



# PERMANENT INSTALLATIONS

**Klipsch**

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# WHY KLIPSCH?



For over 65 years, Klipsch has built premium loudspeakers with a no-compromise attitude, value engineered for superior performance and high reliability, and adhering to sound principles pioneered by our founder, Paul W. Klipsch:

- **High Efficiency:** the highest sound output for a given wattage input
- **Low Distortion:** even the softest sounds are heard with clarity and detail, the loudest sounds without harshness or distortion
- **Controlled Directivity:** the accurate projection of sound which, in turn, allows even distribution of sound in a given area
- **Controlled Frequency Response:** producing the required response to maximize various acoustic environments

Whether in a house of worship, on a stage, in a music club or utilized in a production environment, our permanent installation speaker line is known for its uniquely detailed sound with class-leading vocal clarity. Our exclusive Tractrix® Horn-loaded technology reproduces sound with tight pattern control, high-efficiency and very low-distortion. With thousands of installations around the world and a dedicated team to back them up, Klipsch can provide the perfect sonic atmosphere for any setting.



YOU NEED TO MAKE THE BEST IMPRESSION, FROM THE INITIAL JOB QUOTE THROUGH THE COMPLETED INSTALLATION. WE CAN HELP CHOOSE THE BEST KLIPSCH SPEAKERS FOR THE APPLICATION AND HELP DESIGN A SYSTEM THAT THOROUGHLY IMPRESSES.

SEND YOUR PLANS OR QUESTIONS TO US AT:  
[PROSYSTEMDESIGN@KLIPSCH.COM](mailto:PROSYSTEMDESIGN@KLIPSCH.COM)

# KI SERIES PERMANENT INSTALL SPEAKERS

WHEN PAUL W. KLIPSCH INTRODUCED SPEAKERS SUCH AS THE KLIPSCHORN, LASCALA, HERESY AND CORNWALL TO THE WORLD, THEY NOT ONLY BECAME POPULAR FOR HOME AUDIO ENJOYMENT BUT WERE UTILIZED IN MANY PERMANENT COMMERCIAL INSTALLATIONS SUCH AS HOUSES OF WORSHIP, SCHOOLS, STUDIOS AND MUSIC CLUBS DUE TO THEIR CLEAN, HIGH OUTPUT/LOW-DISTORTION SOUND SIGNATURES. TODAY, OUR KI LINE OF PERMANENT INSTALLATION SPEAKERS IS BUILT NOT ONLY TO THE KLIPSCH STANDARDS OF HIGH EFFICIENCY AND LOW DISTORTION BUT TO ADDRESS THE SPECIFIC NEEDS AND PERFORMANCE STANDARDS OF THE COMMERCIAL INDUSTRY WITH ROCK-SOLID RELIABILITY.

TRACTRIX® HORN-LOADED TITANIUM COMPRESSION DRIVERS DELIVER DETAILED HIGH AND MIDRANGE FREQUENCIES IN SPECIFICALLY CONTROLLED PATTERNS. WOOFERS WITH LARGE MOTOR STRUCTURES PROVIDE TIGHT, MUSICAL-QUALITY LOW FREQUENCIES. HIGH CURRENT FULL-RANGE OR BI-AMPABLE PASSIVE CROSSOVERS ALLOW FLEXIBILITY IN SETUP WHILE EXCLUSIVE KLIP-CIRCUIT DRIVER PROTECTION PROVIDES DAY-IN/DAY-OUT HIGH PERFORMANCE. MULTIPLE FLYPOINT CABINETS ARE BUILT FOR BOTH RESONANCE-FREE RESPONSE AND YEARS OF PREMIUM PERFORMANCE WITH DADO LOCK-JOINT AND RABBET CONSTRUCTION. AND LITTLE TO NO ADDED EQUALIZATION IS NEEDED FOR A KI SPEAKER'S PRIME SOUND QUALITY TO SHINE THROUGH.

KI SERIES LOW FREQUENCY SYSTEMS ARE BUILT TO PROVIDE SUPERIOR MUSICAL REINFORCEMENT AND ARE CAPABLE OF MAXIMUM DRIVER EXCURSION WITH VERY HIGH OUTPUT WITHOUT UNDUE STRESS ON THEIR DRIVERS.





