

## Titan 930 WUXGA 3D

15,000 ANSI Lumens | Contrast Ratio: 2,000:1 | Part No:114-441



|  |   |
|--|---|
| <b>Colour System:</b><br>3-chip DLP®             | <b>DMD Specification:</b><br>1920 x 1200 pixels native, +/- 12° tilt angle<br>Fast transit pixels for smooth greyscale and improved contrast. |
| <b>Display Type:</b><br>3 x 0.96" DarkChip™ DMD™ | <b>Aspect Ratio:</b><br>16x10<br><b>Fill Factor</b><br>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  | HDTV Formats Supported   |
|---|--|
| Frame Packing<br>Dual Pipe<br>Frame Sequential<br>Side By Side (half)<br>Top and Bottom | 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 | Bandwidth  |
|------------------------|--|
| Up to 1920 x 1200      | 170 MHz on analog RGB<br>165 Megapixels per second on HDMI and DVI<br>297 Megapixels per second on Dual Link DVI |

| Remote Control   | Automation Control |
|--|--------------------|
| Addressable IR remote control, wireless and wired with loop-through.<br>On-Board invertable keypad | RS232<br>LAN       |

| Colour Temperature                 |
|------------------------------------|
| User selectable from 3200 to 9000K |

| Lamp Type                         | Typical Lamp Life   |
|-----------------------------------|---|
| 2 x 465W High Intensity Discharge | Full Power: 1500 hours (up to 3000 hours in lamp sequential mode)<br><br>Eco Mode : 2000 hours (up to 4000 hours in lamp sequential mode) |

| Lenses                  |          |             |   |
|-------------------------|----------|-------------|---|
| Lens                    | Part No. | Focus Range | Lens Shift  |
| 0.67:1 fixed HB         | 105-607  | 1.1m - 10m  | Vert: 0.108 (U) 0.108 (D) frame, Hor: 0.044 (L) 0.044 (R) frame |
| 1.12:1 fixed HB         | 105-608  | 3m - 15m    | Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame  |
| 1.12:1 (short) fixed HB | 105-609  | 1.2m - 2m   | Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (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: 0.188 (L) 0.188 (R) frame  |
| 1.87 - 2.56:1 zoom HB   | 105-611  | 4m - 24m    | Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame  |
| 2.56 - 4.16:1 zoom HB   | 105-612  | 9.1m - 45m  | Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame  |
| 4.16 - 6.96:1 zoom HB   | 105-613  | 12m - 80m   | Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame  |
| 6.92 - 10.36:1 zoom HB  | 109-235  | 12m - 80m   | Vert: 0.567 (U) 0.45 (D) frame, Hor: 0.188 (L) 0.188 (R) frame  |
| 1.50 - 2.17:1 zoom HB   | 114-143  | 5m - 25m    | Vert: 0.237 (U) 0.237 (D) frame, Hor: 0.104 (L) 0.104 (R) frame |
| 1.72 - 2.71:1 zoom HB   | 114-144  | 5m - 25m    | Vert: 0.237 (U) 0.237 (D) frame, Hor: 0.104 (L) 0.104 (R) frame |
| 2.15 - 3.36:1 zoom HB   | 114-145  | 5m - 25m    | Vert: 0.237 (U) 0.237 (D) frame, Hor: 0.104 (L) 0.104 (R) frame |

| Lens Mount  |
|---|
| Motorised and programmable shift, zoom and focus. Intelligent Lens Memory with 5 user-definable preset positions. |

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

| Power Requirements          | Power Consumption |
|-----------------------------|-------------------|
| 220VAC 50/60Hz single phase | 1400W             |

| Thermal Dissipation | Fan Noise |
|---------------------|-----------|
| 4778 BTU/Hour       | 48 dBA    |

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

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

| Safety & EMC Regulations |
|--------------------------|
|                          |

CE, FCC Class A

## Accessories

| Accessory                              | Part No. |
|--|----------|
| Lamp & Filter Kit, 465W, 2 Lamp        | 113-714  |
| Lamp, 465W                             | 113-628  |
| RapidRig™ Frame                        | 111-265  |
| Ceiling Mount Kit w/plate & 500mm pole | 112-937  |
| Infrared Remote (Replacement)          | 105-023  |

*\*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

[PDF CAD Drawings](#)

[User Guides](#)

[AUTOCAD Drawings](#)

[Important Information](#)

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**DIGITAL PROJECTION, LTD** GREENSIDE WAY, MIDDLETON MANCHESTER, UK. M24 1XX  
T: +44.161.947.3300 | F: +44.161.684.7674 | [www.digitalprojection.co.uk](http://www.digitalprojection.co.uk)

**DIGITAL PROJECTION, INC** 55 CHASTAIN ROAD, SUITE 115 KENNESAW, GA. 30144  
T: 770.420.1350 | F: 770.420.1360 | [www.digitalprojection.com](http://www.digitalprojection.com)

**DIGITAL PROJECTION, CHINA** TOWER C, RM C1202, CAI FU JIA YUAN, NO. 19 XIAO YING STREET, CHAOYANG DISTRICT BEIJING, PR CHINA 100101  
T: +86.10.58239771 | F: +86 10 58239770

**DIGITAL PROJECTION, ASIA** 16 NEW INDUSTRIAL ROAD, #02-10 HUDSON TECHNOCENTRE SINGAPORE 536204  
T: +65.6284.1138 | F: +65.6284.1238