

Satellite Modular Laser System Specification (Preliminary)

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

(Preliminary Specification)

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

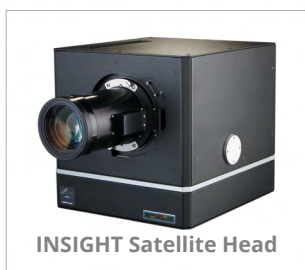
Modular Light Source

RGB Modular Light source
 Near BT2020 colour space
 Rack mountable · Fully Interlocked
 Interconnection - Satellite Link Cable available in various lengths
 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 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.																																				
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" 4U 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="3">Video & Computer</th> <th colspan="3">Communication & 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>RS232</td> <td>9-pin D Sub</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> <tr> <td></td> <td></td> <td></td> <td>Service Port</td> <td>USB Type A</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				RS232	9-pin D Sub	1				Wired remote	3.5mm Stereo Jack	1				Service Port	USB Type A	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) 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	RS232. LAN.																														
Colour Temperature	User selectable from 3300 to 10000K																														
illumination Type	RGB Laser Light Source																														
Typical illumination Life	30,000 Hours																														
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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 110 - 240VAC 50/60Hz single phase																														
Power Consumption	Head 250W. Single MLS 1500W SCM 100W																														
Thermal Dissipation	Head with 10K Lumens 1200 BTU/Hr with 40K Lumens 2220 BTU/hr Single MLS 5118 BTU/hr																														
Fan Noise	Head <40 dBA MLS 50 dBa SCM 40 dBa																														
Operating/Storage Temperature	Operating: 0 to 40C (32 to 104F) Storage: -10 to 50C (14 to 122F)																														
Operating Humidity	20 to 80% non-condensing																														
Weight	Head: 40 kg / 88 lb MLS: 28 kg (TBC) SCM: 7 kg (TBC)																														
Dimensions	Head H: 40 cm W: 43 cm L: 45 cm H: 15.75 in W: 16.9 in L: 17.7 in Modular Light Source (MLS) 19" 4U rack unit 70cm deep Satellite Control Module (SCM) 19" 4U rack unit 40cm deep																														
Systems	Satellite Insight 10,000 4K 120Hz with 10m Satellite Link Cable - 121-360 Satellite Insight 20,000 4K 120Hz with 10m Satellite Link Cable - 121-361 Satellite Insight 30,000 4K 120Hz with 10m Satellite Link Cable - 121-362 Satellite Insight 40,000 4K 120Hz with 10m Satellite Link Cable - 121-363																														



INSIGHT Satellite Head



Modular Light Source (MLS)



Satellite Link Cable (SLC)



System Control Module (SCM)

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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

Specifications subject to change without notice.
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