



35HD-T and MMS 1000





PROJECTOR PERFORMANCE SPECIFICATIONS

Brightness (±10%) 18,000 Center lumens 16,000 ANSI lumens

Contrast Ratio (±10%) 1600:1 full-field

Display Type (one per R, G, B) 3 x 1.26" dark metal HPO DMD™

DMD Specification

2048 x 1080 pixels native, 12° tilt angle

Fill factor

90% pixel fill factor

Sealed Optics at DMD Interface

Protects DMD's from optical contamination

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 (typical, dependent on lens)

Vertical: ± 0.25-0.5 frame Horizontal: ± 0.1-0.25 frame

Lens Options

1.0 :1 fixed 1.8-2.4 :1 zoom 1.25-1.45:1 zoom 2.2-3.0 :1 zoom 1.45-1.8 :1 zoom 3.0-4.3 :1 zoom

Control

Rear touch screen with "ShowMode" diagnostics - provides direct control and feedback over projector functions. Wireless LAN "802.11b", LAN and RS232

Mechanical Mounting

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

Orientation

 360° front to back $\pm 15^{\circ}$ left to right

Dimensions (excludes feet)

43.4in(L) x 28.4in(W) x 18.7in(H) 1103mm(L) x 721mm(W) x 475mm(H)

Weight (chassis only)

249lbs (113kg)

Digital Projection International, the original innovator of the 3-chip DLP™ projector, proudly introduces the LIGHTNING 35HD-T Pro Series Display.

The 35HD-T carries forward all of the benefits of the Professional Series LIGHTNING Chassis - exceptional rigging and stacking hardware with integrated pitch and roll adjustments - while also delivering the enhanced benefits of active 3D capability, extended color depth and improved lumen maintenance.

Additional benefits of the LIGHTNING 35HD-T include:

- Active 3D compatibility up to 2K resolution
- Accepts sources up to 12 bits per color (R, G & B) through twin-dual DVI input.
- Sealed optics to protect DMD's and other focal plane components from airborne contaminants
- DPI's new, hyper-cooled lamp module with digital hour meter, dramatically improves projector thermal characteristics and extends reflector life and lumen maintenance.

When paired with the MMS 1000, the LIGHTNING 35HD-T can support any video, HD or computer source. The rack-mountable system includes DigiLink, a single-link DVI and twin-link DVI ultra-high bandwidth digital output to the projector, simplifying system wiring and reducing installation costs. The MMS 1000 also includes soft-edge blend and can be configured to incorporate options such as seamless switching and geometric warp.

The new LIGHTNING 35HD-T and MMS 1000 - an ultra powerful, immensely capable display for visualization, major events and color-critical applications - bringing the precision of Digital Projection, to the world's most demanding venues.

MULTI-MEDIA SWITCHER 1000 SPECIFICATIONS

Input capabilities-see table lower right

Video Processina

10-bit processing from video input to output DigiScale - accurate image resizing for faithful reproduction of all displayed sources DigiVlew - optimized video processing, deinterlacing and 3:2 pull-down

Edge Blending

DigiBlend - edge blending for tiling of multiple projected images

Geometry

DigiWarp (optional) - user definable control over all image geometry. Horizontal/vertical and keystone warp correction for both cylindrical and spherical displays

Interface To Projector Via DigiLink

High-bandwidth digital link extendable by rugged fibre optic cable providing optically-isolated interconnection - offering significant benefit to staging and installation customers by reducing cable complexity and signal interference due to grounding

Control

Front panel LCD, IR/Hardwired remote control, external control via RS232/422, USB or LAN

PC Card Slot

Wireless LAN, data download

Dimensions

Five RU 19" rack mountable 17.7in(L) x 19in(W) x 8.7in(H) 450mm(L) x 483mm(W) x 221mm(H)

► Specifications subject to change without notice DP V4.06/05 ©2005 Digital Projection, Inc. **DLP, Digital Light Processing and DMD are trademarks of Texas Instruments, Inc.

