



LINEAR 5 MK II

THE ALL PURPOSE WORKHORSE



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The powerful and innovative drive for all those who want to impress their audiences day after day.

Backed by our usual passion for perfect sound and high-quality workmanship, we have completely revised the successful LINEAR 5 series and upgraded it to the very latest technology. We have listened to what our customers have asked for and have equipped the LINEAR 5 MK II series with new speakers, innovative features such as remote controlled DSP functionality and cardioid settings for the series' own subwoofers.

Improved performance for everyday life

The new series not only gives professional performers and

sound technicians a reliable and high-performance everyday tool – with more power, less weight, more compact dimensions and the added benefit of digital optimisation, it takes day-to-day tasks to a whole new level.

HK Audio is committed to “Made in Germany”.

Each speaker has been fine-tuned by our experienced engineers to suit the various applications. In addition to the precision of state-of-the-art manufacturing technologies, a considerable amount of skilled manual work and attention to detail goes into every single component.





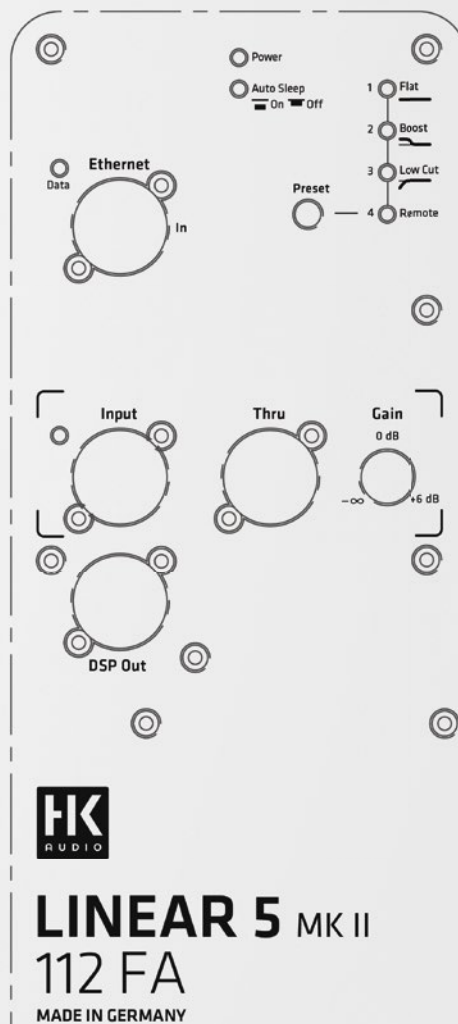
LINEAR 5 MK II - Mid/High Units

- 1 200 W peak power bi-amped Class-D power amplifiers
- Rotatable horns to change the dispersion pattern for optimum sound dispersion in different configurations
- More compact, up to 3 kg lighter and more power than LINEAR 5
- Lockable, balanced XLR/TRS Combo input, balanced XLR output for analogue looping to an additional speaker
- Remote-controllable high-performance DSP with integrated presets for the most common applications
- Professional, lockable EtherCon connector for connection to a Mac or PC for network-based control of the system
- DSP Out: Balanced XLR output that transmits the processed signal from the speaker to a non-network-compatible speaker. The audio signal applied here can be extensively modified using the DSP CONTROL software
- HK Audio DuoTilt with 3° or 7° tilt for flexible use on mounting poles
- Three reinforced M8 (AP-8) mounting points, two HK Audio MultiGrips for the TB-45N and TB-45NQ rigging frames (LINEAR 5 MK II 115 XA, LINEAR 5 MK II 112 FA and LINEAR 5 MK II 115 FA)
- Birch multiplex hybrid enclosure





- **1.** On/Off indicator LED and switch for energy-saving auto-sleep function if there is no signal or data for more than 4.5 hours
- **2.** Preset selection button for quick configuration of the factory presets
- **3.** Ethernet socket with data input indicator for network integration
- **4.** DSP Out for integration and DSP processing of speakers and power amplifiers without DSP support
- **5.** Balanced input as XLR/TRS Combo socket with gain control for fine-tuning the input level, Thru output in XLR format for forwarding the input signal
- **6.** Mains switch and lockable V-Lock IEC14 mains connection



LINEAR 5 MK II - Mid/High Units

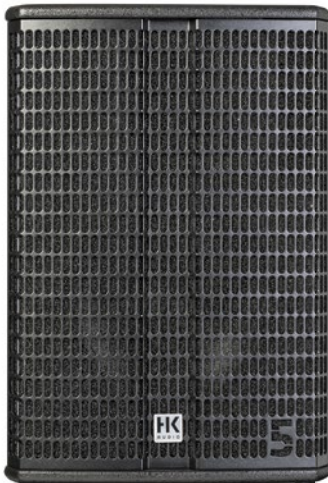
LINEAR 5 MK II XA – Flexible as a mid/high unit and monitor

