

# TITAN Pro Series

TITAN HD-600 • TITAN HD-500 • TITAN XG-500



## PERFORMANCE SPECIFICATIONS

### Brightness (±10%)

XG-500: 4,500 ANSI Lumens  
HD-500: 4,500 ANSI Lumens  
HD-600: 8,000 ANSI Lumens

### Contrast Ratio (±10%)

XG: >1200:1  
HD: 1800:1

### Display Type

3 x .95" Dark Metal DMD with Fast Transit Pixels for smooth greyscale and improved contrast

### DMD Specification

HD: 0.8" 1280 x 720 pixels native  
XG: 0.7" 1024 x 768 pixels native

### Fill Factor

90%

### Sealed Optics at DMD™ Interface

Protects DMD's™ from optical contamination

### Source Compatibility

- Composite, s-video, and color difference video standards up to 1080i
- RGB graphics standards up to 1920 x 1080
- DVI standards
- High definition RGB and color difference standards
- High definition / standard definition digital formats

### Video Processing

- 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

### Network Connection

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

### Lamp Type

HD/XG-500: Twin High Intensity Discharge module (2 x 250W lamps)  
HD-600: Dual High Intensity Discharge modules (2 x 300W lamps)

### Lamp Life (typical)<sup>1</sup>

HD/XG 500: 1500 hours dual lamp mode, 3000 hours single lamp mode  
HD-600: 2000 hours dual lamp mode, 4000 hours single lamp mode

### Lens Mount

**Zoom:** Motorized horizontal and vertical lens shift, zoom and focus.

### Lens Shift (maximum)

Fixed lenses on HD: On axis only  
Fixed lenses on XG:

Vert: ±0.16 frame; Hor: ±0.1 frame

### Zoom lenses on HD:

Vert: +0.5, -0.16 frame; Hor: ±0.1 frame

### Zoom lenses on XG:

Vert: +0.5, -0.16 frame; Hor: ±0.25

### Lens Options

HD:	XG:
0.64 :1 fixed	0.8 :1 fixed
0.96 :1 fixed	1.2 :1 fixed
1.2-1.44 :1 zoom	1.5-1.8 :1 zoom
1.44-1.8 :1 zoom	1.8-2.25 :1 zoom
1.8-2.4 :1 zoom	2.25-3.0 :1 zoom
2.4-3.6 :1 zoom	3.0-4.5 :1 zoom
3.6-5.6 :1 zoom	4.5-7.0 :1 zoom

### Mechanical Mounting

- Front or rear table; Front or rear ceiling (ceiling mount optional)
- Rugged, staging tolerant chassis with integrated handles
- Optional rigging / stacking frame with integrated pitch, roll and yaw adjustments

### Weight (chassis only)

HD/XG-500: 53 lbs (24 kg)  
HD-600: 60 lbs (27kg)

## Overview

Digital Projection International (DPI), Texas Instruments' first DLP™ partner and the original innovator of the 3-chip DLP™ projector, proudly introduces the newest and smallest of our Professional Series displays, the TITAN HD-500, HD-600 and XG-500.

Weighing as little as 53 lbs. (24 kg.), the twin-lamp TITAN XG-500, TITAN HD-500 and dual lamp HD-600 employ the latest in Texas Instruments' 720p & XGA dark metal, 3-chip DLP™ technology to deliver up to 8000 lumens and 1800:1 contrast. Compact, robustly built and ultra-quiet for their performance class, the TITANs are unmatched solutions for, command and control, visualization, business, and educational venues. For staging, TITANs can be ordered with DP's RapidRig flying and stacking frame, which provides integrated pitch, roll and yaw adjustments, simplifying installation and alignment accuracy.

Other key benefits of the TITAN HD and XG models include:

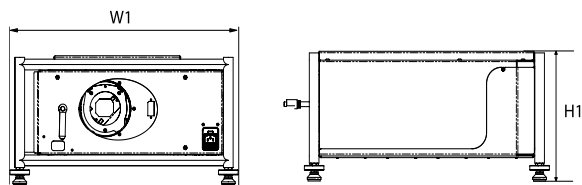
- DP's NextGen electronics, featuring class leading motion-adaptive interpolation as well as state-of-the-art video de-interlacing. SD and HD sources are processed using auto 3:2 and 2:2 extraction.
- Minimal video delay from input to screen - as low as 1 frame, depending on source
- Sealed optics to protect DMD's and other focal plane components from airborne contaminants
- Six user-selectable inputs, including HDCP compliant DVI
- Twin (HD, XG 500) or Dual (HD-600) high intensity discharge lamps, which can be run individually or simultaneously, with a typical life of 1500 hours per lamp
- DP's CoolTek engineering, which delivers the highest lumen performance with the lowest thermal (BTU) and noise level (dB) output.

