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TITAN LASER SERIES DIGITAL PROJECTORS

THE VISIONARIES CHOICE



Titan 41000 4K-UHD (Preliminary)

**41,000 ISO / 36,000 ANSI @ 4K-UHD. 45,000 ISO / 42,000 ANSI @ WUXGA Lumens | Contrast Ratio:
18,000:1 (Dynamic Black) / 2,000:1 Native | Part Number: 121-654**

Key Specifications:

Colour System:	Laser Phosphor with ColorBoost+Red Laser
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 • HDMI 2.0 compliance for Side by Side, Frame Packing, Frame Sequential and TopBottom 3D Formats. • DisplayPort 1.2 with HDCP 2.2 compliance. • 10-bit colour processing (30-bits per pixel). • Support for 1080p 24Hz native display. • Support for 4K 4096 x 2160 resolution. • HDR support • Input source automatically detected. • Input redundancy mode with auto switching. • Dual Pipe Processing: Two sources in parallel for Left and Right eyes.

- Synchronisation of active 3D glasses or polarising switcher.
- DICOM simulation mode.
- Sealed light engine

General Features

- Constant Brightness control
- Multi Projector brightness and colour control.
- Compatible with selected 3rd party lenses via lens converter
- Selectable EDID
- Custom Start-up Logo
- Smear Reduction (fast frame) (2D Only)
- Electronic PIC MUTE with selectable fade in/out timers
- On board 4 -line LCD display for at a glance status

Geometry Correction

- Vertical & Horizontal Keystone correction.
- Four Corner adjustment.
- Rotation.
- Pin/Barrel.
- Wall Corner adjustment.
- Centre Shift (Horizontal and Vertical linearity adjustment).
- Custom Warp.
- Upload of maps for warp, blend, uniformity and masking.
- Selectable aspect ratios: 5:4 / 4:3 / 16:10 / 16:9 / 1.88 / 2.35 / TheaterScope / Source / Unscaled.
- Digital Zoom.
- Blanking control for custom input window sizing.

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.
- Upload of Blend Maps including Blend, Uniformity, Masking, Pixel by Pixel

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 4096 x 2160@60Hz 4:2:0 or 4K 4096 x 2160@30Hz 4:2:2
- Includes Ethernet 100BaseT and RS232/IR control.

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 Installation 4 x eye bolts fitted for easy rigging. 4 x top stacking mounts and mount securing pins supplied as standard accessories.																																																			
Source Compatibility	2D Graphics standards up to 4K-UHD 3840x2160 resolution at 60Hz via HDMI 2.0b, HDBaseT (4:2:0), DisplayPort inputs 3D Graphics standards up to dual-pipe WUXGA 60Hz for input (120Hz output) via HDMI 2.0 and Display Port inputs 12G-SDI is SMPTE 259M, 292M, 424M and ST-2082 compliant. WUXGA mode 2D sources up to WUXGA 60Hz and 4K-UHD 60Hz can be displayed scaled to fit WUXGA 3D sources up to WUXGA 60Hz Input -120Hz output can be displayed scaled to fit WUXGA 4K-UHD mode 2D sources up to 4K (4096 x 2160) will be displayed scaled to fit 4K-UHD Auto Mode Sources greater than WUXGA will be displayed scaled to fit 4K-UHD																																																			
Inputs/Outputs	<table><tr><th colspan="3">Video & Computer</th></tr><tr><th>Type</th><th>Connector</th><th>Qty</th></tr><tr><td>DisplayPort 1.2a (2D)</td><td>DisplayPort</td><td>2</td></tr><tr><td>HDMI 2.0b</td><td>HDMI</td><td>2</td></tr><tr><td>12G-SDI in</td><td>BNC</td><td>1</td></tr><tr><td>12G-SDI out</td><td>BNC</td><td>1</td></tr><tr><td>HDBaseT/LAN</td><td>RJ45</td><td>1</td></tr></table> . <table><tr><th colspan="3">Communication & Control</th></tr><tr><th>Type</th><th>Connector</th><th>Qty</th></tr><tr><td>3D SYNC IN</td><td>BNC</td><td>1</td></tr><tr><td>3D Sync Out</td><td>BNC</td><td>1</td></tr><tr><td>LAN</td><td>RJ45</td><td>1</td></tr><tr><td>RS-232</td><td>9-pin D-Sub</td><td>1</td></tr><tr><td>Wired Remote</td><td>3.5mm Stereo Jack</td><td>1</td></tr><tr><td>12V Trigger</td><td>3.5mm Stereo Jack</td><td>1</td></tr><tr><td>3D Sync IR Out</td><td>BNC</td><td>1</td></tr><tr><td>USB 5V 2A</td><td>Type A</td><td>1</td></tr></table>	Video & Computer			Type	Connector	Qty	DisplayPort 1.2a (2D)	DisplayPort	2	HDMI 2.0b	HDMI	2	12G-SDI in	BNC	1	12G-SDI out	BNC	1	HDBaseT/LAN	RJ45	1	Communication & Control			Type	Connector	Qty	3D SYNC IN	BNC	1	3D Sync Out	BNC	1	LAN	RJ45	1	RS-232	9-pin D-Sub	1	Wired Remote	3.5mm Stereo Jack	1	12V Trigger	3.5mm Stereo Jack	1	3D Sync IR Out	BNC	1	USB 5V 2A	Type A	1
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3D Formats Supported	Sequential / 1080P/WUXGA @100Hz Sequential / 1080P/WUXGA @120Hz Dual-Pipe / 101080P/WUXGA80p @ 50Hz per eye Dual-Pipe / 1080P/WUXGA @ 60Hz per eye Also supports mandatory formats including side by side, top/bottom and frame packing																																																			
HDTV Formats Supported	1080p (23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 59.94Hz, 60Hz). 1080i (50Hz, 59.94Hz, 60Hz). 720p (50Hz, 59.94Hz, 60Hz). 4K-UHD (23.97Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 60Hz).																																																			
Computer Compatibility	2D 4K-UHD up to 60Hz																																																			