LINEAR 5 MK II 110 XA, LINEAR 5 MK II 112 XA, LINEAR 5 MK II 115 XA

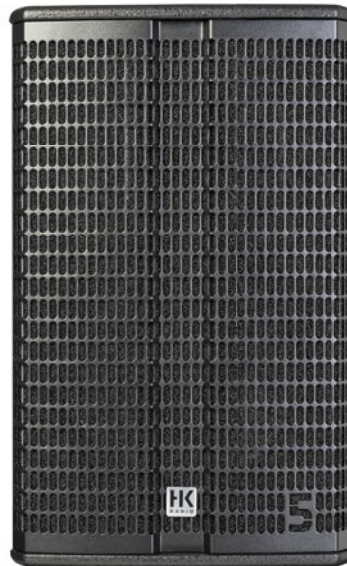
The multifunctional mid/high units cover an enormous range of system configurations. Thanks to the multifunctional enclosure shape with slanted monitor edge, they can be operated as low-feedback stage monitors or as powerful mid/high system units in conjunction with the subwoofers. Whether transverse or upright, the rotatable horns allow the speakers to be configured for the optimum sound coverage every time.



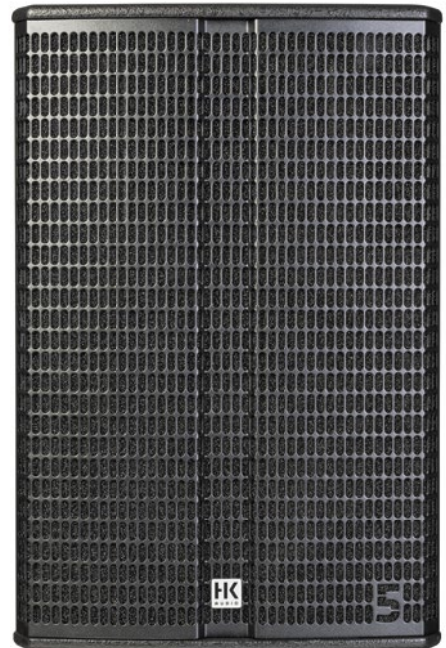
With impressive range and crystal-clear, assertive sound, the XA models also excel even without a sub, for example for voice amplification. All LINEAR 5 MK II XA models are equipped with three reinforced M8 mounting points, and the LINEAR 5 MK II 115 XA additionally features two HK Audio MultiGrips for the TB-45NQ rigging frame.



