

The future of sound. Made perfectly clear.

KX Audio, Unit i-7A, Hornbeam Park Oval, Harrogate, HG2 8RB, UK  
T +44 (0)1423 816868 F +44 (0)1423 816869 [www.kxaudio.com](http://www.kxaudio.com)

**KX**audio<sup>TM</sup>

Designed by KV2 Audio





Introduction

KX Audio are a dynamic company committed to raising the standards of Professional Audio for Bands, DJ's and touring musicians all over the world. The 'K' in KX, George Krampera, having previously designed many of the leading MI speaker products sold today, is constantly striving to improve audio resolution and performance for any person with a passion for reproducing music. Against a backdrop of compromise and cost cutting by other manufacturers KX Audio bring you the very best achievable sound along with the best value. Our parent company, KV2 Audio, are recognized as making some of the finest sounding PA products available today, and by implementing their design and philosophies we have produced a range of world beating active speakers specifically aimed at the MI market.



“For those who’ve auditioned ordinary POWERED SPEAKERS there is a stark realization of why KX Audio bring component design, acoustic design, and amplifier technology under one roof. Together they provide the key to unlock an incredible level of performance experienced by KX users all over the world today”

KX Overview

From the new multi purpose KX12, KX15 and KX30 full range systems, with an advanced technology large format Compression driver, to the already established KX1.2, KX1.5 and KX1.8 active subwoofer solutions KX Audio offers new performance standards that can only be achieved through our meticulous implementation of Application Specific Technology at every stage and in every discipline. Maintaining a consistent sound character no matter what the output level KX audio now offer a complete range of cabinets for the live musician and DJ who requires portability and value but refuses to compromise on quality.

One for the Road

Combining 18mm Plywood with a strong durable outer coating the KX12, KX15 and KX30 offer the ultimate combination of a natural sounding product with a level of protection much greater than conventional plastic cabinets for the rigours of the road. Our KX1.2, KX1.5 and KX1.8 subwoofers are made from the highest quality Baltic Birch Plywood protected by our industry standard “Tour Grade” paintwork.

The Best Components

Every loudspeaker used in a KX Audio system and is specifically developed for its application and represents the cutting edge of transducer Design. This leads to components that become the ultimate solution for their given application, not just an off the shelf driver made to function adequately well as is so often seen. In creating KX audio products we have embarked on an intense journey to develop components that achieve the strongest combination of output, power handling and control but also to specifically reduce distortion in all our designs. Our goal was based on the audibility limits of the human ear with odd and even harmonics. Generally speaking we can only hear distortion levels of even harmonics when they reach levels of 1% - 2%, but we can hear distortion levels as low as 0.1% in odd harmonics of a signal. By dropping the amount of 3rd harmonic distortion from 1% to 0.1% in our speakers we have dramatically increased the true dynamic range. This has been achieved through transducer design and supporting electronics with KX Audio products boasting up to 20db greater dynamic range than our competitors products. Add to this a wide dispersion shallow horn with a mild compression ratio and you are really maximising the transfer of pure musical energy to an audience - where it matters.

Play Louder for Longer

Focusing on the technologies of heat dissipation, speaker loading and the correct mounting of components we deal with the key part that Power Compression plays in a system's overall performance, an important area often overlooked. At this point other manufacturers bold claims of extremely high SPL's become tarnished as measurements 30 minutes into a show often reveal reductions of up to 6dB in overall output.

