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TITAN LASER SERIES DIGITAL PROJECTORS

THE VISIONARIES CHOICE



Titan 47000 WU (Preliminary)

47,000 ISO / 42,000 ANSI Lumens | Contrast Ratio: 18,000:1 (Dynamic Black) / 2,000:1 Native | Part Number: 121-653

Key Specifications:

Colour System:	Laser Phosphor with ColorBoost+Red Laser
Display Type:	3 x 0.96" WUXGA DMD™
DMD Specification:	Display capability up to WUXGA Fast transit pixels for smooth greyscale and improved contrast.
Aspect Ratio:	16:10
Fill Factor	87%
Key Features:	Video & Graphics Processing <ul style="list-style-type: none">• 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. Output will be scaled to WUXGA• 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

	<p>Installation</p> <ul style="list-style-type: none"> • 4 x eye bolts fitted for easy rigging. • 4 x top stacking mounts and mount securing pins supplied as standard accessories. 																																																			
<p>Source Compatibility</p>	<p>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.</p> <p>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</p> <p>Auto Mode Sources greater than WUXGA will be displayed scaled to fit WUXGA</p>																																																			
<p>Inputs/Outputs</p>	<table border="1" data-bbox="419 712 1514 1025"> <thead> <tr> <th colspan="3">Video & Computer</th> </tr> <tr> <th>Type</th> <th>Connector</th> <th>Qty</th> </tr> </thead> <tbody> <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> </tbody> </table> <table border="1" data-bbox="419 1059 1514 1473"> <thead> <tr> <th colspan="3">Communication & Control</th> </tr> <tr> <th>Type</th> <th>Connector</th> <th>Qty</th> </tr> </thead> <tbody> <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> </tbody> </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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<p>3D Formats Supported</p>	<p>Sequential / 1080p @100Hz Sequential / 1080p @120Hz Dual-Pipe / 1080p @ 50Hz per eye Dual-Pipe / 1080p @ 60Hz per eye Dual-Pipe / WUXGA @ 60Hz Also supports mandatory formats including side by side, top/bottom and frame packing</p>																																																			
<p>HDTV Formats Supported</p>	<p>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) (Output will be scaled to WUXGA).</p>																																																			
<p>Computer Compatibility</p>	<p>2D 4K-UHD up to 60Hz (Output will be scaled to WUXGA) 3D Supported Formats will be displayed up to WUXGA</p>																																																			
<p>Bandwidth</p>	<p>18Gb/s (600MHz clock rate) on HDMI</p>																																																			
<p>Remote Control</p>	<p>Addressable IR remote Control, Wireless and wired. On-Board keypad</p>																																																			
<p>Automation Control</p>	<p>LAN</p>																																																			

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	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	105-612	9.1m - 45m	Vert: 0.567 (U) 0.45	

	HB			(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						
	<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 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 TBC									
Power Consumption	230V Typical: 3650W , Maximum 4000W 110V Maximum: 1080W (TBC)									
Thermal Dissipation	Max 14160.38 BTU/hr @ 200VAC Max 3685 BTU/hr @ 110VAC									
Fan Noise	Max 53 dBA Eco Typ : 50 dBA									
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	<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 third party lenses (Contact local sales representative for further information)</td> <td>119-729</td> </tr> </tbody> </table> <p><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></p>				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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Downloads	PDF CAD Drawings									

AUTOCAD Drawings

STEP / IGS Drawings

User Guide



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