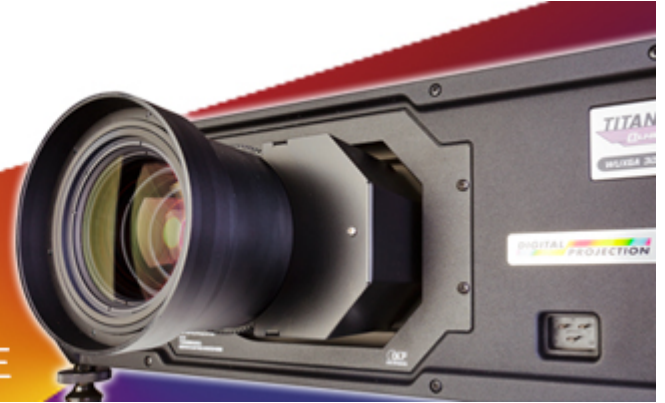


# Titan Quad 1080p 3D

16,000 Lumens | Contrast Ratio: 2,000:1 | Part No:111-872

## TITAN QUAD SERIES DIGITAL PROJECTORS



THE VISIONARIES CHOICE

<b>Colour System:</b> 3-chip DLP®	<b>DMD Specification:</b> 1920 x 1080 pixels native. Fast transit pixels for smooth greyscale and improved contrast.
<b>Display Type:</b> 3 x 0.95" DarkChip™ DMD™	<b>Aspect Ratio:</b> 16x9 <b>Fill Factor</b> 87%

### Key Features

#### Standard Inputs (1-8): Front End Video Capabilities

##### Video & Graphics Processing

- High bandwidth digital & analog receiver with 10 bit A-D.
- Automatic detection of interlaced video and implementation of 3:2 or 2:2 extraction as appropriate, with pixel based, motion adaptive interpolation and auto cadence correction.
- Displayed image frame locked to input with as low as 1 frame total latency.
- 24p and 1080p native display.
- Image enhancement for MPEG, Mosquito noise & color transients in composite sources.

##### Geometry Correction

- Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, and Image Rotation.
- Non-linear Warp adjustment by moving points on an interpolated grid.

##### Edge Blending

- Semi-automated multi projector tiling
- Correction for non-active pixels at the edge of the display.

##### Super Image Clarity

- Geometry correction and Edge Blending implemented in single stage process, retaining maximum image resolution.

##### Picture in Picture

- Two sources can be displayed either one within the other (PIP), or side by side, with original aspect ratios maintained.

##### ColorMax™

- Accurate matching of projectors in tiled or blended applications.
- User selection and storage of primary and secondary color targets.

#### High Bandwidth Inputs (9-11): Bypassing Front End for Minimal Latency

- Pixel mapped to the display.
- Dual Link DVI accepts frame rates up to 160Hz with latency as low as 1 frame.
- HDMI 1.4 for Side by Side, Frame Packing & Top Bottom formats.
- Dual Flash Processing can be used to multiply the displayed frame rate for 3D sources (example 144Hz display).
- FastFrame™ Smear Reduction.
- Dual Pipe processing: two sources in parallel for left and right eyes.

- Synchronisation of active glasses or polarising switcher.

## Projector Controller Software

- Intuitive user interface for network control
- Simultaneous control of user-defined groups of projectors
- At-a-glance monitoring of projector status

### Source Compatibility:

3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.

HDMI and DVI include Deep Color™ processing up to 36 bit.

DVI inputs are HDMI compatible.

Digital Audio Extraction via SPDIF for HDMI sources.

Graphics standards up to 1920 x 1200 at 60Hz via DVI or VGA.

Component Video (SD and HD) via YPrPb, RGB or RGBS.

S-Video (PAL, NTSC & SECAM)

Composite Video (PAL, NTSC & SECAM)

High Bandwidth, Pixel Mapped Path:

Dual DVI accepts graphics standards up to 1920 x 1200 at 120Hz.

