



LINEAR 5

THE NEW PERFORMANCE CLASS



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Professional wood cabinets, premium components and innovative technologies make LINEAR 5 the loudest speaker line in its class.

A wide selection of short and long throw solutions, passive and powered models and bespoke controller-driven amps furnishes everything professional bands and PA providers need to get the job done, day in and day out. What's more, every option is a premium-quality, flexible and remarkably affordable solution – all made in Germany.



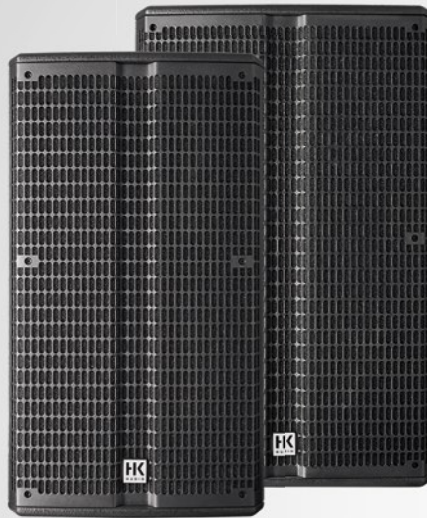


LINEAR 5 ACTIVE & PASSIVE MID/HIGH UNITS



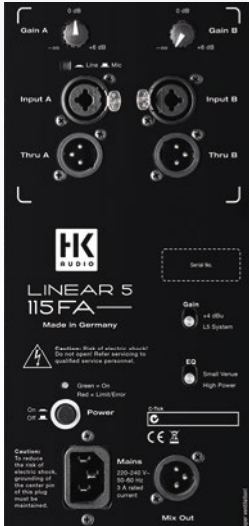
Linear 5 112 X/XA

Fine-tuned for rendering speech in the key frequency range starting at 100 hertz, the L5 112 X/XA is predestined for use as a mid/high unit to cover great throw distances. Such applications do not require a tremendous amount of low-end reinforcement, so HK Audio opted for an ingenious space-saving housing that is angled, surprisingly compact, and equipped with a 60° x 40° CD horn for optimum directivity. Able to handle plenty of gain before feedback, this multifunctional enclosure can even serve as a powerful stage monitor.



LINEAR 5 112 F/FA LINEAR 5 115 F/FA

These are two extraordinarily versatile fullrange models. Just two L5 112 F/FA units mounted on speaker stands can provide genuine fullrange coverage. The L5 115 F/FA delivers rich, low-ranging bass response that will satisfy even the challenging monitoring demands of discerning DJs. Both models feature an asymmetrical, rotatable constant directivity horn (60°-90° x 55°) that provides wide-ranging coverage in the near field, paired with plenty of long-distance reach. Variable EQ presets let you adapt the frequency response: a flip of a switch is all it takes to transform these fullrange speakers for small to midsize rooms into powerful top units for LINEAR subwoofers.



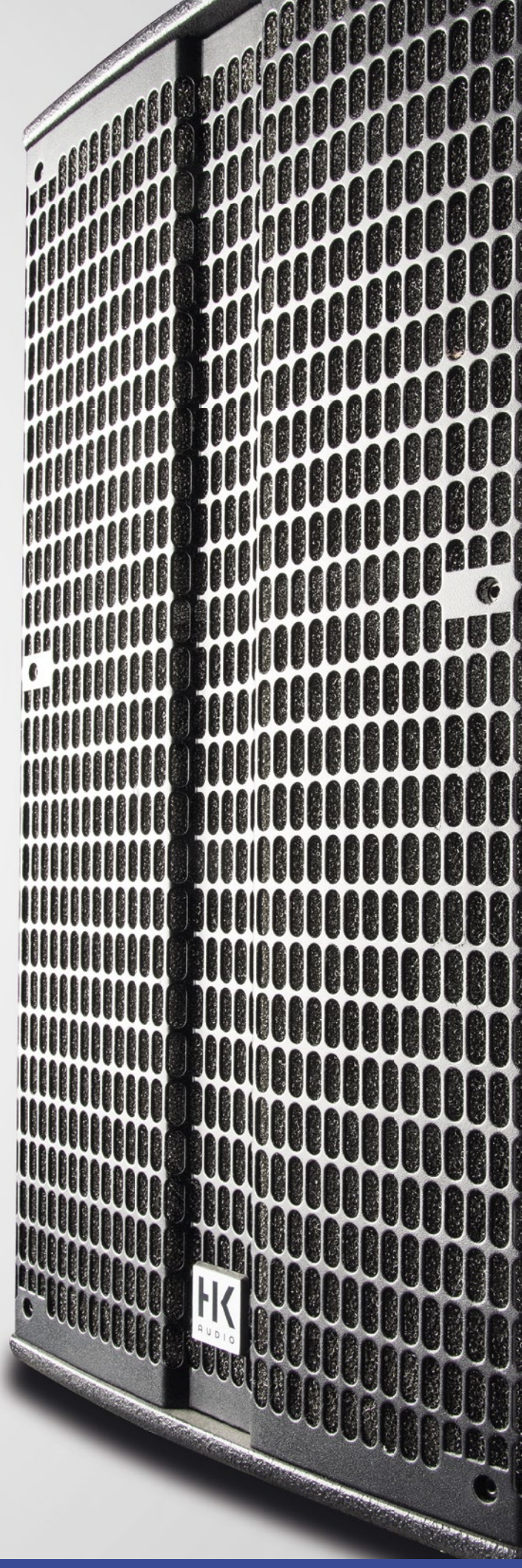
Panel L5 115 FA



Panel L5 115 F

Features

All models are equipped with two class D amplifiers, one each for the tweeter and woofer. The integrated controller provides three active protective circuits (short circuit, thermal, over/under voltage), a peak limiter and a subsonic filter to maximize both load handling and component life.



LINEAR 5 ACTIVE & PASSIVE MID/HIGH UNITS

LINEAR 5 LTS / LTS A

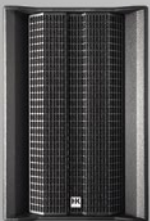
Long throw. Ultra compact. Economical.

What does it take to throw the entire frequency spectrum over 30 meters and beyond? Only large line arrays pack a punch powerful enough to deliver that kind of performance. Until now, that is.

LINEAR 5 LTS / LTS A has arrived, and it's the first speaker to deliver real long throw performance in an ultra-compact format. Now you can hit the road with fewer speaker components in tow, saving valuable space on your truck. What's more, you can set up, stack and fly rigs that much faster and easier.

The new LINEAR 5 LTS / LTS A is not only the easiest way of treating audiences of up to 3,000 to the best sound; it's also the most economical option out there.

Setups



Solo



Horizontal Cluster



Head Stacking



Head Stacking Cluster

LONG THROW.