“KX Audio systems are designed to deliver consistent power, with a high dynamic content, ALL NIGHT LONG”

Amplification

KX Audio design amplifiers from the ground up. This approach allows us to employ and refine the perfect types of power for accurately reproducing highs, mids and bass frequencies. Low frequency devices have a unique set of requirements. Woofers are large, heavy and difficult to keep under control. On one hand you need lots of power but besides cone size and weight the single most important trait is the woofer's phase shift characteristics. Under phase shift conditions, you may be required to produce double the current at half the voltage in order to keep the woofer under control. A standard amplifier cannot accommodate this so we developed a new amplifier topology capable of providing much higher current and better damping than a standard Class H or Class D design. Achieving over 90% efficiency this design also minimizes cooling requirements and increases reliability. For sound quality reasons in mid and high frequency reproduction we use an exclusive new patent pending design of a High Power Bandwidth amplifier. Compared with standard I.C. high frequency amplifiers the warmth and clarity provided by this amplifier is ideal for smooth vocal reproduction, increased projection and extended high frequency response.

“Our new large format compression drivers offer distortion levels measuring up to 30 times lower than other comparable products”



# The KX Product Range



## KX30 Extreme Resolution Loudspeaker System

The KX30 is a high powered three way full range active speaker system. The 6.5” horn loaded midrange provides exceptional vocal reproduction working alongside a powerful 15” woofer in an increased volume enclosure to deliver low frequencies with extreme definition, authority and weight. On board electronics ensure fast, easy set up and complete control with phase alignment, equalization and speaker protection integrated into the KX30’s amplifier module.

- Applications**
- Portable P.A. for Solo Artists, Duos and Live Bands.
  - High Quality DJ, Karaoke and A.V playback.
  - High Powered full range or Mid High when used with KX Active subwoofers.
  - Budget Installed sound.

- Features**
- Professional, 18mm Plywood construction with heavy duty protective coating.
  - Durable Rubber top and bottom end caps for increased protection.
  - 132dB Output with high dynamic range and low noise floor.
  - 1000W of total power with complete on-board speaker management system.
  - 850W high efficiency, current enhancing, switching low frequency amplifier.
  - 15” high efficiency woofer for improved low frequency reproduction and increased output.
  - High Power Bandwidth 100W Mid frequency amplifier.
  - 6.5” horn loaded mid range speaker for improved vocal reproduction and increased output.
  - High Power Bandwidth 50W high frequency amplifier.
  - Advanced Technology Titanium diaphragm compression driver, 1.0” exit with exceptionally low distortion and extended frequency response.
  - Wide dispersion, 90° H x 40° V rotatable horn.
  - Two recessed, centre balanced side handles for simplified handling and carrying.
  - Three recessed M10 suspension points for flexible rigging and installation options.
  - Top hat for pole mounting applications.
  - Low frequency Low pass output for correct set up and equalisation when adding a KX series active subwoofer.
  - 2 Dual colour LED indicators for signal present, limiter, thermal condition and power ON status.



## KX15 Extreme Resolution Loudspeaker System

The KX15 is a 2-way, high-output, full-range active speaker system. Building on the success of KX12 with its powerful 15” motor it offers strong low frequency reproduction and a substantially increased overall output. On-board electronics ensure fast, easy set up and complete control with phase alignment, equalization and speaker protection integrated into the KX15’s amplifier module.

- Applications**
- Portable P.A. for Solo Artists, Duos and Live Bands.
  - High Quality DJ, Karaoke and A.V playback.
  - High Powered Mid High when used with KX Active subwoofers.
  - Budget Installed sound.

- Features**
- Professional, 18mm Plywood construction with heavy duty protective coating.
  - Durable Rubber top and bottom end caps for increased protection.
  - 129dB Output with high dynamic range and low noise floor.
  - 500W of total power with complete on-board speaker management system.
  - 450W high efficiency, current enhancing, switching low frequency amplifier.
  - High Power Bandwidth 50W high frequency amplifier.
  - Wide dispersion, 80° H x 40° V rotatable horn.
  - New patent-pending 2.5” (63mm) Titanium diaphragm compression driver, 1.4” exit with exceptionally low distortion, extended frequency response and a neodymium magnet structure.
  - 15” high efficiency woofer for improved low frequency reproduction and increased output.
  - Three recessed M10 suspension points for flexible rigging and installation options.
  - Top hat for pole mounting applications.
  - 2 Dual colour LED indicators for signal present, limiter, thermal condition and power ON status.



