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# E-VISION LASER 11000 4K-UHD DIGITAL PROJECTOR

THE VISIONARIES CHOICE



## E-Vision Laser 11000 4K-UHD

**9,500 ANSI / 10,500 ISO Lumens | Contrast Ratio: 6,000:1 (Dynamic Black) 1,000:1 native | Part Number: 120-602**

### Key Specifications:

<b>Colour System:</b>	Laser Phosphor with enhanced 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 with HDCP 2.2</li><li>• 2 x HDMI 2.0 with HDCP 2.2</li><li>• 2 x HDMI 1.4b inputs with HDCP 1.4 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

- Onboard 4-Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, Arc, and Image Rotation
- User definable custom warp
- Digital zoom, pan and scan.
- Independent four boundary 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 with the 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: ColorMax / Manual Color Matching / Color Temperature / Gains and Lifts
- 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>	200-240VAC 50/60Hz single phase 6.6A 100-130VAC 50/60Hz single phase 14.0A Note: that in 100-130VAC operation, the projector will be at 80% brightness																																				
<b>Power Consumption</b>	1080W @110V, 240V_50HZ Typical: 1290W																																				
<b>Thermal Dissipation</b>	Typical 3685 BTU/Hour @ 100VAC Typical 4406 BTU/Hour @ 240VAC																																				
<b>Fan Noise</b>	<b>Smooth Picture On:</b> <i>Normal mode:</i> typical 43 (max 45) dBA <i>Eco mode:</i> typical 39 (max 41) dBA <b>Smooth Picture Off:</b>																																				

	<i>Normal mode:</i> typical 42 (max 44) dBA <i>Eco mode:</i> typical 38 (max 40) dBA					
<b>Operating/Storage Temperature Operating:</b>	Operating: 5 to 40C (41 to 104F) Storage: -10 to 60C (14 to 140F)					
<b>Operating Humidity</b>	10 to 85% non-condensing ((with maximum temperature of 40C )					
<b>Weight</b>	31 kg / 63.34 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>	UL/cUL, BIS, CB, CCC, CQC Eco label, CECP, KC, KTL, IC,BSMI, RoHS (China), RoHS (EU),FCC Class A, FDA,CE, IEC EN 60825-1 Class 3R Laser Product, IEC EN 62471-5 Risk Group 2, WEEE (EU), PSE, UKCA					
<b>Accessories</b>	<table border="1"> <thead> <tr> <th>Accessory</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>Infrared Remote (replacement)</td> <td>117-880</td> </tr> </tbody> </table>		Accessory	Part No.	Infrared Remote (replacement)	117-880
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<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="#">User Guides (German)</a> <a href="#">User Guides (French)</a> <a href="#">Laser Risk Group Document</a> <a href="#">Important Information</a> <a href="#">Important Information (German)</a> <a href="#">Important Information (French)</a> <a href="#">Control Protocol</a> <a href="#">Ultra Short Throw Lens</a> <a href="#">Ultra Short Throw Lens Installation Guide</a>					



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