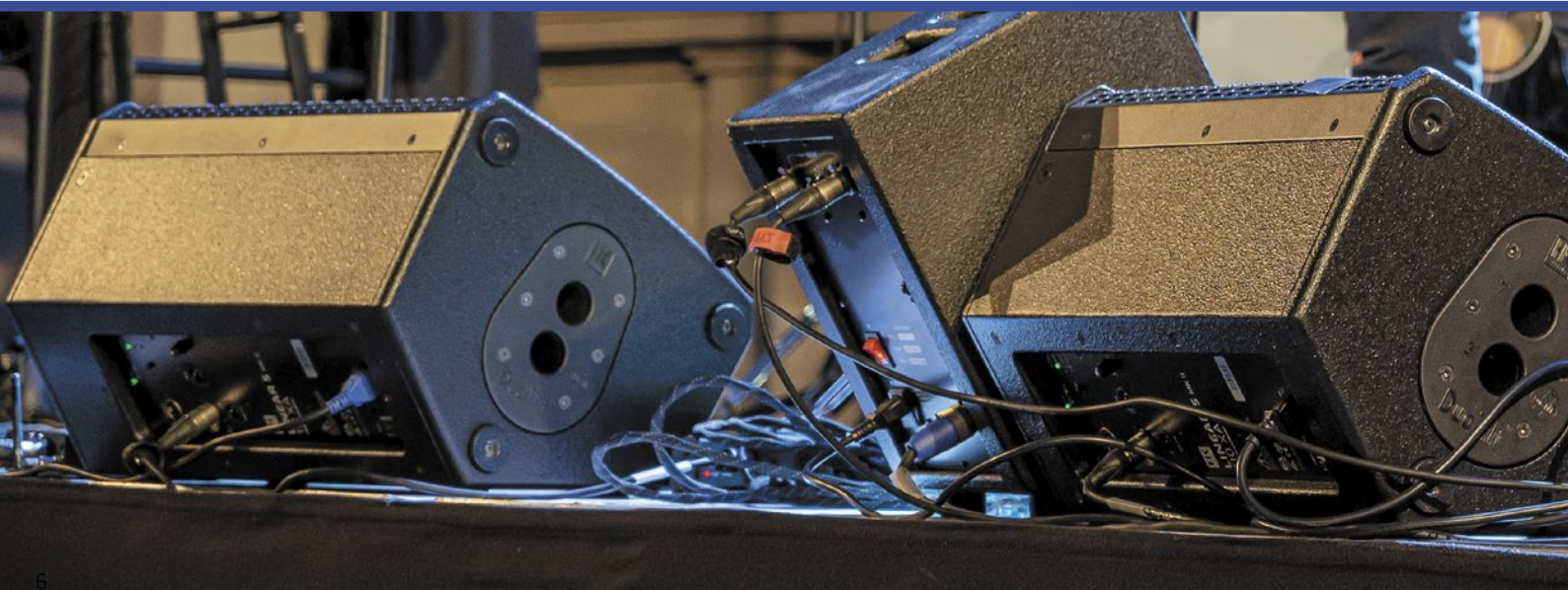
LINEAR 5 MK II 110 XA



LINEAR 5 MK II 112 XA



LINEAR 5 MK II 115 XA



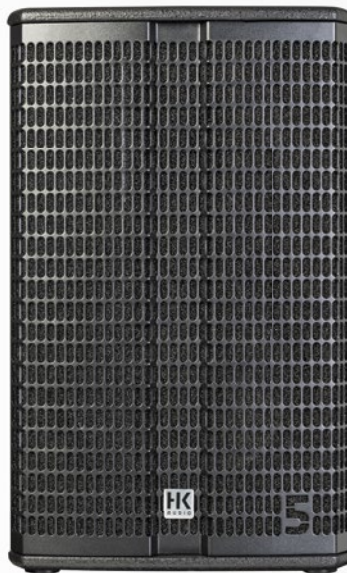
LINEAR 5 MK II FA – Powerful full-range and system solution

LINEAR 5 MK II 112 FA, LINEAR 5 MK II 115 FA

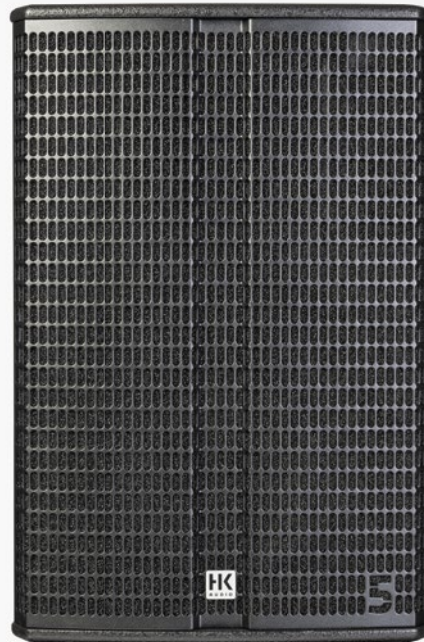
Uncompromising and powerful in the bass range, the LINEAR 5 MK II FA full-range mid/high units provide full sound as a stereo system and the necessary extra low-end for DJ monitoring or drum fill.

A special filter adapted to the characteristics of the LINEAR 5 MK II subwoofers, which can be selected via a preset, makes it possible to use the LINEAR 5 MK II FA models in various systems as system mid/high units in no time at all.

The 60° x 40° horn dispersion and the option to rotate the horns make clustering easier. Three reinforced M8 mounting points and two HK Audio MultiGrips for the TB-45NQ and TB-45N rigging frames ensure smooth installation and rigging.



LINEAR 5 MK II 112 FA



LINEAR 5 MK II 115 FA



LINEAR 5 MK II - Subwoofer

LINEAR 5 MK II Sub A – Powerful bass pros for all applications

LINEAR 5 MK II 115 Sub A, LINEAR 5 MK II 118 Sub A

The standard bass-reflex subwoofers form the solid foundation of the new LINEAR 5 MK II systems with their uncompromising performance and dry, defined bass down to the lowest of the lows.

DSP functions that can be remotely controlled or simply selected via a preset, such as the 1:1 vertical and 1:1 horizontal Cardioid settings, give the user an enormously expanded range of options for system configuration and access to the professional sound reinforcement league at any time.

The latest generation of stereo Class-D power amplifiers provide ample headroom and simplify 2.1 setups with the stereo preamplifiers.

