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DIGITAL PROJECTION
A Delta Associate Company

Specification Sheet

Titan Laser 26000 4K-UHD

25,000 ISO / 22,500 ANSI @ 4K-UHD. 28,000 ISO / 25,000 ANSI @ WUXGA Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part Number: 119-838

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Colour System:	DMD Specification:
Laser Phosphor	Display capability upto 4K-UHD 8.3 megapixels pixels on screen at 4K-UHD Fast transit pixels for smooth greyscale and improved contrast. Display resolutions 4K-UHD (3840 x 2160) **Aspect Ratio:** 16x9 **Fill Factor** N/A as Smooth Picture DMD
Display Type: 3 x 0.96" WUXGA DMD™	

Key Features

Video & Graphics Processing

- DisplayPort 1.2
- 2 x HDMI 2.0b HDCP 2.2
- HDR processing
- 2 x HDMI 1.4b HDCP 1.4 for Dual Pipe processing and Frame Sequential 3D Format.
- Sequential Processing: 3D via single HDMI 1.4b input
- Dual Pipe Processing: 3D Left and Right eyes via two HDMI1.4b inputs.
- Syncronisation of active glasses.
- 3G-SDI with loop-through.
- DICOM simulation mode.
- DMX Art-Net

General Features

- Constant Brightness control
- Multi-Projector Brightness control
- Compatible with selected competitor lenses via lens converter
- Selectable EDID
- Custom Start-up Logo

Geometry Correction

- 4-Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, Arc and Image Rotation
- Non-linear warp
- Digital Zoom, Pan and Scan
- Blanking control for custom input window sizing.
- Scaling available for fixed aspect ratio screens.
- Unscaled processing for pixel mapped display

Edge Blending

- Blending control available for all sides with width control.
- Correction for non-active pixels at the edge of the display.
- Electronic Black Level Compensation.

Picture in Picture

- Two sources can be displayed symultaneously using 2D inputs. either picture in picture (PIP) , or side by side (PBP), with the original aspect ratios maintained.

HDBaseT® Interface

- Built in support for reception of uncompressed High Definition Video over standard CAT5e/6 LAN cable
- Allows projector to be placed up to 100m from source with low cost cabling
- Supports up to 4K UHD 3840 x 2160@60Hz 4:2:0 or 4K UHD 3840 x 2160@30Hz 4:2:2

Colour Processing

- Four colour modes available
- Powerful seven point colour correction for accurate colour matching with presets.
- Easy colour temperature selection
- Manual seven point colour adjustment

- Traditional lifts and gains

Projector Controller Software

- Intuitive user interface for network control
- Simultaneous control of user-defined groups of projectors
- At-a-glance monitoring of projector status

Projector Automation

- Real-time clock provides daily on/off automation
- E-mail alerts for system status

Source Compatibility:

2D Graphics standards up to 4K-UHD 3840x2160 resolution at 60Hz via HDMI 2.0, HDBaseT (4:2:0), DisplayPort inputs
3D Graphics standards up to dual-pipe WUXGA 120Hz via HDMI 1.4b inputs
3G-SDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.

WUXGA mode
2D sources up to WUXGA 120Hz and 4K-UHD 60Hz can be displayed scaled to fit WUXGA
3D sources up to WUXGA 120Hz can be displayed scaled to fit WUXGA

4K-UHD mode
2D sources up to 4K-UHD will be displayed scaled to fit 4K-UHD

Auto Mode
Sources greater than WUXGA will be displayed scaled to fit 4K-UHD
Sources up to WUXGA will be displayed scaled to fit WUXGA

Inputs/Outputs

Video & Computer

Type	Connector	Qty
DisplayPort 1.2 (2D)	DisplayPort	1
HDMI 1.4b (3D)	HDMI	2
HDMI 2.0b (2D)	HDMI	2
3G-SDI in (2D)	BNC	1
3G-SDI out	BNC	1
HDBaseT/LAN (2D)	RJ45	1

Communication & Control

Type	Connector	Qty
3D Sync In	BNC	1
3D Sync Out	BNC	1
LAN	RJ45	2
RS-232	9-pin D-Sub	1
Wired Remote	3.5mm Stereo Jack	1
12V Trigger	3.5mm Stereo Jack	2
3D Sync IR Out	BNC	1

