

## LINEAR 3 112 FA

**TOP PERFORMANCE TO TRUST >**

### Active full-range loudspeaker

Part number: 1007574

The LINEAR 3 112 FA speaker combines outstanding full-range characteristics with simple acoustic control by the user.

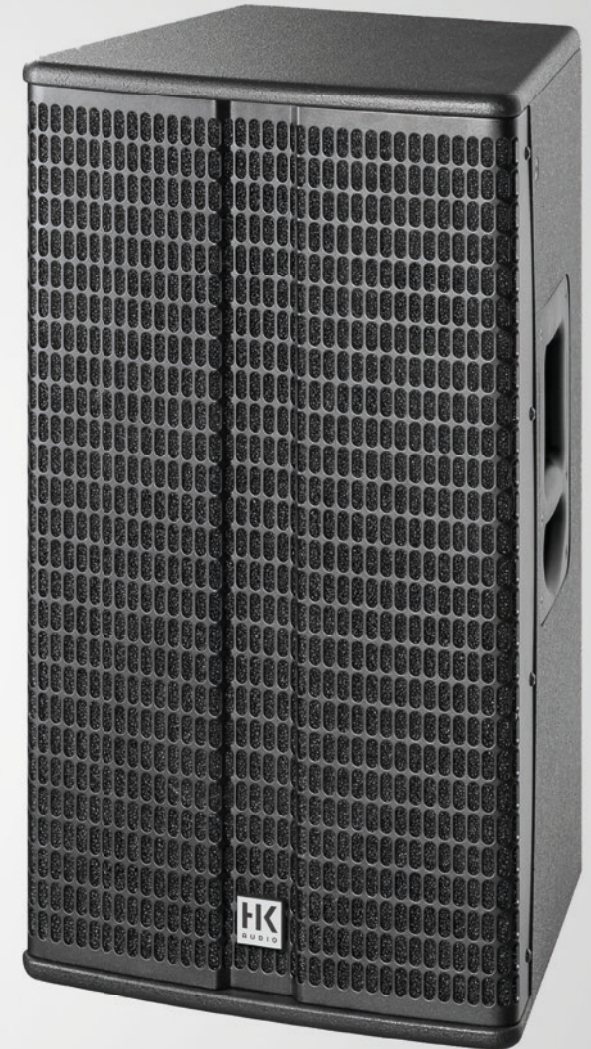
The high amplifier output of 1,200 watts ensures a high sound pressure of 135 dB.

Equipped with a 1" tweeter and a 12" woofer, the LINEAR 3 112 FA covers a wide frequency range. Thanks to integrated DSP technology, the user can adapt this powered speaker to a whole host of different situations with the help of the four different EQ presets – Bass Boost, Flat (LF), Flat (HMF) and Contour.

LINEAR 3 has been developed for bands, musicians and DJs who are regularly on the road with their own PA and no sound engineer and who are looking for a powerful sound without a large amount of additional effort.

### Features

- Active, powerful full-range mid/high unit
- High amplifier output of 1,200 W class D bi-amped
- Balanced, high-resolution sound
- High sound pressure of 135 dB SPL for sound applications with up to 500 people
- Advanced DSP technology for high-end sound results
- "Intelligent Multiband Limiter" ensures consistent sound characteristics
- FIR separation for transparent mid-frequencies
- Four different EQ presets for flexible applications
- No fatigue during listening thanks to low harmonic distortion
- Simple acoustic control of the system, even from the stage
- Accurate PA focus, reducing reflections from walls and ceilings
- Perfect combination options with the LINEAR SUB L SUB 1500 A and L SUB 1800 A subwoofers