- 2 000 W peak power (LINEAR 5 MK II 118 Sub A) and 1 200 W peak power (LINEAR 5 MK II 115 Sub A) Class-D amp power
- Two lockable, balanced XLR/TRS Combo inputs, balanced XLR outputs for analogue loop-through to an additional speaker
- Remote-controlled high-performance DSP with integrated Remote and Cardioid presets (Front, 1:1 vertical, 1:1 horizontal, Remote)
- DSP Out: Balanced XLR output that transmits the processed signal from the speaker to a non-network-compatible speaker. The audio signal applied here can be extensively modified using the DSP CONTROL software
- Professional, lockable EtherCon connectors for connection to a Mac or PC to control the system via network; daisy chain connections possible
- M20 thread for mounting pole
- Enclosure made of birch multiplex hybrid (LINEAR 5 MK II 115 Sub A) and birch multiplex (LINEAR 5 MK II 118 Sub A)



LINEAR 5 MK II 118 Sub A



LINEAR 5 MK II 115 Sub A



- **1.** On/Off indicator LED and switch for energy-saving auto-sleep function if there is no signal or data for more than 4.5 hours
- **2.** Preset selection button for quick configuration of the factory presets
- **3.** Ethernet input for network integration with data input indicator, Thru port for looping through the network connection
- **4.** DSP Out for integration and DSP processing of speakers and power amplifiers without DSP support
- **5.** Two balanced inputs as XLR/TRS Combo sockets for the stereo preamplifier, with gain control for fine-tuning the input level, Thru outputs in XLR format for forwarding the input signal present at the corresponding inputs
- **6.** Mains switch and lockable V-Lock IEC14 mains connection



LINEAR 5 MK II - Facts & Features

HK Audio DSP CONTROL Remote Software Everything under control – any time, any place

Full control over the entire sound setup, even during the sound check and the show, is a feature that is already well known in large touring systems or the LINEAR 7, LINEAR 9 and ELEMENTS series. HK Audio DSP CONTROL allows remote control of all LINEAR 5 MK II components, from stage monitors to complete PA systems, via network and HK Audio's proprietary DSP CONTROL software for Mac and PC. The features of the powerful DSPs, such as volume, EQ, limiting, delay and polarity, can thus be accessed directly from the FoH position at any time..



Components that do not have their own DSP technology can also be connected to the DSP OUT on the LINEAR 5 MK II speakers and controlled remotely with the same ease. A fully parametric 10-band EQ, high-pass filter, low-pass filter, delay, polarity and limiting are available to each DSP Out, irrespective of the DSP setup of the LINEAR 5 MK II speaker.



Cardioid technology

Professional level problem solver

Professional sound technicians respond to stringent sound insulation requirements, uncontrolled bass dispersion on and behind the stage and a high feedback risk in the lower frequency range with Cardioid technology for the subwoofers. This technical trick is now easily achieved without measurement technology by simply setting up and selecting presets.



The Cardioid setup attenuates the bass sound pressure of the physically spherically radiating subwoofers behind the subwoofers by up to 34 dB. There is a slight increase in sound pressure of approx. 2 dB in the front sound dispersion. This results in a directional, cardioid radiation pattern.

Cardioid sound reinforcement technology can be used with vertically stacked subwoofers and also with horizontal setups. This is an enormous advantage on low stages..

LINEAR 5 MK II Enclosure

“Rigid wood” for more sound, more power and resistance

The acoustic characteristics and stability of wood are unrivalled in speaker construction. It is for these reasons that all LINEAR 5 MK II components are built into wooden enclosures. Thanks to the combination of MDF and birch multiplex, the mid/high units and subwoofers are extremely compact and comparatively light, despite the robust material. The LINEAR 5 MK II 118 Sub A is made entirely of birch multiplex.

Every single speaker is made in Germany using a combination of high-precision, computer-controlled manufacturing and skilled craftsmanship, with toxin-free wood, water-based lacquer and a strict recycling and waste-avoidance strategy.



LINEAR 5 MK II - Accessories

Extensive and sophisticated range of problem solvers

The optional accessories for the LINEAR 5 MK II series expand the application possibilities enormously and provide customised, high-quality and reliable solutions for many common applications.

LINEAR 5 MK II Weather Protective Cover

Made to measure and equipped with many practical details, the Weather Protective Covers are the perfect protection against moisture and humidity, and at the same time a sturdy transport cover for all LINEAR 5 MK II mid/high units and subwoofers.