## KX12 Extreme Resolution Loudspeaker System

The KX12 is a compact 2-way, high-output, full-range active speaker system. Despite its 12” woofer and remarkably small footprint it successfully takes on many larger 15” models. The KX12 is favoured by Bands DJ's and touring musicians all over the world for its sheer quality and tremendous output. On-board electronics ensure fast, easy set up and complete control with phase alignment, equalization and speaker protection integrated into the KX12’s amplifier module.

- Applications**
- Portable P.A. for Solo Artists, Duos and Live Bands.
  - High Quality DJ, Karaoke and A.V playback.
  - High Powered Mid High when used with KX Active subwoofers.
  - Budget Installed sound.

- Features**
- Professional, 18mm Plywood construction with heavy duty protective coating.
  - Durable Rubber top and bottom end caps for increased protection.
  - 126dB Output with high dynamic range and low noise floor.
  - 500W of total power with complete on-board speaker management system.
  - 450W high efficiency, current enhancing, switching low frequency amplifier.
  - High Power Bandwidth 50W high frequency amplifier.
  - Wide dispersion, 80° H x 40° V rotatable horn.
  - New patent-pending 2.5” (63mm) Titanium diaphragm compression driver, 1.4” exit with exceptionally low distortion, extended frequency response and a neodymium magnet structure.
  - 12” woofer with neodymium magnetic motor structure for dramatically increased force.
  - Three recessed M10 suspension points for flexible rigging and installation options.
  - Top hat for pole mounting applications.
  - 2 Dual colour LED indicators for signal present, limiter, thermal condition and power ON status.



## KX1.2 The Ultimate Ultra Compact Active Subwoofer System

KX1.2 is the smallest subwoofer in the KX series and provides a substantial low frequency output that belies its size. Housing a single 12” Neodymium woofer it is a truly portable unit that can be used to extend the usable frequency range of any loudspeaker system. Its extended low frequency response and high SPL make it an excellent choice for many applications. On-board electronics ensure fast, easy set up and complete control with stereo electronic crossovers, equalization and speaker protection integrated into the KX1.2’s amplifier module.

- Applications**
- Portable P.A. for Solo Artists, Duos and Live Bands.
  - Mobile DJ Sub bass reinforcement.
  - Stand-alone subwoofer to supplement an existing passive or active system.

- Features**
- Active high output, single 12”sub bass module.
  - 500W high-efficiency, high current amplifier.
  - Double, asymmetric acoustic chambers provide very high loading and high acoustic output.
  - Complete, on-board subwoofer management including equalization, crossover filters, amplifier overdrive protection, output level and phase controls.
  - Left & Right Stereo or Mono inputs with through signal outputs and high pass outputs.
  - 12” neodymium, high output, high efficiency low frequency driver with 3” (75mm) high temperature voice coil assembly and reinforced, treated cellulose cone assembly.
  - Professional, Baltic birch construction with highly resistant polymer coating.
  - Two recessed, centre balanced side handles for simplified handling and carrying.
  - High impact, low friction feet are located on bottom. Registered cut-outs are placed on top of cabinet allowing for interlocking and stacking of multiple cabinets.
  - Top hat for pole insertion.
  - LED indicators for signal present, limiter, thermal condition and power ON status.



## KX1.5 The Ultimate Compact Active Subwoofer System

For Larger applications the KX1.5 with a single 15”Neodymium woofer offers increased output comparable to many larger 18” units. KX1.5 delivers low frequencies with authority, weight, extreme sustained output and definition. Easily portable the KX1.5’s on-board electronics ensure fast, easy set up and complete control with stereo electronic crossovers, equalization and speaker protection integrated into the KX1.5’s amplifier module.

