

# KPT-445

4-WAY BEHIND THE SCREEN CINEMA SYSTEM



KLIPSCH PROFESSIONAL | CINEMA | DATA SHEET



## RECOMMENDED USE

 **UP TO 450 SEATS** (approximately 7000 ft<sup>2</sup> or 650 m<sup>2</sup>)

## PRODUCT OVERVIEW

Klipsch designed the 4-way KPT-445 to deliver the increased dynamics and detail found on the latest digital soundtracks on today's films. The KPT-445 behind the screen system is designed for small to medium sized auditoriums, and can be operated as a quad-amp or bi-amp system.

Utilizing the KPT-904-LF double 15" low-frequency system as a solid foundation, the KPT-402-MF Tractrix horn and K-1133 2" exit, 3" titanium diaphragm compression driver effortlessly reproduces the critical mid-band dialogue frequencies. The KPT-445 high frequency section consists of the proven K-510 Tractrix horn and a 1.25" titanium diaphragm compression driver to deliver ultra-high frequency detail to every seat in the house.

## 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-445-Q

Quad-amp version without passive processor

### KPT-445-B

Includes a passive processor for Bi-amp operation

## SYSTEM COMPONENTS

	KPT-445-Q	KPT-445-B
HF/UHF	KPT-445-HF/UHF	KPT-445-HF/UHF
MF	KPT-402-MF	KPT-402-MF
LF	KPT-904-LF	KPT-904-LF
NETWORK	-	KPT-445-N2

## SYSTEM SPECIFICATIONS

FREQUENCY RESPONSE <sup>1</sup> (+/- 3 dB)	45 Hz - 20 kHz
FREQUENCY RANGE (-10 dB)	32 Hz - 20 kHz
SENSITIVITY <sup>2</sup>	108 dB
MAXIMUM SPL <sup>4</sup>	129.5 dB
HORIZONTAL COVERAGE	80° +/- 20° 350 Hz - 16 kHz
VERTICAL COVERAGE	50° +/- 30° 350 Hz - 16 kHz
DIRECTIVITY INDEX (DI)	8 dB
DIRECTIVITY FACTOR (Q)	6.3
HEIGHT	90.5" (229.9cm)
WIDTH	39.75" (101cm)
DEPTH	23.75" (60.33cm)
WEIGHT	233 lbs. (105.9 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

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	KPT-445-Q				KPT-445-B	
	UHF	HF	MF	LF	HF/MF/MB	LF
<b>SENSITIVITY<sup>2</sup></b>	102 dB	111 dB	111 dB	105 dB	105 dB	105 dB
<b>POWER HANDLING<sup>3</sup></b>	50W (20V)	50W (20V)	90W (27V)	800W (58V)	300W (44V)	800W (58V)
<b>POWER HANDLING (PEAK)</b>	200W	200W	360W	3200W	1200W	3200W
<b>MAXIMUM SPL<sup>4</sup></b>	119 dB	128 dB	130 dB	131 dB	128 dB	131 dB
<b>MAXIMUM SPL (PEAK)</b>	125 dB	134 dB	136 dB	137 dB	134 dB	137 dB
<b>NOMINAL IMPEDANCE</b>	8 ohm	8 ohm	8 ohm	4 ohm	6.5 ohm	4 ohm

  

UHF	
<b>KPT-445-UHF</b>	
<b>HIGHPASS CROSSOVER</b>	7.8 kHz Linkwitz Riley 24 dB
<b>PEQ1</b>	6.4 kHz Q: 4 Gain: -6 dB
<b>PEQ2</b>	4.3 kHz Q: 4 Gain: -3 dB
<b>PEQ3</b>	10 kHz Q: 3.5 Gain: +3 dB
<b>UHF DELAY</b>	0.187 ms
<b>OUTPUT GAIN</b>	+1.5 dB

  

HF	
<b>KPT-445-HF</b>	
<b>HIGHPASS CROSSOVER</b>	3.4 kHz Linkwitz Riley 24 dB
<b>LOWPASS CROSSOVER</b>	7.8 kHz Linkwitz Riley 24 dB
<b>PEQ1</b>	2.1 kHz Q: 4 Gain: -6 dB
<b>PEQ2</b>	6 kHz Q: 4.5 Gain: +1 dB
<b>PEQ3</b>	9.8 kHz Q: 11 Gain: -5 dB
<b>PEQ4</b>	12.8 kHz Q: 7 Gain: -7 dB
<b>HF DELAY</b>	.208 ms
<b>OUTPUT GAIN</b>	+0.5 dB

  

MF	
<b>KPT-402-MF</b>	
<b>HIGHPASS CROSSOVER</b>	390 Hz Linkwitz Riley 24 dB
<b>LOWPASS CROSSOVER</b>	3 kHz Linkwitz Riley 24 dB
<b>PEQ1</b>	620 Hz Q: 1.6 Gain: -1 dB
<b>PEQ2</b>	1.2 kHz Q: 5 Gain: -3 dB
<b>PEQ3</b>	400 Hz Q: 6.5 Gain: -2 dB
<b>PEQ4</b>	2.2 kHz Q: 6.5 Gain: -1 dB
<b>MF DELAY</b>	0 ms
<b>OUTPUT GAIN</b>	-4.5 dB

  

LF	
<b>KPT-904-LF</b>	
<b>LOWPASS CROSSOVER</b>	450 Hz Linkwitz Riley 24 dB
<b>PEQ1</b>	270 Hz Q: 2.2 Gain: +3 dB
<b>PEQ2</b>	540 Hz Q: 5.5 Gain: -4 dB
<b>PEQ3</b>	700 Hz Q: 4 Gain: -3 dB
<b>LF DELAY</b>	0 ms
<b>OUTPUT GAIN</b>	0 dB

  

UHF	
<b>KPT-445-UHF</b>	
<b>HIGHPASS CROSSOVER</b>	450 Hz Linkwitz Riley 24 dB
<b>PEQ1</b>	580 Hz Q: 2.6 Gain: -3 dB
<b>PEQ2</b>	2.3 kHz Q: 5.5 Gain: -3 dB
<b>PEQ3</b>	9.4 kHz Q: 3 Gain: +3 dB
<b>PEQ4</b>	480 Hz Q: 12 Gain: -2 dB
<b>HF DELAY</b>	0 ms
<b>OUTPUT GAIN</b>	+3 dB

  

LF	
<b>KPT-904-LF</b>	
<b>LOWPASS CROSSOVER</b>	450 Hz Linkwitz Riley 24 dB
<b>PEQ1</b>	270 Hz Q: 2.2 Gain: +3 dB
<b>PEQ2</b>	540 Hz Q: 5.5 Gain: -4 dB
<b>PEQ3</b>	700 Hz Q: 4 Gain: -3 dB
<b>LF DELAY</b>	0 ms
<b>OUTPUT GAIN</b>	0 dB

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 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 all versions of the KPT-445.

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.