

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:

Colour System:	3-chip DLP®																								
Display Type:	3 x 1.38" DarkChip™ DMD™																								
DMD Specification:	4096 x 2160 pixels native. Fast transit pixels for smooth greyscale and improved contrast.																								
Aspect Ratio:	1.90:1																								
Fill Factor	87%																								
Video & Graphics processing	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.																								
Colour adjustments	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.																								
ColorMax™	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.																								
Control	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.																								
Mounting	Head mounting Fixing points on Top/Bottom and sides. Additional front fixing for third party attachments i.e optical blenders. MLS Mounting 19" 3U rack mounting																								
Lens Features	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.																								
Source Compatibility	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.																								
Inputs/Outputs	<table border="1"><thead><tr><th colspan="2">Video & Computer</th><th colspan="4">Communication & 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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3D Formats Supported	Dual Pipe & Frame Sequential. Frame Packed, Top-Bottom via HDMI																								

Formats Supported	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)		
Computer Compatibility	Up to 4096 x 2160		
Projector Head Control	IR & Wired remote control & On-Board touch-panel with OSD		
Automation Control	LAN.		
Colour Temperature	User selectable from 3300 to 10000K		
illumination Type	RGB Laser Light Source		
Typical illumination Life	30,000 Hours		
Lenses	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)
	At 4K-UHD		
	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)
	* 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%.		
Lens Mount	Motorised shift, zoom and focus. Intelligent Lens Memory with user-definable preset positions.		
Mechanical Mounting	Front/Rear Table. Front/Rear Ceiling. Adjustable Front/Rear Feet.		
Orientation	Table Top or Inverted: Pointing Up. Pointing Down. Roll (Portrait)		
Power Requirements	Head, MLS & SCM 100 - 240VAC 50/60Hz single phase		
Power Consumption	Head 250W, 10K MLS 1000W, 20K MLS 1633W, 30K MLS 2488W, SCM 100W		
Thermal Dissipation	Head with 10K Lumens 1200 BTU/Hr with 40K Lumens 2220 BTU/hr. MLS 10K MLS 2500 BTU/Hr, 20K MLS 5572 BTU/Hr, 30K MLS 8489 BTU/hr, SCM 85 BTU/hr		
Fan Noise	Head <40 dBA MLS 10K 45 dBA MLS 20K 54 dBA SCM 32 dBA		
Operating/Storage Temperature	Operating: 0 to 35C (32 to 95F) Storage: -10 to 50C (14 to 122F)		
Operating Humidity	20 to 80% non-condensing		
Weight	Head: 46 kg / 101.5 lbs MLS: 10K MLS 17Kg / 37 lbs, 20K MLS 28Kg / 61 lbs, 30K MLS 29Kg / 63 lbs, SCM: 6.5 Kg / 14 lbs		
Dimensions	Head H: 47 cm / 18.5 in W: 43 cm / 16.9 in L:45 cm / 17.7 in Modular Light Source (MLS) 10K 19" 3U rack unit 50cm / 19.6" deep Modular Light Source (MLS) 20K/30K 19" 4U rack unit 75cm / 29.5" deep Satellite Control Module (SCM) 19" 4U rack unit 40cm / 15.8" deep		
Part Numbers	Satellite Insight Head 4K HFR 360 120-888, MLS 10000 122-004, MLS 20000 123-445, MLS 30000 123-799		



INSIGHT Satellite Head



Modular Light Source (MLS)



Satellite Link Cable (SLC)



System Control Module (SCM)

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