Titan Laser 26000 4K-UHD

25,000 ISO / 22,500 ANSI @ 4K-UHD. 28,000 ISO / 25,000 ANSI @ WUXGA Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part No: 119-838

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

**THE VISIONARIES CHOICE**

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**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

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**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

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**General Features**

- Constant Brightness control
- Multi-Projector Brightness control
- Compatible with selected competitor lenses via lens converter
- Selectable EDID
- Custom Start-up Logo

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**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)
- 1080i (50Hz, 60Hz)
- 720p (24Hz, 25Hz, 30Hz, 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 within 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 )

#### 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>1.57 - 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>
<th>Roll (Portrait)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table Top or Inverted: Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Power Requirements

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

**Thermal Dissipation**
Max 10284 BTU/Hour @ 230VAC BTU/Hour

**Typical:** 2800 W, **Maximum:** 3100 W

**Fan Noise**
Typical: 50dBa, Max 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)

**Typical:** 50dBa, **Max:** 52dBa, Eco **Typical:** 47dBa

**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>
<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

AUTOCAD Drawings

User Guides

User Guides German

User Guides French

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