDR processing</li><li>• Two projectors in one - 4K-UHD and WQXGA+.</li><li>• DisplayPort 1.2.</li><li>• 2 x HDMI 2.0.</li><li>• 2 x HDMI 1.4b for Dual Pipe processing and Frame Sequential 3D format.</li><li>• Sequential Processing: 3D via single HDMI 1.4b input.</li><li>• Dual Pipe Processing: 3D Left and Right Eyes via two HDMI 1.4b inputs.</li><li>• Synchronisation of active glasses.</li><li>• 3G-SDI with loop-through.</li><li>• DICOM simulation mode.</li></ul>

### 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

Type	Connector	Qty
DisplayPort 1.2 (2D)	DisplayPort	1
HDMI 1.4b (3D)	HDMI	2
HDMI 2.0 (2D)	HDMI	2
3G-SDI in (2D)	BNC	1
3G-SDI out	BNC	1
HDBaseT (see LAN) (2D)	RJ45	1
Communication & Control		
Type	Connector	Qty
3D Sync Out		
3D Sync In		
LAN	BNC	1
RS232	BNC	1
Wired Remote	RJ45	2
12V Trigger	9-pin D Sub	1
3D Sync IR Out	3.5mm Stereo Jack	1
	3.5mm Stereo Jack	2
<b>NOTE: One of the LAN ports is shared with HDBase-T.</b>	BNC	1
<b>3D Formats Supported</b>	Frame Sequential Dual-Pipe	
<b>HDTV Formats Supported</b>	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)	
<b>Computer Compatibility</b>	<b>2D</b> 4K-UHD up to 60Hz. WQXGA+ up to 120Hz. <b>3D</b> Supported formats will be displayed within WQXGA+.	
<b>Bandwidth</b>	498 megapixels per second via DisplayPort and HDMI 2.0.	
<b>Remote Control</b>	Addressable IR remote control, wireless and wired. On-Board keypad	
<b>Automation Control</b>	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)	
<b>Colour Temperature</b>	3200K to 9300K	
<b>Operation</b>		
<b>illumination Type</b>	Laser Light Source	

<b>Typical illumination Life</b>	20,000 hours																																				
<b>Lenses</b>	<table border="1"> <thead> <tr> <th><b>Lens</b></th> <th><b>Part No.</b></th> <th><b>Optimised Focus Range*</b></th> <th><b>Lens Shift (Frame)</b></th> </tr> </thead> <tbody> <tr> <td>0.38 :1 fixed</td> <td>117-341</td> <td>0.68m - 2.44m</td> <td>Depends on image size, see Installation Guide.</td> </tr> <tr> <td>0.74 - 0.93 :1 zoom</td> <td>115-339</td> <td>1.02m - 12.7m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame</td> </tr> <tr> <td>0.76 :1 fixed</td> <td>112-499</td> <td>0.81m - 5.08m</td> <td>none</td> </tr> <tr> <td>1.24 - 1.78 :1 zoom</td> <td>112-500</td> <td>1.33m - 11.73m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame</td> </tr> <tr> <td>1.71 - 2.25 :1 zoom</td> <td>112-501</td> <td>1.83m - 14.9m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame</td> </tr> <tr> <td>2.2 - 3.67 :1 zoom</td> <td>112-502</td> <td>2.36m - 24.2m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame</td> </tr> <tr> <td>3.54 - 5.36 :1 zoom</td> <td>112-503</td> <td>3.8m - 35.35m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame</td> </tr> <tr> <td>5.24 - 8.27 :1 zoom</td> <td>112-504</td> <td>5.59m - 54.8m</td> <td>Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame</td> </tr> </tbody> </table>	<b>Lens</b>	<b>Part No.</b>	<b>Optimised Focus Range*</b>	<b>Lens Shift (Frame)</b>	0.38 :1 fixed	117-341	0.68m - 2.44m	Depends on image size, see Installation Guide.	0.74 - 0.93 :1 zoom	115-339	1.02m - 12.7m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame	0.76 :1 fixed	112-499	0.81m - 5.08m	none	1.24 - 1.78 :1 zoom	112-500	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	112-501	1.83m - 14.9m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame	2.2 - 3.67 :1 zoom	112-502	2.36m - 24.2m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame	3.54 - 5.36 :1 zoom	112-503	3.8m - 35.35m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame	5.24 - 8.27 :1 zoom	112-504	5.59m - 54.8m	Vert: 0.5 (U) 0.3 (D) frame, Hor: 0.1(L) 0.2 (R) frame
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<p>* 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%,</p>																																					
<b>Lens Mount</b>	Motorised and programmable shift, zoom and focus. Intelligent Lens Memory with 10 user-definable preset positions (except UST lens).																																				
<b>Mechanical Mounting</b>	Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet																																				
<b>Orientation</b>	<b>Table Top or Inverted:</b> Yes <b>Pointing Up:</b> Yes <b>Pointing Down:</b> Yes <b>Roll (Portrait):</b> Yes																																				
<b>Power Requirements</b>	100-130VAC and 200-240VAC selectable, 50/60Hz single phase																																				
<b>Power Consumption</b>	950 W @220 Vac (1000 W @110 Vac)																																				
<b>Thermal Dissipation</b>	Max 3139 BTU/hour @100 VAC Max 3002 BTU/hour @240 VAC																																				
<b>Fan Noise</b>	<b>Smooth Picture On:</b> <i>Normal mode:</i> typical 40 (max 42) dBA <i>Eco2 mode:</i> typical 37 (max 39) dBA <b>Smooth Picture Off:</b> <i>Normal mode:</i> typical 38 (max 40) dBA <i>Eco2 mode:</i> typical 34 (max 36) dBA																																				
<b>Operating/Storage</b>	Operating: 5 to 40C (41 to 104F)																																				

<b>Temperature:</b>	Storage: -10 to 60C (14 to 140F)	
<b>Operating Humidity</b>	10 to 85% non-condensing	
<b>Weight</b>	28.15 kg / 62 lbs	
<b>Dimensions</b>	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	
<b>Safety &amp; EMC Regulations</b>	CE, FCC Class A, CCC, UL/cUL, FDA CB, KC, CEL, CECP	
<b>Accessories</b>	Accessory	Part No.
	Infrared Remote (replacement)	117-880
	<i>*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.</i>	
<b>Downloads</b>	<a href="#">PDF CAD Drawings</a> <a href="#">AUTOCAD Drawings</a> <a href="#">STEP / IGS Drawings</a> <a href="#">Lens CAD Drawings</a>	
<b>User Guide</b>	<a href="#">User Guides</a> <a href="#">Laser Risk Group Document</a> <a href="#">Important Information</a> <a href="#">Important Information (Korean)</a> <a href="#">Control Protocol</a> <a href="#">Ultra Short Throw Lens</a> <a href="#">Ultra Short Throw Lens Installation Guide</a>	



**DIGITAL PROJECTION, LTD**



**Unit 3, Aniseed Park, Broadgate,**

**Oldham, UK OL9 9XA**



**T: +44 (0)161 947 3300**



**[www.digitalprojection.com](http://www.digitalprojection.com)**



**DIGITAL PROJECTION, INC**



**55 Chastain Road, Suite 115 Kennesaw, GA.**

**30144**



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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