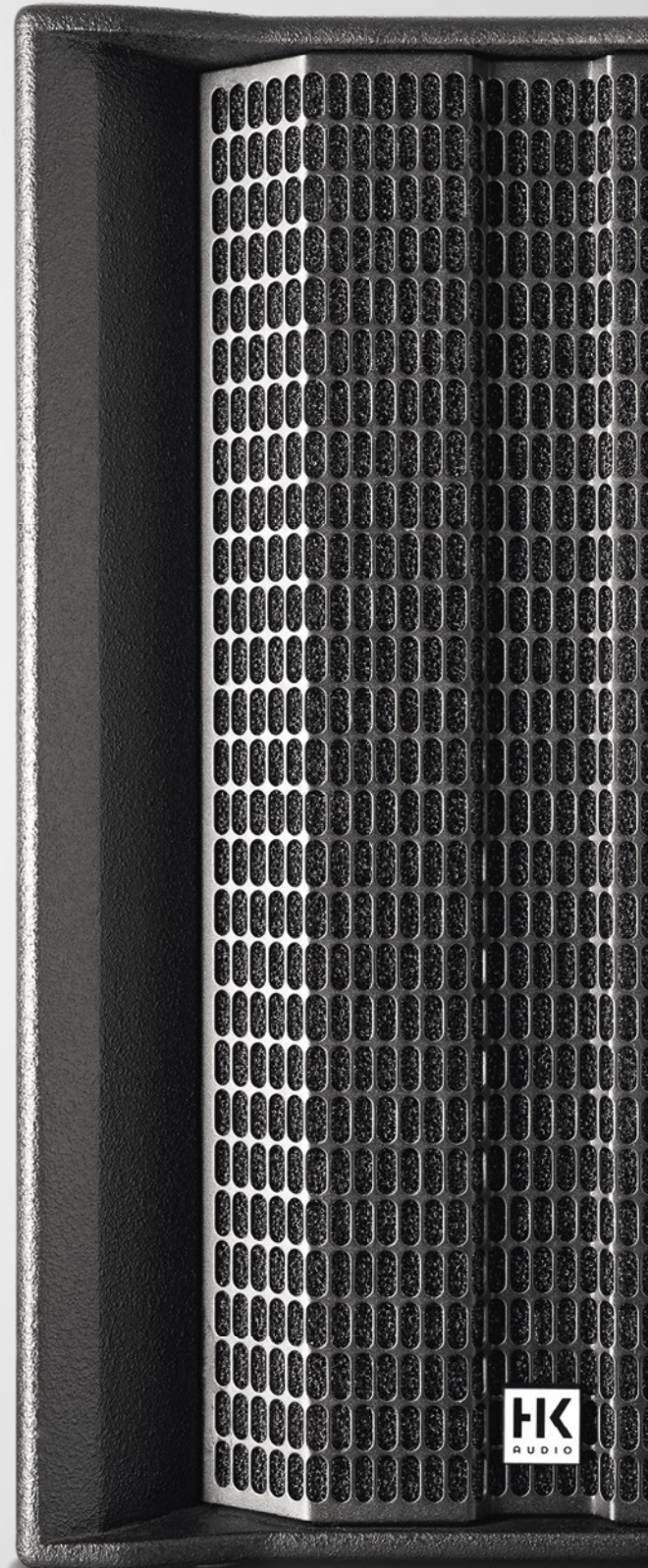
Whether it's 30, 40 or 50 meters – the new LTS / LTS A mid/high unit throws the sonic image as far as it needs to go, sending even silky top-end frequencies all the way to the back row. This is made possible thanks to HK Audio's groundbreaking Multicell Transformer technology. This ingenious invention drastically reduces high frequency distortion, thereby solving a major problem of legacy horn and waveguide designs: they generate distortion that limits the amount of useful sound pressure. Equipped with this proprietary technology, the LTS / LTS A is able to deliver 138 dB SPL, an exceptionally high maximum by any standard. This awesome power, paired with a curved array created by the multiple cells, extends the range to cover the entire sound field with a crystal-clear audio image.

ULTRA COMPACT.

The pioneering Multicell Transformer makes setting up compact speaker systems an exercise in convenience. The latest generation LINEAR 5 series model is housed in an ultra-compact 68 x 44 x 46 cm enclosure. Tipping the scales at just 24.9 kg, LTS / LTS A can easily replace speakers twice its size and weight to save truck space and make installation in a rig so much easier. LTS / LTS A's classic streamlined format is certainly a refreshing change. Talk about intuitive handling: finally, here's a straightforward design that can be stacked on the ground or on its head, and clustered with remarkable ease and flexibility. All this contributes to making LTS / LTS A easily the most flexible tool in its class.

ECONOMICAL.

Sophisticated features, a remarkably affordable price, a small footprint and fast setup. With the LINEAR 5 LTS / LTS A, your savings are threefold: peoplepower, truck space and time. This gives you far greater leeway for planning the given production's budget, as well as making the LTS / LTS A the most economical solution in its application range.



THE INNOVATIVE MULTICELL TRANSFORMER

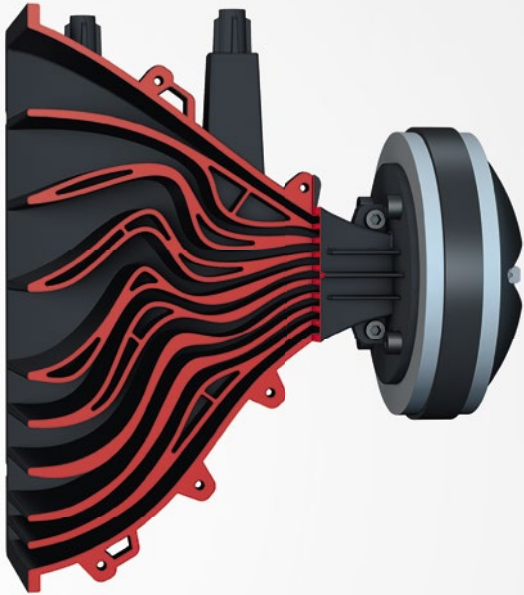
To date, there have been two ways to construct long range speaker systems. The time-tested approach is to use long throw horns. They have to have very large mouths and deep enclosures to accommodate the horn's throat, so the housings are huge. Plus, there's a lot of real estate inside the horn. These surfaces cause resonances and reflections that manifest as distortion, particularly at high frequencies. This distortion puts a very low cap on the maximum achievable sound pressure.

The other option for long throw applications, the line array, has been around for about 20 years. Waveguides shape the wave-front so that the line array is able to render even high frequencies well. The downside is that you have to haul, assemble and align a whole lot of speakers even for small or medium-scale events, which costs you truck space, time and money.

HK Audio engineers took up the challenge of reinventing the long throw speaker and came up with a groundbreaking solution: the Multicell Transformer (MCT). This ingenious invention makes the most of horns' and waveguides' physical advantages, with none of the drawbacks. The mouths of the nine horn channels form a line array, with sound traveling down channels of different lengths to achieve different delay times. This yields a perfect vertical curve and a very precise $+5^{\circ}/-25^{\circ}$ pattern of throw.

