

KPT-MCM-II

4-WAY FULLY HORN-LOADED BEHIND THE SCREEN CINEMA SYSTEM



Klipsch®

KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET



RECOMMENDED USE



UP TO 600 SEATS (approximately 9000 ft² or 836 m²)

PRODUCT OVERVIEW

The first and only full horn-loaded, THX® approved 4-way cinema system, the KPT-MCM-II Grand affords the ultimate in audio performance for larger exhibition spaces and, in particular, those grand auditoriums fitted with digital sound reproduction equipment.

The highs, mids, mid-bass and low-bass frequencies are all delivered by no-compromise, high efficiency horns that further lower distortion levels and increase dialog intelligibility.

The MCM Grand is ultra-efficient and, in correct multi-channel configuration, can yield absolutely even sound coverage to every seat in the house. It represents the ultimate in sound quality for the world's largest and finest theaters.

Pair with a Klipsch **KPT-1802-HLS** horn-loaded subwoofer for the world's first and only fully horn-loaded cinema front stage!

DESIGNED AND MADE IN THE USA

USING DOMESTIC AND IMPORTED COMPONENTS

In 1946, Paul W Klipsch, genius & maverick, hand-built his first loudspeaker in a tin shed with the intention of bringing live music into his living room. Remember great sound? We do, too. Today, Klipsch's cinema series speaker enclosures are made in the USA, by proud craftsmen in Hope, Arkansas. Just like PWK intended.

AVAILABLE VERSIONS

KPT-MCM-II-Q

Quad-amp version without passive processor

KPT-MCM-II-T

Includes a passive processor for Tri-amp operation

KPT-MCM-II-B

Includes a passive processor for Bi-amp operation

SYSTEM COMPONENTS

	KPT-MCM-II-Q	KPT-MCM-II-T	KPT-MCM-II-B
HF	KPT-Grand HF-T	KPT-Grand HF-N*	KPT-Grand HF-T
MF	KPT-402-MF	KPT-402-MF	KPT-402-MF
MB	KPT-305-MB	KPT-305-MB	KPT-305-MB
LF	KPT-MWM-LF	KPT-MWM-LF	KPT-MWM-LF
NETWORK	-	-	KPT-305/402/GRAND N2

* Includes Passive Processor

SYSTEM SPECIFICATIONS

FREQUENCY RESPONSE¹ (+/- 3 dB)	40 Hz - 19 kHz
FREQUENCY RANGE (-10 dB)	35 Hz - 20 kHz
SENSITIVITY²	112 dB
MAXIMUM SPL⁴	132 dB
HORIZONTAL COVERAGE	80° +/- 20° 200 Hz - 16 kHz
VERTICAL COVERAGE	50° +/- 30° 350 Hz - 16 kHz
DIRECTIVITY INDEX (DI)	8 dB
DIRECTIVITY FACTOR (Q)	6.3
HEIGHT	98" (248.92cm)
WIDTH	67.25" (170.8cm) front
DEPTH	45" (114.3cm)
WEIGHT	526 lbs. (241.6 kg)

¹ Frequency response behind a screen relative to X-curve and with active processing applied

