Titan Laser 29000 WU

29,000 ISO / 26,000 ANSI Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part No:119-837

TITAN LASER SERIES
DIGITAL PROJECTORS

THE VISIONARIES CHOICE

Colour System: Laser Phosphor
DMD Specification: Display capability up to WUXGA
2.3 megapixels pixels on screen at WUXGA

Display Type: 3 x 0.96" WUXGA DMD™
Display resolutions WUXGA (1920 x 1200)
Aspect Ratio: 16x10
Fill Factor 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 HDMI1.4b 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Connector</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>DisplayPort 1.2 (2D)</td>
<td>DisplayPort</td>
<td>1</td>
</tr>
<tr>
<td>HDMI 1.4b (3D)</td>
<td>HDMI</td>
<td>2</td>
</tr>
<tr>
<td>HDMI 2.0b (2D)</td>
<td>HDMI</td>
<td>2</td>
</tr>
<tr>
<td>3G-SDI in (2D)</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>3G-SDI out</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>HDBaseT/LAN (2D)</td>
<td>RJ45</td>
<td>1</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Type</th>
<th>Connector</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>3D Sync In</td>
<td>BNC</td>
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</tr>
<tr>
<td>3D Sync Out</td>
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<td>1</td>
</tr>
<tr>
<td>LAN</td>
<td>RJ45</td>
<td>2</td>
</tr>
<tr>
<td>RS-232</td>
<td>9-pin D-Sub</td>
<td>1</td>
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<tr>
<td>Wired Remote</td>
<td>3.5mm Stereo Jack</td>
<td>1</td>
</tr>
<tr>
<td>12V Trigger</td>
<td>3.5mm Stereo Jack</td>
<td>2</td>
</tr>
<tr>
<td>3D Sync IR Out</td>
<td>BNC</td>
<td>1</td>
</tr>
</tbody>
</table>
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

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

Bandwidth
498 Mpixels/sec via DisplayPort and HDMI2.0.

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

Lenses
Lens Part No. Optimised Focus 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 - 1.6:1 (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%.

Lenses
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.

Power Requirements
200VAC to 230 VAC, 50/60Hz single phase
Typical 2800W, Max 3100WW

Thermal Dissipation
Max 10284 BTU/Hour @ 200VAC BTU/Hour
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: 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 62471-5 Risk Group 3, WEEE (UK)

Accessories

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<th>Accessory</th>
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<td>Infrared Remote Control (Replacement)</td>
<td>118-678</td>
</tr>
<tr>
<td>Optional lens mount insert for selected competitor lenses</td>
<td>119-729</td>
</tr>
</tbody>
</table>

*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
- User Guides French
- Important Information

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