DIGITAL PROJECTION
A brand of DELTA

SATELLITE
MODULAR LASER SYSTEM

Satellite Insight Modular Laser System 8K 60Hz

Specification

Satellite MLS is a (r)evolution in projection technology.

Totally configurable to overcome traditional installation challenges.

Simple building blocks for complex applications.

www.digitalprojection.com

The Visionaries' Choice

Satellite Insight MLS 8K 60Hz

8,500 to 36,000 Lumens | Contrast Ratio: 2,000:1

Key Features:

Satellite Insight Head

- 8K Resolution (7680 x 4320)
- Separate Head - compact, lightweight & low noise
- Sealed Optics
- Near Maintenance free
- 3D Capable

Modular Light Source

- RGB Modular Light source
- Near BT2020 colour space
- Rack mountable • Fully Interlocked
- Interconnection - Satellite Link Cable available in various lengths
- Use 10K, 20K or 30K Modular Light Sources to achieve the desired brightness to a maximum of 36,000 Lumens or share one source to multiple heads.

Key Specifications:

Colour System:	3-chip DLP®
Display Type:	3 x 1.38" DarkChip™ DMD™
DMD Specification:	4096 x 2160 pixels native. Fast transit pixels for smooth greyscale and improved contrast.
Aspect Ratio:	1.78:1 / 16:9
Fill Factor	87%
Video & Graphics processing	▪ Up to 60 fps 7680 x 4320 (8k) pixels sequential Quad-Pipe input via DisplayPort input. ▪ Up to 60 fps 3840 x 2160 (4k-UHD) pixels sequential input via single DisplayPort input. ▪ Up to 120 fps (2 x 60 fps) 3840 x 2160 (4k UHD) pixels Dual-Pipe input via DisplayPort. ▪ Dual Flash Processing capability, ▪ Dark Time insertion capability, ▪ Smear reduction for 2D displays, ▪ Synchronisation of active glasses or polarising switcher, ▪ Low latency processing.
Colour adjustments	▪ Up to 12 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 of parametric curves. ▪ 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 touch-panel control. ▪ Remote control - IR or cable. ▪ 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 (10K MLS) and 19" 4U (20K 30K MLS) 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 designed for 4K performance with wide focal ranges. ▫ See below in the Lenses Section for further detail
Source Compatibility	Graphics standards up to 3840 x 2160 at 60 fps via each DisplayPort. 60 fps via HDMI. Higher input frame rates supported at 2K resolution.
Inputs/Outputs	**Video & Computer** DisplayPort 1.2 — 4 HDMI — 2 **Communication & Control** 3D Sync in/out — BNC — 2 LAN — RJ45 — 1 Wired remote — 3.5mm Stereo Jack — 1
3D Formats Supported	▪ Dual Pipe & Frame Sequential. ▪ Frame Packed, Top-Bottom via HDMI ▪ Up to 4K-UHD 3840 x 2160

Document ref: 121-883E

Formats Supported	▪ 7680 x 4320p (8k) (24, 25, 30, 48, 50, 60 Hz via Quad Pipe). Frame repeat (x2) on 24, 25 and 30 Hz to display 48, 50 and 60 Hz 8k respectively. ▪ 3840 x 2160p (23.98, 24, 25, 29.97, 30, 48, 50, 59.94, 60 Hz) (Up to 120 Hz via Dual Pipe, or up to 240 Hz via 4 channels) ▪ 1080p (24, 25, 29.97, 30, 50, 59.94, 60 Hz) (Up to 120 Hz)
Computer Compatibility	▪ Up to 4096 x 2160 per DisplayPort Input ▪ Up to 7680 x 4320 in Quad Pipe, Four Input DisplayPort
Projector Head Control	IR & Wired remote control & On-Board touch Panel with OSD
Automation Control	LAN.
Colour Temperature	User selectable from 3300K to 10000K
illumination Type	RGB Laser Light Source
Typical illumination Life	30,000 Hours

Lenses

Lens	Part No.	Throw Ratio at 8K & 4K (UHD)	Lens Shift (Frame)
1.13 - 1.72:1	115-627	1.21 - 1.83:1	Vert: 0.40 (U) 0.20 (D), Hor: 0.08 (L) 0.14 (R)
1.65 - 2.60:1	115-630	1.76 - 2.77:1	Vert: 0.45 (U) 0.20 (D), Hor: 0.13 (L) 0.17 (R)
2.53 - 4.98:1	115-632	2.70 - 5.31:1	Vert: 0.42 (U) 0.20 (D), Hor: 0.13 (L) 0.17 (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: INSIGHT Series: +/-2%.

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** 250W, **10K MLS** 1000W, **20K MLS** 1633W, **30K MLS** 2488W, **SCM** 100W
Thermal Dissipation	**Head** with 10K Lumens 1200 BTU/Hr with 40K Lumens 2220 BTU/hr. **MLS 10K MLS** 2500 BTU/Hr, **20K MLS** 5572 BTU/Hr, **30K MLS** 8489 BTU/hr, **SCM** 85 BTU/hr
Fan Noise	**Head** <40 dBA, **MLS 10K** 45 dBA, **20K** 54 dBA, **30K** 58 dBA, **SCM** 30 dBA
Operating/Storage Temperature	Operating: 0 to 35C (32 to 95F) Storage: -10 to 50C (14 to 122F)
Operating Humidity	20 to 80% non-condensing
Weight	**Head:** 46 kg /101.5 lbs **MLS: 10K MLS** 17Kg / 37 lbs, **20K MLS** 28Kg / 61 lbs, **30K MLS** 29Kg / 63 lbs, **SCM:** 6.5 Kg / 14 lbs
Dimensions	**Head** H: 47 cm / 18.5 in W: 43 cm / 16.9 in L:45 cm / 17.7 in **Modular Light Source (MLS) 10K** 19" 3U rack unit 50cm / 19.6" deep **Modular Light Source (MLS) 20K/30K** 19" 4U rack unit 75cm / 29.5" deep **Satellite Control Module (SCM)** 3U rack unit 27cm / 10.6" deep
Part Numbers	**Satellite Insight Head 8K60** 120-887 **MLS 10000** 122-004 **MLS 20000** 123-445 **MLS 30000** 123-799 For full details on the Satellite Link Cable please contact your local sales representative.

INSIGHT Satellite Head

Modular Light Source (MLS)

Satellite Link Cable (SLC)

System Control Module (SCM)

DIGITAL PROJECTION, LTD Unit 3 Aniseed Park, Oldham Broadway Business Park, Oldham, UK, OL9 9XA T: +44.161.947.3300 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, Beijing 100029, PR China. T: +86.10.58239771 F: +86 10 58239770

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

Document ref: 121-883E

Specifications subject to change without notice.

©2024 Digital Projection. DLP®, Digital Light Processing™ and DMD are trademarks of Texas Instruments, Inc