

LINEAR 5

SYSTEMS



Big Venue Pack



Power Pack



Rock Pack



Club Pack



Monitor Pack

HK AUDIO

Linear 5 Systems

Fully Powered, All-in-One Systems for Discerning Musicians, Bands, DJs and Hire Companies

Featuring the new Linear 5 series active components, Linear 5 systems offer a peerless performance package. Available in four configurations and as a monitor pack, these all-in-one powered systems are ready to go right out of the box.

Each of these remarkably versatile packs delivers high-definition audio with impressive sound pressure levels. And it is not just these well-designed systems' performance that is so satisfying; they are also phenomenally easy to handle. Configuration is an

exercise in convenience - a simple flip of the Gain/EQ switch on the mid/high units and the Configuration switch on the subwoofers is all it takes. The system's integrated controller settings take care of everything else. See the signal routing map on page 4 for more on this.

These worry-free system packages also ship with smart accessories such as protective dust covers and speaker poles or Tilt Units.



* About the audience size: The numbers are more for orientation rather than a definite recommendation. The actual coverage will depend on the room's size, shape, appointments and furnishings, the area that you

The benefits of fully powered Linear 5 systems:

A plug & play proposition

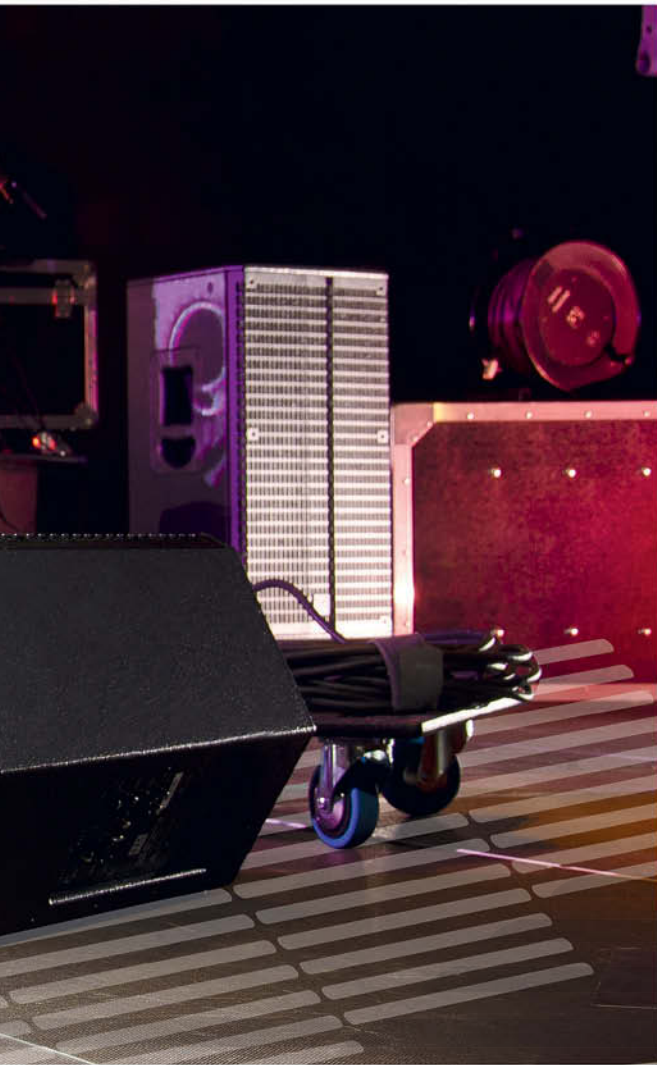
- Linear 5 systems set up quickly and are ready for use in no time at all.
- Fully active component management featuring gain adjustment keeps the rig flexible and your options open.
- All components necessary for safe operation are on board and optimized to suit your needs.
- Mid/high units may be used separately.

Different concepts for different users

Linear 5 systems adapt to meet varying requirements for size and performance.

