



## Satellite Titan 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 TITAN MLS WUXGA

10,000 to 30,000 Lumens | Contrast Ratio: 2,000:1

## Key Features:

### Satellite TITAN Head

Native WUXGA Resolution (1920 x 1200)  
Separate Head - compact, lightweight & low noise  
Sealed Optics  
Near Maintenance free

### Modular Light Source

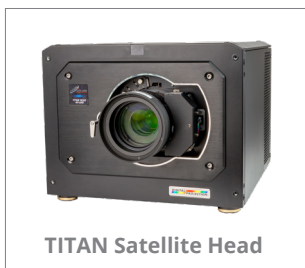
RGB Modular Light source  
Near BT2020 colour space  
Rack mountable · Fully Interlocked  
Interconnection - Satellite Link Cable available in various lengths  
Use a combination of 10K, 20K or 30K Modular Light Sources to achieve the desired brightness to a maximum of 30,000 Lumens or share one or more sources to multiple Heads



## Key Specifications:

<b>Colour System:</b>	3-chip DLP®																														
<b>Display Type:</b>	3 x 0.96" 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. 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 30K MLS) rack mounting <b>SCM Mounting</b> 19" 3U 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>	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 2.0a</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>	<table border="1"> <thead> <tr> <th>Lens</th> <th>Part No.</th> <th>Lens Shift (Frame)</th> </tr> </thead> <tbody> <tr> <td>0.37:1 (Right Angled)</td> <td>120-510</td> <td>Ver: 0.6 (U) 0.6 (D), Hor: 0.3 (L) 0.3 (R)</td> </tr> <tr> <td>0.65-0.85:1 (Right Angled)</td> <td>120-511</td> <td>Ver: 0.5 (U) 0.5 (D), Hor: 0.2 (L) 0.2 (R)</td> </tr> <tr> <td>0.8-1.16:1 (inc support bracket)</td> <td>120-827</td> <td>Ver: 0.4 (U) 0.4 (D), Hor: 0.19 (L) 0.19 (R)</td> </tr> <tr> <td>0.67:1 fixed HB</td> <td>105-607</td> <td>Ver: 0.108 (U) 0.108 (D), Hor: 0.044 (L) 0.044 (R)</td> </tr> <tr> <td>1.12:1 (short) fixed HB</td> <td>105-608</td> <td>Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)</td> </tr> <tr> <td>1.16 - 1.49:1 zoom HB</td> <td>109-236</td> <td>Ver: 0.408 (U) 0.408 (D), Hor: 0.188 (L) 0.188 (R)</td> </tr> <tr> <td>1.39 - 1.87:1 zoom HB</td> <td>105-610</td> <td>Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)</td> </tr> <tr> <td>1.87 - 2.56:1 zoom HB</td> <td>105-611</td> <td>Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)</td> </tr> <tr> <td>2.56 - 4.16:1 zoom HB</td> <td>105-612</td> <td>Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)</td> </tr> <tr> <td>4.16 - 6.96:1 zoom HB</td> <td>105-613</td> <td>Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)</td> </tr> <tr> <td>6.92 - 10.36:1 zoom HB</td> <td>109-235</td> <td>Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)</td> </tr> </tbody> </table> <p>* Lens focal ranges above are the optimised distances but are likely to focus further, please contact your RSM for more details. Lens ratio tolerances: Titan Series: +/-2%.</p>	Lens	Part No.	Lens Shift (Frame)	0.37:1 (Right Angled)	120-510	Ver: 0.6 (U) 0.6 (D), Hor: 0.3 (L) 0.3 (R)	0.65-0.85:1 (Right Angled)	120-511	Ver: 0.5 (U) 0.5 (D), Hor: 0.2 (L) 0.2 (R)	0.8-1.16:1 (inc support bracket)	120-827	Ver: 0.4 (U) 0.4 (D), Hor: 0.19 (L) 0.19 (R)	0.67:1 fixed HB	105-607	Ver: 0.108 (U) 0.108 (D), Hor: 0.044 (L) 0.044 (R)	1.12:1 (short) fixed HB	105-608	Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)	1.16 - 1.49:1 zoom HB	109-236	Ver: 0.408 (U) 0.408 (D), Hor: 0.188 (L) 0.188 (R)	1.39 - 1.87:1 zoom HB	105-610	Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)	1.87 - 2.56:1 zoom HB	105-611	Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)	2.56 - 4.16:1 zoom HB	105-612	Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)	4.16 - 6.96:1 zoom HB	105-613	Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)	6.92 - 10.36:1 zoom HB	109-235	Ver: 0.567 (U) 0.45 (D), Hor: 0.188 (L) 0.188 (R)
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<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>10K MLS</b> 1000W <b>20K MLS</b> 1633W <b>30K MLS</b> 2488W <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>10K MLS</b> 2500 BTU/hr, <b>20K MLS</b> 5572 BTU/hr, <b>30K MLS</b> 8489 BTU/hr, <b>SCM</b> 85 BTU/hr																																				
<b>Fan Noise</b>	<b>Head</b> From 32 dBA to 42 dBA, depending on number of Modular Light Sources connected <b>10K MLS</b> 45 dBA, <b>20K MLS</b> 54 dBA, <b>30K MLS</b> 58 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>10K MLS</b> 17Kg / 37 lbs <b>20K MLS</b> 28Kg / 62 lbs <b>30K MLS</b> 29Kg / 64 lbs <b>SCM:</b> 6.5 Kg / 14 lbs																																				
<b>Dimensions</b>	<b>Head</b> H: 35.5 cm / 14 in W: 45 cm / 17.7 in L: 49.4 cm / 19.5 in <b>Modular Light Source (MLS) 10K</b> 19" 3U rack unit 50cm / 19.6 in deep <b>Modular Light Source (MLS) 20K/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 Titan Head WU 120-889, MLS 10000 122-004, MLS 20000 123-445, MLS 30000 123-799, SCM 122-143, for full details on the Satellite Link Cable please contact your local sales representative.																																				



**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