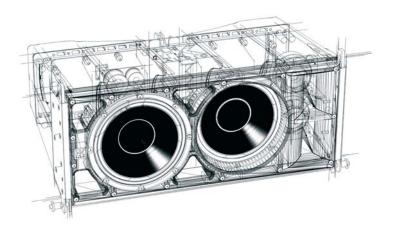
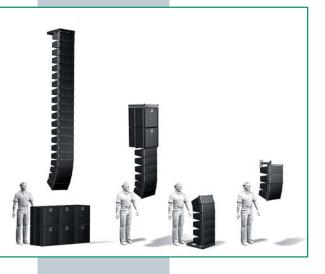


Cadis

Compact ADaptive Installation System



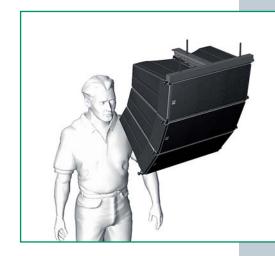


CADIS, the Installation Array from HK AUDIO, was designed first and foremost for versatility. CADIS was developed for installations in theatres, civic and community centers, houses of worship, gymnasiums, conference centers and large meeting halls, as well as outdoor installation projects such as stadiums and theme parks.

The Compact Adaptive Installation System, as it is called by its full name, is noteworthy not only for its extraordinary flexibility and sonic performance, but also for the ruggedness of its components. The CAD 208 mid-/high-range unit's

enclosure is crafted of polyamide reinforced with glass particles, a weather- and UV-resistant material that boasts extraordinary mechanical and acoustical properties. Engineered in its entirety using the BEM (Boundary Element Method), the CAD 208's baffle board is a homogeneous sound source designed to ensure optimum acoustic coupling of components, minimize distortion, and project a tightly focused pattern of throw with precise directivity.

The CAD 208 enclosure is loaded with two 8" lowfrequency /midrange woofers, two 1" high frequency drivers feeding CD horns, and a 2 1/2-way crossover. The enclosure radiates sound 100° horizontally and 15° vertically, achieving excellent horizontal and vertical coverage even with just a few mid-/highrange units. The CAD 208 renders speech and syllables with remarkable clarity. Despite its compact dimensions and light weight of 16.6 kg / 36.4 lbs. (in threeway active mode without an internal crossover), it can also serve as a fullrange system, rendering canned music without requiring subwoofer.



For the best possible audio performance and coverage pattern, the CAD 208 mid/high unit can also be driven in 3-way active mode with the HK Audio FirNet™ Controller.

The subwoofer designed specifically for the system, the passive CAD 115 Sub, is loaded with a high-performance 15" neodymium loudspeaker that makes a perfect low-end complement to the CAD 208 mid/high units thanks to the quickness of speaker's response and its impulse accuracy. The CAD 115 is also outfitted with rigging hardware and can be situated either above the mid/high units in a flown array, as a

separate flown bass array, or in ground-stacking mode. For additional flexibility, other existing subwoofer models in the HK Audio Installation Line may be combined with the new CADIS CAD 208.

With its unobtrusive yet upscale appearance, the new CADIS system will blend into the interior design of any given structure quite attractively. Black and white models are both kept in stock as standard offerings, and versions in any RAL color can be special-ordered. The cabinets include several features which make installation easy and quick: the same integral 3-point

rigging system as the HK Audio Cohedra Compact Line Array, the low cabinet weight, and the choice of connection terminals. The UVresistant weather resistant construction and the IP44 classification make CADIS an excellent choice for outdoor installations or other highhumidity locations such as indoor swimming pools. The rigging hardware, which has been safety-tested according to rigorous German standards, permits array sizes of up to twenty CAD 208 mid/ high units. This allows extraordinary installation flexibility, as the same system can be configured in the most diverse ways, yet perfectly

appropriately for each individual project.

CADIS comes with all data required for the simulation program EASE (V4.0 and higher) and the aiming software EASE Focus.
And of course CADIS is 100% made-in-Germany!



Specifications

This professional 2 ½-way speaker system serves to set up vertical arrays that project a wide wave-front across the entire audience area.

Two 8" loudspeakers are mounted in a precision-tuned polyamide housing. Two 1" HF drivers are coupled to two CD horns with 100° horizontal and 15° vertical directivity.

The tough polyamide housing is weather- and UV-resistant. It comes in black or white, though any other RAL colors

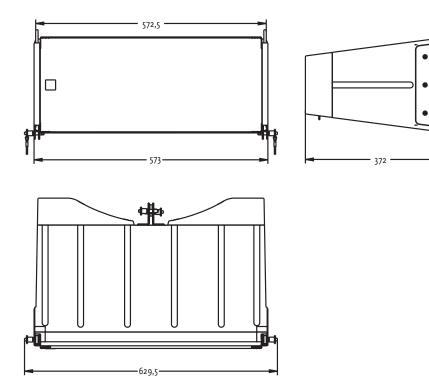
are available on demand. The fully integrated rigging hardware is adjustable from 0° to 15° in 1.5° steps.