You can choose a complement of subwoofers to configure half-stacks and full-stacks.

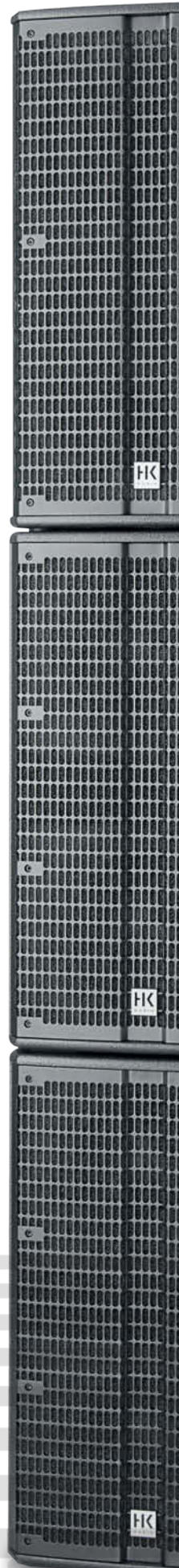
Other combinations are also possible. For example, you could extend a stereo system consisting of mid/high units with just a single subwoofer.



What all Linear 5 systems have in common:

- **The benefits of a fully powered, end-to-end system**
 - ➔ All components fine-tuned for a perfect match
 - ➔ No outboard hardware such as controllers & amps required
 - ➔ Flexible setup and use
 - ➔ Factory-included accessories
 - ➔ Much better deal than buying individual components
- **Engineered to withstand the rigors of the road**
- **Linear 5 factory presets for utmost handling convenience**
- **The best performance packs in its class with stellar**
 - ➔ **Sound pressure**
 - ➔ **Toughness**
 - ➔ **Bang for buck**
 - ➔ **Handling**

The various system configurations can cover audiences of 100 to 600*.



L5-Club Pack

Consisting of:

- 2 x L5 112 FA
 - 2 x L Sub 1200 A
 - 2 x speaker pole
 - 4 x protective cover
- Extendable to a full stack with 2 x L Sub 1200

User profile

Entertainer	300
Acoustic duo	300
Band	200
DJ	200
Hire companies	200

Audience size



L5-Rock Pack

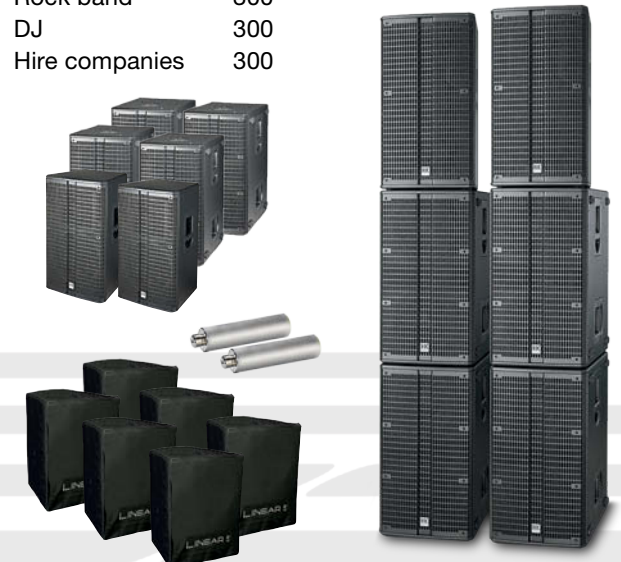
Consisting of:

- 2 x L5 112 FA
- 2 x L Sub 1200 A / 2 x L Sub 1200
- 6 x protective cover
- 2 x Tilt Unit

