

## Titan Laser 29000 WU

29,000 ISO / 26,000 ANSI Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part No:119-839

### TITAN LASER SERIES DIGITAL PROJECTORS



THE VISIONARIES CHOICE

<b>Colour System:</b>	<b>DMD Specification:</b>
Laser Phosphor	Display capability upto WUXGA 2.3 megapixels pixels on screen at WUXGA Fast transit pixels for smooth greyscale and improved contrast. Display resolutions WUXGA (1920 x 1200)
<b>Display Type:</b>	<b>Aspect Ratio:</b>
3 x 0.96" WUXGA DMD	16:10
	<b>Fill Factor</b>
	87%

### 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 HDMI 1.4b inputs.
- Synchronisation 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 simultaneously 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.

## **Inputs/Outputs**

<b>Video &amp; Computer</b>			<b>Communication &amp; Control</b>		
Type	Connector	Qty	Type	Connector	Qty
DisplayPort 1.2 (2D)	DisplayPort	1	3D Sync In	BNC	1
HDMI 1.4b (3D)	HDMI	2	3D Sync Out	BNC	1
HDMI 2.0b (2D)	HDMI	2	LAN	RJ45	2
3G-SDI in (2D)	BNC	1	RS-232	9-pin D-Sub	1
3G-SDI out	BNC	1	Wired Remote	3.5mm Stereo Jack	1
HDBaseT/LAN (2D)	RJ45	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 upto 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**

3200K to 9300K

#### **Lamp Type**

Laser Light Source

#### **Typical Lamp Life**

20,000 hours

#### **Lenses**

Lens	Part No.	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
0.67:1 fixed HB	105-607	1.1m - 10m	Vert: 0.108 (U) 0.108 (D) frame, Hor: 0.044 (L) 0.044 (R) frame
1.12:1 fixed HB	105-608	3m - 15m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.408 (U) 0.408 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.567 (U) 0.45 (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.(Lenses 0.67:1 & 1.12:1 have manual focus, shift is motorised)  
Intelligent Lens Memory with 10 user-definable pre-set positions for zoom lenses.

### Mechanical Mounting

Front/Rear Table  
Front/Rear Ceiling  
Adjustable Front/Rear Feet

### Orientation

**Table Top or Inverted:** Yes  
**Pointing Up:** Yes  
**Pointing Down:** Yes  
**Roll (Portrait):** Yes

### Power Requirements

200VAC & 230 VAC, 50/60Hz single phase

### Power Consumption

Typical 2800W, Max 3100WW

### Thermal Dissipation

Max 10284 BTU/Hour @ 200VAC BTU/Hour

### Fan Noise

Typical: 50dBa , Maximum 52dBa, Eco Typical 47dBa

### Operating/Storage Temperature

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 Humidity

Operating: 10% ~ 90% non-condensing  
Storage: 10% ~ 90% non-condensing

### Weight (Chassis Only)

95 kg  
209 lb

### Dimensions

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-

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<http://www.digitalprojection.co.uk/digital-products/>.jpg

5 Risk Group 3, WEEE (UK)

\*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](#)

[User Guides](#)

[AUTOCAD Drawings](#)

[Important Information](#)

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