## KI-396

- Very high output capability with exceptional low-distortion clarity
- Compact 22.5° symmetrical trapezoidal design
- 15" (38.1cm) high excursion cast frame heavy-duty woofer
- Large 3" (7.62cm) titanium diaphragm high frequency compression driver
- 90" x 60" Tractrix® Horn for tight pattern control
- 16 suspension points (4 per side) for flexible mounting and rigging bar compatibility
- Internal high current full-range crossover
- Black, White or Raw cabinet



## KI-362

- High output low-distortion three way system
- Rotatable midrange and HF drivers for 60° or 90° projection independent of speaker horizontal/vertical
- Compact 22.5° symmetrical trapezoidal design
- 15" (38.1cm) cast frame heavy-duty woofer with 3" voice coil
- 1" (2.54cm) titanium diaphragm high frequency compression driver
- 1.5" (3.81cm) titanium diaphragm midrange compression driver
- 90" x 60" Tractrix® Horn for tight pattern control
- Internal high current full-range crossover
- 16 suspension points (4 per side) for flexible mounting and rigging bar compatibility
- KLIP-circuit mid and HF driver protection devices
- Black, White or Raw cabinet



## KI-272

- Multiple angle 45° and 65° asymmetrical design two-way speaker
- Perfect for angled wall, corner, ceiling or under-balcony mounting.
- Also designed for slanted floor or shelf use
- 12" (30.48cm) woofer and 1.75" (4.4cm) titanium diaphragm HF compression driver
- 60" x 40" Tractrix® Horn for tight pattern control
- Internal high current full-range crossover
- KLIP-circuit HF driver protection devices
- Black, White or Raw cabinet

# KI SERIES

## KI-262



- Compact 22.5° symmetrical trapezoidal design two-way speaker
- 12" (30.48cm) woofer and 1.75" (4.4cm) titanium diaphragm HF compression driver
- 60" x 40" Tractrix® Horn for tight pattern control
- Internal high current full-range crossover
- 16 suspension points
- KLIP-circuit mid and HF driver protection devices
- Black, White or Raw cabinet



## KI-172

- A compact, two-way, high performance loudspeaker with sides slanted at 65° and 45°
- Excellent for placement at an angle or tight spaces
- 8" (20.32cm) woofer and 1" (2.54cm) titanium diaphragm HF compression driver
- 90" x 90" Tractrix® Horn
- KLIP-circuit HF driver protection devices
- Top/Bottom attachments for optional Klipsch SB-102 U-shaped bracket
- Black, White or Raw cabinet



## KI-102

- Compact 22.5° symmetrical trapezoidal design two-way speaker
- 113dB maximum continuous output
- 8" (20.32cm) woofer and 1" (2.54cm) titanium diaphragm HF compression driver
- 90" X 90" Tractrix® Horn
- KLIP-circuit HF driver protection devices
- Top/Bottom attachments for optional Klipsch SB-102 U-shaped bracket
- Black or White MDF cabinet

