

# KPT-942-4-B

2-WAY EXTENDED BASS BEHIND THE SCREEN CINEMA SYSTEM



KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET



## RECOMMENDED USE



UP TO **400 SEATS** (approximately 6000 ft<sup>2</sup> or 557 m<sup>2</sup>)

## PRODUCT OVERVIEW

With its high efficiency, low distortion, controlled directivity and flat frequency response, the THX<sup>®</sup>-certified KPT-942-4-B 2-way cinema and stage system delivers the unbridled dynamics and intense realism required for today's most exacting soundtracks.

Based on the KPT-415-LF quad 15" bass unit, the KPT-942-4-B provides enhanced low frequency output while retaining the 24" depth of smaller systems.

The higher frequencies are handled by a KPT-402-HF Tractrix<sup>®</sup> horn with a K-1132 2" exit titanium compression driver. 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-942-4-B's high efficiency, very high output and excellent coverage characteristics make it an outstanding, cost-effective solution for medium and large auditoriums.

## 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-942-4-B THX

Bi-amp version without passive processor

## SYSTEM COMPONENTS

	KPT-942-4-B
HF	KPT-402-HF
LF	KPT-415-LF

## SYSTEM SPECIFICATIONS

FREQUENCY RESPONSE <sup>1</sup> (+/- 3 dB)	43 Hz - 18 kHz
FREQUENCY RANGE (-10 dB)	26 Hz - 20 kHz
SENSITIVITY <sup>2</sup>	113 dB
MAXIMUM SPL <sup>4</sup>	129 dB
HORIZONTAL COVERAGE	90° +/- 30° 200 Hz - 14 kHz
VERTICAL COVERAGE	60° +/- 30° 300 Hz - 18 kHz
DIRECTIVITY INDEX (DI)	8 dB
DIRECTIVITY FACTOR (Q)	6.3
HEIGHT	76" (193cm)
WIDTH	39.75" (101cm)
DEPTH	23.75" (60.3cm)
WEIGHT	260 lbs. (118 kg)

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

<sup>2</sup> SPL at 1M, half-space anechoic with 2.83V input

<sup>3</sup> AES standard, continuous pink noise, 6 dB peaks

<sup>4</sup> Calculated at 1M half-space at power handling input

## RECOMMENDED MINIMUM AMPLIFIER POWER

TRANSDUCER	AMPLIFIER POWER RATING
LF Input 1	800W into 4 ohms
LF Input 2	800W into 4 ohms
HF	100W into 8 ohms

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	KPT-942-4-B	
	HF	LF
<b>SENSITIVITY<sup>2</sup></b>	109 dB	109 dB
<b>POWER HANDLING<sup>3</sup></b>	50W (20V)	1600W (56V)
<b>POWER HANDLING (PEAK)</b>	200W	6400W
<b>MAXIMUM SPL<sup>4</sup></b>	126 dB	135 dB
<b>MAXIMUM SPL (PEAK)</b>	132 dB	141 dB
<b>NOMINAL IMPEDANCE</b>	8 ohm	2 ohm

  

HF KPT-402-HF	
<b>HIGHPASS CROSSOVER</b>	580 Hz Linkwitz Riley 24 dB
<b>PEQ1</b>	1.08 kHz Q:1 Gain: -4 dB
<b>PEQ2</b>	2.4 kHz Q:4 Gain: -7 dB
<b>PEQ3</b>	7.4 kHz Q:4 Gain: +3 dB
<b>PEQ4</b>	15.2 kHz Q:2 Gain: +3 dB
<b>HF DELAY</b>	0 ms
<b>OUTPUT GAIN</b>	+2 dB

  

LF KPT-415-LF	
<b>LOWPASS CROSSOVER</b>	580 Hz Linkwitz Riley 24 dB
<b>PEQ1</b>	230 Hz Q:5 Gain: +3 dB
<b>PEQ2</b>	290 Hz Q:8 Gain: -2 dB
<b>PEQ3</b>	740 Hz Q:3.2 Gain: -7 dB
<b>PEQ4</b>	480 Hz Q:7 Gain: +2 dB
<b>LF DELAY</b>	0.167 ms
<b>OUTPUT GAIN</b>	0 dB

- 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 ACTIVE  
PROCESSOR SETTINGS

Digital Signal Processing (DSP) equipment is required for Bi-amp operation of the KPT-942-4-B.

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.