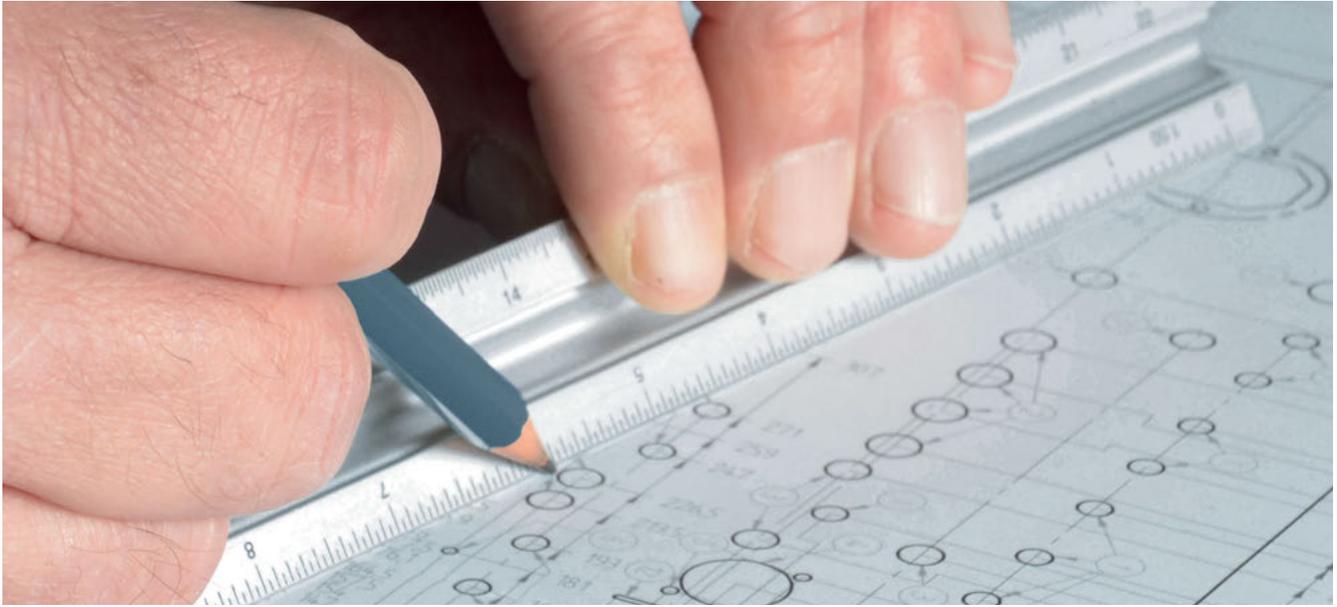


INSTALLATIONS



A SELECTION OF INSTALLATION PROJECTS



SOUND

Over the past thirty years, the name HK Audio has become synonymous with live sound reinforcement systems of the highest quality.

Our installation products are mostly developed and produced in our own manufacturing facility in St. Wendel, Germany: from sawing and preparing the wood cabinets to stamping the metal chassis, then coating, printing, fitting circuit boards, and the final assembly—with consistent quality control checks throughout the process. This is how we guarantee products of the highest quality, and a unique sound—and all made in Germany.

Whether they are in churches, conference centers, clubs, hotels, sports facilities, restaurants or in the live events sector, our PA systems are in use worldwide.

MADE IN GERMANY

This brochure gives you an idea of the range of applications of our HK Audio installation products.





**Leverkusen,
Germany**

BAYARENA

- 30,000 capacity
- Product: Cadis
- Installation:
Customized 3-way active speakers:
150 x CAD 208s,
16 x CAD 115 Subs
(RAL color 9002),
all driven by FirNet
Controller with FIR
filters

For the start of the 2009/2010 Bundesliga season, the BayArena was given an overhaul, resulting in a highly modern football stadium with stunning architecture and room for more than 30,000 spectators. The hallmark of the stadium—the roof structure—protects every fan in the stadium from rain and harsh weather

conditions. Bosch Security Systems Germany took on responsibility for the safety of facilities as well as the stadium sound system, the installation of which was carried out by the Gelsenkirchen-based company Stage Systems Event Technology.