## KLIP-CIRCUIT DRIVER PROTECTION

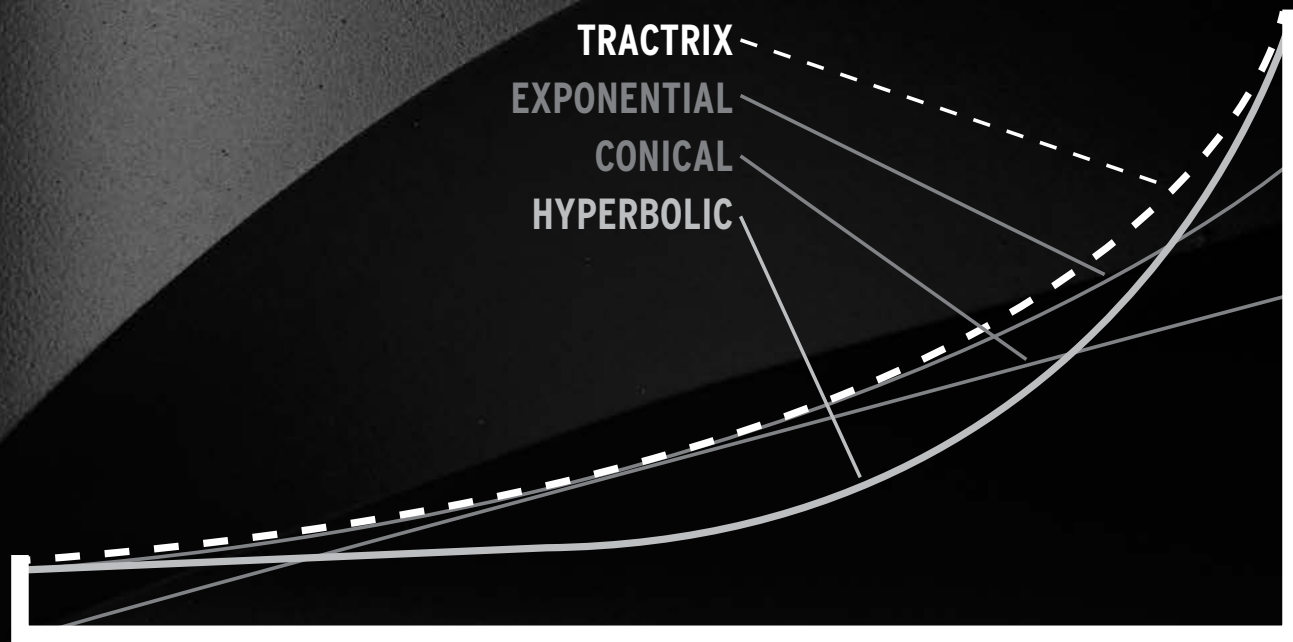
TO LIMIT POTENTIAL DAMAGE TO HIGH- AND MID-FREQUENCY DRIVERS, ALL KLIPSCH KI SERIES SPEAKERS WITH INTERNAL FULL-RANGE OR BI-AMPABLE HIGH-CURRENT PASSIVE CROSSOVERS FEATURE THE KLIP-CIRCUIT, A PROPRIETARY HIGH-POWER OVERLOAD SYSTEM. WHEN CURRENT TO A DRIVER IS EXCEEDED IT CHANGES ITS RESISTANCE TO A HIGH VALUE AND CUTS THE CURRENT DOWN TO PROTECT THE DRIVER FROM BLOWING. WHEN INPUT IS REDUCED IT RETURNS TO NORMAL AND ALLOWS THE DRIVER TO PLAY AGAIN.



# THE TRACTRIX HORN

KLIPSCH USES A MODIFIED TRACTRIX EQUATION HORN GEOMETRY ON ITS DISTRIBUTED AUDIO SPEAKERS WHICH GAINS THE BENEFITS OF THREE DISTINCT HORN TYPES AND ALLOWS THE SOUND WAVE TO RELEASE FROM THE HORN WITH MINIMAL REFLECTIONS BACK INTO THE HORN. THIS, COMBINED WITH THE REDUCED DEPTH OF THE TRACTRIX HORN IN RELATION TO OTHERS, FURTHER REDUCES DISTORTION AND IMPROVES FREQUENCY RESPONSE AND OVERALL SOUND CLARITY, EVEN AT LOW BACKGROUND VOLUMES.

## THE TRACTRIX CURVE





# SUBWOOFERS

## KI-215



- High power dual 15" (38.1cm) trapezoidal low frequency speaker system
- Dual 15" (38.1cm) cast frame transducers with 3" voice coils
- 131 dB SPL maximum output
- 22.5° symmetrical trapezoidal design make it an ideal music reinforcement match with the KI-396, KI-362, KI-262 and KI-272 when using an external, active crossover
- Low 40 Hz cabinet tuning allows electronic EQ to be added for extended response without undue component stress
- 16 suspension points for flexible mounting and rigging bar compatibility
- Black, White or Raw cabinet



## KI-115



- High power 15" (38.1cm) driver low frequency speaker system
- 104 oz. (2.95kg) magnet with 3" (7.62 cm) voice coil for high sensitivity and superior power handling
- Specially designed motor assembly assures high transient cone excursions do not harm the voice coil under extreme output applications
- 125 dB SPL maximum output
- Available with or without a 150Hz passive crossover
- Compatible with Klipsch KI-102, KI-172, KI-262 and KI-272
- Black, White and Raw cabinet



## KPT-684-SMA

- High power dual 18" (45.7cm) low frequency speaker system
- Dual 18" (45.7cm) cast frame transducers with 3" voice coils
- 130 dB SPL maximum output
- Extended low frequency response (-4dB, 34Hz, -10dB 25Hz unequalized)
- 4 suspension points on the top of the cabinet (horizontal orientation only) for rigging
- Reinforced internally with aluminum bars
- Black, White or Raw cabinet

## MADE IN AMERICA: HOPE, ARKANSAS

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. THE SOUND WAS NATURAL, POWERFUL, AND FRIGHTFULLY REAL. THE WORLD SAT UP AND LISTENED. TODAY, WE STILL MAKE THEM LIKE WE USED TO: BY HAND. WITH PASSION. WITH PRIDE. THOUSANDS OF RABID FANS SWEAR BY OUR SPEAKERS, CITING SOMETHING AKIN TO A RELIGIOUS EXPERIENCE WITH EVERY LISTEN. REMEMBER GREAT SOUND? WE DO, TOO. IT'S MADE IN THE USA, BY PROUD CRAFTSMEN IN HOPE, ARKANSAS. JUST LIKE PWK INTENDED.