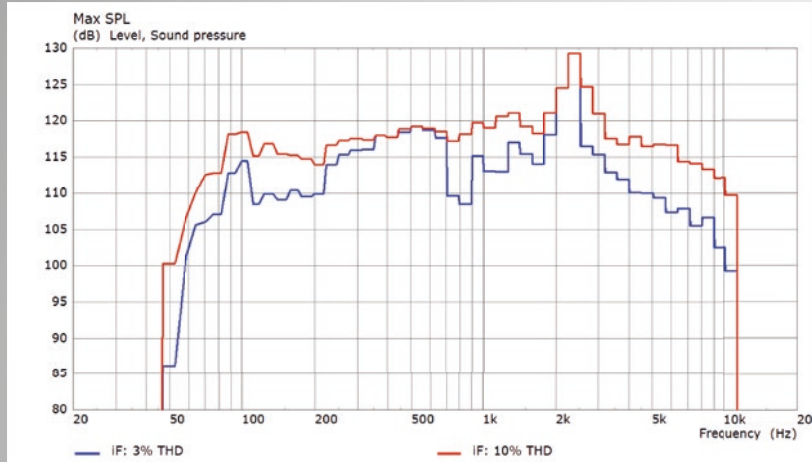
# LINEAR 3 112 FA

## Technical data

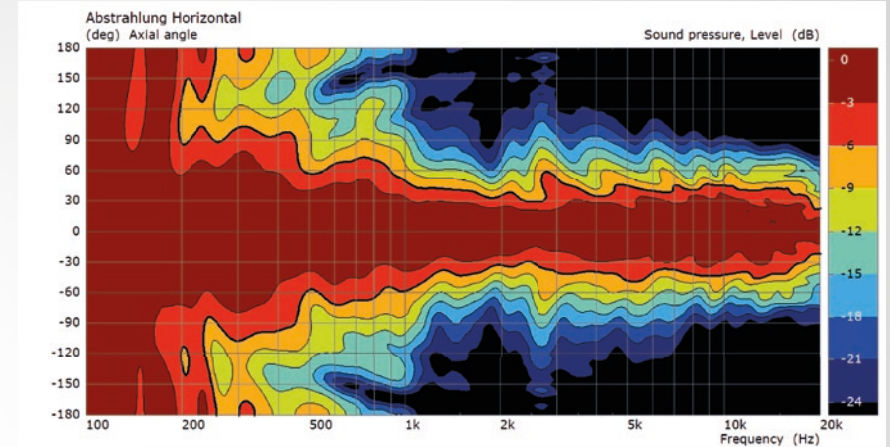
| LINEAR 7 112 FA               |   |
|-------------------------------|---|
| Max. SPL @ 10% THD            | 126 dB half space (70 Hz – 12 kHz averaged)   |
| Max. SPL peak @ 10 % THD      | 135 dB half space   |
| Frequency response +/-3 dB    | 65 Hz – 19 kHz  |
| Frequency response -10 dB     | 58 Hz – 18 kHz  |
| Power amp output (peak power) | 1200 W  |
| Preamp                        | DSP (Time Alignment)  |
| Amp type                      | Class D - biamped   |
| Active protective circuits    | Under-voltage, thermal, short circuit, over-current protection, subsonic filter, look ahead temperature control, peak, RMS and multiband limiters |
| Low-/mid speaker              | 1x 12", 2" voice coil   |
| HF driver                     | 1", 1" voice coil   |
| Horn directivity              | 90° x 55° CD horn   |
| Active crossover frequency    | 2.3 kHz FIR X-over with 72 dB/oct.  |
| Audio ports in                | 2x XLR combo balanced, 1x Stereo RCA  |
| Audio ports out               | 2x XLR Thru balanced, 1x XLR Mix Out  |
| Input sensitivity             | +4 dBu @ Gain center-notched  |
| Sensitivity switch            | Line/Mic Input A  |
| Filter presets                | 2 EQ switches: Bass Boost/Flat & Flat/Contour   |
| Mains connector               | 1x IEC socket with V-Lock cord retainer   |
| Power consumption             | 3 A / 220-240 V (6 A / 100-120 V) nominal according to EN 60065   |
| Angels up (Monitor angle)     | -   |
| Pole mount                    | DuoTilt 3°/7°   |
| Rigging points                | 4x M8 (AP-8)  |
| Carrying handles              | 2x MultiGrip  |
| Housing                       | 16 mm MDF   |
| Finish                        | Black acrylic enamel  |
| Front grille                  | 2 mm metal grille backed with black acoustic foam   |
| Dimensions (WxHxD)            | 36 x 66 x 36.7 cm<br>14-11/64 x 26 x 14-31/64"  |
| Weight                        | 21.5 kg / 47.4 lbs  |



