



PERFORMANCE SPECIFICATIONS

Brightness (±10%)

18000 Center Lumens
16000 ANSI Lumens

Contrast Ratio (±10%)

2000:1

Display Type

3 x .95" 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

87%

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 2048 x 1080
- DVI standards
- High definition RGB and color difference standards
- High definition serial digital formats

Video Processing

- Enhanced 7 point color correction
- 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, full protocol feature set

Lamp Type

Proprietary xenon arc, bubble. Hyper-cooled lamp module with directional-flow reflector mask and radial heat exchanger. Digital Hour meter.

Lamp Life

750 hours (typical)

Lens Mount

Intelligent, programmable lens functionality. Motorized horizontal and vertical lens shift, zoom and focus. 1/4 pixel landing accuracy.

Lens Shift (maximum)

Zoom lenses:
Vert: ±0.44 frame; Hor: ±0.285 frame

Fixed lenses:

Vert: ±0.09 frame; Hor: ±0.05 frame

Lens Options

- 1.46 :1 fixed
- 1.83-2.1 :1 zoom
- 2.1-2.63 :1 zoom
- 2.63-3.2 :1 zoom
- 3.2-4.4 :1 zoom
- 4.4-6.25 :1 zoom

Mechanical Mounting

Floor or ceiling. Integrated handles and rigging frame with pitch and roll adjustments, flexible stacking/rigging points. Rugged, stager tolerant chassis.

Orientation

360° front to back
±15° left to right

Dimensions (excludes feet)

43.2in(L) x 28.4in(W) x 17.1in(H)
1097mm(L) x 721mm(W) x 434mm(H)

Weight (chassis only)

249lbs (113kg)

Digital Projection International (DPI), Texas Instruments' first DLP™ partner and the original innovator of the 3-chip DLP™ projector, proudly introduces the LIGHTNING 30sx+. Based on the same rugged, mechanically capable chassis as the LIGHTNING 35HD, the 30sx+ employs the latest in dark metal, 3-chip DLP™ technology, and includes DPI's exceptional rigging and stacking hardware with integrated pitch and roll adjustments. When considered along with its 16000 ANSI lumen brightness and 2000:1 contrast performance, the 30sx+ is ideally suited for the most challenging staging and large-venue permanent installations in the world.

The LIGHTNING 30sx+ also incorporates DPI's new Hyper-Cooled lamp module. Engineered with a proprietary, directional-flow reflector mask and radial heat exchanger, the hyper-cooled module dramatically improves projector thermal characteristics and extends reflector life and lumen maintenance. In turn, these operating benefits provide a significant reduction to the long-term cost of ownership, while also enhancing component reliability.

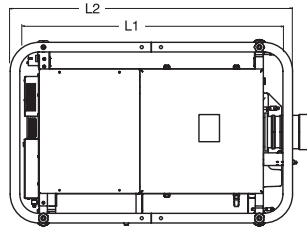
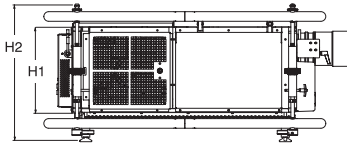
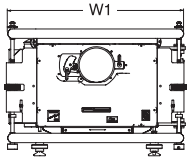
Other key benefits of the LIGHTNING 30sx+ include:

- 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-point color correction for broader color space and accurate color alignment

The LIGHTNING 30sx+ - an ultra-powerful display system for major events and applications - bringing the precision of Digital Projection to every venue.

INPUT/OUTPUT CAPABILITIES

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



Projector dimensions (in)
W1 28.4 H1 17.1 L1 43.2


Projector dimensions (mm)
W1 721 H1 434 L1 1097

Frame dimensions (in)
W1 28.4 H2 18.7 L2 43.4

Frame dimensions (mm)
W1 721 H2 475 L2 1103



ADVANCED TECHNICAL SPECIFICATIONS

PARAMETER	
Native Color Temperature	6000°K ±500°K; white balance-adjustment: 3000°K to 10000°K
HDTV Formats Supported	1080i, 1080p, 720p, 480i, 480p (SMPTE 259M, 260M, 295M, 274M, 296M, RP211)
Scan Rates Supported	Horizontal: 15kHz to 100kHz / Vertical: 24Hz to 120Hz
Remote Control	Addressable IR remote control, wireless and wired with loop-through On board invertable keypad
Automation Control	RS232 9-pin D type / LAN connection via RJ45
Operating/Storage Temperature	Operating: 0 to 35°C / Storage: -10 to 50°C
Operating Humidity	20 to 80% non-condensing
Thermal Dissipation	13640 BTU
Fan Noise	Less than 59dBA
Power Requirements	200-240 VAC ±10%, 50/60Hz single phase
Power Consumption	4000 Watts

PROJECTOR	PART NO.	LENSES	PART NO.	ACCESSORIES	PART NO.
LIGHTNING 30sx+	103-760	1.46 :1 fixed	103-350	Lamp module 3kW - hyper cooled	103-238
		1.83.-2.1 :1 zoom	103-351	Remote control unit (IR & cable)	105-023
		2.1-2.63 :1 zoom	102-451		
		2.63-3.2 :1 zoom	102-676		
		3.2-4.4 :1 zoom	102-677		
		4.4-6.25 :1 zoom	102-678		