User profile

Acoustic band	400
Rock band	300
DJ	300
Hire companies	300

Audience size



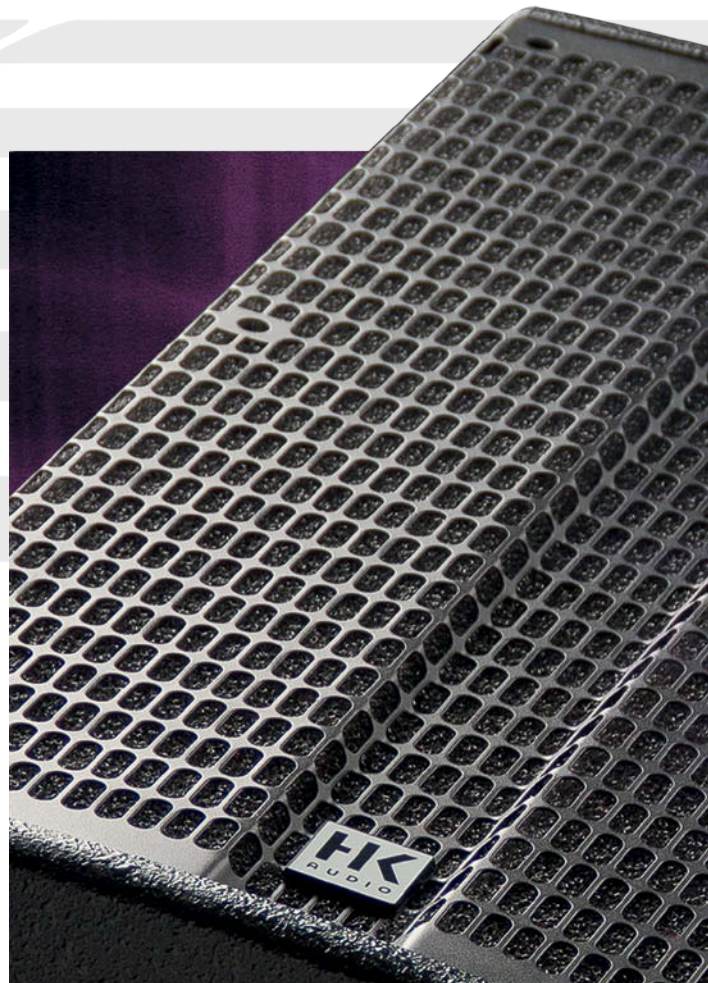
L5-Monitor Pack

Consisting of:

- 3 x L5 112 XA
- 3 x protective cover

User profile

Band
Hire companies



L5-Power Pack

Consisting of:

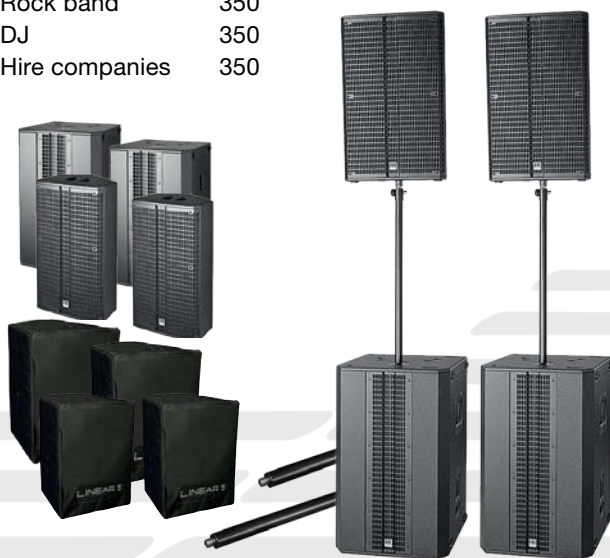
- 2 x L5 112 XA
- 2 x L Sub 2000 A
- 2 x speaker pole
- 4 x protective cover
- Extendable to a full stack with 2 x L Sub 2000 A

User profile

- Rock band
- DJ
- Hire companies

Audience size

- 350
- 350
- 350



L5-Big Venue Pack

Consisting of:

- 2 x L5 115 FA
- 4 x L Sub 2000 A
- 2 x Tilt Unit
- 6 x protective cover

User profile

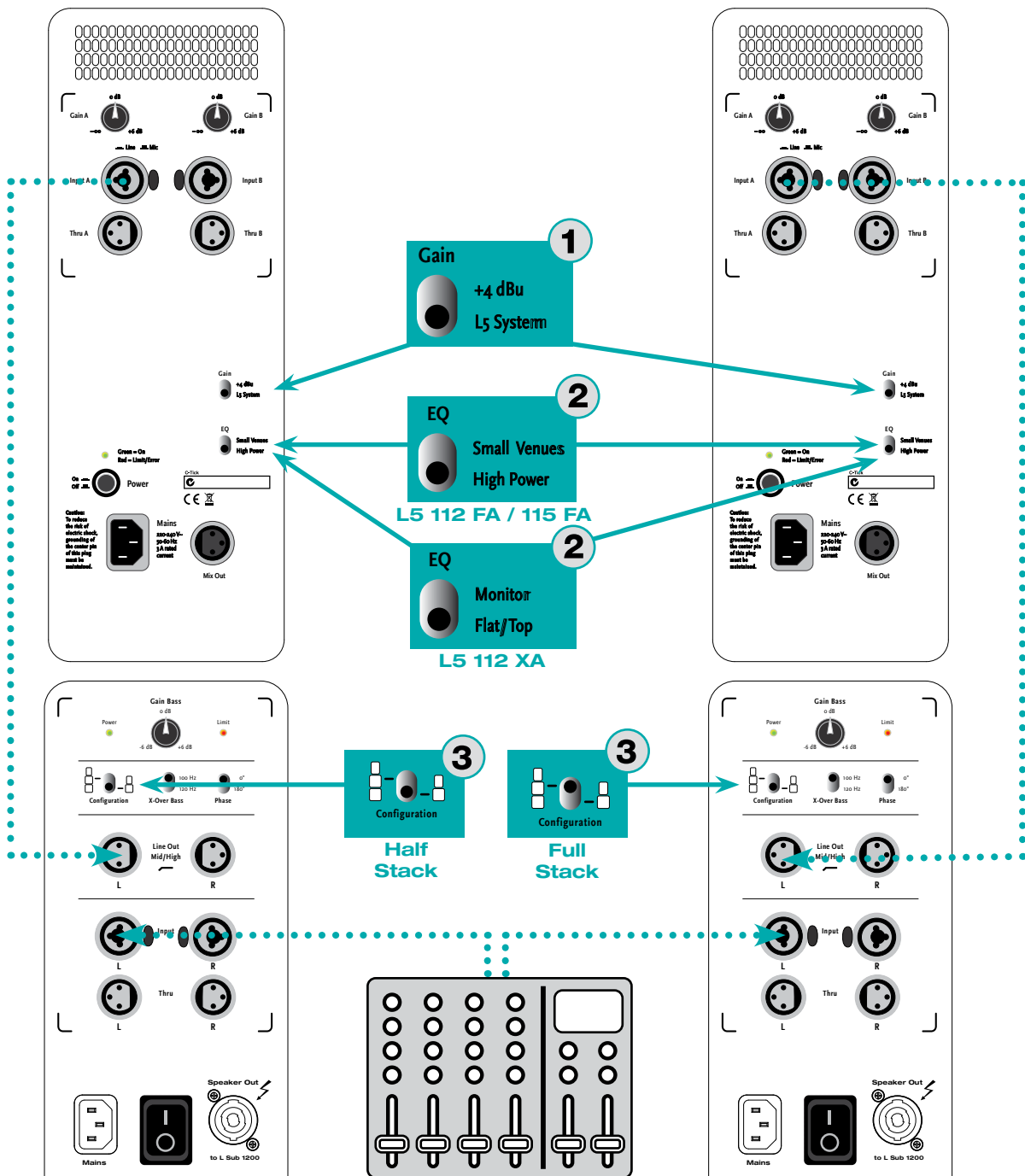
- Rock Band
- DJ
- Hire companies

Audience size

- 500-600
- 500-600
- 500-600



System setup/signal routing map



- 1 Automatically adjusts the enclosure's input sensitivity or gain to match the given system configuration when using subwoofers
- 2 Selects the optimum EQ setting for L112 FA/XA and L115 FA mid/high units when used in a Linear 5 system with subwoofers
- 3 Adjusts the subwoofers' levels to match that of the mid/high unit in the given half-stack or full-stack configuration

