



## Satellite Insight Modular Laser System 4K 120Hz Specification

*Satellite MLS is a (r)evolution in projection technology.*

*Totally configurable to overcome traditional installation challenges.*

*Simple building blocks for complex applications.*



# Satellite Insight MLS 4K 120Hz

10,000 to 40,000 Lumens | Contrast Ratio: 2,000:1



## Key Features:

### Satellite Insight Head

Native 4K Resolution (4096 x 2160)  
 Separate Head - compact, lightweight & low noise  
 Sealed Optics  
 Near Maintenance free  
 3D Capable

### Modular Light Source

RGB Modular Light source  
 Near BT2020 colour space  
 Rack mountable • Fully Interlocked  
 Interconnection - Satellite Link Cable available in various lengths  
 Use 10K, 20K or 30K Modular Light Sources to achieve the desired brightness to a maximum of 40,000 Lumens or share one source to multiple heads.

## Key Specifications:

<b>Colour System:</b>	3-chip DLP®																								
<b>Display Type:</b>	3 x 1.38" DarkChip™ DMD™																								
<b>DMD Specification:</b>	4096 x 2160 pixels native. Fast transit pixels for smooth greyscale and improved contrast.																								
<b>Aspect Ratio:</b>	1.90:1																								
<b>Fill Factor</b>	87%																								
<b>Video &amp; Graphics processing</b>	Up to 60 fps 4096 x 2160 pixels sequential input via single DisplayPort input. Up to 120 fps (2 x 60 fps) 4096 x 2160 pixels Dual-Pipe input via DisplayPort. Dual Flash Processing capability.. Dark Time insertion capability. Smear reduction for 2D displays. Synchronisation of active glasses or polarising switcher. Low latency processing.																								
<b>Colour adjustments</b>	Up to 12 bits per colour (RGB) processing (depending on source and input type). Degamma table maps input to 16 bit palette (R, G & B) for display. Degamma selection from a list of parametric curves. Individual R, G & B lift and gain. Black and White level adjustment via Brightness & Contrast control.																								
<b>ColorMax™</b>	Accurate matching of projectors in tiled or blended applications. User selection and storage of primary and secondary user defined color targets up to 7 points.																								
<b>Control</b>	On-board touch-panel control. Remote control - IR or cable. Network control via RJ45. Tablet and smart phone control via served web page. PC control application.																								
<b>Mounting</b>	<b>Head mounting</b> Fixing points on Top/Bottom and sides. Additional front fixing for third party attachments i.e optical blenders. <b>MLS Mounting</b> 19" 3U (10K MLS) and 19" 4U (20K 30K MLS) rack mounting <b>SCM Mounting</b> 19" 3U rack mounting																								
<b>Lens Features</b>	Robust lens mount with memorised position, zoom and focus. Extensive lens shift encompassing all lens capabilities. High quality sharp lenses designed for 4K performance with wide focal ranges.																								
<b>Source Compatibility</b>	Graphics standards up to 4096 x 2160 at 60 fps via each DisplayPort. 60 fps via HDMI. Higher input frame rates supported at 2K resolution.																								
<b>Inputs/Outputs</b>	<table border="1"> <thead> <tr> <th colspan="3">Video &amp; Computer</th> <th colspan="3">Communication &amp; Control</th> </tr> </thead> <tbody> <tr> <td>DisplayPort 1.2</td> <td>DisplayPort</td> <td>2</td> <td>3D Sync in/out</td> <td>BNC</td> <td>2</td> </tr> <tr> <td>HDMI</td> <td>HDMI</td> <td>2</td> <td>LAN</td> <td>RJ45</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Wired remote</td> <td>3.5mm Stereo Jack</td> <td>1</td> </tr> </tbody> </table>	Video & Computer			Communication & Control			DisplayPort 1.2	DisplayPort	2	3D Sync in/out	BNC	2	HDMI	HDMI	2	LAN	RJ45	1				Wired remote	3.5mm Stereo Jack	1
Video & Computer			Communication & Control																						
DisplayPort 1.2	DisplayPort	2	3D Sync in/out	BNC	2																				
HDMI	HDMI	2	LAN	RJ45	1																				
			Wired remote	3.5mm Stereo Jack	1																				
<b>3D Formats Supported</b>	Dual Pipe & Frame Sequential. Frame Packed, Top-Bottom via HDMI																								

