

LINEAR 7 110 XA

NETWORKED AUDIO PRECISION >

Active multifunctional speaker

Part number: 1007755

The LINEAR 7 110 XA is an active multifunctional speaker with modern DSP technology. The mixed IIR/FIR filtering ensures a very linear frequency response and low system latency. This makes the LINEAR 7 110 XA also ideal for use as a stage monitor.

The heart of the LINEAR 7 110 XA 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, Monitor 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 multifunctional loudspeaker with network control
- 1x 10-inch bass-midrange driver with 2.5" voice coil
- 1x 1-inch compression driver with 1.4" voice coil
- Rotatable CD horn, 80° × 60° (horizontal x 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 as a monitor or system speaker
- High-resolution AD/DA converters with 96 kHz, FIR filtering and low latency of less than 2.6ms
- Multi-purpose housing for use as a FoH or monitor speaker thanks to 30° housing angle
- 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 7 110 XA

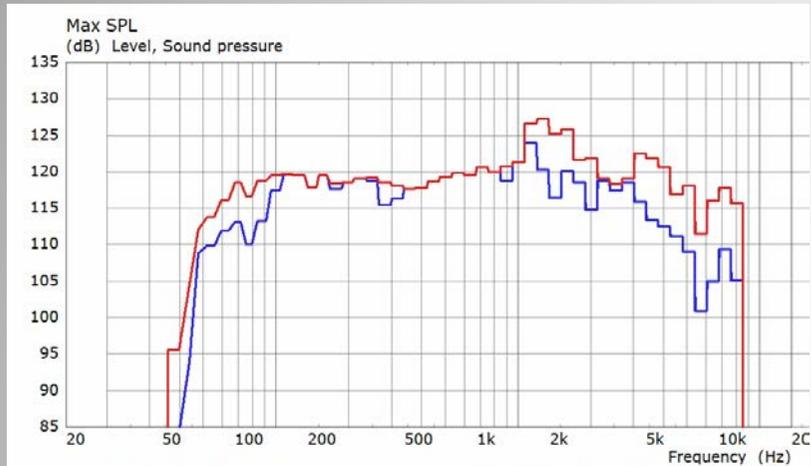
Technical data

LINEAR 7 110 XA	
Max. SPL @ 10% THD	126 dB half space (70 Hz - 12 kHz averaged)
Max. SPL peak @ 10 % THD	129 dB half space
Frequency response +/-3 dB	70 Hz - 19 kHz
Frequency response -10 dB	65 Hz - 20 kHz
Power amp output (peak power)	2000 W
Amp type	Class D - biamped
Low-/mid speaker	1x 10", 2.5" voice coil
HF driver	1", 1.4" voice coil
Horn directivity	80° x 60° CD horn, rotatable
Active crossover frequency	2 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, Monitor, 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
Angels up (Monitor angle)	30°
Pole mount	DuoTilt 3°/7°
Rigging points	5x M8 (AP-8)
Carrying handles	2x SingleGrip
Housing	Hybrid (birch multiplex/MDF)
Finish	Black acrylic enamel
Front grille	2 mm metal grille backed with black acoustic foam
Dimensions (WxHxD)	36 x 54 x 31 cm / 14-11/64 x 21-1/4 x 12-13/64"
Weight	17 kg / 37.5 lbs