Ingolstadt, Germany

AUDI SPORTPARK

- 15,800 capacity
- Products:
Vortis, Cadis
- Installation:
Vortis:
58 x VR 11214s,
12 x VR 11214s
Cadis:
20 x CAD 115 Subs





**Shenyang/Liaoning,
China**

PANJIN SPORTS CENTER

- 12,077 square meters / 46,000 capacity
- Product: Cadis
- Installation:
 - Multifunctional Indoor Arena:
52 x CAD 208s,
10 x CAD 115 Subs mounted and flown on 8 Cadis rigging harnesses, 8 connector frames and 24 HK Audio connector kits were used to assemble the rig.
4 x ConTour CT 115s,
6 x Premium PR:O 12 As,
4 x Vortis VR 11514s,
driven by 5 FirNet Controllers

Outdoor Sport Stadium:
78 x CAD 208s,
13 x CAD 115 Subs flown with 26 HK Audio connector sets and 13 connector frames on 13 Cadis rigging frames, supported by
6 x Premium PR:O 12 As,
12 x water resistant Vortis VR 11514s

Indoor Tennis Ground:
2 x Premium PR:O 12 As,
13 x Vortis VR 11510s

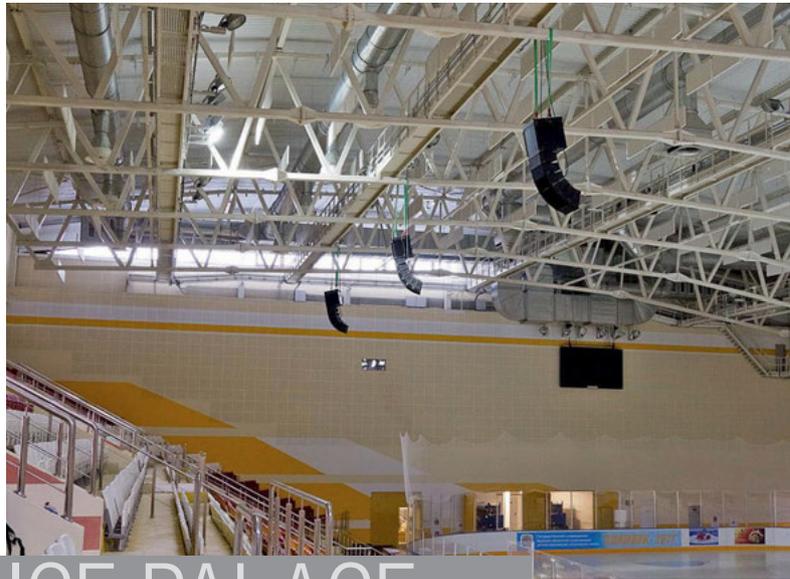
Swimming Pool:
6 x IL 80-CTs,
2 x Premium PR:O 12 As,
20 x waterproof Vortis VR 11510s



In 2013 Shenyang, capital of Liaoning Province, hosted the Chinese National Games. With a total area of more than 12,000 square meters and a capacity of over 46,000, the Panjin Sports Center in Liaoning Province was one of the main venues for the games. For the sound system, Chinese HK Audio distributors Melody Development equipped the entire stadium with a comprehensive Cadis setup. The system, which is used for playing music as well as announcements and speeches, now provides crystal-clear sound reinforcement in the multifunctional indoor area and the outdoor sports stadium, as well as at the indoor tennis courts and the swimming pool.