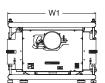
INPUT CAPABILITIES

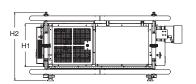
Туре	Connector	Quantity
Projector input:1		
Single DVI wth loop through	DVI-D	
(receives up to 8 bits per color (R,G,B)	at up to 2048x108	30 at 60Hz)
Twin Dual DVI - MAIN + SUB	DVI-Dx2	1
(receives up to 12 bits per color (R,G,E	3) at up to 2048x10	080 at 110Hz
MMS 1000 input/output:		
Four available input slots:		
standard modules: ²		
Composite / component video / S-video input module (mm-video)	BNCx1,BNCx3, 4-pin mini DIN	1 each
RGB HV / component input module (MM-RGB)	BNCx5	
optional modules:		
DVI-D input module (MM-DVI)	DVI-D	
SD-SDI / HD-SDI input module (MM-SDI)	BNCx2	1
Output:		
DigiLink	DVI-D	1

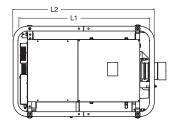
¹ Input selection is automatic but is prioritised to the MAIN+SUB input. Selection is by detection of DVI signal.

² See MMS 1000 user manual for detailed input specifications

LIGHTNING 35HD-T







Projector dimensions (in) W1 28.4 H1 17.1 L1 43.2

Frame dimensions (in) W1 28.4 H2 18.7 L2 43.4 Projector dimensions (mm) W1 721 H1 434 L1 1097

Frame dimensions (mm) W1 721 H2 475 L2 1103





ADVANCED TECHNICAL SPECIFICATIONS

PARAMETER	LIGHTNING 35HD-T	Multi-Media 5 witcher 1000			
Color Temperature	3000-9300°K	NA			
HDTV Formats Supported	All progressive formats	1080i/24p, 720p, 480p and other current and emerging formats			
Scan Rates Supported	All progressive formats Horizontal: 31.5kHZ to 105kHZ / Vertical: 24Hz to 120Hz	Horizontal: 15kHz to 105kHz / Vertical: 24Hz to 110Hz			
Remote Control	Secure wireless LAN "802.11b"	Infrared Remote, Secure 802.11b wireless LAN compatible			
Automation Control	Secure wireless LAN "802.11b" LAN, RS232	RS232, USB, LAN			
Operating/Storage Temperature	Operating: 10 to 35°C / Storage: -10 to 50°C	Operating: 10 to 35°C / Storage: -20 to 60°C			
Operating Humidity	up to 80% non-condensing				
Thermal Dissipation	13640 BTU	1023 BTU maximum			
Fan Noise	Less than 59dBA	NA			
Power Requirements	200-240 VAC, 50/60Hz single phase	100-240 VAC, 50/60Hz single phase			
Power Consumption	4000 watts 300 watts maximum				

PROJECTOR PART NO.	LENSES	PART NO.	OPTIONAL SYSTEM COMPONENTS	PART NO.
LIGHTNING 35HD-T 105-033	1.0 :1 fixed 1.25-1.45:1 zoom 1.45-1.8 :1 zoom 1.8-2.4 :1 zoom 2.2-3.0 :1 zoom	103-350 103-351 102-451 102-676 102-677	Replacement Lamp Module MMS 1000 Input cards: - Composite / component / S-Video input module (MM-Video) - RGB HV / component input module (MM-RGB)	103-238 001-724 001-726 001-722 001-721
1 See Digital Projection's Product Warranty Statement for		102-678	- DVI-D input module (MM-DVI) - SD-SDI / HD-SDI input module (MM-SDI) Processing options: - Seamless switching / crossfade:2 • Scaler • Image processor - Geometry / Warp ³ - Wireless LAN card	001-729 001-730 001-727 001-723

- See Digital Projection's Product Warranty Statement for details on lamp warranty
 Seamless switching requires the addition of two cards (image processor / scaler) which must be factory installed
 Geometry / warp is available only as a factory installed option