



Install
Sound



IL 112 Sub

An extremely compact, direct-loaded subwoofer, the IL 112 Sub delivers natural-sounding bottom end at remarkably low distortion levels.

It is particularly well-suited for reinforcing the low end of HK AUDIO® IL 42 IL 82 and IL 8.1 cabinets. Hi-cut filter on board.

The IL 112 Sub is a remarkably compact subwoofer designed to extend IL 8.1 and IL 82 cabinets' low-frequency response. Loaded with a direct-radiating 12" conical loudspeaker in a bass reflex housing, the enclosure is driven by a built-in passive crossover.

Among the IL 112 Sub's hallmark qualities are powerful low-end, natural-sounding response with low distortion levels, and compact dimensions.

Depending on sound pressure requirements, it is an excellent choice for sound reinforcement applications demanding enhanced low end for short- to medium-throw coverage.

The IL 112 Sub may be operated without a controller. However, for the greatest operating safety, best performance and most convenient handling, we recommend using the HK AUDIO® Digital Field Controller (DFC).

Architectural specifications

The professional subwoofer system shall incorporate a 12" speaker yielding low distortion and natural bass reproduction. The bass loudspeaker shall be mounted in an optimally matching rectangular bass-reflex housing constructed of 16 mm-thick MDF and coated with either black or white acrylic paint. The speaker shall be protected by an impact-resistant perforated metal grille which shall have acoustic foam glued to its back. The system shall include an internal passive crossover with a crossover frequency of 150 Hz, at a slope of 12 dB per octave, to enable parallel operation with full-range loudspeakers without requiring an additional controller.

Frequency response shall extend from 75 Hz to 130 Hz (+/- 3 dB).

Axial sensitivity shall measure 102 dB @ 1W/1m under half-space conditions. Maximum sound pressure level shall be 121 dB at 10% THD under half-space conditions. The subwoofer shall have a power handling capacity of 150 watts RMS and an impedance of 8 ohms.

There shall be two types of input connectors: one Neutrik NL 4 Speakon® connector, and one pair of binding posts. The exterior dimensions shall be 54 cm wide x 42 cm tall x 42 cm deep, and the unit shall weigh 23 kg (50.6 lbs.)

The subwoofer shall be the HK AUDIO model **IL 112 Sub**.

- black: G 182123
- white: G 182133

Enclosure design and mechanical appointments

The housing is made of 19-mm MDF coated with acrylic enamel. Cabinets ship in the standard colors black or white. The enclosure is shaped in a rectangular block. Covering its front baffle is an impact-resistant steel grille backed with laminated acoustic foam rubber. Four rubber stops on the bottom panel hold the cabinet securely in place.

The IL 112 Sub weighs 23 kg. It is 55 cm wide, 42 cm high and 43 cm deep. Connectors are located on a countersunk panel on the back of the IL 112 Sub.

This panel offers a four-pin Speakon® port.

The IL 112 Sub's pin assignments are pin 1+ / pin 1-.

The IL 112 Sub is also equipped with binding posts enabling direct connection of speaker cords lacking plugs. The red binding post is wired in parallel to the Speakon® connector's 1+ pin; the black binding post to the 1- pin.

Electrical and acoustical data

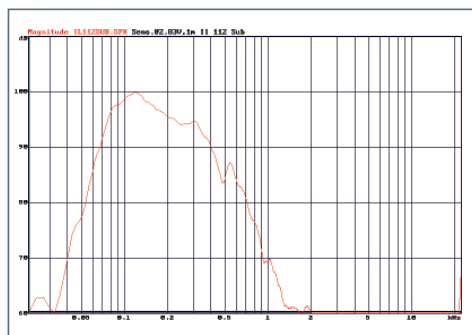
The IL 112 Sub features a 12" HK AUDIO® Custom conical chassis speaker. It is driven by an internal passive crossover with a corner frequency of 150 Hz and a slope of 12 dB per octave. This yields a frequency response ranging from 65 Hz to 230 Hz. With this range, the IL 112 Sub is well-suited for deployment as an additional subwoofer to complement IL 8.1 and IL 82 fullrange speaker cabinets. The IL 112 Sub's nominal power handling

capacity is 150 watts RMS at 8 ohms impedance.

