

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 HIGHlite MLS 4K-UHD

(Preliminary Specification)

9,000 Lumens | Contrast Ratio: 2,000:1



Key Features:

Satellite HIGHlite Head

Display Resolution 4K-UHD (3840 x 2160) / (HD 1920 x 1080)
 Separate Head - compact, lightweight & low noise
 Sealed Optics
 Near Maintenance free

Modular Light Source

RGB Modular Light source
 Near BT2020 colour space
 Rack mountable • Fully Interlocked
 Interconnection - Satellite Link Cable available in various lengths
 Single Modular Light Source or share one source to multiple Heads

Key Specifications:

Colour System:	3-chip DLP®																																		
Display Type:	3 x 0.67" DarkChip™ DMD™																																		
DMD Specification:	1920 x 1080 pixels native. Fast transit pixels for smooth greyscale and improved contrast.																																		
Aspect Ratio:	16:9																																		
Fill Factor	87%																																		
Video & Graphics processing	Up to 4K-UHD 3840 x 2160 resolution at 60Hz HD Mode - sources displayed within 1920 x 1080 4K-UHD Mode - sources displayed within 3840 x 2160 Smear reduction																																		
Colour adjustments	Up to 10 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. 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 keypad. Remote control - IR. 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 SCM Mounting 19" 3U rack mounting																																		
Lens Features	Robust lens mount with memorised position, zoom and focus on selected lenses. Extensive lens shift encompassing all lens capabilities. High quality sharp lenses with wide focal ranges.																																		
Source Compatibility	Graphics standards up to 3840 x 2160 at 60 fps via DisplayPort or HDMI and 1920 x 1200 at 120fps																																		
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>1</td> <td>5V/2A</td> <td>USB Type A</td> <td>1</td> </tr> <tr> <td>HDMI 2.0b</td> <td>HDMI</td> <td>1</td> <td>Ethernet</td> <td>RJ45</td> <td>1</td> </tr> <tr> <td>HDBaseT</td> <td>RJ45</td> <td>1</td> <td>Ethernet/Art-Net</td> <td>Ethercon</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Service</td> <td>Mini USB</td> <td>1</td> </tr> </tbody> </table>					Video & Computer			Communication & Control			DisplayPort 1.2	DisplayPort	1	5V/2A	USB Type A	1	HDMI 2.0b	HDMI	1	Ethernet	RJ45	1	HDBaseT	RJ45	1	Ethernet/Art-Net	Ethercon	1				Service	Mini USB	1
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Formats Supported	3840 x 2160p (24, 25, 30, 50, 60 Hz) 1080p/WUXGA (24, 25, 29.97, 30, 50, 59.94, 60 Hz) (Up to 120 Hz displayed within 1920 x 1080)		
Computer Compatibility	Up to 3840 x 2160		
Projector Head Control	IR remote control & On-Board keypad with OSD		
Automation Control	LAN.		
Colour Temperature	User selectable from 3300 to 10000K		
illumination Type	RGB Laser Light Source		
Typical illumination Life	> 20,000 Hours		
Lenses <i>* HIGHlite lenses are in the process of being upgraded please call for details</i>	Lens	Part No.	Lens Shift (Frame)
	0.77 : 1 fixed HB	110-808	Ver: 0.2 (U) 0.2 (D) frame, Hor: 0.05 (L) 0.05 (R)
	1.27-1.7:1 zoom HB	122-642	Ver: 0.48 (U) 0.48 (D) frame, Hor: 0.22 (L) 0.22 (R)
	1.74 - 2.17 : 1 zoom HB	112-878	Ver: 0.6 (U) 0.6 (D) frame, Hor: 0.15 (L) 0.15 (R)
	2.17 - 2.90 : 1 zoom HB	113-852	Ver: 0.6 (U) 0.6 (D) frame, Hor: 0.15 (L) 0.15 (R)
Lens Mount	Motorised shift, zoom and focus. Intelligent Lens Memory with user-definable preset positions on selected lenses.		
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 130W. Single MLS 1000W SCM 100W		
Thermal Dissipation	Head 440 BTU/Hr Single MLS 3412 BTU/hr		
Fan Noise	Head 37 dBA MLS <43 dBA SCM <30 dBA		
Operating/Storage Temperature	Operating: 0 to 40C (32 to 104F) Storage: -20 to 60C (-4 to 140F) (Over 35C Eco Mode)		
Operating Humidity	20 to 80% non-condensing		
Weight	Head: 19 kg MLS: 17 kg SCM: 6.5 kg / Head: 42 lb MLS: 37 lb SCM: 14 lb		
Dimensions	Head H: 31.5 cm W: 29.9 cm L: 33.7 cm / H: 12.4 in W: 11.77 in L: 13.3 in Modular Light Source (MLS) 19" 3U rack unit 50cm / 19.6 in deep Satellite Control Module (SCM) 19" 3U rack unit 27cm / 10.6 in deep		
Systems	Satellite HIGHlite 9000 4K-UHD 60Hz with 10m Satellite Link Cable - 121-386		



HIGHlite 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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