

## 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 Number: 119-705

## 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

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

### Display Type:

3 x 0.96" WUXGA 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.
- 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.

### 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 )

### Colour Temperature

3200K to 9300K

### Operation



### Illumination Type

Laser Light Source

### Typical illumination Life

20,000 hours

### Lenses

#### Lens

#### Part No. Optimised Focus Range\* Lens Shift

0.37:1 (Right Angled)	120-510	1.6m - 4.9m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.3 (L) 0.3 (R) frame
0.65-0.85:1 (Right Angled)	120-511	2.8m - 8.4m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.2 (L) 0.2 (R) frame
0.8-1.16:1 (Includes support bracket)	120-827	1.7m - 11m	Vert: 0.4 (U) 0.4 (D) frame, Hor: 0.19 (L) 0.19 (R) frame
1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.44 (U) 0.44 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame

\* 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

Front/Rear Table  
Front/Rear Ceiling  
Adjustable Front/Rear Feet

### Orientation

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

### Power Requirements

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

### Power Consumption

230V Typical: 3100W , Maximum 3400

### Thermal Dissipation

Max 11430 BTU/Hour @ 200VAC

### Fan Noise

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 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, 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

#### Accessory

Infrared Remote Control (Replacement)  
Optional lens mount insert for selected competitor lenses

#### Part No.

118-678  
119-729

\*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 \(German\)](#)

[STEP / IGS Drawings](#)

[User Guides \(French\)](#)

[Rigging Frame CAD Drawings Rigging Frame CAD Drawings](#)

[Laser Risk Group Document](#)

[Lens CAD Drawings](#)

[Important Information](#)

[Control Protocol](#)



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ISO 9001

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