With these unique properties, the MCT achieves the performance of comparable horns and waveguides at a fraction of their size. This revolutionary advance in technology is the key to building sensationally small and streamlined speakers.





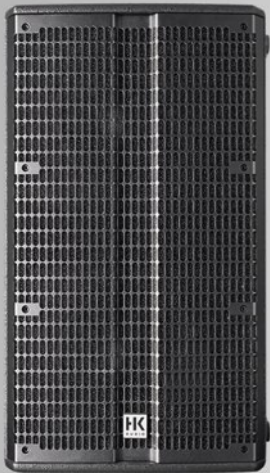
Here's a simplified run-down of how it works: the MCT splits the wavefront into nine small wavefronts. Each of these partial waves is directed through the flaring duct of a horn of different length and mouth size. These horns don't have acres of real estate that can cause interference, so the only distortion they generate is beyond the range of human hearing. This increases useful sound pressure by up to 10 dB.



Thanks to the MCT horn's asymmetrical directivity, two LINEAR 5 LTS / LTS A units can be set up together in an 'acoustically correct' head stack.

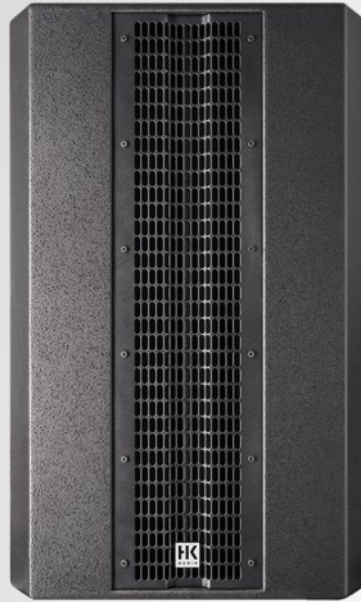
LINEAR ACTIVE & PASSIVE SUBWOOFERS

The LINEAR series subwoofers' visuals are coordinated to match the looks of the LINEAR 5 top units, and their audio performance is no less a perfect fit. With a choice of three fundamentally different models, you can put together the optimum system for the given application range.



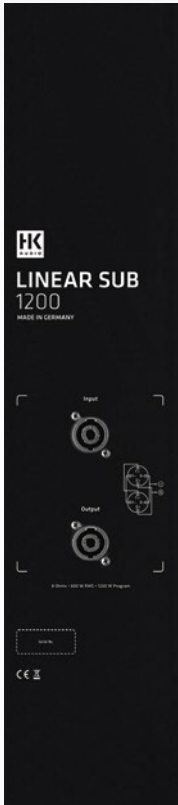
LINEAR SUB 1200 / 1200 A

The L SUB 1200 / 1200 A is designed to match the L5 112 F/FA. Thanks to the remarkably faithful transient response of its two 10" woofers, this bass-reflex enclosure delivers tight, punchy low-end performance. The compact 10" speakers pack a lot of sound pressure into the 112 L5 F/FA's very small footprint. Sporting the same 1200-watt digital power amp as the L SUB 2000 A, the active L SUB 1200 A unit feeds this extra power to a Speakon output. If you wish to extend your system with a lean, light yet extremely powerful full stack, all you have to do is connect a passive L SUB 1200 to this output.



LINEAR SUB 2000 / 2000 A

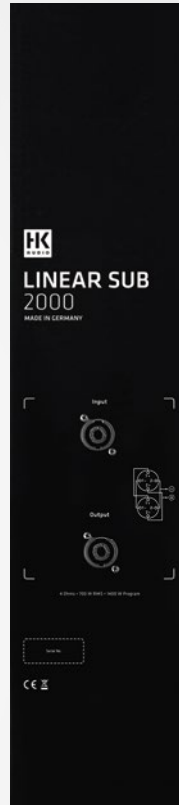
The L SUB 2000 / 2000 A is the perfect complement to the L5 115 F/FA. Two 12" high-excursion woofers operate in a band-pass enclosure that is sure to delight with its hair-trigger dynamic response and an impressive range that extends down below 40 hertz. This unit delivers the goods not just at impulse peaks, but also at a continuous load! To this end, each woofer is equipped with a dual spider suspension that keeps the voice coil aligned and on track even at the most extreme loads. Advanced cooling technology effectively prevents the voice coil from overheating. Powered by an ultra light 1200-watt digital power amp, the active L SUB 2000 A outweighs its passive counterpart by just two kilograms!



Panel L SUB 1200



Panel L SUB 1200 A



Panel L SUB 2000



Panel L SUB 2000 A

Features

The integrated amplifier provides three active protective circuits (short circuit, thermal, over/under voltage), a peak limiter and a subsonic filter to maximize both load handling and component life.

All active subwoofers come with a frequency-compensated output for routing the signal to mid/high units, so combining these bass bins with L5 tops is an exercise in convenience. What's more, all models sport an integrated stereo preamp that lets you set up 2.1 systems or add a center subwoofer to a stereo system – with remarkable ease and just two speaker cables!

LINEAR ACTIVE & PASSIVE SUBWOOFERS

LINEAR SUB 4000 / 4000 A

Powerful and Versatile

L SUB 4000 / 4000 A is the flexible new 18" subwoofer from HK Audio.

Compatible with all LINEAR 5 fullrange speakers and mid/high units, its powerful low end – ranging from 30 to 100 hertz – is totally and powerfully impressive.

L SUB 4000 / 4000 A can also serve as a sub-low add-on to LINEAR SUB 2000 to beef up the bottom end in the range of 30 to 70 hertz.

Innovative and Combinable

The chambers of this double-ventilated band-pass enclosure were tuned differently, and optimized for ultra-low signals and kick drums.

L SUB 4000 / 4000 A can be deployed flexibly as the sole subwoofer for a PA or as a sub-low extension unit.

HK Audio engineers tuned the L SUB 4000/4000 A's band-pass enclosure and electronics to deliver phase-corrected response when paired with the L SUB 2000 / 2000 A. This means the L SUB 4000 / 4000 A can be added to a legacy system without requiring additional outboard controllers. The built-in preamp is stereo, so a single L SUB 4000 / 4000 A may be deployed as a central sub-low bin for a stereo system.

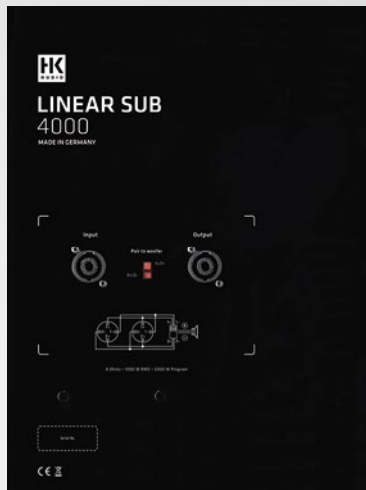
Dynamic and Faithful Response

Rugged high-tech courtesy of German engineering: HK Audio has decades of experience developing advanced sound reinforcement solutions, and the L SUB 4000 / 4000 A has also benefitted from our engineers' unique skillset.

