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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:

Colour System:	Laser Phosphor
Display Type:	3 x 0.96" WUXGA DMD™

DMD Specification:	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)
Aspect Ratio:	16:9
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
	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	<table> <tr> <th>Lens</th><th>Part No.</th><th>Optimised Focus Range*</th><th>Lens Shift (Frame)</th></tr> <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> </table>			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
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	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
	* 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	95 kg / 209 lbs	
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	Part No.
	Infrared Remote Control (Replacement) Optional lens mount insert for selected third party lenses (Contact local sales representative for further information)	118-678 119-729
	<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>	
Downloads	PDF CAD Drawings AUTOCAD Drawings STEP / IGS Drawings Rigging Frame CAD Drawings Rigging Frame CAD Drawings Lens CAD Drawings	
User Guide	User Guides User Guides (German) User Guides (French) Laser Risk Group Document Important Information Control Protocol	

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