



## Satellite Insight Modular Laser System HFR 360 Hz Multiview 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 HFR 360

## MultiView - up to 3 stereo simultaneous views

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



### Key Features:

#### Satellite Insight Head

Native 4K Resolution (4096 x 2160)  
 High frame rate up to 360fps  
 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  
 Combines 1,2,3,4 Modular Light Sources

### 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 6 x 60 fps 4096 x 2160 pixels sequential input via single DisplayPort input. 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 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="2">Video &amp; Computer</th> <th colspan="4">Communication &amp; Control</th> </tr> </thead> <tbody> <tr> <td>DisplayPort 1.2</td> <td>DisplayPort</td> <td>6</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	6	3D Sync in/out	BNC	2	HDMI	HDMI	2	LAN	RJ45	1				Wired remote	3.5mm Stereo Jack	1
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<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, or up to 360 Hz via 6 channels) 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>	<table border="1"> <thead> <tr> <th>Lens</th> <th>Part No.</th> <th>Lens Shift (Frame)</th> </tr> </thead> <tbody> <tr> <td>0.93:1 fixed</td> <td>117-310</td> <td>Vert: 0.21 (U) 0.21 (D), Hor: 0.08 (L) 0.08 (R)</td> </tr> <tr> <td>1.13 - 1.72:1</td> <td>115-627</td> <td>Vert: 0.34 (U) 0.19 (D), Hor: 0.08 (L) 0.10 (R)</td> </tr> <tr> <td>1.65 - 2.60:1</td> <td>115-630</td> <td>Vert: 0.40 (U) 0.20 (D), Hor: 0.13 (L) 0.13 (R)</td> </tr> <tr> <td>2.53 - 4.98:1</td> <td>115-632</td> <td>Vert: 0.37 (U) 0.20 (D), Hor: 0.13 (L) 0.13 (R)</td> </tr> <tr> <td colspan="3"><b>At 4K-UHD</b></td> </tr> <tr> <td>0.99:1 fixed</td> <td>117-310</td> <td>Vert: 0.27 (U) 0.20 (D), Hor: 0.10 (L) 0.11 (R)</td> </tr> <tr> <td>1.21 - 1.83:1</td> <td>115-627</td> <td>Vert: 0.40 (U) 0.20 (D), Hor: 0.08 (L) 0.14 (R)</td> </tr> <tr> <td>1.76 - 2.77:1</td> <td>115-630</td> <td>Vert: 0.45 (U) 0.20 (D), Hor: 0.13 (L) 0.17 (R)</td> </tr> <tr> <td>2.70 - 5.31:1</td> <td>115-632</td> <td>Vert: 0.42 (U) 0.20 (D), Hor: 0.13 (L) 0.17 (R)</td> </tr> </tbody> </table> <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: INSIGHT Series: +/-2%.</p>	Lens	Part No.	Lens Shift (Frame)	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)
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<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>MLS 20K</b> 54 dBA <b>SCM</b> 32 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> 46 kg /101.5 lbs <b>MLS: 10K MLS</b> 17Kg / 37 lbs, <b>20K MLS</b> 28Kg / 61 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" 4U rack unit 40cm / 15.8" deep																														
<b>Part Numbers</b>	Satellite Insight Head 4K HFR 360 120-888, MLS 10000 122-004, MLS 20000 123-445, MLS 30000 123-799																														



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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