Helpful tips

The right size system

Your choice of system is usually determined by the most challenging performance demands it will have to meet. Linear 5 full-stack systems should get the job even for your biggest gigs. You can always leave two subwoofers at home for smaller gigs or work with just one mono subwoofer if the venue is a cozier pub. This is why every powered subwoofer features a stereo input that lets you patch in the signal from the mixing console.

Extendibility

Every half-stack system may be extended by adding the same model of subwoofer.

You can even connect a passive L Sub 1200 to the L Sub 1200 A because its onboard amp has enough juice to power the extra bass bin.

The mid/high units' high-frequency dispersion patterns

There are some major advantages to having different horns in the mid/high units:

The L5 112 FA / L5 115 FA's asymmetrical horns provide a wide pattern of throw (90°) at the front of the stage. The dispersion pattern narrows (60°) with increasing distance to achieve greater range.

The L5 112 XA's symmetrical horn is designed for maximum range. Because of its horizontal directivity axis, you should angle the mid/high units slightly inwards by not more than 10° to better cover the area in front of the stage.

The right setup

Place the mid/high units at a level high enough to ensure the audience at the back enjoys the full audio image. The Rock and Big Venue Packs are full-stack systems, so you will achieve the necessary height by simply stacking the bins on the floor.

Bass foundation

To give you even greater flexibility when setting up the rig, you can place the subwoofer in the upright position or on its side.

If you want to reinforce the bass foundation, set the speaker in the subwoofer as close to the floor as possible to achieve what is called ground coupling. If necessary, you can even set the subwoofers of a full-stack system alongside each other and use a speaker pole for the mid/high unit.

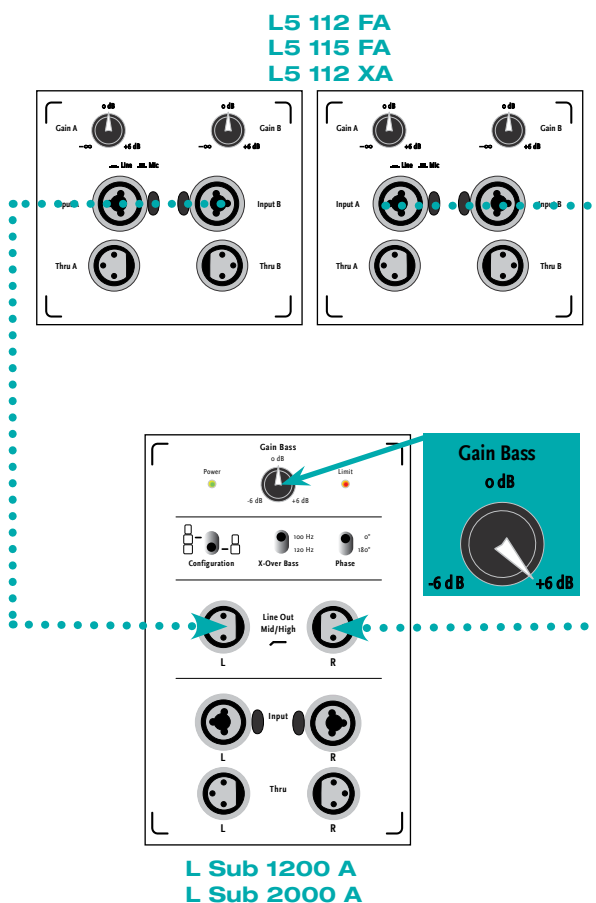
You can also boost low-end response a touch by placing the L Sub 1200 (A) on its side because it puts both loudspeakers closer to the floor.