This subwoofer delivers high maximum SPL paired with dynamic, deep-ranging response, and renders signal peaks with remarkable fidelity even when pushed very hard. Its robust wood housing is built to withstand the wear and tear of daily use.

L SUB 4000 / 4000 A is perfectly suited for professional gigs and installation in clubs. Under-voltage, thermal and over-current protection circuits and a peak limiter keep the electronic components safe from overloads to ensure this unit will keep delivering reliable performances for many, many tomorrows to come.

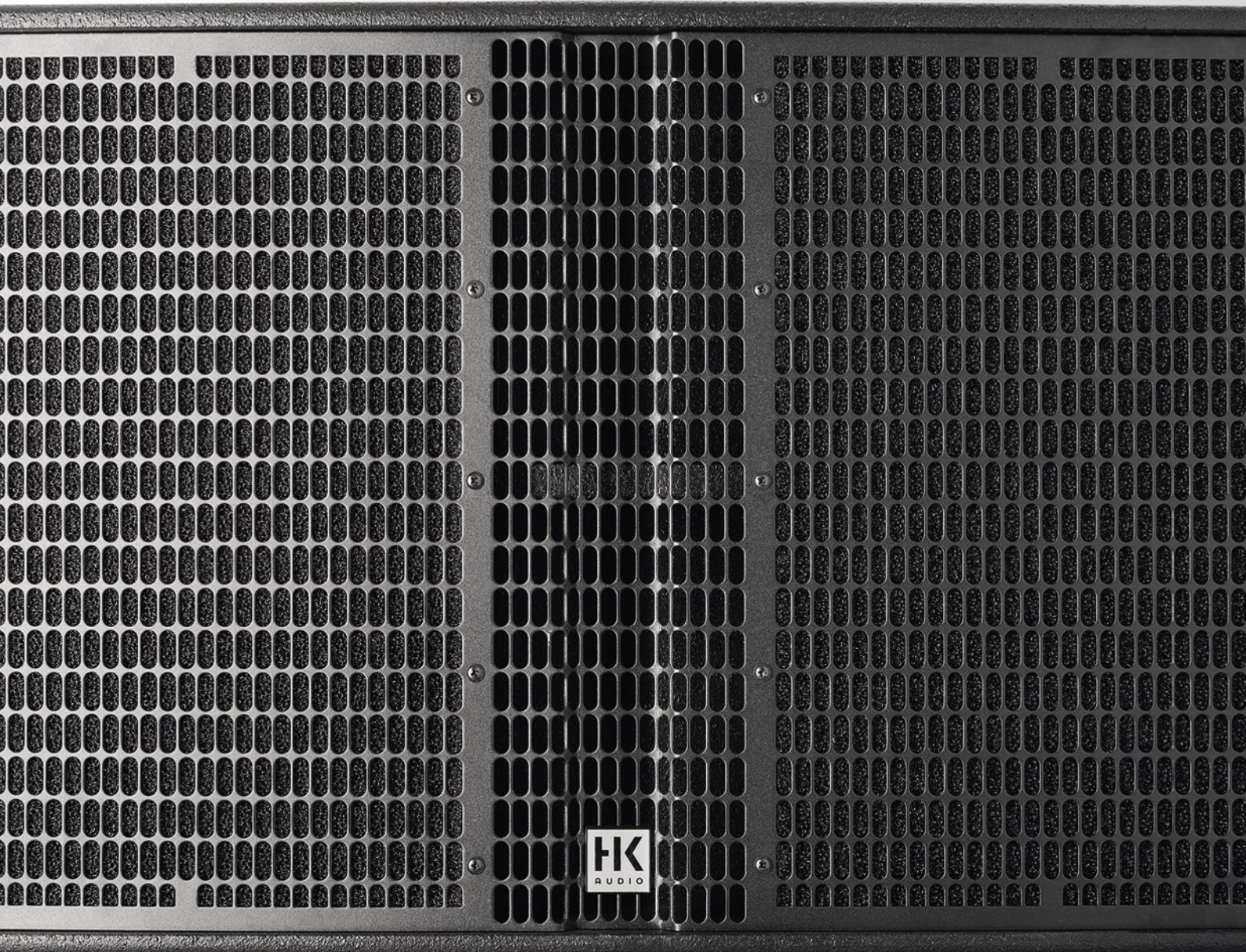




Panel L SUB 4000



Panel L SUB 4000 A







SUGGESTED SYSTEM SETUPS: ACTIVE



L5 Monitor Pack

3 x L5 112 XA
3 x Protective Covers

Also usable as a multifunctional loudspeaker setup or as tops in combination with LINEAR series subwoofers.



L5 Club Pack

Audience size: max. 300

2 x L5 112 FA
2 x L SUB 1200 A
2 x Distance poles
4 x Protective covers

Extendable to a full stack with
2 x L SUB 1200



L5 Power Pack

Audience size: max. 350

2 x L5 112 XA
2 x L SUB 2000 A
2 x Distance poles
4 x Protective covers

Extendable to a full stack with
2 x L SUB 2000 A



L5 Rock Pack

Audience size: max. 400

2 x L5 112 FA
2 x L SUB 1200 A
2 x L SUB 1200
6 x Protective covers
2 x Tilt unit

Extendable with additional L SUB 1200 units, for example as a center cluster.



