

TITAN Pro Series II

TITAN SX+ 500 • TITAN SX+ 600M • TITAN SX+ 700



PERFORMANCE SPECIFICATIONS

Brightness (±10%)

SX+ 500: 6,000 ANSI Lumens
SX+ 600M: 8,500 ANSI Lumens
SX+ 700: 11,000 ANSI Lumens

Contrast Ratio (±10%)

2000:1

Display Type

3 x Dark Metal 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+ 600M: Dual HID modules (2 x 300W)
SX+ 700: Dual HID modules (2 x 350W)

Lamp Life (typical)

SX+ 500: 1500 hours dual lamp mode, 3000 hours single lamp mode
SX+ 600M: 2000 hours / 4000 hours
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+ 600M/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, sx+ 600M and sx+ 700.

Weighing in at just 59.5 and 68 lbs., the twin-lamp TITAN sx+ 500 and dual lamp sx+ 600M and sx+ 700 employ the latest in Texas Instruments' SXGA+ dark metal, 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:

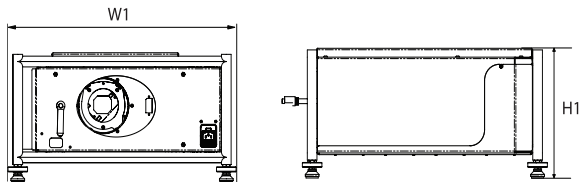
- DP's *NextGen* electronics, featuring class leading de-interlacing with SD and HD sources processed using auto 3:2 and 2:2 extraction
- Minimal video delay from input to screen - as low as 1 frame, depending on source
- Sealed optics to protect DMD's and other focal plane components from airborne contaminants
- 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, sx+ 600M 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

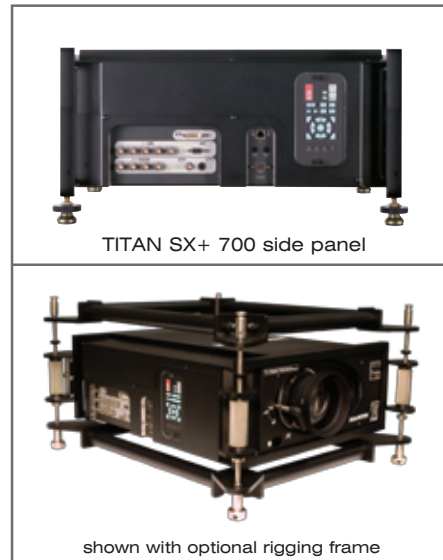
Type	Connector	Quantity
Composite	BNC	1
S-Video	4-pin mini DIN	1
Component Interlaced/Std def Y, Cr/Pr, Cb/Pb, S	BNCx4	1
Graphics Progressive RGB/Progressive Interlaced Hi def Y, Cr/Pr, Cb/PB	BNCx5	1
RGBHV (Progressive)	D sub (15-pin)	1
Digital RGB	DVI	1
Serial Digital SD/HD-SDI (SMPTE 259M/292M)	BNC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

TITAN Pro Series II



Projector Dimensions

500 Series			600M/700 Series				
Projector dimensions (in)	L1 22.1	W1 20.7	H1 10	Projector dimensions (in)	L1 26	W1 21.5	H1 10
Projector dimensions (mm)	L1 561	W1 525	H1 254	Projector dimensions (mm)	L1 646	W1 544	H1 254



ADVANCED TECHNICAL SPECIFICATIONS

PARAMETERS	TITAN SX+ 500	TITAN SX+ 600M	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	850 watts maximum	950 watts maximum

Projectors

TITAN SX+ 500	104-850
TITAN SX+ 600M	108-715
TITAN SX+ 700	108-770

Part

104-850
108-715
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 600M/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	105-607
1.2:1	105-608
1.2:1 (short)	105-609
1.5 - 2.02:1	105-610
2.02 - 2.77:1	105-611
2.77 - 4.51:1	105-612
4.51 - 7.53:1	105-613

HB Part

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

¹ 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.