- 2,000 capacity
- Products:
 - Cadis, Installation Line,
 - ConTour,
 - Premium PR:O
- Installation:
 - Cadis:
 - 30 x CAD 208s
 - 5 x CAD 115 Subs

- ConTour Series:
 - 8 x CN 115s,
 - 12 x CT 108s
 - 2 x Premium PR:O 10 XAs
 - 4 x IL 15.1s
 - 4 x IL 15.2s



Molodechno, Belarus

MOLODECHNO ICE PALACE

In 2014, Belarus hosted the Ice Hockey World Cup for the first time, and the country took the opportunity to modernize several of its stadiums—including sound reinforcement systems. The 2,000-capacity Molodechno Ice

Palace—in the region of the Belarusian capital, Minsk—hosts major sporting and non-sporting events, and HK Audio’s Belarusian distributor, MuzProject, took control of the installation project.

Samnaun, Switzerland

SWISS SNOW HAPPENING

- About 1,000 visitors
- Product: ConTour Array
- Installation:
 - 6 x CTA 208s,
 - 4 x CT 118 Subs
 - driven by a DSM 2060 Controller,
 - VX 2400 power amplifier

The program at the 2013 Swiss Snow Happening featured a Nordic Cross race in the middle of Samnaun—which is 1,800m above sea level—with the race taking place on a specially prepared runway. Setting up the sound system in such conditions proved a considerable challenge, but, after a great idea from Frank Meyer Eventtechnologie—the Einbeck, Germany-based company in charge of the project—the ConTour array series was set up on a snowcat. The solution worked a treat, and the 1,000+ crowd who turned up for the event—and the DJs themselves—were all able to enjoy the experience to the full.



- Products:
Cohedra Compact,
Linear 5, ConTour
Series

- Installation:
12 x CDR 108 Cs,
4 x CDR 210 Cs,
8 x Linear 5 112 XAs as
stage monitors,
several ConTour series
CT 108s



Sochi, Russia

OLYMPIC WINTER GAMES, AFTER HOUR SHOW

For the VIP program at the 2014 Sochi Olympic Winter Games and the subsequent Paralympics, a special party zone with stage was erected. The sound system was provided by a St.

Petersburg-based customer of HK Audio, Imlight, who opted for a Cohedra Compact system, which delivered the corresponding VIP Sound for the ensuing parties.

Mogilev, Belarus

MINISTRY FOR THE ARTS AND CULTURE MOGILEV



- 1,500 seats in the concert hall and a mobile system for the Philharmonic

- Product: Cohedra

- Installation:
Concert Hall Culture Palace:
10 x CDR 208 Ts,
8 x CDR 208 Ss,
16 x CDR 210 Fs
(flown).

Driver: 2 x PR 16 power racks with FirNet and Lab.gruppen amplifier,
12 x CT 112s,
2 x CT 115s,
2 x CT 118 Subs

Mobile system
Philharmonic:
16 x CDR 208 Ts,
16 x CDR 208 Ss,
32 x CDR 210 Ss
(flown). Driver: 4 x PR16 power racks with FirNet and Lab.gruppen amps,
14 x CT 112s as monitors,
2 x ICON LTS systems

In summer 2013, the Culture Palace of Mogilev and the Philharmonic were on the search for new sound reinforcement systems. The demand was to ensure that the systems would

be suitable for both indoor and outdoor events. Ultimately, HK Audio's Belarusian distributor, IMTH, decided to plump for the Cohedra series in both cases, with spectacular results.

- Music Hall:
3,400 capacity
- Riverbend Music Center (open air pavilion):
6,000 capacity
- Product:
Cohedra Compact
- Installation:
16 x CDR 108s,
2 x CDR 210 Cs,
2 x PR 8 Power Racks
with FirNet Controller
and as a front fill 4 x
ConTour series CT 108s



Ohio, USA

CINCINNATI SYMPHONY & POPS ORCHESTRA

After an arduous and competitive testing process, the prestigious Cincinnati Symphony and Pops Orchestra invested in a large Cohedra system in 2010. One of the few classical orchestras with their own PA, the Orchestra now play exclusively through their Cohedra setup.

But in 2013, a new series of concerts—dubbed ‘Concerts in the Park’, and which takes place 6-8 times a year in various parks in the region around Cincinnati—required a more flexible solution, resulting in the Orchestra acquiring a Cohedra Compact system.

