

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 WUXGA

(Preliminary Specification)

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
 Combine up to 3 Modular Light Sources, or share one source to multiple Heads

Key Specifications:

| Colour System: | 3-chip DLP® | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|-------------------------|------------|-------------------------|--|--|-----------------|-------------|---|-------|------------|---|-----------|------|---|----------|------|---|---------|------|---|------------------|----------|---|--|--|--|---------|----------|---|
| Display Type: | 3 x 0.96" DarkChip™ DMD™ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DMD Specification: | 1920 x 1200 pixels native. Fast transit pixels for smooth greyscale and improved contrast. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aspect Ratio: | 16:10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fill Factor | 87% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 displayed within WUXGA. 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" 4U 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 | Graphics standards up to 3840 x 2160 at 60 fps via DisplayPort or HDMI and 1920 x 1200 at 120fps displayed in WUXGA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |
| Video & Computer | | | Communication & Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| HDMI 2.0a | HDMI | 1 | Ethernet | RJ45 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | 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), 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) |
| 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 32 dBA to 42 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 10,000 WUXGA 120Hz with 10m Satellite Link Cable - 121-376 Satellite TITAN 20,000 WUXGA 120Hz with 10m Satellite Link Cable - 121-377 Satellite TITAN 30,000 WUXGA 120Hz with 10m Satellite Link Cable - 121-378 | | |



TITAN Satellite Head



Modular Light Source (MLS)



Satellite Link Cable (SLC)



System Control Module (SCM)

DIGITAL PROJECTION, LTD GREENSIDE WAY,
MIDDLETON MANCHESTER, UK. M24 1XX
T: +44.161.947.3300 | F: +44.161.684.7674 |
www.digitalprojection.co.uk

DIGITAL PROJECTION, INC 55 CHASTAIN
ROAD, SUITE 115 KENNESAW, GA. 30144
T: 770.420.1350 } F: 770.420.1360 |
www.digitalprojection.com

DIGITAL PROJECTION, CHINA Rm
A2301,Shaoyaoju 101 North Lane,Shi Ao
International Center,Chaoyang District,Bei-
jing 100029,PR China. T: +86.10.58239771 |
F: +86 10 58239770



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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