



The Apogee/THX® Motion Picture Theater System One (MPTS-1), designed by the THX division of LucasArts Entertainment, is licensed by THX for post production facilities, dubbing stages, film and video screening rooms and small cinemas. Manufactured by Apogee Sound to exacting standards, the MPTS-1 represents the state-of-the-art in film and video sound systems. Facilities incorporating the MPTS-1 system may also qualify for THX certification pending review of the rooms acoustic parameters.

Incorporating a sophisticated twelve output processor, the tri-amped system is accurate and linear for professional use while capable of breathtaking realism and dramatic impact for an unparalleled entertainment experience.

Consisting of three main channels (left-center-right), an extended range subwoofer and four surround loudspeakers, the system can be installed with only 18" of available depth behind the screen (an important consideration for maximum utilization of available space). Each of the three main channels consists of two enclosures; one housing the woofer and one for the mid-range and high-frequency components. This design, which incorporates an adjustable bracket with precise pan and tilt of the mid-high enclosure, simplifies installation and insures proper placement of the mid-high enclosures for best localization and uniform coverage of the listening environment. The system is designed for flush mounting in a $2-\pi$ boundary baffle.

Featuring remote selection of the industry standard ISO 2969 "X" curve for film mixing, high frequency compensation for screen loss (individually selectable for each of the three main channels); and an exceptionally well engineered high fidelity signal path with the highest quality components, the MPTS-1 processor provides crossovers, time domain alignment and equalization perfectly matched to the loudspeaker system.

MPTS-1

MOTION PICTURE
THEATER SYSTEM

- Electronically-Coupled Tri-amped Design
- Very Wide Frequency Response (20Hz—18kHz)
- Remote Switch Accommodates Mixdown for Film ("X" Curve) or Video/Music Signals (flat)
- 24 dB/Octave Linear-Phase Crossovers

APPLICATIONS

- ◆ Screening Rooms (Film & Video)
- ◆ Dubbing Stages
- ◆ Small Cinemas
- ◆ Audio/Visual & Multi-Image
- ◆ Boardrooms

APOGEE
SOUND INTERNATIONAL, LLC

MPTS-1 PROCESSOR

MPTS-1 PROCESSOR — FRONT VIEW



The MPTS-1 processor is designed for use in cinema applications, where the signal is derived from a cinema processor or video transfer applications where the front-end device is a surround sound decoder.

MPTS-1 PROCESSOR — BACK VIEW



ELECTRONIC SYSTEM CONTROL

The advanced technology of the Apogee/THX® MPTS-1 processor enables the loudspeakers to perform with improved linearity, lower distortion and wider response than is possible with conventional loudspeaker designs.

The MPTS-1 processor is a single rack-space unit designed to meet the requirements of permanent system installers and operators. It includes active equalization with both cinema and video EQ circuits, screen loss compensation, time and frequency domain correction and 4th order frequency dividing networks. Each channel is tri-amped sharing a common subwoofer output, and a precision front end utilizing factory matched components for high Common Mode Rejection.

THX CERTIFICATION

THX offers a certification program for your room or theater that will allow the use of the THX trademark in advertising and THX trailers on screen. Each THX facility must be licensed, tested and certified by LucasArts Entertainment Company, a subsidiary of Lucasfilm Ltd. The MPTS-1 system, if it is to be used in a THX certified room, must be installed utilizing certain criteria, preferably well before construction. For a complete list of THX certification program requirements, please contact Apogee Sound, Inc.

Options/Accessories include: Cables, Baffle.

MPTS-1 LOUDSPEAKER SYSTEM

ENCLOSURE TYPES	Horn loaded tweeter, direct radiator mid-range, optimally vented bass, optimally vented subwoofer
FORMAT	Quad-amped, electronically-coupled
DRIVER COMPLEMENT	S-1 SUBWOOFER Dual Apogee DD1202, 12" (300 mm) cone Nominal Impedance 8 ohms each driver L-1 WOOFER One Per Screen Channel: One Apogee DD1202, 12" (300 mm) cone - Nominal Impedance 8 ohms MH-1 Mid/High Cabinet One per Screen Channel: Mid Frequency Dual Apogee CD103, 5" (125mm) cone Nominal Impedance 8 ohms each driver High Frequency Apogee CD201, 2" (50 mm) compression driver Nominal Impedance 8 ohms Surround Cabinets Minimum four per system
FREQUENCY RESPONSE	20 Hz - 18 kHz ± 3 dB, 1 meter on axis
SOUND PRESSURE LEVEL ¹	118 dB continuous, 124 dB peak @ 1 meter
MAX POWER HANDLING ²	(S-1/L-1/MH-1, Mid/High) 400/120/80/70 watts continuous (S-1/L-1/MH-1, Mid/High) 1600/480/240/280 watts peak
DISPERSION ³	Horizontal — 60 degrees, Vertical — 40 degrees
INPUT CONNECTORS	Gas-tight barrier strip
RIGGING HARDWARE	MH-1 12 gauge steel nutplates on either side backed with steel reinforcing brackets—accepts $\frac{1}{8}$ " 16 threaded fastener
DIMENSIONS	S-1 31" (787 mm) wide by 22" (559 mm) high by 16" (406 mm) deep - L-1 16.5" (419 mm) wide by 22.5" (572 mm) high by 15" (381 mm) deep - MH-1 11" (279 mm) wide by 24.5" (622 mm) high by 15" (381 mm) deep
WEIGHT	S-1 70lbs. (31.7kg) L-1 40lbs. (18.1kg) MH-1 60lbs. (27.2kg)

MPTS-1 PROCESSOR

INPUTS	10k ohm differential
OUTPUTS	10 ohm single ended
HUM AND NOISE	Better than -90 dBV
DYNAMIC RANGE	110 dB
LINE VOLTAGE	Switchable — 100, 125, 220, 240 VAC, 50/60 Hz
DIMENSIONS	19" (483 mm) wide by 1.75" (45 mm) high (1 EIU rack space) by 11.75" (299 mm) deep
WEIGHT	12 lbs. (5.5 kg)

Specifications subject to change without notice

¹ Measured at rated MAX POWER HANDLING

² EIA Standard RS-426A, eight hours

³ 6 dB down points

LIMITED WARRANTY

Apogee Sound Inc. products, when sold domestically, are guaranteed for a period of one year from the date of the original purchase against malfunctions due to defects in materials and workmanship. If such a malfunction occurs, the product will be repaired or replaced at our option, without charge, if delivered prepaid to the factory. Product will be returned prepaid via ground transport. Please see Engineering Data Sheet for other terms and conditions.

For detailed technical information refer to the MPTS-1 Engineering Data Sheet.

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