

## LINEAR 7 112 FA

### NETWORKED AUDIO PRECISION >

#### Active full-range loudspeaker

Part number: 1007758

The LINEAR 7 112 FA is an active full-range loudspeaker with modern DSP technology. The mixed IIR/FIR filtering ensures a very linear frequency response and low system latency. The enclosure of the LINEAR 7 112 FA is designed with angled sides for acoustically correct clustering.

The heart of the LINEAR 7 112 FA is the integrated DSP, which can be controlled via the HK Audio DSP CONTROL software. The HK Audio DSP CONTROL software offers the user numerous options for on-site system equalization and adjustment, such as a 10-band PEQ or group functions.

Four DSP presets can be selected directly on the speaker without a PC connected. In addition to three standard presets (Flat, Boost and Low Cut), a fourth user-designed preset can also be recalled.

The LINEAR 7 also features a new generation of improved tweeter and woofer transducers. In combination with the tweeter horns, which have also been newly developed, these offer the highest acoustic performance within the entire LINEAR family.

#### Characteristics

- Active full-range loudspeaker with network control
- 1x 12-inch bass-midrange driver with 2.5" voice coil
- 1x 1-inch compression driver with 1.7" voice coil
- Rotatable CD horn, 70° × 50° (horizontal × vertical)
- DSP platform with fully parametric 10-band EQ, delay and limiting for uncompromised individual adjustment
- Modern network technology for precise control of all DSP features
- Additional DSP-Out with the full range of features of the DSP that lets you operate a non-network-compatible loudspeaker
- Direct access to easily selectable presets on the speaker for use in a system with LINEAR 7 subwoofers or full-range operation without a subwoofer
- High-resolution AD/DA converters with 96 kHz, FIR filtering and low latency of less than 2.6ms
- 70° clustering bracket integrated in enclosure
- DuoTilt for 3° or 7° tilt for tripod mounting
- User friendly rigging and mounting options
- Professional Powercon and Ethercon connections
- Sturdy hybrid housing made of birch multiplex and MDF





