

## 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 TITAN MLS 4K-UHD

## (Preliminary Specification)

8,600 to 26,000 Lumens @ 4K-UHD | 9,500 to 29,000 Lumens @ WUXGA

Contrast Ratio: 2,000:1



### Key Features:

#### Satellite TITAN Head

Display Resolution 3840 x 2160  
 Separate Head - compact, lightweight & low noise  
 Sealed Optics  
 Near Maintenance free

#### Modular Light Source

RGB Laser Modular Light source  
 Near BT2020 colour space  
 Rack mountable • Fully Interlocked  
 Interconnection - Satellite Link Cable available in various lengths  
 Combine up to 3 Modular Light Sources, or share one source to multiple Heads

### Key Specifications:

<b>Colour System:</b>	RGB Laser																														
<b>Display Type:</b>	3 x 0.96" DarkChip™ DMD™																														
<b>DMD Specification:</b>	4K-UHD (3840x2160), WUXGA (1920x1200) Native. Fast Transit pixels for smooth greyscale.																														
<b>Aspect Ratio:</b>	16:9 (4K-UHD), 16:10 (WUXGA)																														
<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. Smear reduction in WUXGA mode.																														
<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 colour 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. 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 e.g. optical blenders. <b>MLS Mounting</b> 19" 3U rack mounting <b>SCM Mounting</b> 19" 4U 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 with wide focal ranges.																														
<b>Source Compatibility</b>	2D Graphics standards up to 4K-UHD (3840x2160) at 60Hz via HDMI 2.0 and DisplayPort. HDBaseT up to 30Hz. WUXGA (1920 x 1200) up to 120Hz. WUXGA mode - 2D sources up to WUXGA 120Hz and 4K-UHD 60Hz can be displayed and scaled to fit WUXGA. 4K-UHD mode - 2D sources up to 4K-UHD 60Hz will be scaled to fit 4K-UHD.																														
<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 2.0a</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 2.0a	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>
	0.37:1 (Right Angled)	120-510	Ver: 0.6 (U) 0.6 (D) frame, Hor: 0.3 (L) 0.3 (R)
	0.65-0.85:1 (Right Angled)	120-511	Ver: 0.5 (U) 0.5 (D) frame, Hor: 0.2 (L) 0.2 (R)
	0.8-1.16:1 (inc support bracket)	120-827	Ver: 0.4 (U) 0.4 (D) frame, Hor: 0.19 (L) 0.19 (R)
	1.16 - 1.49:1 zoom HB	109-236	Ver: 0.44 (U) 0.44 (D) frame, Hor: 0.188 (L) 0.188 (R)
	1.39 - 1.87:1 zoom HB	105-610	Ver: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R)
	1.87 - 2.56:1 zoom HB	105-611	Ver: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R)
	2.56 - 4.16:1 zoom HB	105-612	Ver: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R)
	4.16 - 6.96:1 zoom HB	105-613	Ver: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R)
	6.92 - 10.36:1 zoom HB	109-235	Ver: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R)
<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> From 80W to 200W, depending on number of Modular Light Sources connected <b>Single MLS</b> 1000W <b>SCM</b> 25W		
<b>Thermal Dissipation</b>	<b>Head</b> From 800 to 2500 BTU/Hr, depending on number of Modular Light Sources connected <b>Single MLS</b> 3412 BTU/hr <b>SCM</b> 85 BTU/hr		
<b>Fan Noise</b>	<b>Head</b> From 39 dBA to 43 dBA, depending on number of Modular Light Sources connected <b>Single MLS</b> <43 dBA <b>SCM</b> 30 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> 34.5 kg / 76 lbs <b>MLS:</b> 16.5 kg / 37 lbs <b>SCM:</b> 6.5 kg / 14 lbs		
<b>Dimensions</b>	<b>Head</b> H: 35.5 cm W: 45 cm L: 49.4 cm H: 14 in W: 17.7 in L: 19.5 in <b>Modular Light Source (MLS)</b> 19" 3U rack unit 50cm / 19.6" deep <b>Satellite Control Module (SCM)</b> 19" 3U rack unit 27cm / 10.6" deep		
<b>Systems</b>	Satellite TITAN 8,600 4K-UHD 60Hz with 10m Satellite Link Cable - 121-380 Satellite TITAN 17,000 4K-UHD 60Hz with 10m Satellite Link Cable - 121-381 Satellite TITAN 26,000 4K-UHD 60Hz with 10m Satellite Link Cable - 121-382		



TITAN 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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