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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

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

Colour System:

Laser Phosphor

Display Type:

3 x 0.96" WUXGA DMD™

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

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 HDMI 1.4b 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

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

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

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

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)

Bandwidth

498 Mpixels/sec via DisplayPort and HDMI2.0.

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

Illumination Type

Laser Light Source

Lenses

Lens

Lens	Part No.	Optimised Focus Range*
0.37:1 (Right Angled)	120-510	1.6m - 4.9m
0.65-0.85:1 (Right Angled)	120-511	2.8m - 8.4m
0.8-1.16:1 (Includes support bracket)	120-827	1.7m - 11m
1.16 - 1.49:1 zoom HB	109-236	3m - 15m
1.39 - 1.87:1 zoom HB	105-610	4m - 24m
1.87 - 2.56:1 zoom HB	105-611	4m - 24m
2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m
4.16 - 6.96:1 zoom HB	105-613	12m - 80m
6.92 - 10.36:1 zoom HB	109-235	12m - 80m

Operation



Typical illumination Life

20,000 hours

Part No.	Optimised Focus Range*	Lens Shift
120-510	1.6m - 4.9m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.3 (L) 0.3 (R) frame
120-511	2.8m - 8.4m	Vert: 0.5 (U) 0.5 (D) frame, Hor: 0.2 (L) 0.2 (R) frame
120-827	1.7m - 11m	Vert: 0.4 (U) 0.4 (D) frame, Hor: 0.19 (L) 0.19 (R) frame
109-236	3m - 15m	Vert: 0.44 (U) 0.44 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
105-610	4m - 24m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
105-611	4m - 24m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
105-612	9.1m - 45m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
105-613	12m - 80m	Vert: 0.629 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
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](#)

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