# SPECIFICATIONS

	KI-396	KI-362	KI-272	KI-262	KI-172
FREQUENCY RESPONSE <sup>1</sup>	45Hz-20 kHz +/- 3dB -10dB @ 32Hz	60Hz-18k Hz +/- 4dB, -10dB @ 42Hz	67Hz-20k Hz +/- 4dB, -10dB @ 50Hz	75Hz-20k Hz +/- 4dB, -10dB @ 64Hz	70Hz-17k Hz +/- 4dB, -10dB @ 59Hz
POWER HANDLING <sup>2</sup>	600 Watts (55V)	400 Watts (45.1V)	250 Watts (41.2V)	250 Watts (41.5V)	100 Watts (21.2V)
MAXIMUM CONTINUOUS OUTPUT <sup>3</sup>	129 dB	126dB	125dB	125dB	113dB
DISPERSION ANGLE	90° Horizontal x 60° Vertical	90° Horizontal X 60° Vertical	60° Horizontal X 40° Vertical	60° Horizontal X 40° Vertical	90° Horizontal X 90° Vertical
DIRECTIVITY	8dB	8dB	9dB	9dB	7dB
SENSITIVITY <sup>4</sup>	104dB	102dB	101dB	101dB	96dB
NOMINAL IMPEDANCE	8 Ohms, 5 Ohms Minimum	8 Ohms, 5.1 Ohms Minimum at 40Hz	8 Ohms, 6.8 Ohms Minimum at 180Hz	8 Ohms, 6.9 Ohms Minimum at 195Hz	8 Ohms, 4.5 Ohms at 8.5k Hz
CROSSOVER FREQUENCY	1200 Hz	1k Hz and 6.5k Hz	1400Hz	1400Hz	3k Hz
OVERLOAD PROTECTION		KLIP Overload Tweeter and Midrange Protection Circuit	KLIP Overload Tweeter Protection Circuit	KLIP Overload Tweeter and Midrange Protection Circuit	KLIP Overload Tweeter Protection Circuit
COMPONENTS	KDE-75 3" Titanium Diaphragm Compression Driver K-48 15" Woofer	K-792-TI-KP 1" Titanium Diaphragm Compression Driver K-52-TI 1.5" Titanium Diaphragm Compression Driver K-48-EP 15" Woofer	K-70-G 1.75" Titanium Diaphragm Compression Driver K-42-EP 12" Woofer	K-70-G 1.75" Titanium Diaphragm Compression Driver K-42-KP 12" Woofer	K-103-TI-KP 1" Titanium Diaphragm Compression Driver K-8-E 8" Woofer
HIGH FREQUENCY HORN	90° x 60° Tractrix® Horn	90° x 60° Tractrix® Horns	60° x 40° Tractrix® Horn	60° x 40° Tractrix® Horn	90° x 90° Tractrix® Horn
ENCLOSURE MATERIAL	.75" (19mm) 7-Ply Plywood, 1" MDF front	.75" (19mm) 7-Ply Plywood, 1" MDF front	.75" (19mm) 7-Ply Plywood, 1" MDF front	.75" (19mm) 7-Ply Plywood, 1" MDF front	.75" (19mm) 7-Ply Plywood
INPUT CONNECTIONS	Two Point Barrier Strip	Two Point Barrier Strip	Two NL-4 Speakon Connectors Wired in Parallel	Two NL-4 Speakon Connectors Wired in Parallel	Five-way Binding Post
DEPTH	16.5" (41.91cm)	16.5" (41.91cm)	16.5" (41.91cm)	13.37" (33.97cm)	11.25" (28.58)cm
HEIGHT	34.3" (87.12cm)	34.3" (87.15cm)	23" (58.42cm)	23" (58.42cm)	18.81" (47.78cm)
WIDTH FRONT	19.4" (49.28cm)	19.4" (49.28cm)	16.81" (42.70cm)	16.81" (42.70cm)	11.31" (28.73cm) 45/65° Asymmetrical Angled Box
WIDTH BACK	6.8" (17.27cm)	6.81" (17.30cm) 22.5° Angled Box		6.81" (17.30cm) 22.5° Angled Box	
NET WEIGHT	70 lbs (31.75kg)	71 lbs. (32.23kg)	52 lbs. (23.61kg)	47 lbs. (21.34kg)	22 lbs. (9.99kg)
SHIPPING WEIGHT	76 lbs (34.47kg)	84 lbs. (38.14kg)	59 lbs. (26.78kg)	54 lbs. (24.52)kg	27 lbs. (12.25kg)
FINISHES	Black, White and Raw Birch	Black, White and Raw Birch	Black, White and Raw Birch	Black, White and Raw Birch	Black/White/Raw Plywood
ACCESSORIES					S8-102 Mounting Bracket

