

KPT-535

3-WAY BEHIND THE SCREEN CINEMA SYSTEM



Klipsch®

KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

THX®



RECOMMENDED USE



UP TO
350 SEATS (approximately 5000 ft² or 465 m²)

PRODUCT OVERVIEW

Once movie goers experience the unbridled dynamics and intense realism of the KPT-535, they will have a new favorite theater for life. This THX®-certified high-performance screen and stage loudspeaker system, with its 24" depth, allows for more real estate where it matters - in the auditorium.

Embracing the concept of a 3-way system, with direct radiated bass cabinet in a behind the screen application, the KPT-535 utilizes the KPT-904-LF double, 15" low-frequency system.

Reproducing the critical dialogue range is the KPT-402-MF Tractrix® horn coupled to the Klipsch K-1132 two inch exit titanium compression driver. The high-frequencies are easily handled by the KPT-Grand HF-T Tractrix horn. This advanced Tractrix horn geometry and compression driver technology creates a large soundstage with well-defined imaging, resulting in a more genuine, lifelike sound.

The KPT-535 is available with a passive processor for Bi-amp or Mono-amp operation.

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-535-T **THX**

Tri-amp version without passive processor

KPT-535-B

Includes a passive processor for Bi-amp operation

KPT-535-M

Includes a passive processor for Mono-amp operation

SYSTEM COMPONENTS

	KPT-535	KPT-535	KPT-535
HF	KPT-Grand HF-T	KPT-Grand HF-N*	KPT-Grand HF-T
MF	KPT-402-MF	KPT-402-MF	KPT-402-MF
LF	KPT-904-LF	KPT-904-LF	KPT-904-LF
NETWORK	-	-	KPT-535 N2

* Includes passive processor for bi-amp operation

SYSTEM SPECIFICATIONS

FREQUENCY RESPONSE¹	(+/- 3 dB)	45 Hz - 19 kHz
FREQUENCY RANGE	(-10 dB)	32 Hz - 20 kHz
SENSITIVITY²		106 dB
MAXIMUM SPL⁴		129 dB
HORIZONTAL COVERAGE		90° +/- 30° 200 Hz - 16 kHz
VERTICAL COVERAGE		60° +/- 30° 300 Hz - 16 kHz
DIRECTIVITY INDEX (DI)		8 dB
DIRECTIVITY FACTOR (Q)		6.3
HEIGHT		81" (206cm)
WIDTH		40.25" (102.2cm)
DEPTH		23.25" (59.1cm)
WEIGHT		215 lbs. (97.6 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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	HF	MF	LF	HF/MF	LF	HF/MF/LF																																									
SENSITIVITY²	111 dB	111 dB	105.5 dB	107.5 dB	105.5 dB	106 dB																																									
POWER HANDLING³	50W (20V)	90W (27V)	800W (58V)	225W (34V)	800W (58V)	500W (40V)																																									
POWER HANDLING (PEAK)	200W	360W	3200W	900W	3200W	2000W																																									
MAXIMUM SPL⁴	128 dB	130 dB	131 dB	129 dB	131 dB	129 dB																																									
MAXIMUM SPL (PEAK)	133 dB	136 dB	137 dB	135 dB	137 dB	135 dB																																									
NOMINAL IMPEDANCE	8 ohm	8 ohm	4 ohm	5 ohm	4 ohm	3 ohm																																									
HF KPT-Grand HF-T <table border="1"> <tr><td>HIGHPASS CROSSOVER</td><td>4.2 kHz Linkwitz Riley 24 dB</td></tr> <tr><td>PEQ1</td><td>3.6 kHz Q: 2.2 Gain: -4 dB</td></tr> <tr><td>PEQ2</td><td>2.5 kHz Q: 2 Gain: -4 dB</td></tr> <tr><td>PEQ3</td><td>3.8 kHz Q: 5 Gain: -3 dB</td></tr> <tr><td>HF DELAY</td><td>0.81 ms</td></tr> <tr><td>OUTPUT GAIN</td><td>0 dB</td></tr> </table> MF KPT-402-MF <table border="1"> <tr><td>HIGHPASS CROSSOVER</td><td>400 Hz Linkwitz Riley 24 dB</td></tr> <tr><td>LOWPASS CROSSOVER</td><td>7.6 kHz Linkwitz Riley 24 dB</td></tr> <tr><td>PEQ1</td><td>620 Hz Q: 2 Gain: -1 dB</td></tr> <tr><td>PEQ2</td><td>1.2 kHz Q: 5 Gain: -3 dB</td></tr> <tr><td>PEQ3</td><td>2.4 kHz Q: 6.5 Gain: -4 dB</td></tr> <tr><td>PEQ4</td><td>6 kHz Q: 5 Gain: -3 dB</td></tr> <tr><td>MF DELAY</td><td>0.21 ms</td></tr> <tr><td>OUTPUT GAIN</td><td>-4.5 dB</td></tr> </table> LF KPT-904-LF <table border="1"> <tr><td>LOWPASS CROSSOVER</td><td>450 Hz Linkwitz Riley 24 dB</td></tr> <tr><td>PEQ1</td><td>270 Hz Q: 2.2 Gain: +3 dB</td></tr> <tr><td>PEQ2</td><td>540 Hz Q: 5.5 Gain: -4 dB</td></tr> <tr><td>PEQ3</td><td>700 Hz Q: 4 Gain: -3 dB</td></tr> <tr><td>LF DELAY</td><td>0 ms</td></tr> <tr><td>OUTPUT GAIN</td><td>0 dB</td></tr> </table>								HIGHPASS CROSSOVER	4.2 kHz Linkwitz Riley 24 dB	PEQ1	3.6 kHz Q: 2.2 Gain: -4 dB	PEQ2	2.5 kHz Q: 2 Gain: -4 dB	PEQ3	3.8 kHz Q: 5 Gain: -3 dB	HF DELAY	0.81 ms	OUTPUT GAIN	0 dB	HIGHPASS CROSSOVER	400 Hz Linkwitz Riley 24 dB	LOWPASS CROSSOVER	7.6 kHz Linkwitz Riley 24 dB	PEQ1	620 Hz Q: 2 Gain: -1 dB	PEQ2	1.2 kHz Q: 5 Gain: -3 dB	PEQ3	2.4 kHz Q: 6.5 Gain: -4 dB	PEQ4	6 kHz Q: 5 Gain: -3 dB	MF DELAY	0.21 ms	OUTPUT GAIN	-4.5 dB	LOWPASS CROSSOVER	450 Hz Linkwitz Riley 24 dB	PEQ1	270 Hz Q: 2.2 Gain: +3 dB	PEQ2	540 Hz Q: 5.5 Gain: -4 dB	PEQ3	700 Hz Q: 4 Gain: -3 dB	LF DELAY	0 ms	OUTPUT GAIN	0 dB
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RECOMMENDED ACTIVE PROCESSOR SETTINGS

Digital Signal Processing (DSP) equipment is required for the Tri-amp and Bi-amp versions of the KPT-535. Digital Signal Processing is not required for proper operation of the mono-amp version (KPT-535-M), as the passive processor takes care of all the equalization/crossover requirements for the system.

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.