HDMI 1.4 including 3D Standards

Dual Pipe (2 x DVI)

## Inputs/Outputs

Video & Computer			Communication & Control		
Type	Connector	Qty	Type	Connector	Qty
DVI-D / DVI-A	DVI-I	1	3D Sync Out	BNC	1
HDMI 1.3	HDMI	1	3D Sync In	BNC	1
3G-SDI	BNC	1	LAN	RJ45	1
VGA / Analog RGB	15-pin D-Sub	1	RS232	9-pin D Sub	1
Component Video	4 x BNC	1	Wired Remote In	3.5mm Stereo Jack	1
S-Video	4-pin Mini DIN	1	Wired Remote Out	3.5mm Stereo Jack	1
Composite Video	RCA	1	Update Port	RJ45	1
Composite Video	BNC	1	Service Port	USB Type B	1
High Bandwidth Ports					
Main - Dual Link DVI-D	DVI-I	1			
Sub - HDMI 1.4	DVI-I	1			
Audio					
SPDIF Digital Output	RCA	1			

### 3D Formats Supported

Frame Packing  
Dual Pipe  
Frame Sequential  
Side By Side (half)  
Top and Bottom

### HDTV Formats Supported

1080p (23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 59.94Hz, 60Hz), 1080i (50Hz, 59.94Hz, 60Hz), 1080sf (23.98Hz, 24Hz), 720p (50Hz, 59.94Hz, 60Hz)

### Computer Compatibility

Up to 1920 x 1200

### Bandwidth

170 MHz on analog RGB  
165 Megapixels per second on HDMI and DVI  
297 Megapixels per second on Dual Link DVI

### Remote Control

Addressable IR remote control, wireless and wired with loop-through.  
On-Board invertable keypad

### Automation Control

RS232  
LAN

### Colour Temperature

User selectable from 3200 to 9000K

### Operation

24x7 Operation

Lamp Type	Typical Lamp Life
4 x 400W High Intensity Discharge	Full Power: 1500 hours (up to 6000 hours in lamp sequential mode)  Eco Mode : 2000 hours (up to 8000 hours in lamp sequential mode)

### Lenses

Lens	Part No.	Focus Range	Lens Shift
0.67:1 fixed HB	105-607	1.1m - 10m	Vert: 0.176 (U) 0.176 (D) frame, Hor: 0.063 (L) 0.063 (R) frame
1.12:1 fixed HB	105-608	3m - 15m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.12:1 (short) fixed HB	105-609	1.2m - 2m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.16 - 1.49:1 zoom HB	109-236	3m - 15m	Vert: 0.509 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.39 - 1.87:1 zoom HB	105-610	4m - 24m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
1.87 - 2.56:1 zoom HB	105-611	4m - 24m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
2.56 - 4.16:1 zoom HB	105-612	9.1m - 45m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
4.16 - 6.96:1 zoom HB	105-613	12m - 80m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame
6.92 - 10.36:1 zoom HB	109-235	12m - 80m	Vert: 0.685 (U) 0.5 (D) frame, Hor: 0.188 (L) 0.188 (R) frame

\* 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 and programmable shift, zoom and focus. Intelligent Lens Memory with 5 user-definable preset positions.

Mechanical Mounting	Orientation
Front/Rear Table Front/Rear Ceiling Adjustable Front/Rear Feet Rugged, staging tolerant chassis with integrated handles. Optional RapidRig™ frame with integrated pitch, roll and yaw adjustments.	<b>Table Top or Inverted:</b> Yes <b>Pointing Up:</b> Yes - special software required. <b>Pointing Down:</b> No <b>Roll (Portrait):</b> No

Power Requirements	Power Consumption
200-240VAC 50/60Hz single phase	2100W


Thermal Dissipation	Fan Noise
7165 BTU/Hour	48 dBA

Operating/Storage Temperature	Operating Humidity
Operating: 0 to 40C (32 to 104F) Storage: -10 to 50C (14 to 122F)	20 to 80% non-condensing

Weight (Chassis Only)	Dimensions
39 kg 86.0 lb	L: 68.8 cm W: 58.5 cm H: 25.8 cm L: 27.1 in W: 23.1 in H: 10.2 in

### Safety & EMC Regulations

CE, FCC Class A, CCC



\*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.

### Downloads

<a href="#">PDF CAD Drawings</a>	<a href="#">User Guides</a>
<a href="#">AUTOCAD Drawings</a>	<a href="#">Important Information</a>

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