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)[1]
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		
0.96	:1 fixed	0.8	:1 fixed
1.2-1.44	:1 zoom	1.2	:1 fixed
1.44-1.8	:1 zoom	1.5-1.8	:1 zoom
1.8-2.4	:1 zoom	1.8-2.25	:1 zoom
2.4-3.6	:1 zoom	2.25-3.0	:1 zoom
3.6-5.6	:1 zoom	3.0-4.5	: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.

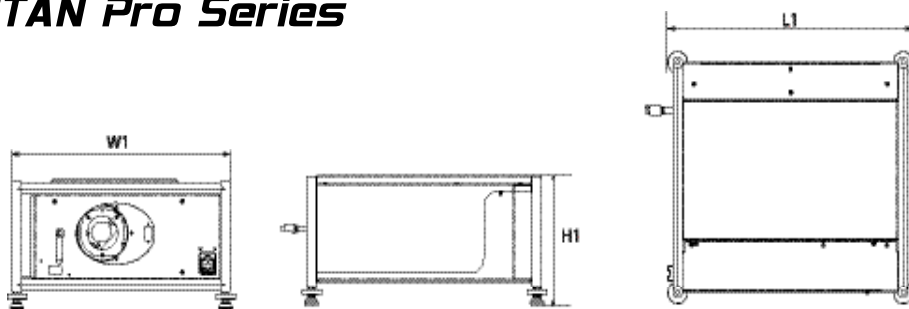Other key benefits of the TITAN HD and XG models include:
• DP's NextGen electronics, featuring class leading motion-adaptive interpolation as well as state-of-the-art video de-interlacing. SD and HD sources are processed using auto 3:2 and 2:2 extraction.
• Minimal video delay from input to screen - 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
Projector dimensions (in)
L1 22.1   W1 20.7   H1 10
Projector dimensions (mm)
L1 560.5   W1 525   H1 253.5

600 Series
Projector dimensions (in)
L1 26   W1 21.5   H1 10
Projector dimensions (mm)
L1 661.23   W1 547   H1 253.5

TITAN HD-500 side panel
Shown without optional rigging / stacking frame

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. 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	
Power Requirements	100-240 VAC ±10%, 50/60Hz single phase	
Power Consumption	750 watts	850 watts maximum

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

XG Lenses	HD Lenses	HB Part #	HC Part#
0.8:1	0.64:1	001-734	102-373
1.2:1	0.96:1	001-735	102-835
1.5 -1.8:1	1.2 - 1.44:1	001-736	102-374
1.8 - 2.25:1	1.44 - 1.8:1	001-737	102-375
2.25 - 3.0:1	1.8 - 2.4:1	001-738	102-376
3.0 - 4.5:1	2.4 - 3.6:1	001-739	102-377
4.5 - 7.0:1	3.6 - 5.6:1	001-740	102-378

Accessories	Part #
Twin 250 Watt Lamp & Housing	001-742
300 Watt Lamp & Housing* (2 required)	107-694
300 Watt Lamp & Housing* (twin pack)	107-695
RapidRig™ Frame	104-623
TITAN Adjustable Ceiling Mount	105-021
Infrared Remote (Replacement)	105-023

* Includes high-performance replacement air filter

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.