Titan Laser 33000 4K-UHD

31,000 ISO / 27,500 ANSI @ 4K-UHD, 34,000 ISO / 30,500 @ WUXGA Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part No: 119-705

**TITAN LASER SERIES**
**DIGITAL PROJECTORS**

**THE VISIONARIES CHOICE**

**Colour System:**
- Laser Phosphor

**DMD Specification:**
- Display capability upto 4K-UHD
- 8.3 megapixels pixels on screen at 4K-UHD

**Display Type:**
- 3 x 0.96" WUXGA DMD™

- 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

**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.
- Synchronization 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.

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

<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>

### Communication & Control

<table>
<thead>
<tr>
<th>Type</th>
<th>Connector</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D Sync In</td>
<td>BNC</td>
<td>1</td>
</tr>
<tr>
<td>3D Sync Out</td>
<td>BNC</td>
<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>
</tr>
<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)
- 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
- 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)

### Automation Control

- INSIGHT Series: +/-2%

### Colour Temperature

- 3200K to 9300K

### Lamp Type

- Laser Light Source
- Typical Lamp Life: 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>0.8-1.16:1 (inc 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>1.16 - 1.49:1 zoom HB</td>
<td>109-236</td>
<td>3m - 15m</td>
<td>Vert: 0.44 (U) 0.44 (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: 0.629 (U) 0.5 (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: 0.629 (U) 0.5 (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: 0.629 (U) 0.5 (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: 0.629 (U) 0.5 (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: 0.629 (U) 0.5 (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. 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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pointing Down: Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roll (Portrait): Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Power Requirements

| Power Consumption | |
|-------------------| |
## Specifications

**200VAC to 230VAC selectable, 50/60Hz single phase**

<table>
<thead>
<tr>
<th>Thermal Dissipation</th>
<th>Fan Noise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max 11430 BTU/Hour @ 200VAC BTU/Hour</td>
<td>Max 52dBA Eco Typ: 47dBA</td>
</tr>
</tbody>
</table>

### Operating/Storage Temperature

<table>
<thead>
<tr>
<th>Operating/Storage Temperature</th>
<th>Operating Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>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)</td>
<td>Operating: 10% ~ 90% non-condensing Storage: 10% ~ 90% non-condensing</td>
</tr>
</tbody>
</table>

### 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, BIS, 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>
<th>Part No.</th>
</tr>
</thead>
<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

- **PDF CAD Drawings**
- **User Guides**
- **AUTOCAD Drawings**
- **User Guides German**
- **User Guides French**
- **Important Information**

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**Certificate Number 13629**

ISO 9001


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