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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: 120-608

Key Specifications:

Colour System:	Laser Phosphor with colourwheel
Display Type:	1 x 0.66" 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 <ul style="list-style-type: none">• 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.

	<div><div>Geometry Correction</div><div><ul style="list-style-type: none">• 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.</div></div> <div><div>Edge Blending</div><div><ul style="list-style-type: none">• Blending control available for all sides with width control.• Correction for non-active pixels at the edge of the display.</div></div> <div><div>Picture in Picture</div><div><ul style="list-style-type: none">• Two sources can be displayed simultaneously using 2D inputs: either picture in picture (PIP), or side by side (PBP), with original aspect ratios maintained.</div></div> <div><div>HDBaseT® Interface</div><div><ul style="list-style-type: none">• 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</div></div> <div><div>Colour Processing</div><div><ul style="list-style-type: none">• 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.</div></div> <div><div>Projector Controller Software</div><div><ul style="list-style-type: none">• Intuitive user interface for network control.• Simultaneous control of user-defined groups of projectors.• At-a-glance monitoring of projector status.</div></div> <div><div>Projector Automation</div><div><ul style="list-style-type: none">• Real-time clock provides daily on/off automation.• E-mail alerts for system status.</div></div>						
Source Compatibility	<div><div>2D graphics standards up to 4K-UHD 3840 x 2160 resolution at 60Hz via HDMI 2.0, HDBaseT (4:2:0) and DisplayPort inputs.</div><div>3D graphics standards up to WQXGA at 120Hz DualPipe via HDMI 1.4b inputs.</div><div>3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.</div><div>WQXGA+ mode</div><div>2D sources up to WQXGA+ at 120Hz can be displayed scaled to fit WQXGA+.</div><div>3D sources up to WQXGA at 120Hz can be displayed scaled to fit WQXGA+.</div><div>4K-UHD mode</div><div>2D sources up to 4K-UHD will be displayed scaled to fit 4K-UHD.</div><div>Auto mode</div><div>Sources greater than WQXGA+ will be displayed scaled to fit 4K-UHD.</div><div>Sources up to WQXGA+ will be displayed scaled to fit WQXGA+.</div></div>						
Inputs/Outputs	<table><tr><td colspan="3">Video & Computer</td></tr><tr><td></td><td></td><td></td></tr></table>	Video & Computer					
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	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	
NOTE: One of the LAN ports is shared with HDBase-T.	BNC	1	
3D Formats Supported	Frame Sequential Dual-Pipe		
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+.		
Bandwidth	498 megapixels per second via DisplayPort and HDMI 2.0.		
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		
Operation			
illumination Type	Laser Light Source		

Typical illumination Life	20,000 hours																																							
Lenses	<table><tr><th>Lens</th><th>Part No.</th><th>Optimised Focus Range*</th><th>Lens Shift (Frame)</th></tr><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></table>				Lens	Part No.	Optimised Focus Range*	Lens Shift (Frame)	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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* 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	Operating: 5 to 40C (41 to 104F)																																							

Temperature Operating:	Storage: -10 to 60C (14 to 140F)	
Operating Humidity	10 to 85% non-condensing	
Weight	28.15 kg / 62 lbs	
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
	<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>	
Downloads	PDF CAD Drawings AUTOCAD Drawings STEP / IGS Drawings Lens CAD Drawings	
User Guide	User Guides User Guides (German) User Guides (French) Laser Risk Group Document Important Information Important Information (Korean) Control Protocol Ultra Short Throw Lens Ultra Short Throw Lens Installation Guide	



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