The TITAN HD-500, HD-600 and XG-500, DPI's first Pro Series displays priced and sized for every venue and everyday use - bringing the precision of Digital Projection to your venue.

## INPUT CAPABILITIES

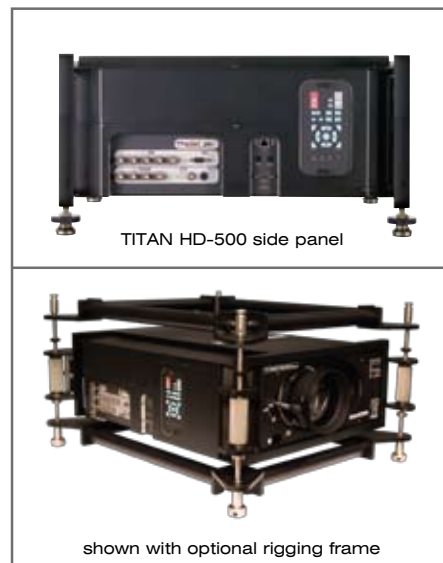
Type	Connector	Quantity
Composite	BNC	1
S-Video	4-pin mini DIN	1
Component Interlaced/Std def Y, Cr/Pr, Cb/Pb, S	BNCx4	1
Graphics Progressive RGB/Progressive Interlaced Hi def Y, Cr/Pr, Cb/PB	BNCx5	1
RGBHV (Progressive)	D sub (15-pin)	1
Digital RGB	DVI	1

# TITAN Pro Series



Projector Dimensions

500 Series				600 Series			
Projector dimensions (in)				Projector dimensions (in)			
L1 22.1	W1 20.7	H1 10		L1 26	W1 21.5	H1 10	
Projector dimensions (mm)				Projector dimensions (mm)			
L1 561	W1 525	H1 254		L1 646	W1 544	H1 254	



## ADVANCED TECHNICAL SPECIFICATIONS

PARAMETERS	TITAN HD-500	TITAN XG-500	TITAN HD-600
Native Color Temperature	7500°K ±1000°K; white balance-adjustment: 3000°K to 10000°K		
HDTV Formats Supported	1080i (50Hz, 60Hz), 1080p (24Hz, 25Hz, 30Hz, 50Hz, 60Hz), 1080 24sf, 720p (50, 60Hz), 480i, 480p		
Scan Rates Supported	Horizontal: 15kHz to 100kHz / Vertical: 24Hz to 85Hz		
Remote Control	Addressable IR remote control, wireless and wired with loop-through / On board invertable keypad		
Automation Control	LAN connection via RJ45 / RS232 9-pin D type		
Operating/Storage Temperature	Operating: 0 to 40°C / Storage: -10 to 50°C /		
Operating Humidity	20 to 80% non-condensing		
Thermal Dissipation	2,600 BTU/hr		2,900 BTU/hr
Fan Noise	Less than 42dBA		
Power Requirements	100-240 VAC ±10%, 50/60Hz single phase		
Power Consumption	750 watts		850 watts maximum

### Projectors

TITAN XG-500	106-239
TITAN HD-500	105-948
TITAN HD-600	107-693

### Part #

106-239
105-948
107-693

### XG Lenses

0.8:1
1.2:1
1.5 - 1.8:1
1.8 - 2.25:1
2.25 - 3.0:1
3.0 - 4.5:1
4.5 - 7.0:1

### HD Lenses

0.64:1
0.96:1
1.2 - 1.44:1
1.44 - 1.8:1
1.8 - 2.4:1
2.4 - 3.6:1
3.6 - 5.6:1

### HB Part #

001-734
001-735
001-736
001-737
001-738
001-739
001-740

### HC Part#

102-373
102-835
102-374
102-375
102-376
102-377
102-378

### Accessories

Twin 250 Watt Lamp & Housing	001-742
300 Watt Lamp & Housing* (2 required)	107-694
300 Watt Lamp & Housing* (2-pack)	107-695
RapidRig™ Frame	107-956
TITAN Adjustable Ceiling Mount (250/500)	105-021
TITAN Adjustable Ceiling Mount (600/Reference)	108-499
Infrared Remote (Replacement)	105-023

\* Includes high-performance replacement air filter

<sup>1</sup> 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.

