Titan Laser 37000 WU

37,000 ISO / 33,000 ANSI Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part No:119-704

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™
Fast transit pixels for smooth greyscale and improved contrast.
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>Video &amp; Computer</th>
<th>Connector</th>
<th>Qty</th>
<th>Communication &amp; Control</th>
<th>Connector</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td></td>
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<td><strong>Type</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DisplayPort 1.2 (2D)</td>
<td>DisplayPort</td>
<td>1</td>
<td>3D Sync In</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>HDMI 1.4b (3D)</td>
<td>HDMI</td>
<td>2</td>
<td>3D Sync Out</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>HDMI 2.0b (2D)</td>
<td>HDMI</td>
<td>2</td>
<td>LAN</td>
<td>RJ45</td>
<td>2</td>
</tr>
<tr>
<td>3G-SDI in (2D)</td>
<td>BNC</td>
<td>1</td>
<td>RS-232</td>
<td>9-pin D-Sub</td>
<td>1</td>
</tr>
<tr>
<td>3G-SDI out</td>
<td>BNC</td>
<td>1</td>
<td>Wired Remote</td>
<td>3.5mm Stereo Jack</td>
<td>1</td>
</tr>
<tr>
<td>HDBaseT/LAN (2D)</td>
<td>RJ45</td>
<td>1</td>
<td>12V Trigger</td>
<td>3.5mm Stereo Jack</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<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
- 498 Mpixels/sec via DisplayPort and HDMI2.0.

### Bandwidth

### 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
- 20,000 hours

### Lenses

<table>
<thead>
<tr>
<th>Lens</th>
<th>Part No.</th>
<th>Optimised Focus</th>
<th>Lens Shift</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.37:1 (Right Angled)</td>
<td>120-510</td>
<td>1.6m - 4.9m</td>
<td>Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.3 (L) 0.3 (R) frame</td>
</tr>
<tr>
<td>0.65 - 0.85:1 (Right Angled)</td>
<td>120-511</td>
<td>2.8m - 8.4m</td>
<td>Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.2 (L) 0.2 (R) frame</td>
</tr>
<tr>
<td>0.8:1 - 1:6:1 (Includes support bracket)</td>
<td>120-827</td>
<td>1.7m - 11m</td>
<td>Vert: 0.4 (U) 0.4 (D) frame, Hor: 0.19 (L) 0.19 (R) frame</td>
</tr>
<tr>
<td>0.67:1 fixed HB</td>
<td>105-607</td>
<td>1.1m - 10m</td>
<td>Vert: 0.108 (U) 0.108 (D) frame, Hor: 0.044 (L) 0.044 (R) frame</td>
</tr>
<tr>
<td>1.12:1 fixed HB</td>
<td>105-608</td>
<td>3m - 15m</td>
<td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame</td>
</tr>
<tr>
<td>1.16 - 1:49:1 zoom HB</td>
<td>109-236</td>
<td>3m - 15m</td>
<td>Vert: 0.408 (U) 0.408 (D) frame, Hor: 0.188 (L) 0.188 (R) frame</td>
</tr>
<tr>
<td>1.39 - 1:87:1 zoom HB</td>
<td>105-610</td>
<td>4m - 24m</td>
<td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame</td>
</tr>
<tr>
<td>1.87 - 2:56:1 zoom HB</td>
<td>105-611</td>
<td>4m - 24m</td>
<td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame</td>
</tr>
<tr>
<td>2.56 - 4:16:1 zoom HB</td>
<td>105-612</td>
<td>9.1m - 45m</td>
<td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame</td>
</tr>
<tr>
<td>4.16 - 6:96:1 zoom HB</td>
<td>105-613</td>
<td>12m - 80m</td>
<td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame</td>
</tr>
<tr>
<td>6.92 - 10:36:1 zoom HB</td>
<td>109-235</td>
<td>12m - 80m</td>
<td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Front/Rear Table</th>
<th>Front/Rear Ceiling</th>
<th>Adjustable Front/Rear Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table Top or Inverted: Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pointing Up: Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pointing Down: Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Roll (Portrait): Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

### Power Requirements
- 200VAC to 230VAC, 50/60Hz single phase

### Power Consumption
- Typical: 3100W , Maximum 3400 W

### Thermal Dissipation
- Max 11430 BTU/ Hour @ 200VAC BTU/ Hour

### 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-
5 Risk Group 3, WEEE (UK)

Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
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</tr>
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<tbody>
<tr>
<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

<table>
<thead>
<tr>
<th>Downloads</th>
<th>User Guides</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDF CAD Drawings</td>
<td>User Guides</td>
</tr>
<tr>
<td>AUTOCAD Drawings</td>
<td>User Guides</td>
</tr>
<tr>
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<td></td>
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<tr>
<td>User Guides French</td>
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Certificate Number 13629
ISO 9001

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