AxionDisplays

PRODUCT SPECIFICATIONS

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Titan Luma 37000 WUXGA

Brightness: 37,000 ISO / 33,000 ANSI | Contrast: 18,000:1 (Dynamic Black) | Part Number: 124-396



TECHNICAL CONFIGURATION

Display Type:	3 × 0.96" DMD™
Display resolution:	1920 × 1200
DMD Specification:	1920 × 1200 pixels native display Fast transit pixels for smooth greyscale and improved contrast
Aspect Ratio:	16:10
Fill Factor:	87%
Colour System:	Laser Phosphor with ColorBoost (Red Laser)
Colour Temperature:	User selectable (3200 K / 5400 K / 6500 K / 7500 K / 9300 K / Native)
Illumination type:	Laser Phosphor
Illumination life:	20,000 hours to 50% of initial brightness
Video Processing:	**ColorBoost+Red Laser** • Uses red laser diodes for increased colour fidelity and highly accurate colours **Video & Graphics Processing** • HDMI 2.0 (HDCP 2.2) • DisplayPort 1.2 • 10-bit colour processing (30 bits per pixel). • Support for 1080p 24Hz native display. • Support for 4K 4096 × 2160 resolution. • HDR support • Input source automatically detected.

- Input redundancy mode with auto switching.
- 3D Formats: Side by Side, Frame Packing, Frame Sequential and TopBottom.
- Dual Pipe Processing: Two sources in parallel for Left and Right eyes.
- Syncronisation of active 3D glasses or polarising switcher.
- DICOM simulation mode.

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 100 m from source with low cost cabling
- Supports up to 4K 4096 × 2160@60Hz 4:2:0 or 4K 4096 × 2160@30Hz 4:2:2
- Includes Ethernet 100BaseT and RS-232/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 × eye bolts fitted for easy rigging. • 4 × top stacking mounts and mount securing pins supplied as standard accessories.
Key features:	• NEXUS Electronics Platform • IP6X Dust-proofing • Source Redundancy • Flexible Geometry Adjustments • Art-Net Support • Intelligent Lens Memory • MultiAxis Orientation • Constant Brightness • Built-in Edge Blending with black level correction • 24/7 Operation • ColorBoost+Red Laser
Source Compatibility:	2D Graphics standards up to 4K-UHD 3840 × 2160 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 DisplayPort 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 **Auto Mode** Sources greater than WUXGA will be displayed scaled to fit WUXGA
HDTV Formats:	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
Lens included:	No
Lens Control:	Motorised and programmable lens shift, zoom and focus. Intelligent Lens Memory with 10 user-definable preset positions (not available with the UST lens).
Mechanical Mounting:	Front/Rear Tabletop Front/Rear Ceiling Mount compatible chassis with four M10 mounting holes, max. screw length 15 mm
Orientation:	Pointing Up: Ja Pointing Down: Ja Roll Portrait: Ja Tabletop Inverted: Ja

Dimensions:	L×W×H (without handles): 760 mm × 525 mm × 318 mm L×W×H (without handles): 29.9 in × 20.7 in × 12.5 in
Weight:	54.5 kg (120.1 lb)
Remote Control:	Addressable Infrared/Wired Remote Control Unit
Automation Control:	Web-based LAN control RS-232 Email alerts LAN Control - Crestron® Roomview™ LAN Control - Crestron® eControl LAN Control - PJ Link compatible LAN Control - AMX® SSDP LAN to RS-232 (RS-232 by Telnet) Concurrence Control for RS-232/LAN Art-Net (DMX) control Scheduled On and Off times
Power Requirements:	200-240 VAC, 12 A, 50/60 Hz, single phase
Power Consumption:	At 200 VAC - Typical 2400 W in Normal mode At 200 VAC - Max 2250 W in High Altitude mode
Standby power:	Super ECO mode: < 1W ECO mode: < 6W Normal mode: < 40W
Thermal Dissipation:	At 200 VAC - Typical 8190 BTU/h in Normal mode At 200 VAC - Max 7678 BTU/h in High-altitude mode
Fan Noise:	Normal mode: 49 dBA typical Eco mode: 46 dBA typical
Temperature:	Operating: 0 to 40 °C (32 to 104 °F)
Storage temperature:	-20 to 60 °C (-4 to 140 °F)
Operating Humidity:	10-90% (with maximum temperature of 35 °C (95 °F); non-condensing)
Safety:	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)
Product URL:	https://www.axiondisplays.com/brands/digital-projection/projectors/titan/titan-luma-37000-wuxga/
Spec Version:	26B-2.0.0-4