- Applications**
- Portable P.A. for Solo Artists, Duos and Live Bands.
  - Mobile DJ Sub bass reinforcement.
  - Stand-alone subwoofer to supplement an existing passive or active system.

- Features**
- Active high output, single 15”sub bass module.
  - 500 Watt high-efficiency, high current amplifier.
  - Double, asymmetric acoustic chambers provide very high loading and high acoustic output.
  - Complete, on-board subwoofer management including equalization, crossover filters, amplifier overdrive protection, output level and phase controls.
  - Left & Right Stereo or Mono inputs with through signal outputs and high pass outputs.
  - 15” neodymium, high output, high efficiency low frequency driver with 3” (75mm) high temperature voice coil assembly and reinforced, treated cellulose cone assembly.
  - Professional, Baltic birch construction with highly resistant polymer coating.
  - Two recessed, centre balanced side handles for simplified handling and carrying.
  - High impact, low friction feet are located on bottom. Registered cut-outs are placed on top of cabinet allowing for interlocking and stacking of multiple cabinets.
  - Top hat for pole insertion and speaker placement.
  - LED indicators for signal present, limiter, thermal condition and power ON status.



## KX1.8 The Ultimate Active Subwoofer System

Completing the range of KX active subwoofer systems is the new high powered KX1.8. The KX1.8 utilises an efficient 800W switching high current amplifier coupled to a state of the art 18”super low frequency woofer. Unusual in its powerful ultra low frequency reproduction down to 28Hz the cabinet also packs a punch and delivers quick articulate bass lines not usually achieved by 18” enclosures. Easily portable with its innovative two wheel transport system the KX1.8 features stereo electronic crossovers, equalization and speaker protection integrated into the amplifier module.

- Applications**
- Portable P.A. for Solo Artists, Duos and Live Bands.
  - Mobile DJ Sub bass reinforcement.
  - Stand-alone subwoofer to supplement an existing passive or active system.

- Features**
- Active high output, single 18”sub bass module.
  - 800 Watt high-efficiency, high current amplifier.
  - Double, asymmetric acoustic chambers provide very high loading and high acoustic output.
  - Complete, on-board subwoofer management including equalization, crossover filters, amplifier overdrive protection, output level and phase controls.
  - Left & Right Stereo or Mono inputs with through signal outputs and high pass outputs.
  - 18” high output, ultra low frequency driver with 4” (100mm) high temperature voice coil assembly and reinforced, treated cellulose cone assembly.
  - Professional, Baltic birch construction with highly resistant polymer coating.
  - Four recessed, centre balanced side and top handles coupled with 2 integrated wheels for increased manoeuvrability and easy transportation.
  - High impact, low friction feet are located on bottom. Registered cut-outs are placed on top of cabinet allowing for interlocking and stacking of multiple cabinets.
  - Top hat for pole insertion and speaker placement.
  - LED indicators for signal present, limiter, thermal condition and power ON status.