Behind the front flap, a waterproof acoustic gauze protects the front of the speakers and the drivers without affecting the systems sound. Depending on the model, the front flap can either be simply and securely velcroed to the side of the speaker or rolled up at the head end without interfering with stacking, clustering or Cardioid setups.

On the rear, sturdy, transparent viewing windows keep water away from the electronics, ensure the settings can be read at all times and provide access to the controls as well as a cable entry.

The handles can still be used thanks to sealable recesses or notches. In the 115 XA, 112 FA and 115 FA mid/high units, this allows the rigging frames to be installed even when the rain cover is on. The subwoofer covers provide sealable access to the thread for the mounting poles. The cut-out is kept as small as possible and can be easily sealed if necessary. Sufficient cooling of the electronics is ensured at all times.



- Tough rain protection and transport protection with easy handling
- Controls can be read and accessed at all times through transparent viewing windows
- Mounting poles and rigging frames can be used and installed with the protective cover in place
- Sturdy and discreet design
- Custom-fit covers are available for all LINEAR 5 MK II series units



Accessories for rigging and mounting

The **TB-45N** and **TB-45NQ** are tilt brackets made of high-strength steel for mounting speaker cabinets on truss rods, ceilings, wall brackets, beams and tripods. The TB-45NQ is equipped with quick release pins for quick fitting. Both brackets have a WLL of 70 kg and a maximum load of 35 kg in accordance with DGUV-V 17 (German Social Accident Insurance Regulation 17). Flexible vertical and horizontal alignment is possible



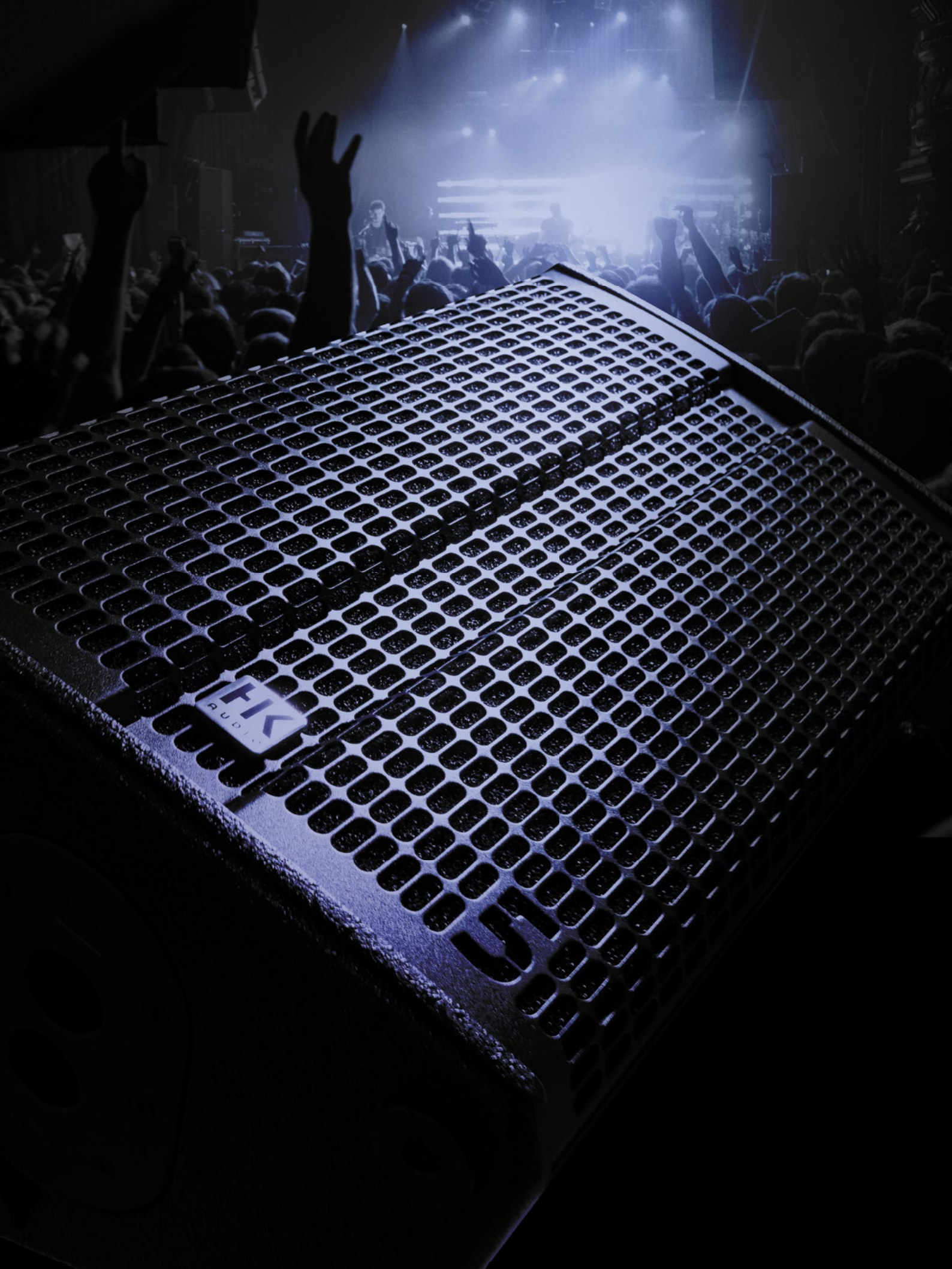
With a high load capacity of up to 360 kg (WLL), the **AP-8** Attachment Point allows for the safe installation of speaker cabinets with M8 rigging points on steel cables or chains.



