

Titan LED 1080p 3D

2,000* Lumens | Contrast Ratio: 2,000:1 | Part No:114-461

TITAN 3-CHIP LED SERIES DIGITAL PROJECTORS



THE VISIONARIES CHOICE



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

Key Features

- Digital Projection has developed a variant of its Titan projector that incorporates the latest LED illumination technology to provide amazing quality images.
- These LEDs remain stable and consistent over many years of use, providing a colour gamut that goes way beyond the requirements of HDTV or cinema.
- The stability of the colour and luminance is of particular value in multi-projector installations. The very high frame rate, low latency capabilities are perfectly suited to simulation.
- Coupled with Digital Projection's advanced video processing technology, the new light sources provide the ideal reference quality display for home theatre, post production, visualisation and simulation installations.
- *Takes into account Helmholtz-Kohlrausch effect. LED illuminated projectors produce extraordinarily high colour purity and saturation, thus appearing brighter than a lamp-based display with similar measured lumen specifications.

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 | Automation Control |
|----------------|--------------------|
|----------------|--------------------|

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

RS232
LAN

| Colour Temperature |
|--------------------|
|--------------------|

User selectable from 3200 to 9000K

| Lamp Type | Typical Lamp Life |
|-----------|-------------------|
|-----------|-------------------|

LED Illumination Module

60,000 hours

| 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 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.

Table Top or Inverted: Yes
Pointing Up: Yes
Pointing Down: Yes
Roll (Portrait): Yes

| Power Requirements | Power Consumption |
|--------------------|-------------------|
|--------------------|-------------------|

100-240VAC 50/60Hz single phase

400W

| Thermal Dissipation | Fan Noise |
|---------------------|-----------|
|---------------------|-----------|

1365 BTU/Hour

42 dBA

| Operating/Storage Temperature | Operating Humidity |
|-------------------------------|--------------------|
|-------------------------------|--------------------|

Operating: 0 to 35C (32 to 95F)
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 |
|--------------------------|
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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 |
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[PDF CAD Drawings](#)

[User Guides](#)

[AUTOCAD Drawings](#)

[Important Information](#)

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