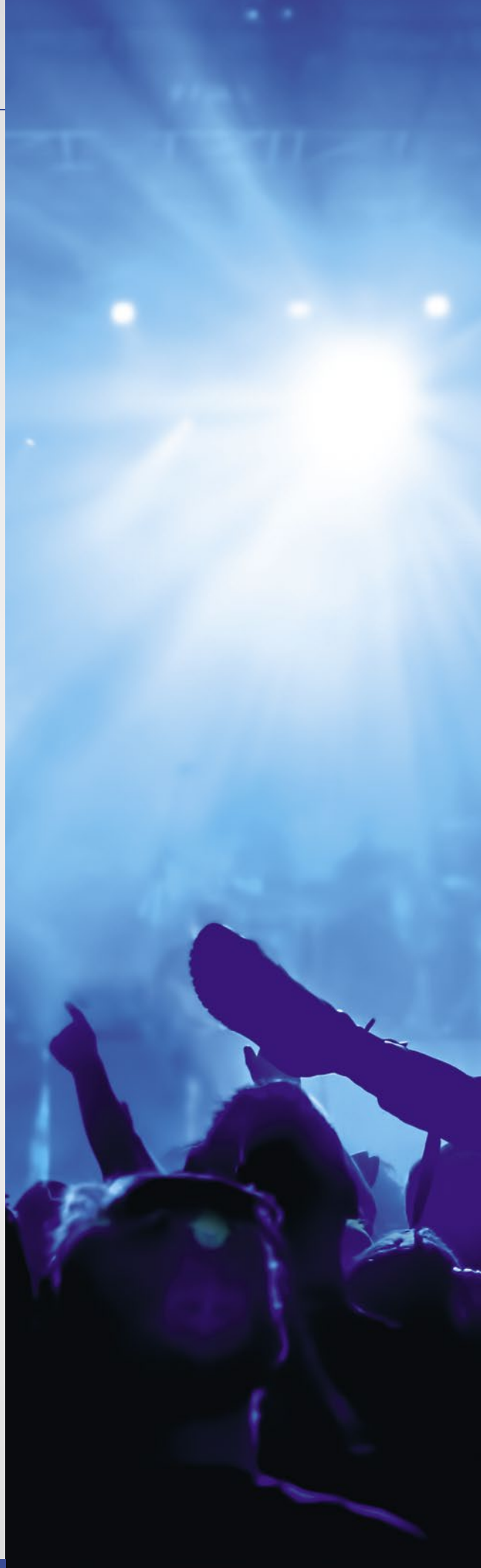
L5 Big Venue Pack

Audience size: max. 600

2 x L5 115 FA
4 x L SUB 2000 A
2 x Tilt unit
6 x Protective covers

Sub-low add-on possible with L SUB 4000 A.

A note on audience size: these are suggestions, rather than recommendations, meaning these numbers are more for your general orientation. The actual coverage will depend on the room's size, layout, appointments and furnishings, as well as the area you want to cover and the sound pressure levels you wish to achieve.



SUGGESTED SYSTEM SETUPS: ACTIVE



LTS Front PA - Long Throw Sound Reinforcement

Audience size: max. 1,000

2 x L5 LTS A
2 x Distance pole with hand crank
4 x L SUB 4000 A



L SUB 4000 A Sub Low Extension for additional Low End

Audience size: max. 1,000

2 x L5 LTS A
4 x L SUB 2000 A
2 x L SUB 4000 A



LTS Clustering for broader horizontal dispersion

Audience size: max. 1,500

4 x LTS A

6 x L SUB 4000 A



LTS for broader horizontal dispersion

Audience size: max. 1,500

4 x LTS A

6 x L SUB 4000 A

A note on audience size: these are suggestions, rather than recommendations, meaning these numbers are more for your general orientation. The actual coverage will depend on the room's size, layout, appointments and furnishings, as well as the area you want to cover and the sound pressure levels you wish to achieve.

SUGGESTED SYSTEM SETUPS: ACTIVE



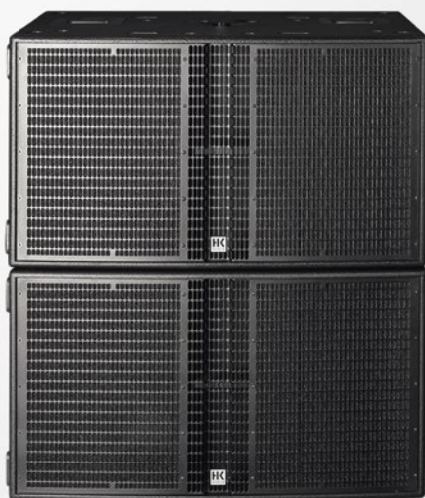
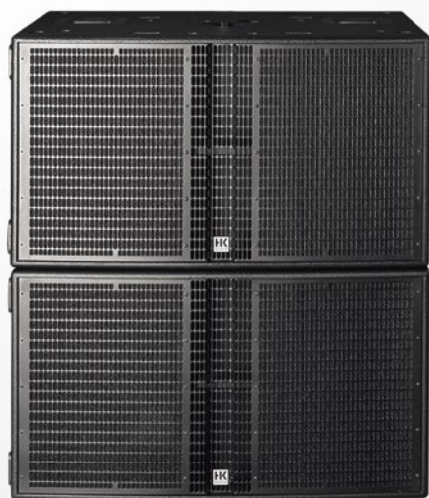
LTS Headstack Clustering for broader horizontal dispersion and further Long Throw capability

Audience size: max. 3,000

8 x L5 LTS A

12 x L SUB 4000 A

Nearfills are recommended in a setup like this



A note on audience size: these are suggestions, rather than recommendations, meaning these numbers are more for your general orientation. The actual coverage will depend on the room's size, layout, appointments and furnishings, as well as the area you want to cover and the sound pressure levels you wish to achieve.



SUGGESTED SYSTEM SETUPS: PASSIVE

HK Audio has spearheaded the drive to advance the state of the art in active sound reinforcement - that is, speakers with built-in power amps and controllers - for more than 20 years. Such integrated systems are often easier to transport, set up and operate. However, there are many applications, particularly for rental and installed systems, where a central power amp rack paired with passive speakers is the more practical or affordable solution.

Our application specialists have developed a concept for unified power racks featuring the latest generation of advanced controller amps made by market leaders Lab.gruppen. These amp racks can be easily configured to drive a variety of HK Audio speaker setups simply by selecting the appropriate filter set. A complete library of filter sets is already archived in the power amps' memories.

Key Rack 2.24

Key Rack 2.24 is a light, compact rack that is three rack units in height. It is equipped with the new, groundbreaking IPD 2400 controller amps (2 x 1200W @ 4 Ω) made by the Swedish specialist Lab.gruppen. With the two IPD 2400s, integrated power distribution, and the LoadLibrary, you get an astonishingly efficient, turnkey power-pack to drive the HK Audio LINEAR 5 LTS system.

A complete library of filter sets is already archived in the power amps' memories. A unified amp rack for professionals, versatile enough for use with smaller and larger systems, is the key to making configuration, setup and service easier, as well as maximizing the operational lifespan of your gear. Key Rack 2.24 is easy to handle, ultra efficient and remarkably affordable, with elegant remote control via PC or iPad to boot.



SUGGESTED SYSTEM SETUPS: PASSIVE



L5 Simple Monitor Setup

3 x L5 112 X
1 x L SUB 1200
1 x Key Rack 2.24



Passive L5 Rock Pack

2 x L5 112 F
2 x L SUB 1200
1 x Key Rack 2.24

One Key Rack 2.24 can drive full stacks with up to 2 x L5 112 F and 4 x L SUB 2000 units.



Passive L5 Big Venue

2 x L5 112 F (or L5 112F)
2 x L SUB 2000
1 x Key Rack 2.24

One Key Rack 2.24 can drive full stacks with up to 2 x L5 112 F and 4 x L SUB 2000 units.