3D Formats Supported

Sequential / 1080p @100Hz
Sequential / 1080p @120Hz
Sequential / WUXGA @100Hz (RB)
Dual-Pipe / 1080p @ 50Hz
Dual-Pipe / 1080p @ 60Hz
Dual-Pipe / WUXGA @ 50Hz (RB)
Dual-Pipe / WUXGA @ 60Hz

HDTV Formats Supported

1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)
1080i (50Hz, 60Hz)
720p (50Hz, 60Hz)
2K (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)
4K-UHD (24Hz, 25Hz, 30Hz, 50Hz, 60Hz)

Computer Compatibility

2D 4K-UHD upto 60Hz
3D Supported Formats will be displayed within WUXGA

Bandwidth

498 Mpixels/sec via DisplayPort and HDMI2.0.

Remote Control

Addressable IR remote Control, Wireless and wired. On-Board keypad

Automation Control

Crestron RoomView Connected
LAN
RS-232
AMX (Device Discovery)
DMX Art-Net

Served web pages (Projector status, Projector control, Crestron RoomView, Network settings, Alert mail setup, Time setup, Error log, On screen Display)

Colour Temperature	Operation
3200K to 9300K	

illumination Type	Typical illumination Life
Laser Light Source	20,000 hours

Lenses

Lens	Part No.	Optimised Focus Range*	Lens Shift
0.37:1 (Right Angled)	120-510	1.6m - 4.9m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.3 (L) 0.3 (R) frame
0.65-0.85:1 (Right Angled)	120-511	2.8m - 8.4m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.2 (L) 0.2 (R) frame
0.8-1.16:1 (Includes support bracket)	120-827	1.7m - 11m	Vert: 0.4 (U) 0.4 (D) frame, Hor: 0.19 (L) 0.19 (R) frame
1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.44 (U) 0.44 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame

* Lens focal ranges above are the optimised distances but are likely to focus further, please contact your RSM for more details. Lens ratio tolerances: E-Vision Series: +/-3%. HighLite Series: +/- 5%. M-Vision Series: +/- 2%. Titan Series: +/-2%, INSIGHT Series: +/-2%,

Lens Mount

Motorised Shift, Zoom and Focus. Intelligent Lens Memory with 10 user-definable pre-set positions for zoom lenses.

Mechanical Mounting	Orientation
Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet	**Table Top or Inverted:** Yes **Pointing Up:** Yes **Pointing Down:** Yes **Roll (Portrait):** Yes
Power Requirements	**Power Consumption**
200VAC to 230VAC, 50/60Hz single phase	Typical: 2800 W , Maximum 3100
Thermal Dissipation	**Fan Noise**
Max 10284 BTU/Hour @ 230VAC	Typical: 50dBa, Max 52dBa, Eco Typical: 47dBa
Operating/Storage Temperature	**Operating Humidity**
Operating: Full Power 0°C ~ 35°C (32°F ~95°F), ECO upto 40°C (104°F) Storage: -20°C ~ 60°C (-4°F ~ 140°F)	Operating: 10% ~ 90% non-condensing Storage: 10% ~ 90% non-condensing
Weight (Chassis Only)	**Dimensions**
95 kg 209 lb	L: 969.3mm, W: 650mm, H: 397.3mm (Excl handles) L: 38.2in, W: 25.6in, H: 15.6in (Excl handles)
Safety & EMC Regulations	
UL, CB, CCC, KC, RoHS (CN), FCC Class A, FDA, CE, IEC EN 60825-1 Class 3R Laser Product, IEC EN 62471-5 Risk Group 3, WEEE (UK)	

Accessories

Accessory	Part No.
Infrared Remote Control (Replacement)	118-678
Optional lens mount insert for selected competitor lenses	119-729

**Dimensions included for reference only and are subject to change. Please download the full set of CAD files for this display for more accurate information.*

Downloads

PDF CAD Drawings

AUTOCAD Drawings

User Guides

User Guides (German)

STEP / IGS Drawings

Rigging Frame CAD Drawings Rigging Frame CAD Drawings

Lens CAD Drawings

User Guides (French)

Laser Risk Group Document

Important Information

Control Protocol

Certificate Number 13629
ISO 9001

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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,Beijing 100029,PR China
T: +86.10.58239771 | F: +86 10 58239770