

# TITAN Pro Series II

TITAN SX+ 500 • TITAN SX+ 700



## PERFORMANCE SPECIFICATIONS

### Brightness (±10%)

SX+ 500: 6,000 ANSI Lumens  
SX+ 700: 11,000 ANSI Lumens

### Contrast Ratio (±10%)

2000:1

### Display Type

3 x Dark Chip DMD™ with Fast Transit Pixels for smooth greyscale and improved contrast

### DMD Specification

1400 x 1050 pixels native, 12° tilt angle

### 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 serial digital formats (SD/HD-SDI)

### Video Processing

- Enhanced 7 point color correction
- Xenon Color Mode - User selectable notch filter and xenon-color mode processing, enable the projector to closely 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

### Network Connection

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

### Lamp Type

SX+ 500: Twin High Intensity Discharge module (2 x 250W lamps)  
SX+ 700: Dual HID modules (2 x 350W)

### Lamp Life (typical)†

SX+ 500: 1500 hours dual lamp mode, 3000 hours single lamp mode  
SX+ 700: 2000 hours / 4000 hours

### Lens Mount

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

**Fixed:** Manual Focus.

### Lens Shift (maximum)

Zoom Lenses & 1.2:1 Fixed:  
Vert: +0.5, -0.4 frame  
Hor: ±0.2 frame  
0.73 Fixed lens:  
Vert: ±0.11 frame; Hor: ±0.07 frame

### Lens Options

0.73 :1 fixed  
1.2 :1 fixed (1.2-2.0m throw)  
1.2 :1 fixed (3-15m throw)  
1.5-2.02 :1 zoom  
2.02-2.77 :1 zoom  
2.77-4.51 :1 zoom  
4.51-7.53 :1 zoom  
• 1.2:1 Lenses include manual aperture  
• High-contrast lenses available for 0.73:1 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 rigging / stacking frame with integrated pitch, roll and yaw adjustments

### Weight (chassis only)

SX+ 500: 59.5 lbs (27 kg)  
SX+ 700: 68 lbs (31kg)

## 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 Pro Series II displays, the TITAN sx+ 500 and sx+ 700.

Weighing in at just 59.5 and 68 lbs., the twin-lamp TITAN sx+ 500 and dual lamp sx+ 700 employ the latest in Texas Instruments' SXGA+ dark chip, 3-chip DLP™ technology to deliver up to 11,000 ANSI lumens and 2000:1 contrast. Compact, robustly built and ultra-quiet for their performance class, the TITANs are unmatched solutions for staging, command and control, visualization, business, and educational venues. For staging, the TITAN 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 sx+ series include:

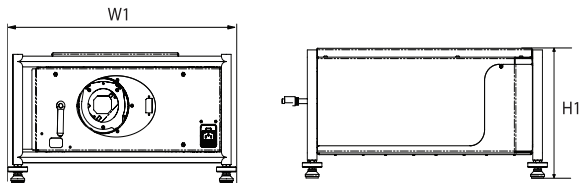
- DP's *NextGen* electronics, featuring class leading de-interlacing with SD and HD sources processed using auto 3:2 and 2:2 extraction
- Minimal video delay from input to screen - as low as 1 frame, depending on source
- Sealed optics to protect DMD's and other focal plane components from airborne contaminants
- Seven user-selectable inputs, including HDCP compliant DVI and SD/HD-SDI
- ColorMax™ calibration capabilities including enhanced seven-point color correction for broader color space and accurate color alignment
- User selectable Xenon-color mode processing, which enables the projector to closely replicate the spectral performance of a Xenon lamp
- Twin (sx+ 500) or Dual (sx+ 600M and sx+ 700) high intensity discharge lamps, which can be run individually or simultaneously, with a typical life of up to 2000 hours per lamp
- A range of precision optics with extended lens shift, compatible with all TITAN and LIGHTNING sx+ and 1080p models
- DP's CoolTek™ engineering, which delivers the highest lumen performance with the lowest thermal (BTU) and noise level (dB) output.

The TITAN sx+ 500 and sx+ 700 Pro-series II displays are priced and sized for every venue and everyday use - bringing the precision of Digital Projection to your venue.

## INPUT CAPABILITIES

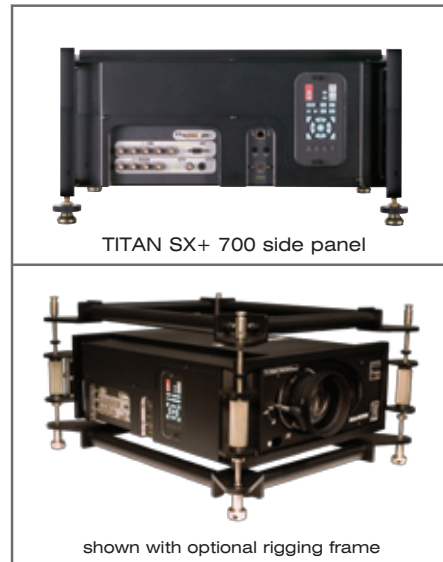
Type	Connector	Quantity
Composite	BNC	1
S-Video	4-pin mini DIN	1
Component Interlaced/Std def Y, Cr/Pr, Cb/Pb, S	BNCx4	1
Graphics Progressive RGB/Progressive Interlaced Hi def Y, Cr/Pr, Cb/PB	BNCx5	1
RGBHV (Progressive)	D sub (15-pin)	1
Digital RGB	DVI	1
Serial Digital SD/HD-SDI (SMPTE 259M/292M)	BNC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

# TITAN Pro Series II



Projector Dimensions

500 Series			700 Series		
Projector dimensions (in)			Projector dimensions (in)		
L1 22.1	W1 20.7	H1 10	L1 25.4	W1 21.4	H1 10
Projector dimensions (mm)			Projector dimensions (mm)		
L1 561	W1 525	H1 254	L1 645.4	W1 543.5	H1 253.5



TITAN SX+ 700 side panel

shown with optional rigging frame

## ADVANCED TECHNICAL SPECIFICATIONS

PARAMETERS	TITAN SX+ 500	TITAN SX+ 700
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	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 {400}	Less than 45dBA {500}
Power Requirements	100-240 VAC ±10%, 50/60Hz single phase	
Power Consumption	750 watts maximum	950 watts maximum

### Projectors

TITAN SX+ 500  
TITAN SX+ 700

### Part #

104-850  
108-770

### Accessories

Twin 250 Watt Lamp & Housing (500 Series)  
300 Watt Lamp & Housing\* (2 required - 600M Series)  
350 Watt Lamp & Housing\* (2 required - 700 Series)  
RapidRig™ Frame  
TITAN 500 Series Adjustable Ceiling Mount  
TITAN 700 Series Adjustable Ceiling Mount  
Infrared Remote (Replacement)  
\* Includes high-performance replacement air filter

### Part #

001-742  
107-694  
108-772  
107-956  
105-021  
108-499  
105-023

### Lenses

0.73:1  
1.2:1  
1.2:1 (short)  
1.5 - 2.02:1  
2.02 - 2.77:1  
2.77 - 4.51:1  
4.51 - 7.53:1

### HB Part #

105-607  
105-608  
105-609  
105-610  
105-611  
105-612  
105-613

<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. Installations requiring horizontal or vertical tilt orientations greater than 15 degrees may reduce the actual operational hours of one of the two lamps.