**LTS Half Stack -
Efficient Long Throw Setup**

2 x L5 LTS
2 x Distance pole with hand crank
2 x L SUB 4000
1 x Key Rack 2.24



**LTS Head Stacking for further
Long Throw capability**

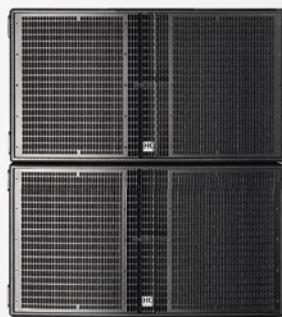
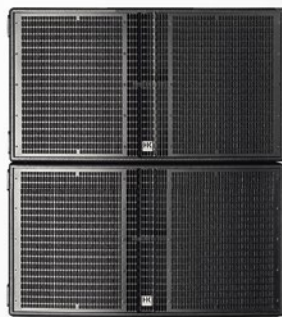
4 x L5 LTS
6 x L SUB 4000
2 x Key Rack 2.24

SUGGESTED SYSTEM SETUPS: PASSIVE



LTS Front PA - Long Throw Sound Reinforcement

- 2 x L5 LTS
- 2 x Distance pole with hand crank
- 4 x L SUB 4000
- 2 x L5 112 X for Near Fill application
- 2 x Speaker Stands
- 2 x Key Rack 2.24



LTS Clustering for broader horizontal dispersion

4 x L5 LTS
6 x L SUB 4000
2 x Key Rack 2.24



ACCESSORIES



Tilt Unit

The tilt unit permits perfect satellite-to-audience alignment using a full stack system.



Distance Pole

Height adjustable and lockable speaker mounting pole with M20 thread. Extra strong steel construction holds cabinets up to 40 kg. Adjustable from app. 90 cm – 150 cm. Weight 2.3 kg.



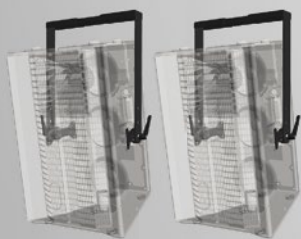
Protective Cover

Perfect-fitting padded protective transport covers are available for all LINEAR 5 series models as an optional accessory. Openings afford access to the enclosures' carrying handles.



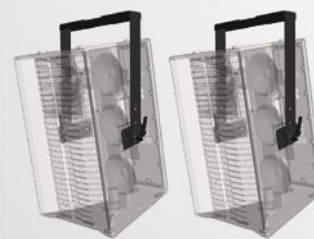
Double flange plate

For attaching two distance poles with M20 threads to one subwoofer. Delivers acoustically correct, horizontal clusters of L5 LTS units in stacking setups.



TB-N

Tilt bracket for loudspeakers in the LINEAR 5 (L5 112 F/FA, L5 115 F/FA, L5 LTS/LTS A) series. For attaching to trusses using appropriate half-couplers or trigger clamps (M12). Mounts to the speaker via clamping levers (M10). Also suitable for installation on ceilings, wall brackets or tripods. Flexible vertical and horizontal alignment.



TB-NQ (QRP)

Tilt bracket with quick release pins for loudspeakers in the LINEAR 5 (L5 112 F/ FA, L5 115 F/FA, L5 LTS/LTS A) series. For attaching to trusses using appropriate half-couplers or trigger clamps (M12). Quick installation through ball lock pins. Also suitable for installation on ceilings, wall brackets or tripods. Flexible vertical and horizontal alignment.



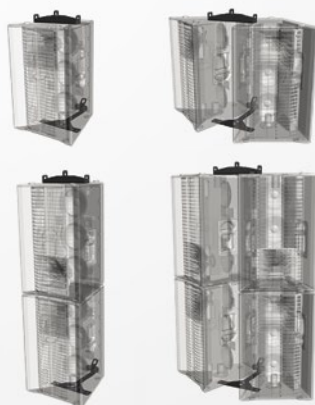
AP-8

This attachment point has a workload limit (WLL) of 360 kg / 794 lbs. It safely attaches enclosures with M8 rigging points to steel cables or chains.



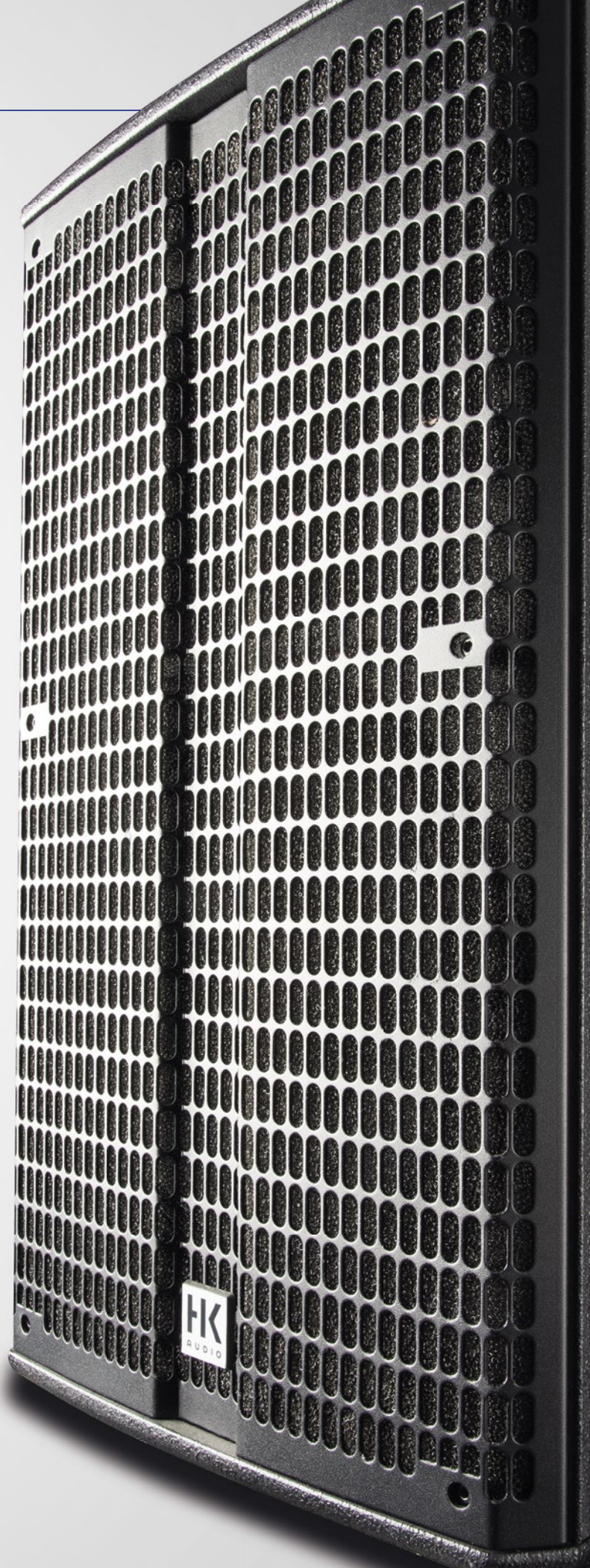
TB-HES

Tilt bracket extension (compatible with TB-N / TB-NQ) for L5 LTS head stacking applications.



PP-CP

This set, composed of one pick point and one clustering plate, offers either two or three attachment points for flying and angling L5 LTS units. Suitable for use in single, head stack, cluster, and head stack cluster operating modes.