The front grille is made of steel. The CAD 208 is certified according to the IP44 standard.

The HK Audio FirNet™
Controller or HK Audio
DSM 2060 Controller paired
with VX 2400 power amps
serve to drive these speakers.

Frequency response ranges from 75 Hz to 18 kHz (+/-3 dB), with 95 dB axial sensitivity (one unit) @ 1W/1 m under fullspace conditions and 130 dB maximum SPL at 10% THD.

Power handling is 250 watts RMS per unit; nominal impedance is 8 ohms.



Connectors

Optionally either two NL4s for the passive or NL8s for the triamped version, Barrierstrips, or PG glands with terminals inside

Dimensions (W x H x D)

57,8 cm x 23,8 cm x 37,3 cm 22-3/4 x 9-3/8 x 14-11/16"

Weight

17.5 kg / 38.6 lbs. with passive x-over, 16.5 kg / 36.4 lbs. without internal x-over

Accessories

Rigging/stacking frame, connector frame for flying mid/high units in an array with subwoofers on top, wall mount, ceiling mount

Туре

HK AUDIO CADIS CAD 208 mid/high unit





Specifications

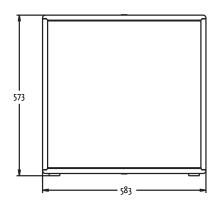
Loaded with a 15" neodymium speaker in a precision-tuned bass reflex housing, this professional-grade subwoofer delivers powerful, direct and remarkably dynamic response.

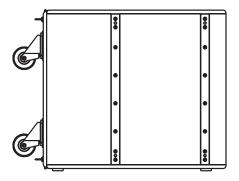
The cube-shaped enclosure is made of 18-mm birch plywood coated with black or white lacquer. Any other RAL colors are optionally available.

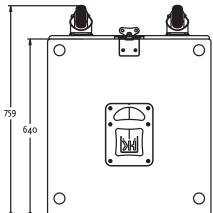
A rugged steel grille backed with laminated acoustic foam rubber protects the front.

Embedded rails attach the enclosure to a rigging frame and accept a connector frame for use with CAD 208 mid-/ high-range units.

Frequency response ranges from 47 Hz to 150 Hz (+/-3 dB), with 102 dB axial sensitivity @ 1W/1 m under half-space conditions and 131 dB maximum SPL at 10% THD under half-space conditions. Power handling is 600 watts RMS.







Connectors

Two NL4 Speakon

Dimensions (W x H x D) 58,3 cm x 57,3 cm x 64 cm

58,3 cm x 57,3 cm x 64 cm 22-15/16 x 22-9/16 x 2-1/2"

Weight

38 kg / 83.8 lbs.

Accessories

Rigging/stacking frame, connector frame, sub connector set, dolly with four 100 mm casters, protective covers