<b>Formats Supported</b>	4096 x 2160p (24, 25, 29.97, 30, 50, 59.94, 60 Hz) (Up to 120 Hz via Dual Pipe) 3840 x 2160p (24, 25, 29.97, 30, 50, 59.94, 60 Hz) (Up to 120 Hz via Dual Pipe) 1080p (24, 25, 29.97, 30, 50, 59.94, 60 Hz) (Up to 120 Hz)		
<b>Computer Compatibility</b>	Up to 4096 x 2160		
<b>Projector Head Control</b>	IR & Wired remote control & On-Board touch Panel with OSD		
<b>Automation Control</b>	LAN.		
<b>Colour Temperature</b>	User selectable from 3300 to 10000K		
<b>illumination Type</b>	RGB Laser Light Source		
<b>Typical illumination Life</b>	30,000 Hours		
<b>Lenses</b>	<b>Lens</b>	<b>Part No.</b>	<b>Lens Shift (Frame)</b>
	0.93:1 fixed	117-310	Vert: 0.21 (U) 0.21 (D), Hor: 0.08 (L) 0.08 (R)
	1.13 - 1.72:1	115-627	Vert: 0.34 (U) 0.19 (D), Hor: 0.08 (L) 0.10 (R)
	1.65 - 2.60:1	115-630	Vert: 0.40 (U) 0.20 (D), Hor: 0.13 (L) 0.13 (R)
	2.53 - 4.98:1	115-632	Vert: 0.37 (U) 0.20 (D), Hor: 0.13 (L) 0.13 (R)
	<b>At 4K-UHD</b>		
	0.99:1 fixed	117-310	Vert: 0.27 (U) 0.20 (D), Hor: 0.10 (L) 0.11 (R)
	1.21 - 1.83:1	115-627	Vert: 0.40 (U) 0.20 (D), Hor: 0.08 (L) 0.14 (R)
	1.76 - 2.77:1	115-630	Vert: 0.45 (U) 0.20 (D), Hor: 0.13 (L) 0.17 (R)
	2.70 - 5.31:1	115-632	Vert: 0.42 (U) 0.20 (D), Hor: 0.13 (L) 0.17 (R)
<b>Lens Mount</b>	Motorised shift, zoom and focus. Intelligent Lens Memory with user-definable preset positions.		
<b>Mechanical Mounting</b>	Front/Rear Table. Front/Rear Ceiling . Adjustable Front/Rear Feet.		
<b>Orientation</b>	Table Top or Inverted:. Pointing Up. Pointing Down. Roll (Portrait)		
<b>Power Requirements</b>	<b>Head, MLS &amp; SCM</b> 100 - 240VAC 50/60Hz single phase		
<b>Power Consumption</b>	<b>Head</b> 250W, <b>10K MLS</b> 1000W, <b>20K MLS</b> 1633W, <b>30K MLS</b> 2488W, <b>SCM</b> 100W		
<b>Thermal Dissipation</b>	<b>Head</b> with 10K Lumens 1200 BTU/Hr with 40K Lumens 2220 BTU/hr. <b>MLS 10K MLS</b> 2500 BTU/Hr, <b>20K MLS</b> 5572 BTU/Hr, <b>30K MLS</b> 8489 BTU/hr, <b>SCM</b> 85 BTU/hr		
<b>Fan Noise</b>	<b>Head</b> <40 dBA, <b>MLS 10K</b> 45 dBA, <b>20K</b> 54 dBA, <b>30K</b> 58 dBA, <b>SCM</b> 30 dBA		
<b>Operating/Storage Temperature</b>	Operating: 0 to 35C (32 to 95F) Storage: -10 to 50C (14 to 122F)		
<b>Operating Humidity</b>	20 to 80% non-condensing		
<b>Weight</b>	<b>Head:</b> 40 kg / 88 lbs <b>MLS: 10K MLS</b> 17Kg / 37 lbs, <b>20K MLS</b> 28Kg / 62 lbs, <b>30K MLS</b> 29Kg / 63 lbs, <b>SCM:</b> 6.5 Kg / 14 lbs		
<b>Dimensions</b>	<b>Head</b> H: 47 cm / 18.5 in W: 43 cm / 16.9 in L:45 cm / 17.7 in <b>Modular Light Source (MLS) 10K</b> 19" 3U rack unit 50cm / 19.6" deep <b>Modular Light Source (MLS) 20K/30K</b> 19" 4U rack unit 75cm / 29.5" deep <b>Satellite Control Module (SCM)</b> 19" 3U rack unit 27cm / 10.6" deep		
<b>Part Numbers</b>	Satellite Insight Head 4K 120 120-885 MLS 10000 122-004 MLS 20000 123-445 MLS 30000 123-799		SCM 122-143 for full details on the Satellite Link Cable please contact your local sales representative.



**DIGITAL PROJECTION, LTD** Unit 3 Aniseed Park, Oldham Broadway Business Park, Oldham, UK, OL9 9XA **T:** +44.161.947.3300 [www.digitalprojection.co.uk](http://www.digitalprojection.co.uk)

**DIGITAL PROJECTION, INC** 55 CHASTAIN ROAD, SUITE 115 KENNESAW, GA. 30144 **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



Laser class Statement: Class 1 RG3 Laser Product. No direct exposure to the beam shall be permitted, RG3 IEC 62471-5:2015. Operators shall control access to the beam within the hazard distance or install the product at a height that will prevent exposure of the spectator's eyes within the hazard distance