









TITAN WUXGA 3D Pro Series II

TITAN WUXGA 3D • TITAN WUXGA Dual 3D • TITAN WUXGA 3D Ultra Contrast • TITAN WUXGA Dual 3D Ultra Contrast



PERFORMANCE SPECIFICATIONS

Brightness (±10%)

5,000 Lumens WUXGA 3D *Ultra Contrast*: 2,500 Lumens 10,000 Lumens WUXGA Dual 3D: WUXGA Dual 3D Ultra Contrast: 5,000 Lumens

Contrast Ratio (±10%)

2000:1 Standard Models: Ultra Contrast Models: 4000:1

Display Type

3 x Darkchip WUXGA DMD™ with Fast Transit Pixels for smooth greyscale and improved contrast

DMD Specification

1920 x 1200 pixels native, 12° tilt angle

Fill Factor

Sealed Optics at DMD™ Interface

Protects DMD's[™] from optical contamination

Source Compatibility

- Composite, s-video, and color difference video standards
- RGB graphics standards up to 1920 x 1080
- DVI standards with HDCP compliance
- · High definition RGB and color difference standards
- High definition / standard definition serial digital formats (SD/HD-SDI)
- High bandwidth Dual DVI, and Dual-Twin DVI

Video Processing

- Enhanced 7 point color correction
- Dual Flash Processing™ increases 60 Hz inputs to 120 Hz displayed output
- FastFrame™ Motion Blur Reduction
- Xenon Color Mode User selectable notch filter and xenon-color mode processing, enable the projector to replicate xenon lamp spectral performance
- Class leading Video de-interlacing/processing of SD and HD sources using auto 3:2 and 2:2 extraction, ruggedized for editing discontinuities
- Pixel-based motion adaptive interpolation
- User selectable preset, parametric
- de-gamma and user downloadable de-gamma Frame Delay: as low as 1 frame, source dependant
- Auto mode selection plug and play setup

High Bandwidth Input

- · 3D capable
- Pixel Mapped with low latency
- FastFrame™ Motion Blur Reduction
- 120 Hz with no frame doubling

Sync In - External lock Sync Out - Shutter glass control

Network Connection

LAN via RJ 45, Wireless 802.11b, full protocol feature set

Lamp Type

Single or Dual High Intensity Discharge module

Lamp Life (typical)1

2000 hours per lamp, dual lamp models provide 4000 hours sequential lamp operation, lamp low provides extended lamp life

Lens Mount

Zoom: Motorized horizontal and vertical lens shift, zoom & focus Fixed: Manual Focus

Intelligent Lens Memory with 10 user-definable preset positions

Lens Shift (maximum)

Fixed 1.12 and Zoom Lenses:

- Vert: +0.7, -0.5 frame; Hor: ±0.1875 frame 0.67 Fixed lens:
 - Vert: ±0.1 frame; Hor: ±0.1 frame

Lens Options

0.67	:1 fixed	1.87-2.56	:1 zoom
1.12	:1 fixed	2.56-4.16	:1 zoom
1.16- 1.49	:1 zoom	4.16-6.96	:1 zoom
1.39-1.87	:1 zoom	6.16-10.49	:1 zoom

- 1.12:1 Lenses include manual aperture
- High-contrast lenses available for 0.67:1 and all zoom lenses

Mechanical Mounting

- Front or rear table; Front or rear ceiling (ceiling mount optional)
- Rugged, staging tolerant chassis with integrated handles
- Optional RapidRig[™] frame with integrated pitch, roll and yaw adjustments

Weight (chassis only)

68 lbs (31kg)

Specifications subject to change without notice DP V1.06/09 ©2009 Digital Projection, Inc. ™DLP, Digital Light Processing and DMD are trademarks of Texas Instruments, Inc.

Overview

Digital Projection International (DPI), Texas Instruments' first DLP™ partner and the original innovator of the 3-chip DLP™ projector, proudly introduces the TITAN WUXGA 3D family.

Weighing in at just 31kgs/68 lbs. every TITAN 3D display employs the latest in WUXGA dark chip, 3-chip DLP™ technology to deliver up to 10,000 ANSI lumens and up to 4000:1 contrast. This award-winning compact chassis now includes four WUXGA active 3D models. All robustly built and extremely quiet, TITAN 3D projectors are the perfect imaging solution for vital immersive applications including: military simulation, scientific visualization, medical and geological research, product engineering, commercial cinema and theme park attractions.

In addition to the active 3D capability, TITAN 3D models also include DP's new FastFrame™ technology, a revolutionary combination of hardware and firmware that reduces the artifacts and image blur typically associated with rapidly moving displayed content. The benefits of FastFrame™ are especially important for simulation environments such as commercial and military flight training, and other applications where maintaining the visual integrity of high-speed imagery is vital.

For challenging 3D venues that require extreme mechanical rigging or precise mechanical alignment, the TITAN 3D products can be ordered with DP's RapidRig™ flying and stacking frame. The RapidRig™ frames provide integrated pitch, roll and yaw adjustments, simplifying installation and alignment accuracy. TITAN 3D models utilize the same lenses employed across the rest of DPI's TITAN and LIGHTNING product range, so optical accuracy is always ensured.

