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TITAN LASER SERIES DIGITAL PROJECTORS

THE VISIONARIES CHOICE



Titan Laser 29000 WU

29,000 ISO / 26,000 ANSI Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part Number: 122-212

Key Specifications:

Colour System:	Laser Phosphor
Display Type:	3 x 0.96" WUXGA DMD™
DMD Specification:	Display capability upto WUXGA 2.3 megapixels pixels on screen at WUXGA Fast transit pixels for smooth greyscale and improved contrast. Display resolutions WUXGA (1920 x 1200)
Aspect Ratio:	16x10
Fill Factor	87%
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.		
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: 0.6 (U) 0.6 (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: 0.51 (U) 0.51 (D) frame, Hor: 0.24 (L) 0.24 (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: 0.4 (U) 0.4 (D) frame, Hor: 0.19 (L) 0.19 (R) frame</td></tr><tr><td>0.67:1 fixed HB</td><td>105-607</td><td>1.1m - 10m</td><td>Vert: 0.108 (U) 0.108 (D) frame, Hor: 0.044 (L) 0.044 (R) frame</td></tr><tr><td>1.12:1 (short) fixed HB</td><td>105-608</td><td>3m - 15m</td><td>Vert: 0.567 (U) 0.567 (D) frame, Hor: 0.273 (L) 0.273 (R) frame</td></tr><tr><td>1.16 - 1.49:1 zoom HB</td><td>109-236</td><td>3m - 15m</td><td>Vert: 0.408 (U) 0.408 (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: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame</td></tr><tr><td>1.87 - 2.56:1 zoom HB</td><td>105-611</td><td>4m - 24m</td><td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (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: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame</td></tr><tr><td>4.16 - 6.96:1 zoom HB</td><td>105-613</td><td>12m - 80m</td><td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame</td></tr><tr><td>6.92 - 10.36:1 zoom HB</td><td>109-235</td><td>12m - 80m</td><td>Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame</td></tr></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	Part No.	Optimised Focus Range*	Lens Shift (Frame)	0.37:1 (Right Angled)	120-510	1.6m - 4.9m	Vert: 0.6 (U) 0.6 (D) frame, Hor: 0.31 (L) 0.31 (R) frame	0.65-0.85:1 (Right Angled)	120-511	2.8m - 8.4m	Vert: 0.51 (U) 0.51 (D) frame, Hor: 0.24 (L) 0.24 (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	0.67:1 fixed HB	105-607	1.1m - 10m	Vert: 0.108 (U) 0.108 (D) frame, Hor: 0.044 (L) 0.044 (R) frame	1.12:1 (short) fixed HB	105-608	3m - 15m	Vert: 0.567 (U) 0.567 (D) frame, Hor: 0.273 (L) 0.273 (R) frame	1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.408 (U) 0.408 (D) frame, Hor: 0.188 (L) 0.188 (R) frame	1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame	1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame	2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame	4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame	6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.273 (L) 0.273 (R) frame
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Lens Mount	Motorised Shift, Zoom and Focus.(Lenses 0.67:1 & 1.12:1 have manual focus, shift is motorised) 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 230 VAC, 50/60Hz single phase							
Power Consumption	Typical 2800W, Max 3100W							
Thermal Dissipation	Max 10284 BTU/Hour @ 200VAC							
Fan Noise	Typical: 50dBa , Maximum 52dBa, Eco Typical 47dBa							
Operating/Storage Temperature Operating:	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, 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><tr><td>Accessory</td><td>Part No.</td></tr><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></table>		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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	<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](#)

[Ultra Short Throw Lens Installation Guide](#)



DIGITAL PROJECTION, INC



55 Chastain Road, Suite 115 Kennesaw, GA.

30144



T: 770.420.1350 | F: 770.420.1360



www.digitalprojection.com



DIGITAL PROJECTION, LTD



Greenside Way, Middleton Manchester, UK M24

1XX



T: +44.161.947.3300 | F: +44.161.684.7674



www.digitalprojection.co.uk



DIGITAL PROJECTION, INC



55 Chastain Road, Suite 115 Kennesaw, GA.

30144



T: 770.420.1350 | F: 770.420.1360



www.digitalprojection.com



DIGITAL PROJECTION, CHINA



Rm A2301, Shaoyaoju 101 North Lane, Shi Ao

International Center, Chaoyang District, Beijing 100029, PR China



T: +86.10.58239771 | F: +86 10 58239770



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ISO 9001