The **Tilt-Unit** allows the mid/high units to be tilted directly on the subwoofer without a mounting pole. Like a mounting pole, the Tilt Unit is screwed directly into the M20 mount of the LINEAR 5 MK II SUB. This means that the DuoTilt can also be used at tilt angles of both -3° and -7° in a stack setup, and the Tilt-Unit prevents the mid/high units from slipping.



Optional accessories	Weather Protective Cover	TB-45N	TB-45NQ	AP8	Tilt-Unit	Transport castors (optional)
LINEAR 5 MK II 110 XA	✓			✓		
LINEAR 5 MK II 112 XA	✓			✓		
LINEAR 5 MK II 115 XA	✓	✓	✓	✓		
LINEAR 5 MK II 112 FA	✓	✓	✓	✓		
LINEAR 5 MK II 115 FA	✓	✓	✓	✓		
LINEAR 5 MK II 115 Sub A	✓				✓	✓
LINEAR 5 MK II 118 Sub A	✓				✓	✓



LINEAR 5 MK II - Systems



Lounge Pack

2x **LINEAR 5 MK II 110 XA**
1x **LINEAR 5 MK II 115 Sub A**
2x Weather Protective Cover **LINEAR 5 MK II 110 XA**
1x Weather Protective Cover **LINEAR 5 MK II 115 Sub A**

Optional accessories
Speaker Stand Add On XLR

DJ, Club, Bars, Lounge approx. 120-180 people

Ideal setup for clubs, bars, hotel business, entertainers, DJs, smaller bands with the requirement of an impressive performance with suitable radiation at the same time.

Rock Pack

2x **LINEAR 5 MK II 112 FA**
4x **LINEAR 5 MK II 115 Sub A**
2x Weather Protective Cover **LINEAR 5 MK II 112 FA**
4x Weather Protective Cover **LINEAR 5 MK II 115 Sub A**

Live stage, Club, Multi-purpose hall, Theater approx. 250-400 people

Precise bass response, clear and penetrating voice reproduction, option of the different setups, describe just a few of the outstanding features. The 60° x 40° radiation of the mid / high unit provides more range of the Rock Pack. The universally applicable system, is the right choice for a variety of demanding events. Live bands, clubs, DJ, musical and theatrical performances, etc.



Big Venue Pack

2x **LINEAR 5 MK II 115 FA**
4x **LINEAR 5 MK II 118 Sub A**
2x Weather Protective Cover **LINEAR 5 MK II 115 FA**
4x Weather Protective Cover **LINEAR 5 MK II 118 Sub A**

Live stage, Club, Multi-purpose hall, School approx. 350-500 people

Largest system within the series. Powerful, loud and flexible with impressive bass performance and high Max Spl. Ideal for city festivals, clubs, live stages and larger dance events where more range is also required in the depth. System can also be easily expanded or doubled if needed, thanks to the clusterable tops.