KX Specifications

PRODUCT	KX30	KX15
System Acoustic Performance -3dB Response -10dB Response Max SPL Crossover Point	48Hz -18kHz 42Hz -24kHz 132dB 500Hz 3kHz	58Hz – 18kHz 50Hz – 24kHz 129dB 1.0kHz
Signal Input Input Impedance Input Sensitivity	20kΩ 0.75V rms	20kΩ 0.75V rms
High frequency section Throat Exit Diameter /Diaphragm Size Diaphragm Material Magnet Type Horn with constant Directivity Coverage Horizontal / Vertical	1.0" / 1.5" Titanium Ferrite  90° x 40° Rotatable	1.4" / 2.5" Titanium Neodymium  80° x 40° Rotatable
High frequency amplifier specification Type Rated Continuous Power Distortion Operating Bandwidth	High Power Bandwidth 50W <0.05% 3.0kHz - 24kHz	High Power Bandwidth 50W <0.05% 1.0kHz – 24kHz
Mid frequency section Mid Range Cone Size / Voice Coil Diameter Magnet Type Horn with constant Directivity	6.5" / 1.5" Neodymium 90° x 40° Rotatable	N/A N/A N/A
Mid frequency amplifier Type Rated Continuous Power Distortion Operating Bandwidth	High Power Bandwidth 100W <0.05% 500Hz -3kHz	N/A N/A N/A N/A
Low frequency section Acoustic Design Woofer Size/ Voice Coil Diameter/ Design Diaphragm Material Magnet Type	Front Loaded, Bass Reflex 15" / 3" / Inside-outside Epoxy Reinforced Cellulose Ferrite	Front Loaded, Bass Reflex 15" / 2.5" / inside-outside Epoxy Reinforced Cellulose Ferrite
Low Frequency amplifier specification Type Rated Continuous Power Distortion Operating Bandwidth	High Efficiency Switching 850W <0.05% 42Hz -500Hz	High Efficiency Switching 450W <0.05% 50Hz – 1.0kHz
Physical Dimensions Height Width Depth Weight	1152mm (45.35") 468mm (18.43") 379mm (14.92") 41kg (90.4lbs)	770mm (30.31") 480mm (18.90") 380mm (14.96") 32kg (70.4lbs)
Power Connector	IEC 320	IEC 320
Recommended Amperage	10A 115V 5A 230V	5A 115V 2.5A 230V
Operating Voltage	100 -120V @ 60Hz 230 -250V @ 50Hz	100-120V @ 60Hz 230-250V @ 50Hz

KX12	KX1.2	KX1.5	KX1.8
58Hz – 18kHz 50Hz – 24kHz 126dB 1.3kHz	38Hz – 125Hz 32Hz – 125Hz 127dB 125Hz	38Hz – 125Hz 32Hz – 125Hz 130dB 125Hz	38Hz – 125Hz 28Hz – 125Hz 133dB 125Hz
20kΩ 0.75V rms	20kΩ 0.75V rms	20kΩ 0.75V rms	20kΩ 1.0V rms
1.4" / 2.5" Titanium Neodymium  80° x 40° Rotatable	N/A N/A N/A  N/A	N/A N/A N/A  N/A	N/A N/A N/A  N/A
High Power Bandwidth 50W <0.05% 1.3kHz – 24kHz	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A
N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A
Front Loaded, Bass Reflex 12" / 2.5" / inside-outside Epoxy Reinforced Cellulose Neodymium	Twin Asymmetrical loading 12" / 3" / Inside-outside Epoxy Reinforced Cellulose Neodymium	Twin Asymmetrical loading 15" / 3" / Inside-outside Epoxy Reinforced Cellulose Neodymium	Twin Asymmetrical loading 18" / 4" / Inside-outside Epoxy Reinforced Cellulose Ferrite
High Efficiency Switching 450W <0.05% 50Hz – 1.3kHz	High Efficiency Switching 500W <0.05% 32Hz – 125Hz	High Efficiency Switching 500W <0.05% 32Hz – 125Hz	High Efficiency Switching 800W <0.05% 28Hz – 125Hz
680mm (26.77") 400mm (15.75") 360mm (14.17") 27kg (59.4lbs)	370mm (14.57") 550mm (21.65") 570mm (22.44") 32kg (70.4lbs)	510mm (20.08") 550mm (21.65") 570mm (22.44") 37kg (81.4lbs)	830mm (32.67") 550mm (21.65") 570mm (22.44") 58kg (128lbs)
IEC 320	IEC 320	IEC 320	IEC 320
5A 115V 2.5A 230V	6A 115V 3A 230V	6A 115V 3A 230V	10A 115V 5A 230V
100-120V @ 60Hz 230-250V @ 50Hz	100-120V @ 60Hz 230-250V @ 50Hz	100-120V @ 60Hz 230-250V @ 50Hz	100-120V @ 60Hz 230-250V @ 50Hz