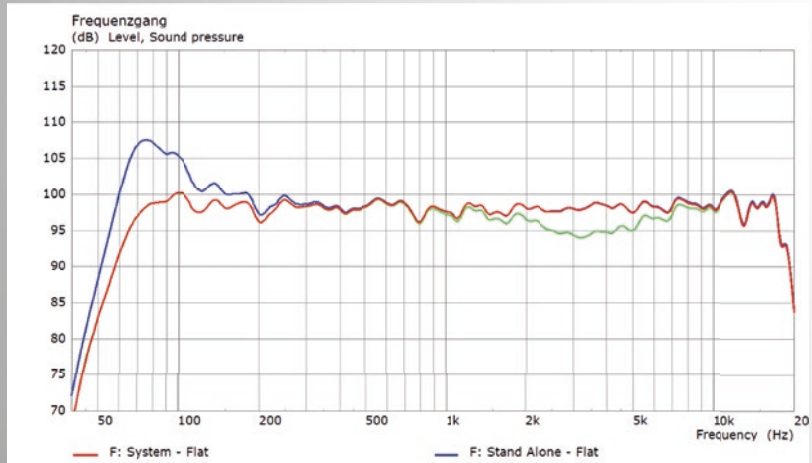
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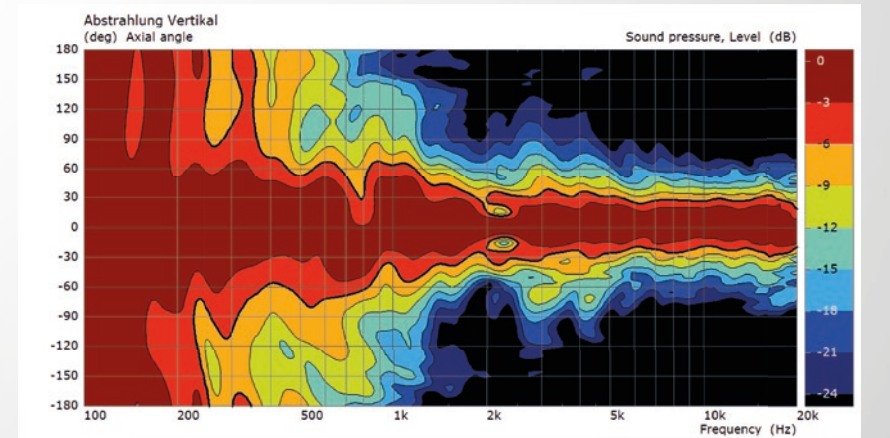
Max. SPL  
(blue= 3% THD, red= 10% THD)



Horizontal directivity



Frequency response  
(blue= Monitor, red= Flat, green= Lowcut)



Vertical directivity

## Accessories



### TB-45N

Part number: 1007778

The TB-45N is a tilt bracket for mounting speaker cabinets on truss rods, ceilings, wall brackets, beams and on tripods. It is compatible with LINEAR 3 112 FA and LINEAR 3 115 FA. Flexible vertical and horizontal alignment is possible. The TB-45N can be loaded with up to 70 kg WLL, with a safety factor of 5. Under DGUV-V 17 (German Statutory Accident Insurance Association Regulation 17), the permissible load capacity is thus up to 35 kg. The TB-45N comes as a set of two brackets.



### TB-45NQ

Part number: 1007779

The TB-45NQ is a tilt bracket with quick-release pins for mounting speaker cabinets on truss rods, ceilings, wall brackets, beams and on tripods. It is compatible with LINEAR 3 112 FA and LINEAR 3 115 FA. Quick mounting on the box is guaranteed thanks to the ball lock pins. Flexible vertical and horizontal alignment is possible. The TB-45NQ can be loaded with up to 70 kg WLL, with a safety factor of 5. Under DGUV-V 17 (German Statutory Accident Insurance Association Regulation 17), the permissible load capacity is thus up to 35 kg. The TB-45NQ comes as a set of two brackets.



### AP-8

Part number: 1007376

With a load capacity of up to 360 kg (WLL), the attachment point allows for the safe installation of the LINEAR 3 112 FA on steel cables or chains. The AP-8 comes as a set of three mounting points.



### Tilt-Unit

Part number: 1007538

To tilt the mid/high units when mounted directly on subwoofers, HK Audio offers the Tilt-Unit as an accessory which can be screwed into the M20 mount of the LINEAR SUB 1500 A and 1800 A just like a mounting pole. This means that the DuoTilt can also be used at tilt angles of both  $-3^\circ$  and  $-7^\circ$  in a stack setup, and the Tilt-Unit prevents the mid/high units from slipping. What's more, in a full-stack setup, the Tilt-Unit ensures the LINEAR 3 112 FA is correctly positioned on the subwoofer.

## Accessories



### Stereo Pole Add-On XLR

Part number: 1007635

The Speaker Stand Add-On Package XLR consists of two height-adjustable tripods, two XLR cables and a carrying bag. Thanks to these accessories, the active mid/high units can be used in stand-alone applications on the tripods or in combination with a LINEAR SUB 1500 A or LINEAR SUB 1800 A as a 2.1 system. The signal is wired using the XLR cables supplied.



### Speaker Stand Add-On Package XLR

Part number: 1007748

The Stereo Pole Add-On XLR Set consists of two height-adjustable König & Meyer M20 mounting poles, two high-quality XLR cables and a carrying bag. This set allows the mid/high units to be positioned at the right height, directly above the subwoofer, and connected via XLR cable.



### BWH-1

Part number: 1006109

The BWH-1 speaker wall bracket can be combined with all HK Audio speakers that have a Mono Tilt or DuoTilt speaker stand mount in order to install them securely on walls. The speaker can be aligned up to 120° horizontally and 45° vertically with a maximum load of up to 50 kg.



### LINEAR 3 112 FA Cover

Part number: 1007619

The padded protective transport cover made of durable nylon provides the required protection during transport. The convenient handle recesses also ensure safe and comfortable handling, mounted without any problems.

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