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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 <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.• 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

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

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

3D Supported Formats will be displayed up to WUXGA

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)																																										
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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 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 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								
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Downloads	PDF CAD Drawings AUTOCAD Drawings STEP / IGS Drawings								
User Guide									



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