Mono subwoofer setups

A mono setup with a single subwoofer in front of or below the stage can be the perfect solution for some rooms and application. To this end, route the stereo signal from the mixing console's output to the subwoofer's Input L/R and then on to the two mid/high units Input A or B ports via the separate Mid/High R/L Line Outs.

Subwoofer settings:

Gain: + 6 dB
Configuration Switch: Half Stack
X-Over Bass: 100 Hz
Phase: Depends on the distance to the mid/high units



Tilt Unit (factory-included with full-stack systems)

Use the Tilt Unit to connect the mid/high units to the underlying subwoofer and then aim the mid/high unit towards the audience by adjusting its angle to 3° or 7° using its Duo Tilt.

Optional casters for the subwoofer

L Sub 1200 and L Sub 2000 subwoofers are ready to accept optional 100 mm casters. The included protective covers may be used even with these wheels installed.

Technical Data

Model	L5 112 XA	L5 112 FA	L5 115 FA	L Sub 2000 A	L Sub 1200 A
Frequency response +/- 3 dB	100 Hz - 18 kHz	64 Hz - 18 kHz	57 Hz - 18 kHz	49 Hz - X-over	55 Hz - X-over
Frequency response -10 dB	72 Hz - 20 kHz	57 Hz - 20 kHz	48 Hz - 20 kHz	39 Hz - X-over	38 Hz - X-over
Axial sensitivity HF 1W/1m	110 dB full space 116 dB half space	110 dB full space 116 dB half space	110 dB full space 116 dB half space	-	-
Axial sensitivity LF 1W/1m	98 dB full space 104 dB half space	98 dB full space 104 dB half space	100 dB full space 106 dB half space	98 dB full space 104 dB half space	95 dB full space 101 dB half space
Max. SPL@10% THD	129 dB half space	127dB half space	129 dB half space	132 dB half space	128 dB half space
Max. SPL Peak@10% THD	135 dB half space	134 dB half space	139 dB half space	133 dB half space	130 dB half space
Max. SPL Calc.	138 dB half space	138 dB half space	139 dB half space	135 dB half space	131 dB half space
Amp/type	Class D – biamped	Class D – biamped	Class D – biamped	Class D	Class D
Output power	1000 W	1000 W	1000 W	1200 W	1200 W
Amp to driver	350 W @ 4 ohms	350 W @ 4 ohms	350 W @ 4 ohms	-	-
Amp to woofer	650 W @ 4 ohms	650 W @ 4 ohms	650 W @ 4 ohms	1200 W @ 4 ohms	1200 W @ 4 ohms
Protective circuits, amp	Under-voltage, thermal, short circuit, and over-current protection	Under-voltage, thermal, short circuit, and over-current protection	Under-voltage, thermal, short circuit, and over-current protection	Under-voltage, thermal, short circuit, and over-current protection	Under-voltage, thermal, short circuit, and over-current protection
Protective circuits, speakers	Subsonic 24 dB/oct. peak limiter	Subsonic 24 dB/oct. peak limiter	Subsonic 24 dB/oct. peak limiter	Subsonic 24 dB/oct. peak limiter	Subsonic 24 dB/oct. peak limiter
Power consumption	3A/230V nominal pursuant to EN600056	3A/230V nominal pursuant to EN600056	3A/230V nominal pursuant to EN600056	3.3A/230V nominal pursuant to EN600056	3.3A/230V nominal pursuant to EN600056