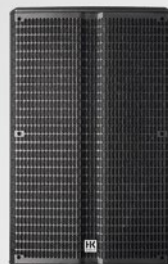






TECHNICAL DATA

Mid/high units: active



Parameter	L5 112 FA	L5 112 XA	L5 115 FA	L5 LTS A
Max. SPL @ 10% THD	127 dB half space (70 Hz - 12 kHz averaged)	128 dB half space (70 Hz - 12 kHz averaged)	128 dB half space (58 Hz - 12 kHz averaged)	133 dB half space (100 Hz - 12 kHz averaged)
Max. SPL peak @ 10 % THD	135 dB half space	136 dB half space	137 dB half space	138 dB half space
Frequency response +/-3 dB	70 Hz - 12 kHz	100 Hz - 12 kHz	60 Hz - 17 kHz	115 Hz - 14 kHz
Frequency response -10 dB	57 Hz - 19 kHz	75 Hz - 20 kHz	50 Hz - 20 kHz	100 Hz - 20 kHz
Power amp output (peak power)	1000 W	1000 W	1000 W	1000 W
Amp type	Class D - biamped	Class D - biamped	Class D - biamped	Class D - biamped
Active protective circuits	Under-voltage, thermal, short circuit, and over-current protection, Subsonic 24 dB/oct. peak limiter	Under-voltage, thermal, short circuit, and over-current protection, Subsonic 24 dB/oct. peak limiter	Under-voltage, thermal, short circuit, and over-current protection, Subsonic 24 dB/oct. peak limiter	Under-voltage, thermal, short circuit, and over-current protection, Subsonic 24 dB/oct. peak limiter
Low-/mid speaker	1x 12", 2.5" voice coil	1x 12", 2.5" voice coil	1x 15", 3" voice coil	3 x 8", 2" voice coil (neodymium)
HF driver	1", 1.75" voice coil	1", 1.75" voice coil	1", 1.75" voice coil	1", 1.75" voice coil
Horn directivity	60°-90° (asymmetrical) x 55° CD-Horn, rotatable	60° x 40° CD horn, rotatable	60°-90° (asymmetrical) x 55° CD-Horn, rotatable	60° x +5°/-25° MCT horn
Active crossover frequency	1.65 kHz, 24 dB/Oct.	1.65 kHz, 24 dB/Oct.	1.65 kHz, 24 dB/Oct.	1.7 kHz FIR X-over with 24 dB/Oct.
Analog inputs	2x XLR combo balanced	2x XLR combo balanced	2x XLR combo balanced	1x XLR combo balanced
Analog outputs	2x XLR Thru balanced, 1x XLR Mix Out	2x XLR Thru balanced, 1x XLR Mix Out	2x XLR Thru balanced, 1x XLR Mix Out	1x XLR Thru balanced
Input sensitivity	+4 dBu @ Gain center-notched / L5 System Level	+4 dBu @ Gain center-notched / L5 System Level	+4 dBu @ Gain center-notched / L5 System Level	+4 dBu @ Gain center-notched / L5 System Level
Sensitivity switch	Line/Mic Input A	Line/Mic Input A	Line/Mic Input A	-
Filter presets	EQ switch: Small Venue/High Power	EQ switch: Flat/Monitor	EQ switch: Small Venue/High Power	EQ switch: Flat/Contour
Mains connector	1x IEC socket with V-Lock cord retainer	1x IEC socket with V-Lock cord retainer	1x IEC socket with V-Lock cord retainer	1x IEC socket with V-Lock cord retainer
Power consumption	3 A / 230 V nominal according to EN 60065	3 A / 230 V nominal according to EN 60065	3 A / 230 V nominal according to EN 60065	3.3 A / 230 V nominal according to EN 60065
Angels up (Monitor angle)	-	33°	-	-
Pole mount	DuoTilt 3°/7°	DuoTilt 3°/7°	DuoTilt 3°/7°	MonoTilt 0°
Rigging points	4 x M8 (AP-8)	4 x M8 (AP-8)	4 x M8 (AP-8)	5 x M8 (AP-8)
Handles	2x MultiGrip	1x SingleGrip, 1x MultiGrip	2x MultiGrip	2x MultiGrip
Enclosure	Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)
Grille	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam
Finish	Black acrylic enamel	Black acrylic enamel	Black acrylic enamel	Black acrylic enamel
Dimensions (WxHxD)	37 x 66.8 x 36.5 cm 14-9/16 x 26-19/64 x 14-3/8"	37 x 66.8 x 30 cm 14-9/16 x 26-19/64 x 11-13/16"	44.9 x 70.8 x 45 cm 17-43/64 x 27-7/8 x 17-23/32"	44 x 68 x 46.1 cm 17-5/16 x 26-25/32 x 18-5/32"
Weight	23.9 kg / 52.7 lbs	21.1 kg / 46.5 lbs	30.7 kg / 67.7 lbs	24.9 kg / 54.9 lbs

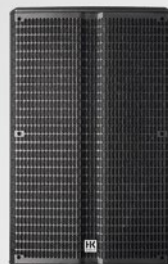
Subwoofer: active



Parameter	L SUB 1200 A	L SUB 2000 A	L SUB 4000 A
Max. SPL @ 10% THD	127 dB half space (50 Hz – 130 Hz averaged)	132 dB half space (55 Hz – 120 Hz averaged)	135 dB half space (41 Hz – 110 Hz averaged)
Max. SPL peak @ 10 % THD	130 dB half space	133 dB half space	137 dB half space
Frequency response +/-3 dB	51 Hz – 150 Hz	49 Hz – 125 Hz	39 Hz – X-Over
Frequency response -10 dB	42 Hz – 150 Hz	39 Hz – 160 Hz	31 Hz – X-Over
Power amp output (peak power)	1200 W	1200 W	1200 W
Amp type	Class D	Class D	Class D
Active protection circuits	Undervoltage-Protection, Thermoprotection, Short-Circuit-Protection, Overcurrent-Protection, Subsonic 24 dB/oct., Peak-Limiter	Undervoltage-Protection, Thermoprotection, Short-Circuit-Protection, Overcurrent-Protection, Subsonic 24 dB/oct., Peak-Limiter	Undervoltage-Protection, Thermoprotection, Short-Circuit-Protection, Overcurrent-Protection, Subsonic 24 dB/oct., Peak-Limiter
Bass speaker	2 x 10", 2.5" voice coil	2 x 12", 2.5" voice coil	1 x 18", 4" voice coil
Analog inputs	2 x XLR combo balanced	2 x XLR combo balanced	2 x XLR combo balanced
Analog outputs	2 x XLR Thru balanced, 2 x XLR Mid/High Out, Speakon NL4 to L SUB 1200	2 x XLR Thru balanced, 2 x XLR Mid/High Out	2 x XLR Thru balanced, 2 x XLR Mid/High Out
Active crossover frequency	100 Hz / 130 Hz variable with 24 dB/oct.	100 Hz / 120 Hz variable with 24 dB/oct.	100 Hz / 120 Hz variable with 24 dB/oct.
Input sensitivity	+4 dBu @ Gain center-notched	+4 dBu @ Gain center-notched	+4 dBu @ Gain center-notched
Mains connector	1 x IEC socket with V-Lock cord retainer	1 x IEC socket with V-Lock cord retainer	1 x IEC socket with V-Lock cord retainer
Power consumption	3.3 A / 220-240 V (6.6 A / 100-120 V) nominal according to EN 60065	3.3 A / 220-240 V (6.6 A / 100-120 V) nominal according to EN 60065	3.3 A / 220-240 V (6.6 A / 100-120 V) nominal according to EN 60065
Pole mount	2 x M20	1 x M20	2 x M20
Handles	4 x MultiGrip	4 x MultiGrip	8 x MultiGrip
Enclosure	Birch multiplex	Birch-Multiplex	Birch-Multiplex
Grille	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam
Finish	Black acrylic enamel	Black acrylic enamel	Black acrylic enamel
Dimensions (WxHxD)	38 x 66,8 x 56 cm 14-31/32 x 26-19/64 x 22-3/64"	50.6 x 80.6 x 61 cm 19-11/16 x 31-47/64 x 24-1/64"	91 x 51 x 81 cm 35-3/4 x 20 x 31-25/32"
Weight	30.7 kg / 67.7 lbs	46.2 kg / 101.9 lbs	59 kg / 130.1 lbs