Other key benefits of the TITAN WUXGA 3D models include:

- High Bandwidth input >120Hz active stereoscopic DVI with no need for frame doubling. This capability extends the dynamic range up to 16 bit for improved contrast and color gamut.
- Dual Flash Processing™ (DFP) Enables distribution of 3D content via 60 Hz formats by providing the option to frame-double the signal within the projector. When this option is selected, the input signal, having been processed and re-sized to map to the native resolution of the projector, will also be frame-doubled to 120 Hz, and the doubled frames interleaved. This produces imagery with the low flicker characteristics $% \left(1\right) =\left(1\right) \left(1\right) \left$ of a native 120 Hz source, but without the infrastructure costs associated with distributing and switching ultra-high bandwidth signals.
- Projector electronics which provide an interface to drive an infrared transmitter to synchronize switching glasses with active displayed frames. The user can elect either to pass through an external sync pulse, or to use the reference generated internally by the projector. Adjustments are provided to accommodate the phase and dead time characteristics of different switching glasses.
- FastFrame™ technology, a revolutionary combination of hardware and firmware that provides user adjustments to vastly reduce the artifacts and image blur typically associated with rapidly moving display content.
- Minimal video delay from input to screen as low as 1 frame.
- Eight user-selectable inputs, including HDCP-compliant DVI plus SD/HD-SDI.
- $\bullet \ \ \text{High bandwidth DVI inputs offer Single, Twin, Dual \& Dual Twin DVI connectivity.}\\$
- Up to 16 Bit color for breathtaking image reproduction.
- DPI's ColorMax™ calibration capabilities including enhanced seven-point color correction for broader color space and precise color alignment.
- DPI's CoolTek™ engineering, delivers the highest lumen performance with the lowest power consumption, thermal (BTU) and noise level (dBA) output.

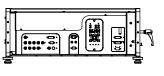
TITAN WUXGA 3D Pro Series II displays - powerful tools for immersive large screen applications - bringing the precision of Digital Projection to your venue.

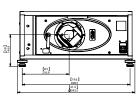
INPUT CAPABILITIES

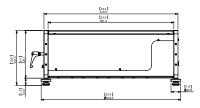
Type	Connector	Quantity
Composite	BNC	1
S-Video	4-pin mini DIN	1
Component Interlaced/Std def Y, Cr/Pr, Cb/Pb, S	BNCx4	1
Graphics Progressive RGB/Progressive Interlaced Hi def Y, Cr/ Pr, Cb/PB	BNCx5	1
RGBHV (Progressive)	D sub (15-pin)	1
Digital RGB	DVI	1
Serial Digital SD/HD-SDI (SMPTE 259M/292M)	BNC	1
DVI - High bandwidth Dual - main Dual - sub	DVI DVI	1 1

TITAN WUXGA 3D Pro Series II











TITAN WUXGA 3D side panel



shown with optional rigging frame

Projector Dimensions

Projector dimensions (in) L1 25.4 W1 21.4 H1 10

Projector dimensions (mm) L1 645.4 W1 543.5 H1 253.5

ADVANCED TECHNICAL SPECIFICATIONS

PARAMETERS	(Single Lamp Models) WUXGA-90 WUXGA-90 Ultra Contrast	(Dual Lamp Models) Wurst Dual 20 Uttra Contrast
Native Color Temperature	6500°K ±1000°K; white balance-adjustment: 3000°K to 10000°K User selectable Xenon-like colorimetry using dynamic optical and electronic enhancement.	
HDTV Formats Supported	Remote Control Addressable IR remote control, wireless and wired with loop-through / On board invertable keypad LAN connection via RJ45 / RS232 9-pin D type	
Scan Rates Supported		
Remote Control		
Automation Control		
Operating/Storage Temperature		
Operating Humidity	20 to 80% non-condensing	
Thermal Dissipation	1,770 BTU/hr	2,777 BTU/hr
Fan Noise	Less than 42dBA	Less than 45dBA
Power Requirements	100-240 VAC ±10%, 50/60Hz single phase	
Power Consumption	580 watts maximum	910 watts maximum

Projectors TITAN WUXGA 3D TITAN WUXGA 3D Ultra Contrast TITAN WUXGA Dual 3D TITAN WUXGA Dual 3D Ultra Contrast	Part # 109-662 109-663 109-664 109-665
Lenses 0.67:1 1.12:1 1.12:1 (short) 1.16-1.49:1 1.39 - 1.87:1 1.87 - 2.56:1 2.56 - 4.16:1 4.16 - 6.96:1 6.92-10.36:1	HB Part # 105-607 105-608 105-609 109-236 105-610 105-611 105-612 105-613 109-235

Accessories	Part #
Single TITAN 3D Lamp & Housing* (2 required)	109-319
RapidRig™ Frame	107-956
TITAN 3D Series Adjustable Ceiling Mount	108-499
Infrared Remote (Replacement)	105-023
* Includes high-performance replacement air filter(s)	

Based on 4-6 hour/day operational profile. Venue and application conditions may impact actual lamp life. See Digital Projection's Product Warranty Statement for details on lamp warranty.
 Installations requiring horizontal or vertical tilt orientations greater than 15 degrees may reduce the actual operational hours of one of the two lamps.











