# Specification Sheet

## 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 No:118-150

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## 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.

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## 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™

- Fast transit pixels for smooth greyscale and improved contrast.
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### 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Connector</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>DisplayPort 1.2 (2D)</td>
<td>DisplayPort</td>
<td>1</td>
</tr>
<tr>
<td>HDMI 1.4b (3D)</td>
<td>HDMI</td>
<td>2</td>
</tr>
<tr>
<td>HDMI 2.0 (2D)</td>
<td>HDMI</td>
<td>2</td>
</tr>
<tr>
<td>3G-SDI in (2D)</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>3G-SDI out</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>HDBaseT (see LAN) (2D)</td>
<td>RJ45</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Connector</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D Sync Out</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>3D Sync In</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>LAN</td>
<td>RJ45</td>
<td>2</td>
</tr>
<tr>
<td>RS232</td>
<td>9-pin D Sub</td>
<td>1</td>
</tr>
<tr>
<td>Wired Remote</td>
<td>3.5mm Stereo</td>
<td>1</td>
</tr>
<tr>
<td>12V Trigger</td>
<td>Jack</td>
<td>2</td>
</tr>
<tr>
<td>3D Sync IR Out</td>
<td>3.5mm Stereo</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Jack</td>
<td></td>
</tr>
</tbody>
</table>

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

### 3D 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)

### 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)

### 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

### 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)

### Colour Temperature
- 3200K to 9300K
### Lamp Type
- **Laser Light Source**: 20,000 hours

### Lenses

<table>
<thead>
<tr>
<th>Lens Type</th>
<th>Part No.</th>
<th>Focus Range</th>
<th>Lens Shift</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.38 :1 fixed</td>
<td>117-341</td>
<td>0.68m - 2.44m</td>
<td>None</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>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>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>2.20 - 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>

*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

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Table Top or Inverted:</strong> Yes</td>
<td>100-130VAC and 200-240VAC selectable, 50/60Hz single phase</td>
</tr>
<tr>
<td><strong>Pointing Up:</strong> Yes</td>
<td>950 W @220 Vac (1000 W @110 Vac)W</td>
</tr>
<tr>
<td><strong>Pointing Down:</strong> Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Roll (Portrait):</strong> Yes</td>
<td></td>
</tr>
</tbody>
</table>

### Power Requirements
- **100-130VAC and 200-240VAC selectable, 50/60Hz single phase**: 950 W @220 Vac (1000 W @110 Vac)W

### Thermal Dissipation
- **Max 3139 BTU/hour @100 VAC**
- **Max 3002 BTU/hour @240 VAC BTU/Hour**

### 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 40°C (41 to 104°F)
- **Storage**: -40 to 60°C (14 to 140°F)

### 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, CE, CEC

*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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