Leskovac, Serbia

CLUB ABC SAFIR



- 2,000 capacity
- Products:
Icon LTS, Linear 5
- Installation:
2 x complete Icon LTS Systems,
4 x Linear 5 115 FAs,
4 x L Sub 2000 As,
3 x Linear 5 112 XAs

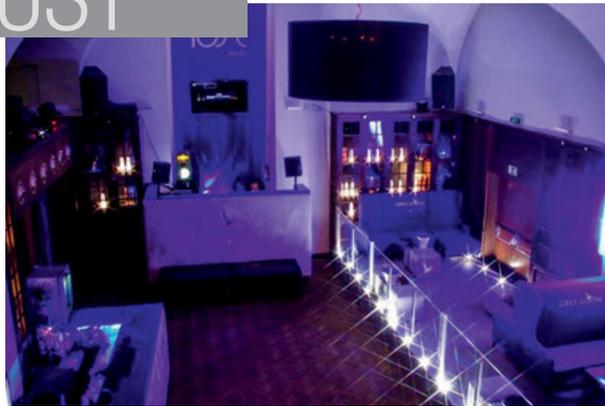
The ABC Safir Club in Leskovac is one of the hottest live music venues in Serbia, so when it was time for the 2,000 capacity club to upgrade its extensive sound system, it turned straight to HK Audio’s Serbian distribution partner, Audio Pro Artist. “The reputation of HK Audio

as a German brand that stands for reliability, modernity and the latest technology convinced the owner and that was confirmed after the product installation in the club,” said Audio Pro Artist’s Aleksander Djapic Braca.

Lisbon, Portugal

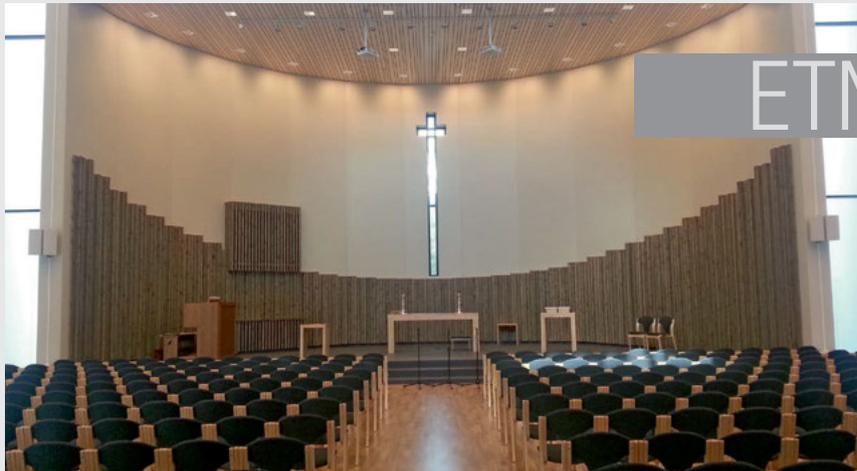
CLUB LUST

- Products:
Installation Line, Lucas
- Installation:
4 x IL 8.1s (black),
4 x IL 15.2s (black),
4 x IL 218 Subs (black),
7 x IL 60 TWs (white),
4 x IL 82s (black),
driven by 3 x VX 2400
amplifiers, additional
Lucas Performer



Set in the heart of Lisbon, the premises of the private Club Lust—located in a beautiful old building that is listed for preservation—are rented out for parties, discos and exclusive live concerts. The Portuguese HK Audio distributor, Alrica, which was responsible for the installation of Club Lust’s sound system, took the decision to use the tried and tested Installation Line series. “We had to consider the architectural characteristics of the listed building, especially the fact that there were no structural changes

allowed,” said Alrica’s Nuno Conde. “Since the Installation Line series speakers are all available in black and white, we were able to meet the requirements of the client.” In addition to the main IL system, the Club Lust DJ also has a Lucas Performer at his or her disposal. This compact setup—which on its own has more than enough juice to fill a whole club with music—can be set up and dismantled within minutes if necessary, and hooked up to the IL system.