TECHNICAL DATA

Mid/high units: passive



Parameter	L5 112 F	L5 112 X	L5 115 F	L5 LTS
Power-handling nominal (RMS)	500 W	500 W	600 W	600 W
Power-handling, program	1000 W	1000 W	1200 W	1200 W
Frequency response -10 dB	79 Hz – 18 kHz	100 Hz – 18 kHz	62 Hz – 18 kHz	108 Hz – 14 kHz
Frequency response +/-3 dB	60 Hz – 19 kHz	72 Hz – 19 kHz	52 Hz – 20 kHz	100 Hz – 20 kHz
Sensitivity 1 W @ 1 m	103 dB half space	104 dB half space	103 dB half space	110 dB half space
Max. SPL @ 10% THD	129 dB half space (79 Hz – 12 kHz average)	130 dB half space (100 Hz – 12 kHz average)	129 dB half space (62 Hz – 12 kHz average)	133 dB half space (100 Hz – 12 kHz average)
Max. SPL Peak @ 10% THD	135 dB half space	135 dB half space	135 dB half space	138 dB half space
Electrical impedance	8 ohms	8 ohms	8 ohms	8 ohms
Protective circuits	PTC circuit	PTC circuit	PTC circuit	PTC circuit
Low-/mid speaker	1x 12", 2.5" voice coil	1x 12", 2.5" voice coil	1x 15", 3" voice coil	3 x 8", 2" voice coil
HF Driver	1", 1.75" voice coil	1", 1.75" voice coil	1", 1.75" voice coil	1", 1.75" voice coil
Directivity	60°-90° (asymmetrical) x 55° CD-Horn, rotatable	60° x 40°, rotatable CD horn	60°-90° (asymmetrical) x 55° CD-Horn, rotatable	60° x +5°/-25° MCT horn
Crossover frequency	1.7 kHz, 12 dB/Oct.	1.7 kHz, 12 dB/Oct.	1.7 kHz, 12 dB/Oct.	1.7 kHz, 12 dB/Oct.
Connections	2 x Speakon NL4	2 x Speakon NL4	2 x Speakon NL4	2 x Speakon NL4, pin assignment switch
Angles up	-	33°	-	-
Pole mount	DuoTilt 3°/7°	DuoTilt 3°/7°	DuoTilt 3°/7°	MonoTilt 0°
Rigging points	3 x M8 (AP-8)	3 x M8 (AP-8)	3 x M8 (AP-8)	5 x M8 (AP-8)
Handles	2 x MultiGrip	1x SingleGrip, 1x MultiGrip	2 x MultiGrip	2 x MultiGrip
Enclosure	Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)
Grille	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam
Finish	Black acrylic enamel	Black acrylic enamel	Black acrylic enamel	Black acrylic enamel
Dimensions (WxHxD)	37 x 66.8 x 36.5 cm 14-9/16 x 26-19/64 x 14-3/8"	37 x 67 x 30 cm 14-9/16 x 26-19/64 x 11-13/16"	44.9 x 70.8 x 45 cm 17-43/64 x 27-7/8 x 17-23/32"	44 x 68 x 46.1 cm 17-5/16 x 26-25/32 x 18-5/32"
Weight	23.9 kg / 52.7 lbs	19.5 kg / 43 lbs	30.1 kg / 66.4 lbs	26.4 kg / 58.2 lbs

Subwoofer: passive



Parameter	L SUB 1200	L SUB 2000	L SUB 4000
Power-handling nominal (RMS)	600 W	700 W	1200 W
Power-handling, program	1200 W	1400 W	2400 W
Frequency response -10 dB	42 Hz – 150 Hz	39 Hz – 160 Hz	31 Hz – X-over
Frequency response +/-3 dB	51 Hz – 150 Hz	49 Hz – 125 Hz	39 Hz – X-over
Sensitivity 1 W @ 1 m	100 dB half space	104 dB half space	106 dB half space
Max. SPL @ 10% THD	127 dB half space	134 dB half space	135 dB half space
Max. SPL peak @ 10% THD	130 dB half space	135 dB half space	137 dB half space
Electrical impedance	8 ohms	4 ohms	4 ohms
Low-/mid speaker	2 x 10", 2.5" voice coil featuring advanced cooling technology	2 x 12", 2.5" voice coil featuring advanced cooling technology	1 x 18", 4" voice coil featuring advanced ventilated voice coil gap
Crossover frequency	controller driven	controller driven	100 Hz, active X-over with controller amp (can be set lower when used as a sub-low)
Connections	2 x Speakon NL4	2 x Speakon NL4	2 x Speakon NL4, pin assignment switchable between 1+/1- and 2+/2-
Integrated pole mount	2 x M20	1 x M20	2 x M20
Handles	4 x MultiGrip	4 x MultiGrip	8 x MultiGrip
Enclosure	Birch multiplex	Birch multiplex	Birch multiplex
Grille	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam
Finish	Acrylic enamel, black	Acrylic enamel, black	Acrylic enamel, black
Dimensions (WxHxD)	38 x 66.8 x 56 cm 14-31/32 x 26-19/64 x 22-3/64"	50.6 x 80.6 x 61 cm 19-11/16 x 31-47/64 x 24-1/64"	91 x 51 x 81 cm 35-3/4 x 20 x 31-25/32"
Weight	29 kg / 63.9 lbs	45.6 kg / 100.5 lbs	57.1 kg / 125.9 lbs



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MS D-3259