Input sensitivity	+4 dBu @ Gain center-click / L5 system level	+4 dBu @ Gain center-click / L5 system level	+4 dBu @ Gain center-click / L5 system level	+4 dBu @ Gain center-click	+4 dBu @ Gain center-click
Audio ports	2x XLR In 2x XLR Thru 1x XLR Mix Out	2x XLR In 2x XLR Thru 1x XLR Mix Out	2x XLR In 2x XLR Thru 1x XLR Mix Out	2x XLR In 2x XLR Thru 2x XLR Mid/High-Out	2x XLR In 2x XLR Thru 2x XLR Mid/High-Out
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	1x IEC socket with V-Lock cord retainer
Bass woofer	1x 12" with 2.5" voice coil (4 ohms)	1x 12" with 2.5" voice coil (4 ohms)	1x 15" with 3" voice coil (4 ohms)	2x 12" (8 ohms) with 2.5" voice coil featuring Advanced Cooling technology	2x 10" (4 ohms) with 2" voice coil
HF driver	1" with 1.75" voice coil(16 ohms)	1" with 1.75" voice coil(16 ohms)	1" with 1.75" voice coil(16 ohms)	-	-
Horn directivity	60° x 40° CD horn, rotatable	60°-90° (asy) x 55° CD horn, rotatable	60°-90° (asy.) x 55° CD horn, rotatable	-	-
X-over	1.65 kHz, 24 dB/oct. active	1.65 kHz, 24 dB/oct. active	1.65 kHz, 24 dB/oct. active	100/120 Hz variable with 24 dB/oct.	100/130 Hz variable with 24 dB/oct.
Pole mount	DuoTilt 3/7	DuoTilt 3/7	DuoTilt 3/7	M20	2xM20
Suspension points	3x M8	3x M8	3x M8	-	-
Grips	2, integrated	2, integrated	2, integrated	4, integrated	4, integrated
Optional accessories	Protective cover	Protective cover	Protective cover	Protective cover, mounting hardware for casters, Tilt Unit	Protective cover, mounting hardware for casters, Tilt Unit
Housing	Hybrid (birch multiplex / MDF)	Hybrid (birch multiplex / MDF)	Hybrid (birch multiplex / MDF)	Birch multiplex 15/18 mm, 9/13 ply	Birch multiplex 15/18 mm, 9/13 ply
Front 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	2 mm metal grille
Finish	Acrylic enamel, black	Acrylic enamel, black	Acrylic enamel, black	Acrylic enamel, black	Acrylic enamel, black
Dimensions (WxHxD)	37 x 66.8 x 30 cm	37 x 66.8 x 36.5 cm	44.9 x 70.8 x 45 cm	50.6 x 80.6 x 61 cm	38 x 66.8 x 56 cm
Weight	21.1 kg / 46.5 lbs	23.9 kg / 52.7 lbs	30.7 kg / 67.7 lbs	46.2 kg / 101.9 lbs	30.7 kg / 67.7 lbs

Model	L Sub 1200
Frequency response +/- 3 dB	55 Hz - X-over
Frequency response -10 dB	38 Hz - X-over
Axial sensitivity 1W/1m	101 dB
Power handling	
Continuous	600 W
Program	1200 W
Peak	2400 W
Max. SPL@10% THD	128 dB half space
Max. SPL Peak@10% THD	130 dB half space
Audio ports	2 x Speakon NL4
Bass woofer	2 x 10" with 2" voice coil
HF driver	-
Nominal impedance	8 ohms
Horn directivity	-
X-over	Controller driven
Pole mount	2xM20
Suspension points	-
Grips	4, integrated
Optional accessories	Protective cover, mounting hardware for casters, Tilt Unit
Housing	Birch multiplex 15/18 mm, 9/13 ply
Front grille	2 mm metal grille
Finish	Acrylic enamel, black
Dimensions (WxHxD)	38 x 66.8 x 56 cm
Weight	29 kg / 63.9 lbs

* half space

HK AUDIO

HK Audio®
Postfach 1509
66595 St. Wendel, Germany

info@hkaudio.com
www.hkaudio.com

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MS D-2524, 9880635