LINEAR 5 MK II - Technical data Mid/High Units

	LINEAR 5 MK II 110 XA	LINEAR 5 MK II 112 XA	LINEAR 5 MK II 112 FA
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 (70 Hz – 12 kHz averaged)
Max. SPL peak @ 10 % THD	135 dB half space	136 dB half space	135 dB half space
Frequency response +/-3 dB	74 Hz – 12 kHz	73 Hz – 12 kHz	70 Hz – 12 kHz
Frequency response -10 dB	68 Hz – 19 kHz	67 Hz – 19 kHz	55 Hz – 19 kHz
Power amp output (rms/peak)	600 / 1,200 W	600 / 1,200 W	600 / 1,200 W
Amp type	Class D - biamped	Class D - biamped	Class D - biamped
LF driver	-	-	-
Low-/mid speaker	1x 10", 2" voice coil	1x 12", 2.5" voice coil	1x 12", 2.5" voice coil
HF driver	1", 1.4" voice coil	1", 1.7" voice coil	1", 1.7" voice coil
Horn directivity	80° x 60° CD horn, rotatable	80° x 60° CD horn, rotatable	60° x 40° CD horn, rotatable
Active crossover frequency	2,1 kHz FIR X-over with 72 dB/oct.	1.9 kHz FIR X-over with 72 dB/oct.	1.6 kHz FIR X-over with 72 dB/oct.
Maximum input level	+20 dBu	+20 dBu	+20 dBu
Analog inputs	1x XLR combo balanced	1x XLR combo balanced	1x XLR combo balanced
Analog thru	1x XLR balanced	1x XLR balanced	1x XLR balanced
DSP Out	1x XLR balanced	1x XLR balanced	1x XLR balanced
Network port	Ethercon RJ45, 1x In	Ethercon RJ45, 1x In	Ethercon RJ45, 1x In
Filter presets	Flat, Monitor, Low Cut, Remote	Flat, Monitor, Low Cut, Remote	Flat, Boost, Low Cut, Remote
Remote software	DSP CONTROL (Windows, Mac OS)	DSP CONTROL (Windows, Mac OS)	DSP CONTROL (Windows, Mac OS)
DSP functions	Fully parametric 10-band EQ with variable filter characteristics, High-Pass Filter, Low-Pass Filter, Polarity, Level, Delay, Limiter, Mute	Fully parametric 10-band EQ with variable filter characteristics, High-Pass Filter, Low-Pass Filter, Polarity, Level, Delay, Limiter, Mute	Fully parametric 10-band EQ with variable filter characteristics, High-Pass Filter, Low-Pass Filter, Polarity, Level, Delay, Limiter, Mute
Sample rate	48 kHz	48 kHz	48 kHz
System latency	Less than 2 ms	Less than 2 ms	Less than 2 ms
Mains connector	1x IEC socket with V-lock cord retainer, 100-240 V	1x IEC socket with V-lock cord retainer, 100-240 V	1x IEC socket with V-lock cord retainer, 100-240 V
Power consumption	1 A / 100–240 V nominal according to EN 62368-1	1 A / 100–240 V nominal according to EN 62368-1	1 A / 100–240 V nominal according to EN 62368-1
Angels up (Monitor angle)	31°	31°	-
Pole mount	DuoTilt 3°/7°	DuoTilt 3°/7°	DuoTilt 3°/7°
Rigging points	3x M8 (AP-8)	3x M8 (AP-8)	3x M8 (AP-8)
Carrying handles	1x SingleGrip	2x SingleGrip	2x MultiGrip
Housing	Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)
Finish	Black acrylic enamel	Black acrylic enamel	Black acrylic enamel
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
Dimensions (WxHxD)	36 x 52.5 x 30 cm 14-1/16 x 20-43/64 x 11-13/16"	36 x 59 x 30.5 cm 14-1/16 x 23-15/64 x 12-1/32"	37 x 67 x 36.5 cm 14-9/16 x 26-3/8 x 14-3/8"
Weight	14.9 kg / 32.85 lbs	17.6 kg / 38.80 lbs	21.9kg / 48.28 lbs