1 3M, Half-space anechoic  
2 AES Standard, continuous pink noise 50Hz-10kHz, 6dB peaks  
3 At 1M at power handling power input  
4 SPL at 1M, half-space anechoic with 2.83V input

# SPECIFICATIONS

	KI-102	KI-215	KI-115	KPT-684-SMA
FREQUENCY RESPONSE <sup>1</sup>	75Hz-17k Hz +/- 4dB, -10dB @ 62Hz	70Hz -1k Hz +/- 4dB, -10dB @ 57Hz	49-300Hz +/- 4dB, -10dB @ 37Hz	36Hz-800Hz +/- 3dB 25Hz-2.2k Hz -10dB
POWER HANDLING <sup>2</sup>	100 Watts (21.2V)	800 watts (56.5V)	400 Watts (46V)	600 watts (65V) per woofer 25-250Hz
MAXIMUM CONTINUOUS OUTPUT <sup>3</sup>	113dB	131dB	125dB	132dB
DISPERSION ANGLE	90° Horizontal X 90° Vertical			
DIRECTIVITY	7dB			
SENSITIVITY <sup>4</sup>	96dB	105dB	101dB	105dB
NOMINAL IMPEDANCE	8 Ohms, 4.5 Ohms Minimum at 8kHz	8 Ohms, 5.3 Ohms Minimum at 42Hz	8 Ohms, 5.3 Ohms Minimum at 42Hz	8 ohms, 3.6 Ohms Minimum @ 22Hz woofers wired in parallel
CROSSOVER FREQUENCY	3k Hz			
OVERLOAD PROTECTION	KLIP Overload Tweeter Protection Circuit			
COMPONENTS	K-103-TI-KP 1" Titanium Diaphragm Compression Driver K-8-E 8" Woofer	Two K-45-EP 15" Woofers	K-48-EP 15" Woofer	Two K-47-EP2 18" Woofers
HIGH FREQUENCY HORN	90° x 90° Tractrix® Horn			
ENCLOSURE MATERIAL	3/4" MDF	.75" (19mm) 7-Ply Plywood, 1" MDF front	.75" (19mm) 7-Ply Plywood	.75" (19mm) 7-Ply Plywood
INPUT CONNECTIONS	Five-way Binding Post	Two Point Barrier Strip	Two NL-4 Speakon Connectors Wired in Parallel	Barrier strip
DEPTH	9.8" (24.89)cm	16.5" (41.91cm)	19.56" (49.69cm)	48.75" (123.83cm)
HEIGHT	18.81" (47.78cm)	34.31" (87.15cm)	18.43" (46.83cm)	23.5" (59.7cm)
WIDTH FRONT	11.31" (28.73cm)	19.44" (49.37cm)	24.5" (62.23cm)	30.5" (77.47cm)
WIDTH BACK	4.06" (10.32cm) 22.5° Angled Box	6.81" (17.31cm) 22.5° Angled Box		
NET WEIGHT	24 lbs. (10.89kg)	81 lbs. (36.77kg)	62 lbs. (28.14kg)	190 lbs. (86.18kg)
SHIPPING WEIGHT	29 lbs. (13.15kg)	94 lbs. (42.68kg)	71 lbs. (32.23kg)	
FINISHES	Black and White	Black, White and Raw Birch	Black, White and Raw Birch	Black, White and Raw Cabinet
ACCESSORIES	SB-102 Mounting Bracket			

1 3M, Half-space anechoic  
2 AES Standard, continuous pink noise 50Hz-10kHz, 6dB peaks  
3 At 1M at power handling power input  
4 SPL at 1M, half-space anechoic with 2.83V input



# Klipsch<sup>®</sup>

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