² SPL at 1M, half-space anechoic with 2.83V input

³ AES standard, continuous pink noise, 6 dB peaks

⁴ Calculated at 1M half-space at power handling input

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SENSITIVITY²	111 dB	111 dB	102.5 dB	112 dB	107.5 dB	102.5 dB	112 dB	107.5 dB	112 dB																																																																						
POWER HANDLING⁴	50W (20V)	90W (27V)	460W (50V)	800W (49V)	225W (34V)	460W (50V)	800W (49V)	250W (35V)	800W (49V)																																																																						
POWER HANDLING (PEAK)	200W	360W	1840W	3200W	900W	1840W	3200W	1000W	3200W																																																																						
MAXIMUM SPL³	128 dB	130 dB	127 dB	137 dB	129 dB	127 dB	137 dB	129 dB	137 dB																																																																						
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NOMINAL IMPEDANCE	8 ohm	8 ohm	5 ohm	3 ohm	5 ohm	5 ohm	3 ohm	5 ohm	3 ohm																																																																						
	<div style="text-align: center;"> HF KPT-Grand HF-T </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>HIGHPASS CROSSOVER</td><td colspan="3">6.2 kHz Linkwitz Riley 24 dB</td></tr> <tr><td>PEQ1</td><td>7.2 kHz</td><td>Q: 2</td><td>Gain: +3 dB</td></tr> <tr><td>PEQ2</td><td>8 kHz</td><td>Q: 9</td><td>Gain: +2 dB</td></tr> <tr><td>PEQ3</td><td>12 kHz</td><td>Q: 6</td><td>Gain: -3 dB</td></tr> <tr><td>PEQ4</td><td>3.7 kHz</td><td>Q: 7</td><td>Gain: -4 dB</td></tr> <tr><td>HF DELAY</td><td colspan="3">6.18 ms</td></tr> <tr><td>OUTPUT GAIN</td><td colspan="3">0 dB</td></tr> </table>				HIGHPASS CROSSOVER	6.2 kHz Linkwitz Riley 24 dB			PEQ1	7.2 kHz	Q: 2	Gain: +3 dB	PEQ2	8 kHz	Q: 9	Gain: +2 dB	PEQ3	12 kHz	Q: 6	Gain: -3 dB	PEQ4	3.7 kHz	Q: 7	Gain: -4 dB	HF DELAY	6.18 ms			OUTPUT GAIN	0 dB			<div style="text-align: center;"> HF MF KPT-Grand HF-N KPT-402-MF </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>HIGHPASS CROSSOVER</td><td colspan="2">1.04 kHz Linkwitz Riley 24 dB</td></tr> <tr><td>PEQ1</td><td>1.48 kHz</td><td>Q: 5 Gain: -4 dB</td></tr> <tr><td>PEQ2</td><td>1 kHz</td><td>Q: 2.6 Gain: +3 dB</td></tr> <tr><td>PEQ3</td><td>7.4 kHz</td><td>Q: 1.5 Gain: +2 dB</td></tr> <tr><td>PEQ4</td><td>2.6 kHz</td><td>Q: 7 Gain: -3 dB</td></tr> <tr><td>HF DELAY</td><td colspan="2">5.35 ms</td></tr> <tr><td>OUTPUT GAIN</td><td colspan="2">+3 dB</td></tr> </table>			HIGHPASS CROSSOVER	1.04 kHz Linkwitz Riley 24 dB		PEQ1	1.48 kHz	Q: 5 Gain: -4 dB	PEQ2	1 kHz	Q: 2.6 Gain: +3 dB	PEQ3	7.4 kHz	Q: 1.5 Gain: +2 dB	PEQ4	2.6 kHz	Q: 7 Gain: -3 dB	HF DELAY	5.35 ms		OUTPUT GAIN	+3 dB		<div style="text-align: center;"> HF MF MB KPT-Grand HF-T KPT-402-MF KPT-305-MB KPT-305/402/GRAND N2 </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>HIGHPASS CROSSOVER</td><td colspan="2">320 Hz Linkwitz Riley 24 dB</td></tr> <tr><td>PEQ1</td><td>630 Hz</td><td>Q: 4 Gain: -3 dB</td></tr> <tr><td>PEQ2</td><td>5 kHz</td><td>Q: 2 Gain: +3 dB</td></tr> <tr><td>PEQ3</td><td>2.4 kHz</td><td>Q: 6.5 Gain: -2 dB</td></tr> <tr><td>PEQ4</td><td>12.4 kHz</td><td>Q: 4 Gain: -4 dB</td></tr> <tr><td>HF DELAY</td><td colspan="2">6.0 ms</td></tr> <tr><td>OUTPUT GAIN</td><td colspan="2">+2 dB</td></tr> </table>		HIGHPASS CROSSOVER	320 Hz Linkwitz Riley 24 dB		PEQ1	630 Hz	Q: 4 Gain: -3 dB	PEQ2	5 kHz	Q: 2 Gain: +3 dB	PEQ3	2.4 kHz	Q: 6.5 Gain: -2 dB	PEQ4	12.4 kHz	Q: 4 Gain: -4 dB	HF DELAY	6.0 ms		OUTPUT GAIN	+2 dB	
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RECOMMENDED ACTIVE PROCESSOR SETTINGS

Digital Signal Processing (DSP) equipment is required for all versions of the KPT-MCM-II.

The DSP parameters listed above are to establish crossover, gain, equalization and delay. They are recommended for the initial set-up evaluation and will yield the corresponding component specifications at the top of this page.