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:119-726

TITAN LASER SERIES
DIGITAL PROJECTORS

THE VISIONARIES CHOICE

**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)

**Display Type:** Aspect Ratio:
- 3 x 0.96" WUXGA DMD
- 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

<table>
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<tr>
<th>Video &amp; Computer</th>
<th>Communication &amp; Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Connector</td>
</tr>
<tr>
<td>DisplayPort 1.2 (2D)</td>
<td>DisplayPort</td>
</tr>
<tr>
<td>HDMI 1.4b (3D)</td>
<td>HDMI</td>
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<tr>
<td>HDMI 2.0b (2D)</td>
<td>HDMI</td>
</tr>
<tr>
<td>3G-SDI in (2D)</td>
<td>BNC</td>
</tr>
<tr>
<td>3G-SDI out</td>
<td>BNC</td>
</tr>
<tr>
<td>HDBaseT/LAN (2D)</td>
<td>RJ45</td>
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</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

**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
<table>
<thead>
<tr>
<th>Lens</th>
<th>Part No.</th>
<th>Focus Range</th>
<th>Lens Shift</th>
</tr>
</thead>
<tbody>
<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>
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</table>

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

Power Requirements
200VAC & 230VAC selectable, 50/60Hz single phase
230V Typical: 3100W , Maximum 3400 W

Thermal Dissipation
Max 11430 BTU/Hour @ 200VAC BTU/Hour
Max 52dBA Eco Typ: 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)

*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