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## TITAN LASER SERIES DIGITAL PROJECTORS

THE VISIONARIES CHOICE



# Titan Laser 33000 4K-UHD

**31,000 ISO / 27,500 ANSI @ 4K-UHD. 34,000 ISO / 30,500 ANSI @ WUXGA Lumens | Contrast Ratio:  
18,000:1 (Dynamic Black) / 2,000:1 Native | Part Number: 119-705**

### Key Specifications:

<b>Colour System:</b>	Laser Phosphor
<b>Display Type:</b>	3 x 0.96" WUXGA DMD™
<b>DMD Specification:</b>	Display capability up to 4K-UHD 8.3 megapixels on screen at 4K-UHD Fast transit pixels for smooth greyscale and improved contrast. Display capability up to 4K-UHD (3840x2160)
<b>Aspect Ratio:</b>	16:9
<b>Fill Factor</b>	N/A as Smooth Picture DMD
<b>Key Features:</b>	<b>Video &amp; Graphics Processing</b> <ul style="list-style-type: none"><li>• DisplayPort 1.2</li><li>• 2 x HDMI 2.0b HDCP 2.2</li><li>• HDR processing</li><li>• 2 x HDMI 1.4b HDCP 1.4 for Dual Pipe processing and Frame Sequential 3D Format.</li><li>• Sequential Processing: 3D via single HDMI 1.4b input</li><li>• Dual Pipe Processing: 3D Left and Right eyes via two HDMI1.4b inputs.</li><li>• Synchronisation of active glasses.</li><li>• 3G-SDI with loop-through.</li><li>• DICOM simulation mode.</li><li>• DMX Art-Net</li></ul>

## 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		
Type	Connector	Qty
DisplayPort 1.2 (2D)	DisplayPort	1
HDMI 1.4b (3D)	HDMI	2
HDMI 2.0b (2D)	HDMI	2
3G-SDI in (2D)	BNC	1
3G-SDI out	BNC	1
HDBaseT/LAN (2D)	RJ45	1

Communication & Control		
Type	Connector	Qty
3D Sync In	BNC	1
3D Sync Out	BNC	1
LAN	RJ45	2
RS-232	9-pin D-Sub	1
Wired Remote	3.5mm Stereo Jack	1
12V Trigger	3.5mm Stereo Jack	2
3D Sync IR Out	BNC	1

**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 )

<b>Colour Temperature</b>	3200K to 9300K																																								
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<b>illumination Type</b>	Laser Light Source																																								
<b>Typical illumination Life</b>	20,000 hours																																								
<b>Lenses</b>	<table border="1"> <thead> <tr> <th>Lens</th> <th>Part No.</th> <th>Optimised Focus Range*</th> <th>Lens Shift (Frame)</th> </tr> </thead> <tbody> <tr> <td>0.37:1 (Right Angled)</td> <td>120-510</td> <td>1.6m - 4.9m</td> <td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.31 (L) 0.31 (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: 0.62 (U) 0.62 (D) frame, Hor: 0.25 (L) 0.25 (R) frame</td> </tr> <tr> <td>0.8-1.16:1 (Includes support bracket)</td> <td>120-827</td> <td>1.7m - 11m</td> <td>Vert: 0.51 (U) 0.51 (D) frame, Hor: 0.20 (L) 0.20 (R) frame</td> </tr> <tr> <td>1.16 - 1.49:1 zoom HB</td> <td>109-236</td> <td>3m - 15m</td> <td>Vert: 0.50 (U) 0.408 (D) frame, Hor: 0.2 (L) 0.2 (R) frame</td> </tr> <tr> <td>1.39 - 1.87:1 zoom HB</td> <td>105-610</td> <td>4m - 24m</td> <td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td> </tr> <tr> <td>1.87 - 2.56:1 zoom HB</td> <td>105-611</td> <td>4m - 24m</td> <td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (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: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td> </tr> <tr> <td>4.16 - 6.96:1 zoom HB</td> <td>105-613</td> <td>12m - 80m</td> <td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td> </tr> <tr> <td>6.92 - 10.36:1 zoom HB</td> <td>109-235</td> <td>12m - 80m</td> <td>Vert: 0.65 (U) 0.45 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td> </tr> </tbody> </table> <p>* 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%,</p>	Lens	Part No.	Optimised Focus Range*	Lens Shift (Frame)	0.37:1 (Right Angled)	120-510	1.6m - 4.9m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.31 (L) 0.31 (R) frame	0.65-0.85:1 (Right Angled)	120-511	2.8m - 8.4m	Vert: 0.62 (U) 0.62 (D) frame, Hor: 0.25 (L) 0.25 (R) frame	0.8-1.16:1 (Includes support bracket)	120-827	1.7m - 11m	Vert: 0.51 (U) 0.51 (D) frame, Hor: 0.20 (L) 0.20 (R) frame	1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.50 (U) 0.408 (D) frame, Hor: 0.2 (L) 0.2 (R) frame	1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame	1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame	2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame	4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame	6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.65 (U) 0.45 (D) frame, Hor: 0.28 (L) 0.28 (R) frame
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<b>Lens Mount</b>	Motorised Shift, Zoom and Focus. Intelligent Lens Memory with 10 user-definable pre-set positions for zoom lenses.																																								
<b>Mechanical Mounting</b>	Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet																																								
<b>Orientation</b>	<b>Table Top or Inverted:</b> Yes <b>Pointing Up:</b> Yes <b>Pointing Down:</b> Yes <b>Roll (Portrait):</b> Yes																																								

<b>Power Requirements</b>	200VAC to 230VAC selectable, 50/60Hz single phase							
<b>Power Consumption</b>	230V Typical: 3100W , Maximum 3400							
<b>Thermal Dissipation</b>	Max 11430 BTU/Hour @ 200VAC							
<b>Fan Noise</b>	Max 52dBA Eco Typ: 47dBA							
<b>Operating/Storage Temperature:</b>	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)							
<b>Operating Humidity</b>	Operating: 10% ~ 90% non-condensing Storage: 10% ~ 90% non-condensing							
<b>Weight</b>	95 kg / 209 lbs							
<b>Dimensions</b>	L: 969.3mm, W: 650mm, H: 397.3mm (Excl handles) L: 38.2in, W: 25.6in, H: 15.6in (Excl handles)							
<b>Safety &amp; EMC Regulations</b>	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)							
<b>Accessories</b>	<table border="1"> <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 third party lenses (Contact local sales representative for further information)</td> <td>119-729</td> </tr> </tbody> </table> <p><i>*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.</i></p>		Accessory	Part No.	Infrared Remote Control (Replacement)	118-678	Optional lens mount insert for selected third party lenses (Contact local sales representative for further information)	119-729
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<b>Downloads</b>	<a href="#">PDF CAD Drawings</a> <a href="#">AUTOCAD Drawings</a> <a href="#">STEP / IGS Drawings</a> <a href="#">Rigging Frame CAD Drawings</a> <a href="#">Rigging Frame CAD Drawings</a> <a href="#">Lens CAD Drawings</a>							
<b>User Guide</b>	<a href="#">User Guides</a> <a href="#">User Guides (German)</a> <a href="#">User Guides (French)</a> <a href="#">Laser Risk Group Document</a> <a href="#">Important Information</a> <a href="#">Control Protocol</a>							



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