# LINEAR 7 112 FA

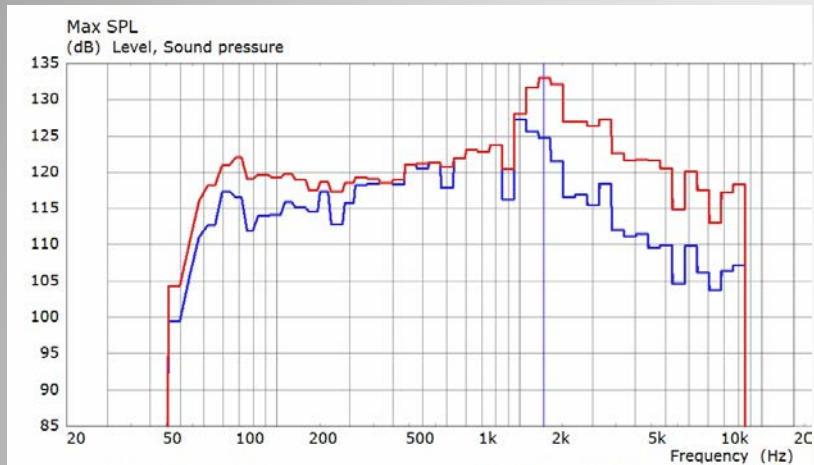
## Technical data

LINEAR 7 112 FA	
Max. SPL @ 10% THD	128 dB half space (70 Hz – 12 kHz averaged)
Max. SPL peak @ 10 % THD	131 dB half space
Frequency response +/-3 dB	64 Hz – 19 kHz
Frequency response -10 dB	55 Hz – 20 kHz
Power amp output (peak power)	2000 W
Amp type	Class D - biamped
Low-/mid speaker	1x 12", 2.5" voice coil
HF driver	1", 1.7" voice coil
Horn directivity	70° × 50° CD horn, rotatable
Active crossover frequency	1.6 kHz FIR X-over with 60 dB/oct.
Maximum input level	+20 dBu
Analog inputs	1x XLR combo balanced
Analog thru	1x XLR balanced
DSP Out	1x XLR
Network port	Ethercon RJ45, 1x In, 1x Thru
Filter presets	Flat, Boost, Low Cut, Remote
Remote software	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
Sample rate	96 kHz
System latency	Less than 2.6 ms
Mains connector	1x Powercon NAC3 In, 100–240 V
Power consumption	1 A / 100–240 V nominal according to EN 62368-1
Clustering angle	70°
Pole mount	DuoTilt 3°/7°
Rigging points	4x M8 (AP-8)
Carrying handles	2x MultiGrip
Housing	Hybrid (birch multiplex/MDF)
Finish	Black acrylic enamel
Front grille	2 mm metal grille backed with black acoustic foam
Dimensions (W×H×D)	37 × 67 × 37 cm / 4-9/16 × 26-3/8 × 14-9/16"
Weight	23 kg / 50.7 lbs