*Vorläufige Daten


LINEAR 5 MK II 115 XA	LINEAR 5 MK II 115 FA
130 dB half space (70 Hz – 12 kHz averaged)	130 dB half space (70 Hz – 12 kHz averaged)
138 dB half space	138 dB half space
64 Hz – 12 kHz	57 Hz – 12 kHz
59 Hz – 19 kHz	54 Hz – 19 kHz
600 / 1,200 W	600 / 1,200 W
Class D - biamped	Class D - biamped
-	-
1x 15", 3" voice coil	1x 15", 3" voice coil
1", 1.7" voice coil	1", 1.7" voice coil
70° x 50° CD horn, rotatable	60° x 40° CD horn, rotatable
1.6 kHz FIR X-over with 72 dB/oct.	1.6 kHz FIR X-over with 72 dB/oct.
+20 dBu	+20 dBu
1x XLR combo balanced	1x XLR combo balanced
1x XLR balanced	1x XLR balanced
1x XLR balanced	1x XLR balanced
Ethercon RJ45, 1x In	Ethercon RJ45, 1x In
Flat, Monitor, Low Cut, Remote	Flat, Boost, Low Cut, Remote
DSP CONTROL (Windows, Mac OS)	DSP CONTROL (Windows, Mac OS)
Fully parametric 10-band EQ with variable filter characteristics, High-Pass Filter, Low-Pass Filter, Polarity, Level, Delay, Limiter, Mute	Fully parametric 10-band EQ with variable filter characteristics, High-Pass Filter, Low-Pass Filter, Polarity, Level, Delay, Limiter, Mute
48 kHz	48 kHz
Less than 2 ms	Less than 2 ms
1x IEC socket with V-lock cord retainer, 100-240 V	1x IEC socket with V-lock cord retainer, 100-240 V
1 A / 100-240 V nominal according to EN 62368-1	1 A / 100-240 V nominal according to EN 62368-1
31°	-
DuoTilt 3°/7°	DuoTilt 3°/7°
3x M8 (AP-8)	3x M8 (AP-8)
2x MultiGrip, 1x SingleGrip	2x MultiGrip
Hybrid (birch multiplex/MDF)	Hybrid (birch multiplex/MDF)
Black acrylic enamel	Black acrylic enamel
2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam
45 x 68.5 x 42 cm 17-23/32 x 26-31/32 x 16-17/32"	44,8 x 70,7 x 44,75 cm 17-2/3 x 27-4/5 x 17-2/3"
27.6 kg / 60.85 lbs	30,2 kg / 66,47 lbs



LINEAR 5 MK II - Technical data Subwoofer

	LINEAR 5 MK II 115 Sub A	LINEAR 5 MK II 118 Sub A
Max. SPL @ 10% THD	127 dB half space (42 Hz – 100 Hz averaged)	129 dB half space (42 Hz – 100 Hz averaged)
Max. SPL peak @ 10 % THD	130 dB half space	131 dB half space
Frequency response +/-3 dB	44 Hz – X-over	42 Hz – X-over
Frequency response -10 dB	40 Hz – X-over	38 Hz – X-over
Power amp output (rms/peak)	600 / 1,200 W	1,000 / 2,000 W
Amp type	Class D	Class D
LF driver	1x 15", 3" voice coil	1x 18", 4" voice coil
Low-/mid speaker	-	-
HF driver	-	-
Horn directivity	-	-
Active crossover frequency	-	-
Maximum input level	+20 dBu	+20 dBu
Analog inputs	2x XLR combo balanced	2x XLR combo balanced
Analog thru	2x XLR balanced	2x XLR balanced
DSP Out	1x XLR balanced	1x XLR balanced
Network port	Ethercon RJ45, 1x In, 1x Thru	Ethercon RJ45, 1x In, 1x Thru
Filter presets	Front, Cardioid 1:1 vertical, Cardioid 1:1 horizontal, Remote	Front, Cardioid 1:1 vertical, Cardioid 1:1 horizontal, Remote
Remote software	DSP CONTROL (Windows, Mac OS)	DSP CONTROL (Windows, Mac OS)
DSP functions	Fully parametric 10-band EQ with variable filter characteristics, Low-Pass Filter, Polarity, Level, Delay, Limiter, Mute	Fully parametric 10-band EQ with variable filter characteristics, Low-Pass Filter, Polarity, Level, Delay, Limiter, Mute
Sample rate	48 kHz	48 kHz
System latency	Less than 2 ms	Less than 2 ms
Mains connector	1x IEC socket with V-lock cord retainer, 100-240 V	1x IEC socket with V-lock cord retainer, 100-240 V
Power consumption	1 A / 100-240 V nominal according to EN 62368-1	1.9 A / 100-240 V nominal according to EN 62368-1
Angels up (Monitor angle)	-	-
Pole mount	1x M20	1x M20
Rigging points	-	-
Carrying handles	2x MultiGrip	2x MultiGrip
Housing	Hybrid (birch multiplex/MDF)	Birch multiplex
Finish	Black acrylic enamel	Black acrylic enamel
Front grille	2 mm metal grille backed with black acoustic foam	2 mm metal grille backed with black acoustic foam
Dimensions (WxHxD)	48 x 53.5 x 67.5 cm 18-57/64 x 21-1/16 x 26-37/64"	55 x 56 x 68.5 cm 21-21/32 x 22-3/64 x 26-31/32"
Weight	32.9 kg / 72.53 lbs	41.6 kg / 91.71 lbs

Settings

Cardioid 1:1 vertical	Cardioid 1:1 horizontal
<p>Front</p>  <p>Cardioid 1:1 vertical</p>	<p>Front</p>  <p>Cardioid 1:1 horizontal</p>
<p>Leave 1 meter of space in each direction!</p> 	





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