Etne, Haugesund, Norway

ETNE KYRKJE

When the 330-capacity Etne Kyrkje church (near Haugesund in southwestern Norway) was in need of a new interior design and a corresponding audio system, the focus was placed on a modern look, with the sound system to be integrated as inconspicuously as possible. To fulfill this request, the Norwegian HK Audio distributor—Luthman Norway AS—found the perfect solution: Vortis. Pro audio specialist

Håkon Øgreid reports: “The new speakers could not disturb the building’s overall look, therefore a special color scheme was required.” Notable advantages of the Vortis series—in addition to its discreet design—are the opaque, fabric-covered front grille, the customized color options (customers can choose from any RAL color) and the selection of specially developed mounting accessories.

- Up to 330 visitors
- Products: Vortis,
Cohedra Compact
- Installation:
4 x Vortis VR10810s
(two per side—RAL
color 7047) in the nave
of the church
2 x similar colored
Cohedra Compact
CDR 210 Cs on the
floor, as well as
2 x VR10810s (RAL
color 9001)

Kuala Lumpur, Malaysia

NEXUS VENUE



- Total area:
4,000 square meters,
3,000 seats in the
auditorium
- Products:
Elements, Linear 5
- Installation:
30 x Elements E 435s,
4 x L Sub 2000 As,
an Elements Big Base
System, Lucas Smart,
Pulsar

Linear 5 and Elements were chosen as the flagship sound systems for the new Nexus events complex at the trendy Bangsar South shopping district in Kuala Lumpur. Nexus is a modern, urban institution that combines shops

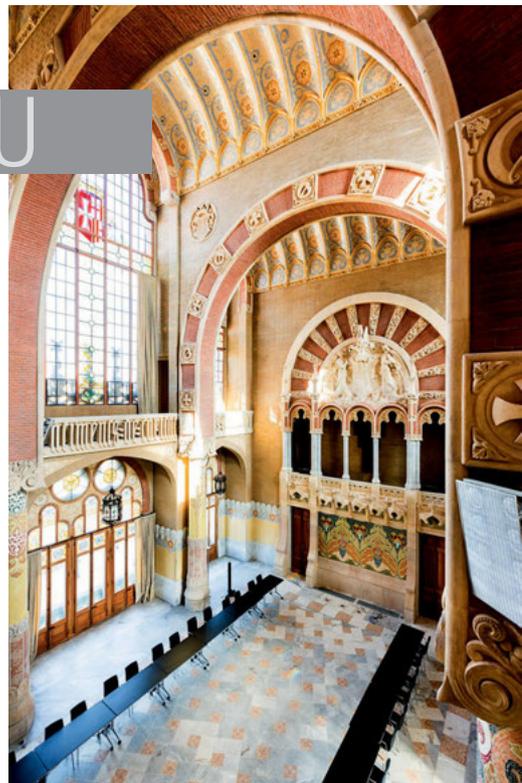
and a variety of activities under one roof. The four-floor building hosts various events, from conferences and weddings to cocktail receptions, dinner evenings and seminars.

Barcelona, Spain

HOSPITAL DE SANT PAU

Barcelona's historical Hospital de Sant Pau was declared a UNESCO World Heritage Site in 1997. Today, the complex houses the Catalan national library and meeting and cultural centers, and Elements' diminutive footprint, flexibility and crystal-clear sound reinforcement fit the bill perfectly. "Elements' high sound quality and the fact that the system is so easy to transport fully convinced Vitelsa, the company responsible for the installation," says Marc Rovira of Spanish HK Audio distributors Adagio. "On the basis of preservation, a permanent installation was not possible—and so Elements was the perfect solution."