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Bandwidth	18Gb/s (600MHz clock rate) on HDMI																																											
Remote Control	Addressable IR remote Control, Wireless and wired. On-Board keypad																																											
Automation Control	LAN RS-232 Alert E-Mails from Projector Served webpage OSD functions for full Projector Control via web browser LAN Control-Crestron Roomview™ LAN Control-Crestron eControl LAN Control-PJ Link compatible LAN Control-AMX SSDP LAN to RS232 (RS232 by Telnet) Concurrence Control for RS232/LAN DMX Art-Net control Scheduled On and Off times																																											
Colour Temperature	3200K to 9300K																																											
Operation																																												
illumination Type	Laser Light Source																																											
Typical illumination Life	20,000 Hours (Normal Mode) 40,000 Hours (ECO Mode)																																											
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><tr><td>1.87 - 2.56:1 zoom HB</td><td>105-611</td><td>4m - 24m</td><td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (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: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td></tr><tr><td>4.16 - 6.96:1 zoom HB</td><td>105-613</td><td>12m - 80m</td><td>Vert: 0.65 (U) 0.65 (D) frame, Hor: 0.28 (L) 0.28 (R) frame</td></tr><tr><td>6.92 - 10.36:1 zoom</td><td>109-235</td><td>12m - 80m</td><td>Vert: 0.65 (U) 0.45</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	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	109-235	12m - 80m	Vert: 0.65 (U) 0.45
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	* 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	110V~130Vac/ 50~60Hz 180V~240Vac/ 50~60Hz single phase * Note that in 120V operation, the projector will be at ~25% brightness		
Power Consumption	230V Typical: 3650W , Maximum 4000W		
Thermal Dissipation	Max 14160.38 BTU/hr @ 200VAC Max 3685 BTU/hr @ 110VAC		
Fan Noise	Max 54 dBA Eco Typ : 53 dBA (TBC)		
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	88 (without lens) kg / 194 (without lens) lbs		
Dimensions	L: 840mm, W: 650mm, H: 381mm (Excl handles) L: 33.1in, W: 25.6in, H: 15in (Excl handles) * See drawings for full details		
Safety & EMC Regulations	TBC		
Accessories	Accessory		Part No.
	Infrared Remote Control (Replacement)		118-678
	<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		
User Guide	User Guides User Guides (German) User Guides (French) User Guides (Korean) User Guides (Japanese)		

[Laser Risk Group Document](#)

[Important Information](#)

[Ultra Short Throw Lens Installation Guide](#)



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