

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:	<p>Video & Graphics Processing</p> <ul style="list-style-type: none"> • 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 <p>General Features</p> <ul style="list-style-type: none"> • Constant Brightness control • Multi-Projector Brightness control • Compatible with selected competitor lenses via lens converter • Selectable EDID • Custom Start-up Logo <p>Geometry Correction</p> <ul style="list-style-type: none"> • 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 <p>Edge Blending</p> <ul style="list-style-type: none"> • Blending control available for all sides with width control. • Correction for non-active pixels at the edge of the display. • Electronic Black Level Compensation. <p>Picture in Picture</p> <ul style="list-style-type: none"> • 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. <p>HDBaseT® Interface</p> <ul style="list-style-type: none"> • 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 <p>Colour Processing</p> <ul style="list-style-type: none"> • 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 <p>Projector Controller Software</p> <ul style="list-style-type: none"> • Intuitive user interface for network control • Simultaneous control of user-defined groups of projectors • At-a-glance monitoring of projector status <p>Projector Automation</p> <ul style="list-style-type: none"> • 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	<table border="1"> <thead> <tr> <th colspan="3">Video & Computer</th> <th colspan="3">Communication & Control</th> </tr> <tr> <th>Type</th> <th>Connector</th> <th>Qty</th> <th>Type</th> <th>Connector</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>DisplayPort 1.2 (2D)</td> <td>DisplayPort</td> <td>1</td> <td>3D Sync In</td> <td>BNC</td> <td>1</td> </tr> <tr> <td>HDMI 1.4b (3D)</td> <td>HDMI</td> <td>2</td> <td>3D Sync Out</td> <td>BNC</td> <td>1</td> </tr> <tr> <td>HDMI 2.0b (2D)</td> <td>HDMI</td> <td>2</td> <td>LAN</td> <td>RJ45</td> <td>2</td> </tr> <tr> <td>3G-SDI in (2D)</td> <td>BNC</td> <td>1</td> <td>RS-232</td> <td>9-pin D-Sub</td> <td>1</td> </tr> <tr> <td>3G-SDI out</td> <td>BNC</td> <td>1</td> <td>Wired Remote</td> <td>3.5mm Stereo Jack</td> <td>1</td> </tr> <tr> <td>HDBaseT/LAN (2D)</td> <td>RJ45</td> <td>1</td> <td>12V Trigger</td> <td>3.5mm Stereo Jack</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td></td> <td>3D Sync IR Out</td> <td>BNC</td> <td>1</td> </tr> </tbody> </table>	Video & Computer			Communication & Control			Type	Connector	Qty	Type	Connector	Qty	DisplayPort 1.2 (2D)	DisplayPort	1	3D Sync In	BNC	1	HDMI 1.4b (3D)	HDMI	2	3D Sync Out	BNC	1	HDMI 2.0b (2D)	HDMI	2	LAN	RJ45	2	3G-SDI in (2D)	BNC	1	RS-232	9-pin D-Sub	1	3G-SDI out	BNC	1	Wired Remote	3.5mm Stereo Jack	1	HDBaseT/LAN (2D)	RJ45	1	12V Trigger	3.5mm Stereo Jack	2				3D Sync IR Out	BNC	1
Video & Computer			Communication & Control																																																				
Type	Connector	Qty	Type	Connector	Qty																																																		
DisplayPort 1.2 (2D)	DisplayPort	1	3D Sync In	BNC	1																																																		
HDMI 1.4b (3D)	HDMI	2	3D Sync Out	BNC	1																																																		
HDMI 2.0b (2D)	HDMI	2	LAN	RJ45	2																																																		
3G-SDI in (2D)	BNC	1	RS-232	9-pin D-Sub	1																																																		
3G-SDI out	BNC	1	Wired Remote	3.5mm Stereo Jack	1																																																		
HDBaseT/LAN (2D)	RJ45	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 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: 0.6 (U) 0.6 (D) frame, Hor: 0.03 (L) 0.03 (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: 0.5 (U) 0.5 (D) frame, Hor: 0.2 (L) 0.2 (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) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (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: 0.188 (L) 0.188 (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: 0.188 (L) 0.188 (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: 0.188 (L) 0.188 (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: 0.188 (L) 0.188 (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: 0.188 (L) 0.188 (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: 0.6 (U) 0.6 (D) frame, Hor: 0.03 (L) 0.03 (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	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) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (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: 0.188 (L) 0.188 (R) frame	1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame	2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame	4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame	6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame						
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: 0.03 (L) 0.03 (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																																																				
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) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (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: 0.188 (L) 0.188 (R) frame																																																				
1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame																																																				
2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame																																																				
4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame																																																				
6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame																																																				
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 230V, 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 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 competitor lenses</td> <td>119-729</td> </tr> </tbody> </table> <p>*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.</p>	Accessory	Part No.	Infrared remote control (Replacement)	118-678	Optional lens mount insert for selected competitor lenses	119-729																																																
Accessory	Part No.																																																						
Infrared remote control (Replacement)	118-678																																																						
Optional lens mount insert for selected competitor lenses	119-729																																																						
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																																																						

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

DIGITAL PROJECTION

Delta Associate Company

Specifications subject to change without notice.
©2022 Digital Projection. DLP®, Digital Light Processing™ and DMD are trademarks of Texas Instruments, Inc



Certificate Number 13629
ISO 9001

