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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:

<b>Colour System:</b>	Laser Phosphor with ColorBoost+Red Laser
<b>Display Type:</b>	3 x 0.96" WUXGA DMD™
<b>DMD Specification:</b>	Display capability up to WUXGA Fast transit pixels for smooth greyscale and improved contrast.
<b>Aspect Ratio:</b>	16:10
<b>Fill Factor</b>	87%
<b>Key Features:</b>	<b>Video &amp; Graphics Processing</b> <ul style="list-style-type: none"><li>• HDMI 2.0 compliance for Side by Side, Frame Packing, Frame Sequential and TopBottom 3D Formats.</li><li>• DisplayPort 1.2 with HDCP 2.2 compliance.</li><li>• 10-bit colour processing (30-bits per pixel).</li><li>• Support for 1080p 24Hz native display.</li><li>• Support for 4K 4096 x 2160 resolution. Output will be scaled to WUXGA</li><li>• HDR support</li><li>• Input source automatically detected.</li><li>• Input redundancy mode with auto switching.</li><li>• Dual Pipe Processing: Two sources in parallel for Left and Right eyes.</li><li>• Synchronisation of active 3D glasses or polarising switcher.</li><li>• DICOM simulation mode.</li></ul>

- 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><b>Installation</b></p> <ul style="list-style-type: none"> <li>• 4 x eye bolts fitted for easy rigging.</li> <li>• 4 x top stacking mounts and mount securing pins supplied as standard accessories.</li> </ul>																																																			
<p><b>Source Compatibility</b></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><b>WUXGA mode</b>  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><b>Auto Mode</b>  Sources greater than WUXGA will be displayed scaled to fit WUXGA</p>																																																			
<p><b>Inputs/Outputs</b></p>	<table border="1"> <thead> <tr> <th colspan="3">Video &amp; 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"> <thead> <tr> <th colspan="3">Communication &amp; 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><b>3D Formats Supported</b></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><b>HDTV Formats Supported</b></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><b>Computer Compatibility</b></p>	<p><b>2D</b> 4K-UHD up to 60Hz (Output will be scaled to WUXGA)  <b>3D</b> Supported Formats will be displayed up to WUXGA</p>																																																			
<p><b>Bandwidth</b></p>	<p>18Gb/s (600MHz clock rate) on HDMI</p>																																																			
<p><b>Remote Control</b></p>	<p>Addressable IR remote Control, Wireless and wired. On-Board keypad</p>																																																			
<p><b>Automation Control</b></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
	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>			
<b>Lens Mount</b>	Motorised Shift, Zoom and Focus. Intelligent Lens Memory with 10 user-definable pre-set positions for zoom lenses.			
<b>Mechanical Mounting</b>	Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet			
<b>Orientation</b>	<b>Table Top or Inverted:</b> Yes <b>Pointing Up:</b> Yes <b>Pointing Down:</b> Yes <b>Roll (Portrait):</b> Yes			
<b>Power Requirements</b>	110V~130Vac/ 50~60Hz 180V~240Vac/ 50~60Hz single phase * Note that in 120V operation, the projector will be at ~25% brightness			
<b>Power Consumption</b>	230V Typical: 3650W , Maximum 4000W			
<b>Thermal Dissipation</b>	Max 14160.38 BTU/hr @ 200VAC Max 3685 BTU/hr @ 110VAC			
<b>Fan Noise</b>	Max 53 dBA Eco Typ : 50 dBA			
<b>Operating/Storage Temperature:</b>	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)			
<b>Operating Humidity</b>	Operating: 10% ~ 90% non-condensing Storage: 10% ~ 90% non-condensing			
<b>Weight</b>	88 (without lens) kg / 194 (without lens) lbs			
<b>Dimensions</b>	L: 840mm, W: 650mm, H: 381mm (Excl handles) L: 33.1in, W: 25.6in, H: 15in (Excl handles) * See drawings for full details			
<b>Safety &amp; EMC Regulations</b>	TBC			
<b>Accessories</b>	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	
	<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>			
<b>Downloads</b>	<a href="#">PDF CAD Drawings</a>			

	<a href="#">AUTOCAD Drawings</a> <a href="#">STEP / IGS Drawings</a>
<b>User Guide</b>	<a href="#">User Guides</a> <a href="#">User Guides (German)</a> <a href="#">User Guides (French)</a> <a href="#">User Guides (Korean)</a> <a href="#">User Guides (Japanese)</a> <a href="#">Laser Risk Group Document</a> <a href="#">Important Information</a>



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