

KPT-435-B/M

3-WAY BEHIND THE SCREEN CINEMA SYSTEM WITH BUILT-IN PASSIVE PROCESSOR



KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET



RECOMMENDED USE



UP TO **250 SEATS** (approximately 3500 ft² or 325 m²)

PRODUCT OVERVIEW

As the first full 3-way passive behind the screen system on the market, the KPT-435-B/M affords the ultimate in audio performance for small and medium sized venues. Less than 20" in depth, it is also one of the smallest speakers in its performance category.

Based on the proven KPT-904-LF dual 15" bass unit, the KPT-435-B/M delivers powerful bass from a shallow cabinet that is just 17.75" deep. In order to reproduce the critical dialogue range, this system also features the new KPT-335-HF/MF-N, which consists of a K-510 Tractrix[®] Horn, 2" throat compression driver and the K-703 Tractrix horn with a 1.75" titanium diaphragm.

Perfect for exhibitors who want to utilize a fully passive or bi-amplified system, the KPT-435-B/M can be utilized as a bi-amp configured 3-way system or, by simply changing the crossover network wiring, as a fully passive 3-way mono-amp configuration.

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-435-B/M

Includes passive processor for either Bi-amp or Mono-amp operation

SYSTEM COMPONENTS

	KPT-435-B/M
HF/MF	KPT-335-HF/MF-N*
LF	KPT-904-LF

* Includes Passive Processor

SYSTEM SPECIFICATIONS

FREQUENCY RESPONSE ¹ (+/- 3 dB)	45 Hz - 20 kHz
FREQUENCY RANGE (-10 dB)	32 Hz - 20 kHz
SENSITIVITY ²	105 dB
MAXIMUM SPL ⁴	127 dB
HORIZONTAL COVERAGE	90° +/- 20° 250 Hz - 16 kHz
VERTICAL COVERAGE	60° +/- 20° 2 kHz - 19 kHz
DIRECTIVITY INDEX (DI)	8 dB
DIRECTIVITY FACTOR (Q)	6.3
HEIGHT	62.75" (159.4cm)
WIDTH	27.25" (69.2cm)
DEPTH	17.75" (45.1cm)
WEIGHT	167 lbs. (76 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

RECOMMENDED MINIMUM AMPLIFIER POWER



TRANSDUCER	AMPLIFIER POWER RATING
MONO-AMP	650W into 4 ohms
LF (BI-AMP)	800W into 4 ohms
HF (BI-AMP)	400W into 5.5 ohms

KPT-435-B/M

3-WAY BEHIND THE SCREEN CINEMA SYSTEM WITH BUILT-IN PASSIVE PROCESSOR



KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

	KPT-435-B		KPT-435-M																		
	HF/MF	LF	HF/MF/LF																		
SENSITIVITY²	105 dB	105.5 dB	105 dB																		
POWER HANDLING³	200W (33V)	800W (58V)	325W (26V)																		
POWER HANDLING (PEAK)	800W	3200W	1300W																		
MAXIMUM SPL⁴	126 dB	131 dB	127 dB																		
MAXIMUM SPL (PEAK)	132 db	137 dB	133 db																		
NOMINAL IMPEDANCE	5.5 ohm	4 ohm	4 ohm																		
	<div style="text-align: center;">  KPT-335-HF/MF </div> <table border="1"> <tr> <td>HIGHPASS CROSSOVER</td> <td colspan="2">1 kHz Linkwitz Riley 24 dB</td> </tr> <tr> <td>PEQ1</td> <td>8 kHz</td> <td>Q: 2 Gain: +2 dB</td> </tr> <tr> <td>PEQ2</td> <td>3 kHz</td> <td>Q: 4 Gain: +2 dB</td> </tr> <tr> <td>PEQ3</td> <td>2 kHz</td> <td>Q: 5 Gain: -2 dB</td> </tr> <tr> <td>HF DELAY</td> <td colspan="2">0 ms</td> </tr> <tr> <td>OUTPUT GAIN</td> <td colspan="2">+3 dB</td> </tr> </table>		HIGHPASS CROSSOVER	1 kHz Linkwitz Riley 24 dB		PEQ1	8 kHz	Q: 2 Gain: +2 dB	PEQ2	3 kHz	Q: 4 Gain: +2 dB	PEQ3	2 kHz	Q: 5 Gain: -2 dB	HF DELAY	0 ms		OUTPUT GAIN	+3 dB		<div style="text-align: center;"> ACTIVE PROCESSOR SETTINGS ARE NOT REQUIRED FOR MONO-AMP OPERATION </div>
HIGHPASS CROSSOVER	1 kHz Linkwitz Riley 24 dB																				
PEQ1	8 kHz	Q: 2 Gain: +2 dB																			
PEQ2	3 kHz	Q: 4 Gain: +2 dB																			
PEQ3	2 kHz	Q: 5 Gain: -2 dB																			
HF DELAY	0 ms																				
OUTPUT GAIN	+3 dB																				
	<div style="text-align: center;">  KPT-904-LF </div> <table border="1"> <tr> <td>LOWPASS CROSSOVER</td> <td colspan="2">1.32 kHz Linkwitz Riley 24 dB</td> </tr> <tr> <td>PEQ1</td> <td>620 Hz</td> <td>Q: 3.2 Gain: +1 dB</td> </tr> <tr> <td>PEQ2</td> <td>400 Hz</td> <td>Q: 5 Gain: -1 dB</td> </tr> <tr> <td>LF DELAY</td> <td colspan="2">0.083 ms</td> </tr> <tr> <td>OUTPUT GAIN</td> <td colspan="2">0 dB</td> </tr> </table>		LOWPASS CROSSOVER	1.32 kHz Linkwitz Riley 24 dB		PEQ1	620 Hz	Q: 3.2 Gain: +1 dB	PEQ2	400 Hz	Q: 5 Gain: -1 dB	LF DELAY	0.083 ms		OUTPUT GAIN	0 dB					
LOWPASS CROSSOVER	1.32 kHz Linkwitz Riley 24 dB																				
PEQ1	620 Hz	Q: 3.2 Gain: +1 dB																			
PEQ2	400 Hz	Q: 5 Gain: -1 dB																			
LF DELAY	0.083 ms																				
OUTPUT GAIN	0 dB																				

RECOMMENDED ACTIVE PROCESSOR SETTINGS

- 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

Digital Signal Processing (DSP) equipment is required for the Bi-amp configuration of the KPT-435-B/M. Digital Signal Processing is not required for proper operation of the mono-amp configuration, 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.