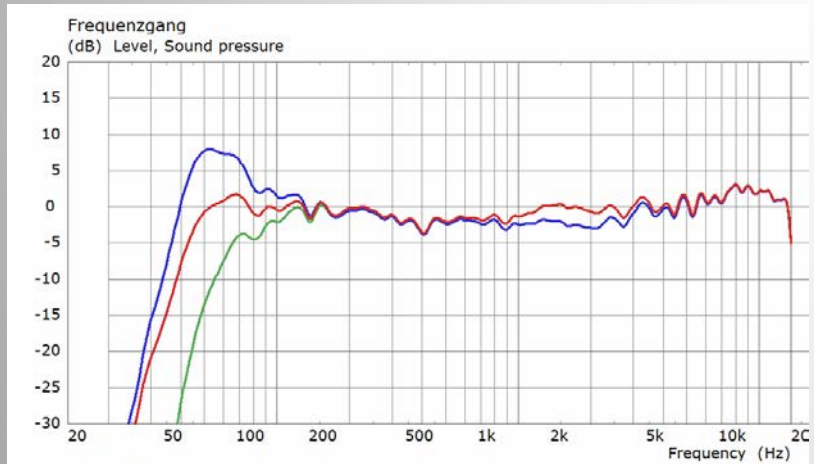




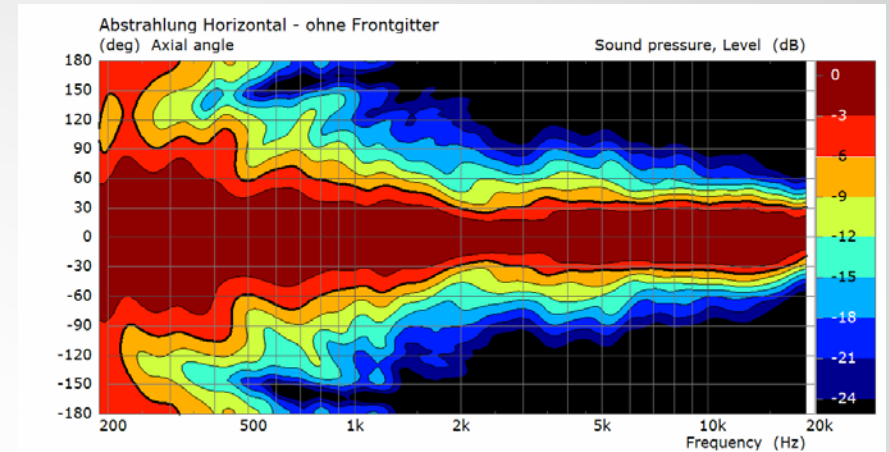
## Technical data



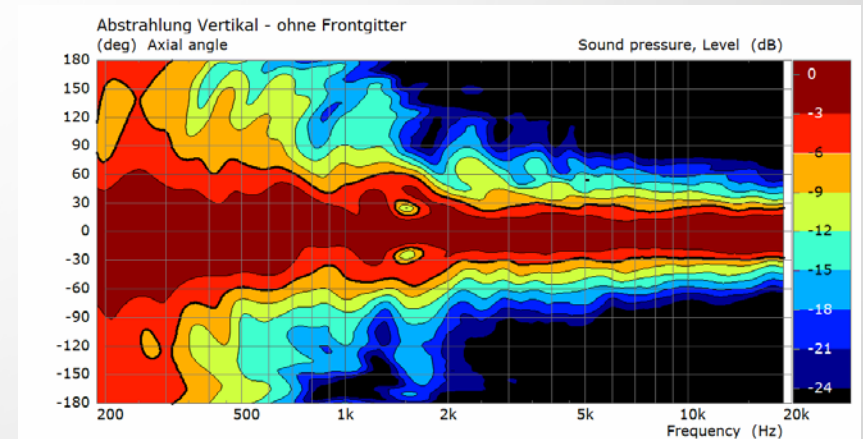
Max. SPL  
(blue= 3% THD, red= 10% THD)



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



Horizontal directivity



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 7 112 FA and LINEAR 7 115 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.



### TB-45NQ

Part number: 1007779

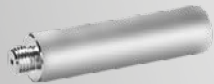
The TB-45NQ is a tilt bracket with quick-release pins for mounting speaker cabinets on truss rods, ceilings, wall brackets, beams and on tripods. It is compatible with LINEAR 7 112 FA and LINEAR 7 115 FA. Quick mounting on the box is guaranteed thanks to the ball lock pins. Flexible vertical and horizontal 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.



### 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 7 112 FA on steel cables or chains.



### 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 7 118 Sub A just like a mounting pole. 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.



### Weather Protective Cover for LINEAR 7 112 FA

Part number: 1007782

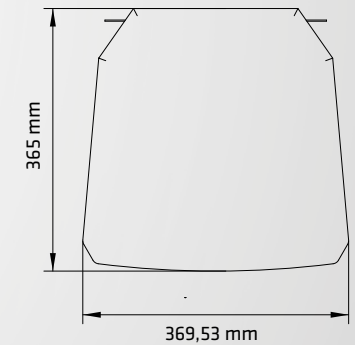
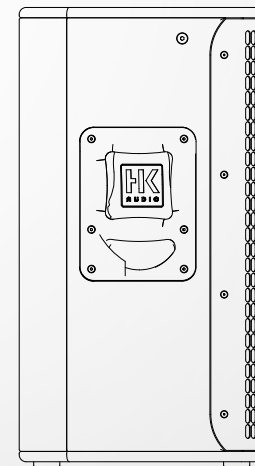
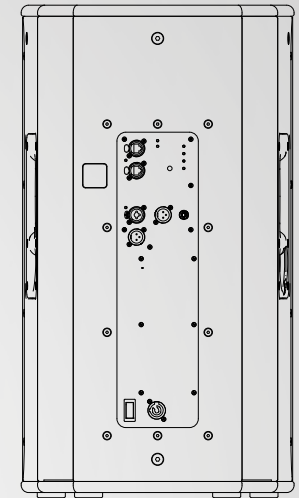
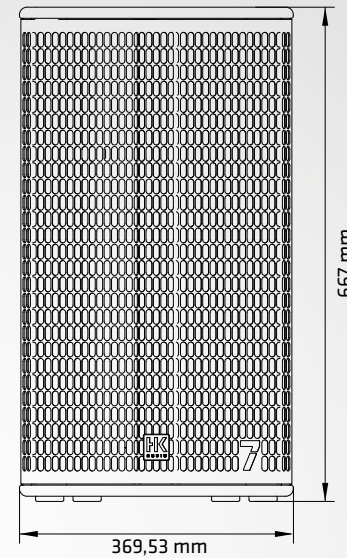
The LINEAR 7 112 FA Weather Protective Cover is a padded rain cover for protection during transport and operation with a rollable, splash-proof and sound-transparent gauze. Thanks to the practical handle recesses, the rain cover can remain permanently on the full-range speaker and at the same time all connection and control panels remain accessible, even the flying brackets can be mounted without any problems.



# LINEAR 7 112 FA



THE SOUNDMAKERS



Simulation and CAD files, tender specifications, certificates  
and much more can be found at [www.pro.hkaudio.com](http://www.pro.hkaudio.com)

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