Inputs / Outputs

Input	Connector	Qty
DisplayPort 1.2 (2D)	DisplayPort	2
HDMI 2.0b	HDMI	2
12G-SDI IN	BNC	1
12G-SDI OUT (loop through)	BNC	1
HDBaseT/LAN	RJ45	1

Communication and Control

Connection	Connector	Qty
3D SYNC In	BNC	1
3D Sync Out (loop through)	BNC	1
3D Sync Out for IR	BNC	1
LAN / Art-Net	RJ45	1
RS-232	9-pin D-Sub	1
Wired Remote In	3.5mm Stereo Jack	1
Wired Remote Out	3.5mm Stereo Jack	1
12V Trigger	3.5mm Stereo Jack	1
USB 5V 2A	Type A	1

Available Lenses

Lens Name	Part #	Focus Range	V-Shift	H-Shift
Lens Titan 0.37:1	120-510	1.6 - 4.9 m	WUXGA: 60% (up); 60% (down); 4K-UHD: 78% (up); 60% (down)	WUXGA: 31% (left); 31% (right); 4K-UHD: 33% (left); 33% (right)
Lens Titan 0.65 - 0.85:1	120-511	2.8 - 8.4 m	WUXGA: 51% (up); 51% (down); 4K-UHD: 62% (up); 51% (down)	WUXGA: 24% (left); 24% (right); 4K-UHD: 25% (left); 25% (right)
Lens Titan 0.67:1	105-607	1.1 - 3.2 m	WUXGA: 10.8% (up); 10.8% (down)	WUXGA: 4.4% (left); 4.4% (right)
Lens Titan 0.8 - 1.16:1	120-512	1.7 - 11.0 m	WUXGA: 40% (up); 40% (down); 4K-UHD: 51% (up); 40% (down)	WUXGA: 19% (left); 19% (right); 4K-UHD: 20% (left); 20% (right)
Lens Titan 1.12:1	105-608	3 - 15 m	WUXGA: 56.7% (up); 45.0% (down)	WUXGA: 27.3% (left); 27.3% (right)
Lens Titan 1.16 - 1.49:1	109-236	3 - 15 m	WUXGA: 40% (up); 40% (down); 4K-UHD: 50% (up); 40% (down)	WUXGA: 19% (left); 19% (right); 4K-UHD: 20% (left); 20% (right)
Lens Titan 1.39 - 1.87:1	105-610	4 - 24 m	WUXGA: 56.7% (up); 45.0% (down); 4K-UHD: 68.0% (up); 45.0% (down)	WUXGA: 27.3% (left); 27.3% (right); 4K-UHD: 28.0% (left); 28.0% (right)
Lens Titan 1.87 - 2.56:1	105-611	4 - 24 m	56.7% (up); 45.0% (down)	27.3% (left); 27.3% (right)
Lens Titan 2.56 - 4.16:1	105-612	9.1 - 45.0 m	WUXGA: 56.7% (up); 45.0% (down); 4K-UHD: 68.0% (up); 45.0% (down)	WUXGA: 27.3% (left); 27.3% (right); 4K-UHD: 28.0% (left); 28.0% (right)
Lens Titan 4.16 - 6.96:1	105-613	12 - 18 m	WUXGA: 56.7% (up); 45.0% (down); 4K-UHD: 68.0% (up); 45.0% (down)	WUXGA: 27.3% (left); 27.3% (right); 4K-UHD: 28.0% (left); 28.0% (right)
Lens Titan 6.92 - 10.36:1	109-235	12 - 80 m	WUXGA: 56.7% (up); 45.0% (down); 4K-UHD: 68.0% (up); 45.0% (down)	WUXGA: 27.3% (left); 27.3% (right); 4K-UHD: 28.0% (left); 28.0% (right)

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