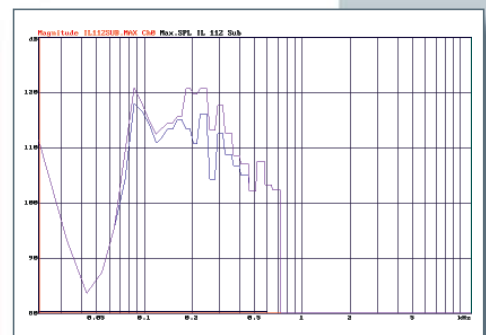
It delivers 102 dB SPL (1W/1m), measured under half-space conditions.

Maximum SPL measured under the same conditions at a distance of one meter is 121 dB at 10% THD.

Measurement charts



Frequency Response



Max. SPL

Complementary fullrange enclosures suitable for use as mid/ high cabinets

The following HK AUDIO® Installation Line fullrange enclosures are well-suited for supplementing the IL 112 Sub subwoofer:

IL 42

An extremely compact cabinet for voice and fullrange applications housed in a robust polymer enclosure, the IL 42 is a splendid option for background and

near-field sound reinforcement in foyers, boutiques and bars.

Passive crossover on board; basic swiveling / tilting wall mount included.

IL 42 T version with a built-in 70 V/100 V transformer is also available.



IL 82

A compact cabinet for voice and fullrange applications, the IL 82 delivers exceptional speech intelligibility for background and near-field sound reinforcement, for

example, in foyers, lecture halls, bars and clubs.

The IL 82 may be deployed as a fullrange or mid-/high-range cabinet in configurations with a subwoofer such

as the compact HK AUDIO® IL 112 Sub or IL 115 Sub.

Passive crossover on board.



IL 8.1

A remarkably compact cabinet for voice and fullrange applications, the IL 8.1 delivers extraordinary phase linearity, highest speech intelligibility, and considerable dynamic

range. The IL 8.1 may be deployed as a fullrange or mid-/high-range cabinet in configurations with a subwoofer such as the compact HK AUDIO® IL 112 Sub or

IL 115 Sub. It is ideal for decentralized public address, presentations, near-field sound reinforcement, and so forth.

Passive crossover on board.



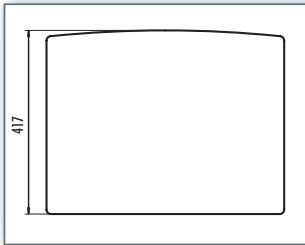
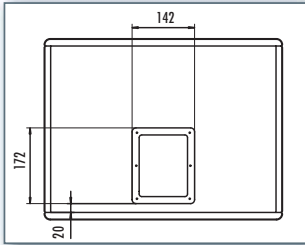
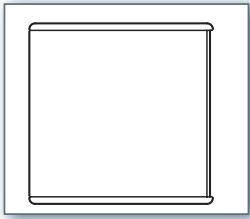
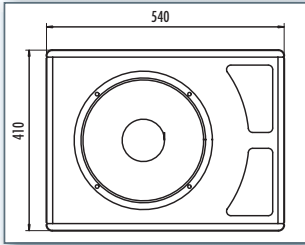
IL 8.75

This horn-loaded, two-way, ceiling-mount enclosure is a fullrange, high-directivity cabinet tuned for remarkably natural-sounding voice reinforcement.

The IL 8.75 is ideal for public address in lecture halls and conference venues, and at fairs, airports and the like.

Passive crossover on board.





Technical specifications

Loudspeakers

Power handling nominal (RMS):	150 W
Power handling (program):	250 W
Power handling (peak, 10 ms)	500 W
Impedance:	8 ohms
Frequency response (± 3 dB):	75 Hz to 130 Hz
Frequency response (-10 dB):	65 Hz to 230 Hz
Axial sensitivity (1W/1m, half-space):	102 dB
Maximum SPL (3 % THD, half-space):	115 dB
Maximum SPL (10% THD, half-space):	121 dB
Maximum SPL (calculated at peak):	129 dB
Woofer:	12" HK AUDIO® Custom
Corner frequency, passive crossover:	150 Hz / 12 dB per octave

Connectors

Ports:	1 Speakon® NL4, 1 set of binding posts
Pin assignments:	Speakon: 1+ / 1-

Housing

Housing design:	Bass reflex
Material:	16 mm MDF
Coating:	black or white acrylic enamel
Front cover:	impact-resistant protective steel grille
Weight:	23 kg / 50.7 lbs.
Dimensions (W x H x D):	55 x 42 x 43 cm 21 2/3" x 16 1/3" x 17"

Service items

- 12" speaker



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