

## HIGHLITE LASER 4K 12000 DIGITAL PROJECTOR



THE VISIONARIES CHOICE

11,000 ANSI / 12,500 ISO Lumens | Contrast Ratio: 2,000:1 | Part Number: 120-609

### Colour System:

3-chip DLP®

### DMD Specification:

Display capability up to 4K-UHD.

8.3 megapixels on screen at 4K-UHD (3840 x 2160).

Fast transit pixels for smooth greyscale and improved contrast.

### Display Type:

3 x 0.65" 1080p DMD™

### Aspect Ratio:

16:9

### Fill Factor

Not applicable: Smooth Picture DMD™

## Key Features

### Environmental

- Sealed Optics
- Filterless
- Dust Resistant

### Video & Graphics Processing

- HDR processing
- DisplayPort 1.2.
- 2 x HDMI 2.0.
- HDBase-T.
- 3G-SDI with loop-through.
- Scaling with aspect ratio management for a wide range of sources.
- 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 the projector to be placed up to 100m from the source with low cost cabling.
- Supports up to 4K UHD 3840x2160 @ 60Hz (4:2:0) / 8-bit  
3840x2160 @ 30Hz (4:4:4) / 8-bit  
3840x2160 @ 30Hz (4:2:2) / 12-bit

### **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.

3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant upto 1080p.

# Inputs/Outputs

Video & Computer			Communication & Control		
Type	Connector	Qty	Type	Connector	Qty
DisplayPort 1.2	DisplayPort	1	LAN	RJ45	1
HDMI 2.0	HDMI	2	RS232	9-pin D Sub	1
3G-SDI In	BNC	1	Wired Remote	3.5mm Stereo Jack	1
3G-SDI Out	BNC	1	12V Trigger	3.5mm Stereo Jack	2
HDBaseT/LAN	LAN RJ45	1			
3D Formats Supported			HDTV Formats Supported		
Not applicable			1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz) 1080i (50Hz, 60Hz) 720p (50Hz, 60Hz) 2K (24Hz, 25Hz, 30Hz, 50Hz, 60Hz) 4K-UHD (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)		
Computer Compatibility			Bandwidth		
2D 4K-UHD up to 60Hz			498 Megapixels per second via DisplayPort and HDMI 2.0.		
Remote Control			Automation Control		
Addressable IR remote control, wireless and wired. On-Board keypad.			Crestron Room View® Connected PJ Link 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			Operation		
3200K to 9300K					
Illumination Type			Typical illumination Life		
Laser Light Source			20,000 hours		
Lenses					
Lens	Part No.	Optimised Focus Range*	Lens Shift		
0.77 : 1 fixed HB	110-808	1.3m - 15.0m	Vert: 0.38 (U) 0.38 (D) frame, Hor: 0.16 (L) 0.16 (R) frame		
1.16 : 1 fixed HB	110-809	1.4m - 25.0m	Vert: 0.38 (U) 0.38 (D) frame, Hor: 0.16 (L) 0.16 (R) frame		
1.45 - 1.74 : 1 zoom HB	110-803	1.8m - 9.3m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.16 (L) 0.16 (R) frame		
1.74 - 2.17 : 1 zoom HB	112-878	2.2m - 11.8m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.16 (L) 0.16 (R) frame		
2.17 - 2.90 : 1 zoom HB	113-852	2.7m - 15.4m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.16 (L) 0.16 (R) frame		
2.90 - 4.34 : 1 zoom HB	110-806	3.6m - 22.5m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.16 (L) 0.16 (R) frame		
4.34 - 6.76 : 1 zoom HB	110-807	5.5m - 35m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.16 (L) 0.16 (R) frame		
* 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 (on selected lenses).					
Mechanical Mounting			Orientation		
Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet			Table Top or Inverted: Yes Pointing Up: Yes Pointing Down: Yes Roll (Portrait): Yes		
Power Requirements			Power Consumption		
110 - 240VAC selectable, 50/60Hz single phase (At 110 - 130VAC the light output is reduced to 70%.)			1650W at 220VAC Nominal		

<b>Thermal Dissipation</b>	<b>Fan Noise</b>
5627 BTU/hr at 220 VAC, 4126 BTU/hr at 110 VAC	Full power 4K-UHD Typ: 43dBA, Max 45dBA
<b>Operating/Storage Temperature</b>	<b>Operating Humidity</b>
Operating: 0 to 35C (32 to 95F) Storage: -20 to 60C (-4 to 140F)	20% to 90% non-condensing
<b>Weight (Chassis Only)</b>	<b>Dimensions</b>
70 kg 154.3 lb	H: 30.7 cm W: 58.5 cm L: 97.0 cm H: 30.7 cm W: 70.1 cm L: 97.0 cm (with handles) H: 12.1 in W: 23.0 in L: 38.2 in H: 12.1 in W: 27.6 in L: 38.2 in (with handles)

**Safety & EMC Regulations**  
 UL/cUL, CB, CCC, KC, RoHS (CN), FCC Class A, FDA, CE  
 IEC EN 60825-1:2014 Class 1 Laser Product  
 IEC 60825-1:2007 Class 3R Laser Product  
 IEC EN 62471-5:2015 Risk Group 2  
 WEEE (UK)

<b>Accessories</b>	
<b>Accessory</b>	<b>Part No.</b>
RapidRig™ Frame	117-705
Infrared Remote (replacement)	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.*

<b>Downloads</b>	
<a href="#">PDF CAD Drawings</a>	<a href="#">User Guides</a>
<a href="#">AUTOCAD Drawings</a>	<a href="#">Laser Risk Group Document</a>
<a href="#">STEP / IGS Drawings</a>	<a href="#">Important Information</a>
<a href="#">Lens CAD Drawings</a>	<a href="#">Important Information (Korean)</a>
	<a href="#">Control Protocol</a>



Certificate Number 13629  
ISO 9001

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