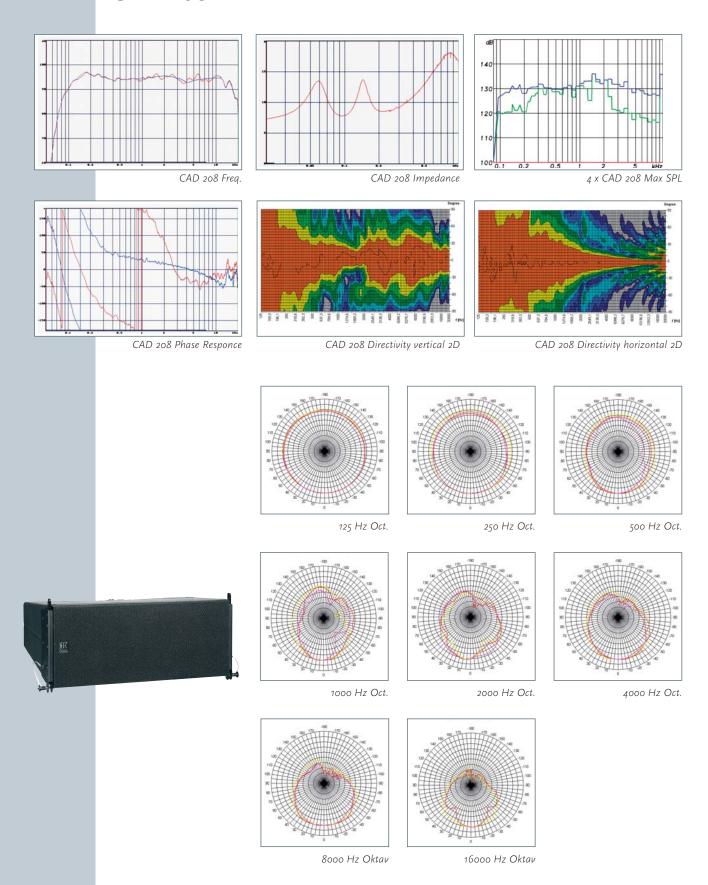
Type

HK AUDIO CADIS CAD 115 Sub

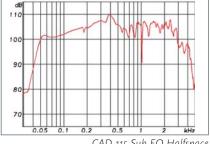


Diagramms

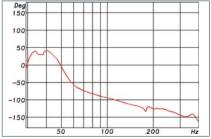
CAD 208



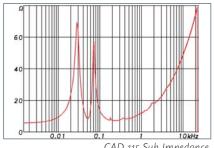
CAD 115 Sub







CAD 115 Sub Phase Response



CAD 115 Sub Impedance



CAD 115 Sub Max SPL



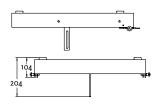
Accessories

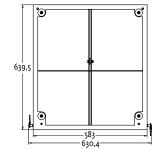


Rigging/stacking frame

The rigging/stacking frame accepts up to 20 CAD 208 units in flown configurations or in combination with the flown CAD 115 Sub enclosure. It also serves as the base for stacked mid/high units or full-range configurations comprised of CAD 115 subwoofers and CAD 208 mid/high units.

The entire stack may be tilted forward or back to best align the system to the audience area.

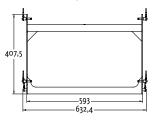


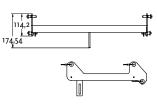




Connector Frame

The lightweight connector frame lets you rig up to ten CAD 208s under no more than two CAD 115 subwoofers.

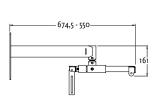


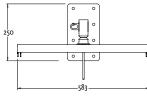




Wall mount

The CADIS wall mount consists of a T-shaped yoke and a mounting bracket. Up to four 4 mid/high units may be mounted to walls at different angles to provide the best possible alignment.

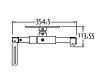


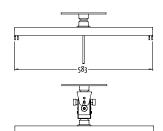




Ceiling Mount

With the CADIS ceiling mount, up to three CAD 208 mid/high units be be mounted directly to a ceiling.

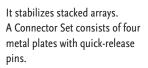






Sub Connector Set

The Sub Connector Set attaches stacked CAD 115 subwoofers to the standard rigging frame in both flown and groundstacked configurations.











Technical Data

CAD 208

Power-handling nominal 250 W RMS, 500 W Prog.

Frequency response +/- 3dB 75/ 100 Hz - 18 kHz

Axial sensitivity, 1W@1m 95 dB Fullspace 101 dB Halfspace

Max. SPL@1m

Nominal impedance

Speaker 2 x 8" speaker

HF drivers 2 X 1"

Directivity 100° horizontal

Crossover frequency 1,8 KHz, 12 dB/ octave

Connectors

Housing Polyamide 2 1/2-way passive Crossover Filter Crossover Controller

Black or white, on demand available in Finish

every RAL colour

Grille Metal

Rigging hardware Integrated 3-point

Adjustable curving angles 0°, 1.5°, 3°, 4.5°, 6°, 7.5°, 9°, 10.5°, 12°,

13.5°, 15°

Weight 17.5 kg / 38.6 lbs. passive,

Dimensions (WxHxD) 57,8 cm x 23,8 cm x 37,3 cm

22-3/4 x 9-3/8 x 14-11/16"

frame, wall mount, ceiling mount

Max. number of enclosures

per array

Grille

(depending on controller & length)

130 dB@10% THD Fullspace*

136 dB@10% THD Halfspace*

8 ohms

15° vertical

- 2 x Speakon NL 4 (standard) - External terminal (optional)

- PG gland, internal terminal (optional)

16.5 kg / 36.4 lbs. tri-amped (without internal passive Xover)

Accessories Rigging/stacking frame, connector

up to 20 x CAD 208 cabinets

* with 4x CAD 208

CAD 115 Sub

Power-handling nominal 600 W

Frequency response +/- 3 dB 47 Hz- 150 Hz

Axial sensitivity 1W@1m 96 dB (50 Hz- 200 Hz) Fullspace 102 dB (50 Hz- 200 Hz) Halfspace

Max.SPL@1m 122 dB@10% THD, Fullspace (60Hz-150Hz)

128 dB@10% THD, Halfspace (60Hz-150Hz)

125 dB@10% THD, Fullspace (70Hz-90Hz) Max. SPL peak 131 dB@10% THD, Halfspace (70Hz-90Hz)

129 dB, Fullspace (2400 W Peak) Max. SPL@1m calculated

135 dB, Halfspace (2400 W Peak)

8 ohms Nominal impedance

Crossover via external controller

1x 15" neodymium woofer Speaker

Connectors 2 x Speakon NL 4 18 mm birch multiply Housing

Finish Black or white

on demand available in every RAL color

Metal

Rigging hardware 4 integrated rails Weight 38 kg / 83.8 lbs.

Dimensions (WxHxD) 58,3 cm x 57,3 cm x 64 cm

22-15/16 x 22-9/16 x 2-1/2"

Accessories Rigging/stacking frame, connector frame

> for one CAD 115 Sub and eight CAD 208 units. Set with four flying adapters and Quick Release pins for mounting up to two CAD 115 Subs and till eight CAD 208 units.

Dolly with four 100 mm casters.

