



## Satellite HIGHlite Modular Laser System WUXGA Specification

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 WUXGA

10,000 to 20,000 ISO Lumens | Contrast Ratio: 2,000:1

## Key Features:

### Satellite HIGHlite Head

Native WUXGA Resolution (1920 x 1200)  
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  
Combine up to two 10K or one 20K Modular Light Sources, or share one source to multiple Heads



## Key Specifications:

<b>Colour System:</b>	3-chip DLP®																																		
<b>Display Type:</b>	3 x 0.67" DarkChip™ DMD™																																		
<b>DMD Specification:</b>	1920 x 1200 pixels native. Fast transit pixels for smooth greyscale and improved contrast.																																		
<b>Aspect Ratio:</b>	16:10																																		
<b>Fill Factor</b>	87%																																		
<b>Video &amp; Graphics processing</b>	Up to 120 fps 1920 x 1200 pixels sequential input via single DisplayPort or HDMI input. Up to 4K-UHD 60Hz compatibility displayed within WUXGA. Smear reduction.																																		
<b>Colour adjustments</b>	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.																																		
<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 keypad. Remote control - IR. Network control via RJ45. Single point of system control via Satellite Control Module 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 MLS) rack mounting <b>SCM Mounting</b> 19" 3U rack mounting																																		
<b>Lens Features</b>	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.																																		
<b>Source Compatibility</b>	Graphics standards up to 3840 x 2160 at 60 fps via DisplayPort or HDMI and 1920 x 1200 at 120fps displayed in WUXGA																																		
<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>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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<b>Formats Supported</b>	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)		
<b>Computer Compatibility</b>	Up to 3840 x 2160		
<b>Projector Head Control</b>	IR remote control & On-Board keypad 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>	> 20,000 Hours		
<b>Lenses</b>	<b>Lens</b>	<b>Part No.</b>	<b>Lens Shift (Frame)</b>
	0.83 - 1.21 : 1 zoom	122-817	Ver: 0.5 (U) 0.5 (D) frame, Hor: 0.15 (L) 0.15 (R)
	1.21 - 1.70 : 1 zoom	122-818	Ver: 0.47 (U) 0.47 (D) frame, Hor: 0.15 (L) 0.15 (R)
	1.50 - 2.15 : 1 zoom	122-819	Ver: 0.47 (U) 0.47 (D) frame, Hor: 0.15 (L) 0.15 (R)
	2.00 - 3.90 : 1 zoom	122-820	Ver: 0.47 (U) 0.47 (D) frame, Hor: 0.15 (L) 0.15 (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: HighLite Series: +/- 5%.		
<b>Lens Mount</b>	Motorised shift, zoom and focus. Intelligent Lens Memory with user-definable preset positions on selected lenses.		
<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> 156W <b>10K MLS</b> 1000W <b>20K MLS</b> 1633W <b>SCM</b> 25W		
<b>Thermal Dissipation</b>	<b>Head</b> 1000 BTU/Hr at 10,000 Lumens, 1500 BTU/Hr at 20,000 Lumens <b>10K MLS</b> 2500 BTU/hr, <b>20K MLS</b> 5572 BTU/hr, <b>SCM</b> 85 BTU/hr		
<b>Noise</b>	<b>Head</b> 39 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 40C (32 to 104F) Storage: -20 to 60C (-4 to 140F) (Over 35C Eco Mode)		
<b>Operating Humidity</b>	20 to 80% non-condensing		
<b>Weight</b>	<b>Head:</b> 19 kg/42 lb <b>10K MLS:</b> 17 kg/37 lb <b>20K MLS:</b> 28 kg/62 lb <b>SCM:</b> 6.5 kg/14 lb		
<b>Dimensions</b>	<b>Head</b> H: 31.5 cm / 12.4 in W: 29.9 cm / 12.4 in L: 33.7 cm / 13.3 in <b>Modular Light Source (MLS) 10K</b> 19" 3U rack unit 50cm / 19.6 in deep <b>Modular Light Source (MLS) 20/30K</b> 19" 4U rack unit 75cm / 29.5 in deep <b>Satellite Control Module (SCM)</b> 19" 3U rack unit 27cm / 10.6 in deep		
<b>Part Numbers</b>	Satellite HIGHlite Head WU 120-890, MLS 10000 122-004, MLS 20000 123-445, SCM 122-143, for full details on the Satellite Link Cable please contact your local sales representative.		
<b>Certification</b>	UL, UKCA, CE, FCC Class A		



**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