

KPT-942

2-WAY BEHIND THE SCREEN CINEMA SYSTEM



KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET



RECOMMENDED USE



UP TO **300 SEATS** (approximately 4250 ft² or 395 m²)

PRODUCT OVERVIEW

Once movie-goers experience the unbridled dynamics and intense realism of the KPT-942, they will have a new favorite theater for life. This THX®-certified high performance 2-way screen and stage loudspeaker system is perfect for medium-sized auditoriums.

Based on the proven KPT-904-LF dual 15" bass unit, the KPT-942 delivers powerful bass from a cabinet just 24" deep. For high output combined with excellent coverage, the system uses a KPT-402-HF Tractrix® horn with K-1132 2" exit titanium compression driver to reproduce mid and high frequencies.

The system's advanced Tractrix horn geometry and compression driver technology create a large soundstage with well defined imaging, resulting in a more genuine, lifelike sound. Audiences have never heard dialogue so precise or soundtracks so stunningly detailed and immersive.

The KPT-942 is available in a Bi-amp version and with a passive processor for 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-942-B THX

Bi-amp version without passive processor

KPT-942-M

Includes passive processor for Mono-amp operation

SYSTEM COMPONENTS

	KPT-942-B	KPT-942-M
HF	KPT-402-HF	KPT-402-HF
LF	KPT-904-LF	KPT-904-LF
NETWORK	-	KPT-942-N2

SYSTEM SPECIFICATIONS

FREQUENCY RESPONSE ¹ (+/- 3 dB)	45 Hz - 18 kHz
FREQUENCY RANGE (-10 dB)	32 Hz - 19 kHz
SENSITIVITY ²	106 dB
MAXIMUM SPL ⁴	128 dB
HORIZONTAL COVERAGE	90° +/- 20° 250 Hz - 14 kHz
VERTICAL COVERAGE	60° +/- 20° 450 Hz - 18 kHz
DIRECTIVITY INDEX (DI)	8 dB
DIRECTIVITY FACTOR (Q)	6.3 dB
HEIGHT	70.5" (179cm)
WIDTH	39.75" (101cm)
DEPTH	23.75" (60.3cm)
WEIGHT	195 lbs. (88.5 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	800W into 4 ohms
LF (BI-AMP)	800W into 4 ohms
HF (BI-AMP)	100W into 8 ohms

KPT-942

2-WAY BEHIND THE SCREEN CINEMA SYSTEM



KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET

	KPT-942-B		KPT-942-M																					
	HF	LF	HF/LF																					
SENSITIVITY²	109 dB	105.5 dB	106 dB																					
POWER HANDLING³	50W (20V)	800W (58V)	400W (37V)																					
POWER HANDLING (PEAK)	200W	3200W	1600W																					
MAXIMUM SPL⁴	126 dB	131 dB	128 dB																					
MAXIMUM SPL (PEAK)	132 dB	137 dB	134 dB																					
NOMINAL IMPEDANCE	8 ohm	4 ohm	3.5 ohm																					
	<div style="text-align: center;">  KPT-402-HF </div> <table border="1"> <tr> <td>HIGHPASS CROSSOVER</td> <td colspan="2">600 Hz Linkwitz Riley 24 dB</td> </tr> <tr> <td>PEQ1</td> <td>1.08 kHz</td> <td>Q:1 Gain: -3 dB</td> </tr> <tr> <td>PEQ2</td> <td>2.4 kHz</td> <td>Q: 4 Gain: -7 dB</td> </tr> <tr> <td>PEQ3</td> <td>7.4 kHz</td> <td>Q: 4 Gain: +3 dB</td> </tr> <tr> <td>PEQ4</td> <td>15.2 kHz</td> <td>Q: 2 Gain: +3 dB</td> </tr> <tr> <td>HF DELAY</td> <td colspan="2">0 ms</td> </tr> <tr> <td>OUTPUT GAIN</td> <td colspan="2">0 dB</td> </tr> </table>		HIGHPASS CROSSOVER	600 Hz Linkwitz Riley 24 dB		PEQ1	1.08 kHz	Q:1 Gain: -3 dB	PEQ2	2.4 kHz	Q: 4 Gain: -7 dB	PEQ3	7.4 kHz	Q: 4 Gain: +3 dB	PEQ4	15.2 kHz	Q: 2 Gain: +3 dB	HF DELAY	0 ms		OUTPUT GAIN	0 dB		<div style="text-align: center;"> ACTIVE PROCESSOR SETTINGS ARE NOT REQUIRED FOR MONO-AMP CONFIGURATION </div>
HIGHPASS CROSSOVER	600 Hz Linkwitz Riley 24 dB																							
PEQ1	1.08 kHz	Q:1 Gain: -3 dB																						
PEQ2	2.4 kHz	Q: 4 Gain: -7 dB																						
PEQ3	7.4 kHz	Q: 4 Gain: +3 dB																						
PEQ4	15.2 kHz	Q: 2 Gain: +3 dB																						
HF DELAY	0 ms																							
OUTPUT GAIN	0 dB																							
	<div style="text-align: center;">  KPT-904-LF </div> <table border="1"> <tr> <td>LOWPASS CROSSOVER</td> <td colspan="2">500 Hz Linkwitz Riley 24 dB</td> </tr> <tr> <td>PEQ1</td> <td>270 Hz</td> <td>Q:2.2 Gain: +2 dB</td> </tr> <tr> <td>PEQ2</td> <td>620 Hz</td> <td>Q: 5.5 Gain: -3 dB</td> </tr> <tr> <td>LF DELAY</td> <td colspan="2">0.271 ms</td> </tr> <tr> <td>OUTPUT GAIN</td> <td colspan="2">0 dB</td> </tr> </table>		LOWPASS CROSSOVER	500 Hz Linkwitz Riley 24 dB		PEQ1	270 Hz	Q:2.2 Gain: +2 dB	PEQ2	620 Hz	Q: 5.5 Gain: -3 dB	LF DELAY	0.271 ms		OUTPUT GAIN	0 dB								
LOWPASS CROSSOVER	500 Hz Linkwitz Riley 24 dB																							
PEQ1	270 Hz	Q:2.2 Gain: +2 dB																						
PEQ2	620 Hz	Q: 5.5 Gain: -3 dB																						
LF DELAY	0.271 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-942. Digital Signal Processing is not required for proper configuration of the mono-amp version (KPT-942-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.