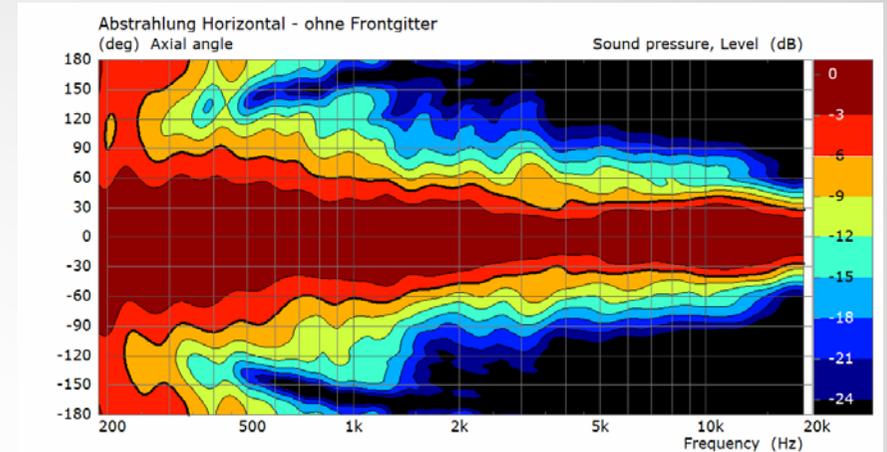


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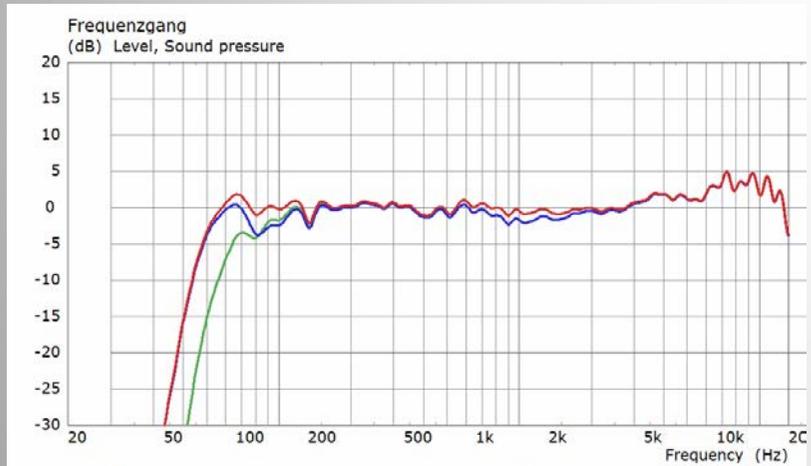
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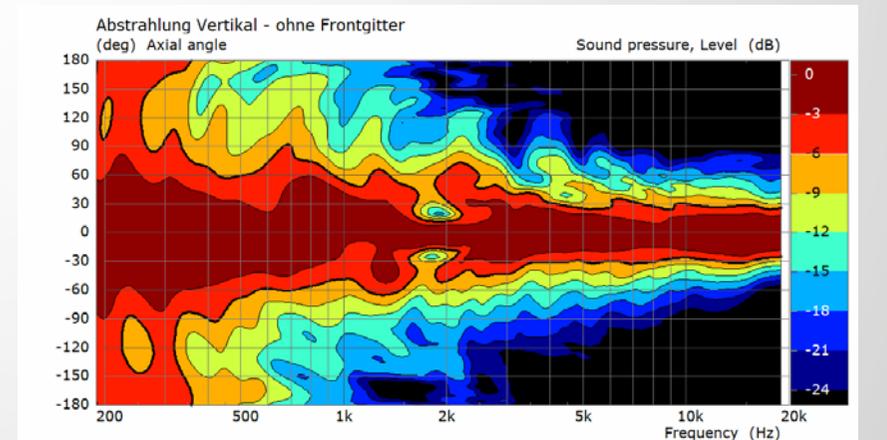
Max. SPL
(blue= 3% THD, red= 10% THD)



Horizontal directivity



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



Vertical directivity

Accessories



TB-28N

Part number: 1007779

The TB-28N is a tilt bracket for mounting speaker cabinets on truss rods, ceilings, wall brackets, beams and on tripods. It is compatible with the LINEAR 7 110 XA and LINEAR 7 112 XA loudspeakers. Flexible vertical and horizontal alignment is possible. The TB-28N can be loaded with up to 70 kg WLL, with a safety factor of 5. Under DGVV-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 7 110 XA 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.

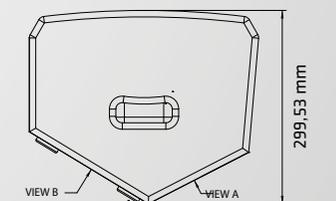
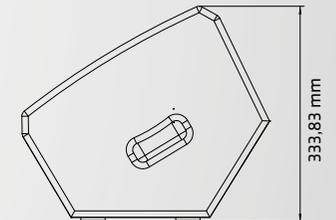
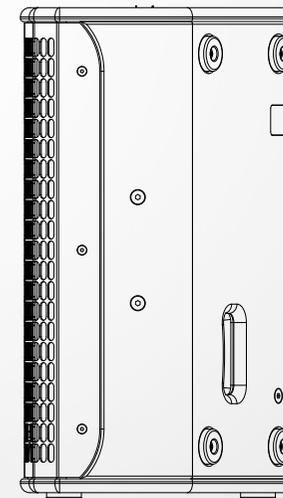
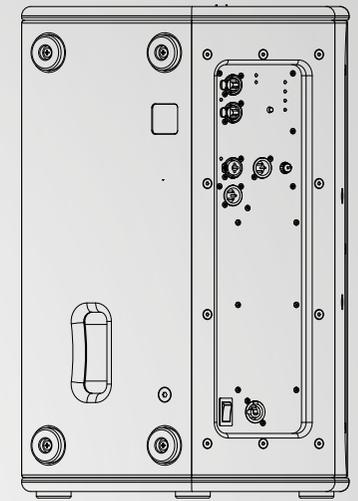
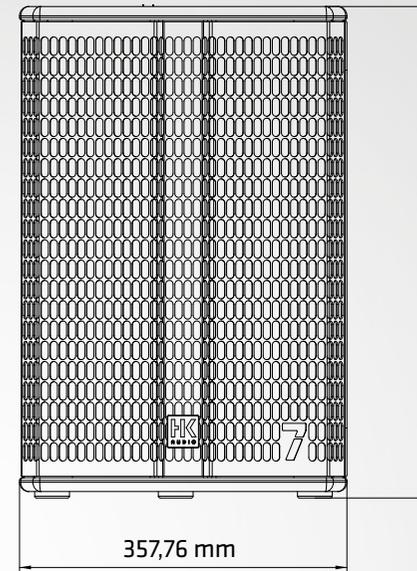


Weather Protective Cover for LINEAR 7 110 XA

Part number: 1007782

The LINEAR 7 110 XA 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 7 110 XA



Simulation and CAD files, tender specifications, certificates and much more can be found at www.pro.hkaudio.com