

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:

Colour System:	RGB Laser																														
Display Type:	3 x 0.96" DarkChip™ DMD™																														
DMD Specification:	4K-UHD (3840x2160), WUXGA (1920x1200) Native. Fast Transit pixels for smooth greyscale.																														
Aspect Ratio:	16:9 (4K-UHD), 16:10 (WUXGA)																														
Video & Graphics processing	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.																														
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 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.																														
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 e.g. 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. Extensive lens shift encompassing all lens capabilities. High quality, sharp lenses with wide focal ranges.																														
Source Compatibility	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.																														
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 2.0a</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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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)		
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	Lens	Part No.	Lens Shift (Frame)
	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)
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 From 80W to 200W, depending on number of Modular Light Sources connected Single MLS 1000W SCM 25W		
Thermal Dissipation	Head From 800 to 2500 BTU/Hr, depending on number of Modular Light Sources connected Single MLS 3412 BTU/hr SCM 85 BTU/hr		
Fan Noise	Head From 39 dBA to 43 dBA, depending on number of Modular Light Sources connected Single 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: 34.5 kg / 76 lbs MLS: 16.5 kg / 37 lbs SCM: 6.5 kg / 14 lbs		
Dimensions	Head H: 35.5 cm W: 45 cm L: 49.4 cm H: 14 in W: 17.7 in L: 19.5 in Modular Light Source (MLS) 19" 3U rack unit 50cm / 19.6" deep Satellite Control Module (SCM) 19" 3U rack unit 27cm / 10.6" deep		
Systems	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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A Delta Associate Company

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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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