- Hospital complex
with 48 fully restored
buildings. Domenèch
i Montaner room 170
square meters, 40-200
capacity
- Product: Elements
- Installation:
4 x E 435s,
2 x Elements
EF 45 base units



Paris, France

CENTRE COMMERCIALE BEAUGRENELLE

- 45,000 square meters across four floors
- Product: Elements
- mobile installation for the opening ceremony:
in total
48 x E 435s,
E 835s,
E 110 Sub As



The Beaugrenelle shopping center opened in Paris in 2014, covering a total area of 45,000 square meters across four floors. To provide the ideal sound for the prestigious opening ceremony, the rental company BS Technology opted for the clear power of Elements.

Seoul, South Korea

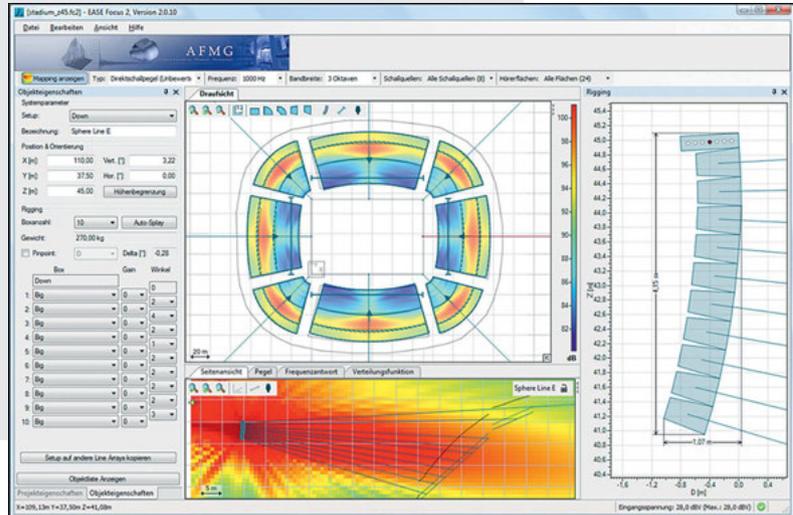
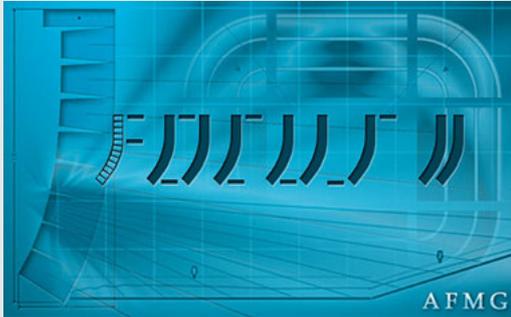
YOOKYOUNG FOUNDATION



The Yookyong Foundation, a charity foundation in Seoul, consists of a concert hall, exhibition halls, a theatre, a wedding hall, an amusement park and even a ski slope. Since the foundation regularly holds all kinds of events on its premises, KSV Corporation—a partner

of South Korean HK Audio distributor Sama Sound—was commissioned to install a new sound system. After a tough selection process supervised by Sama Sound's Technology Lab, HK Audio's Cadis system was found to be the optimum solution.

- 700 visitors
- Product: Cadis
- Installation:
8 x CAD 208s,
4 x CAD 115 Subs,
2 x Cadis stacking frames,
2 x Cadis connector frames.
4 x Cadis Sub connector sets provided the installation's stability.
4 x Linear 5 112 Xs as monitor speakers, driven by a FirNet Controller



EASE Focus 2

EASE Focus 2 GLL data is available for HK Audio's Elements, ConTour Array, Cadis, Cohedra, Cohedra Compact and Linear 5 series. EASE Focus 2* is a three-dimensional acoustic simulation software for the configuration and modelling of line array systems, digitally steered columns and conventional loudspeakers. The software allows users to calculate levels, time and frequency responses for one or more systems simultaneously, giving them the possibility to plan out the best possible system configurations for every need and venue ahead of time. All plans can also be exported as PDFs. Free for the end user, EASE Focus 2—along with all the dedicated HK Audio GLL data—can be downloaded from the relevant product and support pages on the HK Audio website. For new users, an EASE Focus 2 tutorial video is available, which provides a simple walkthrough of the software's basic functions. The tutorial can be downloaded direct from the HK Audio website.

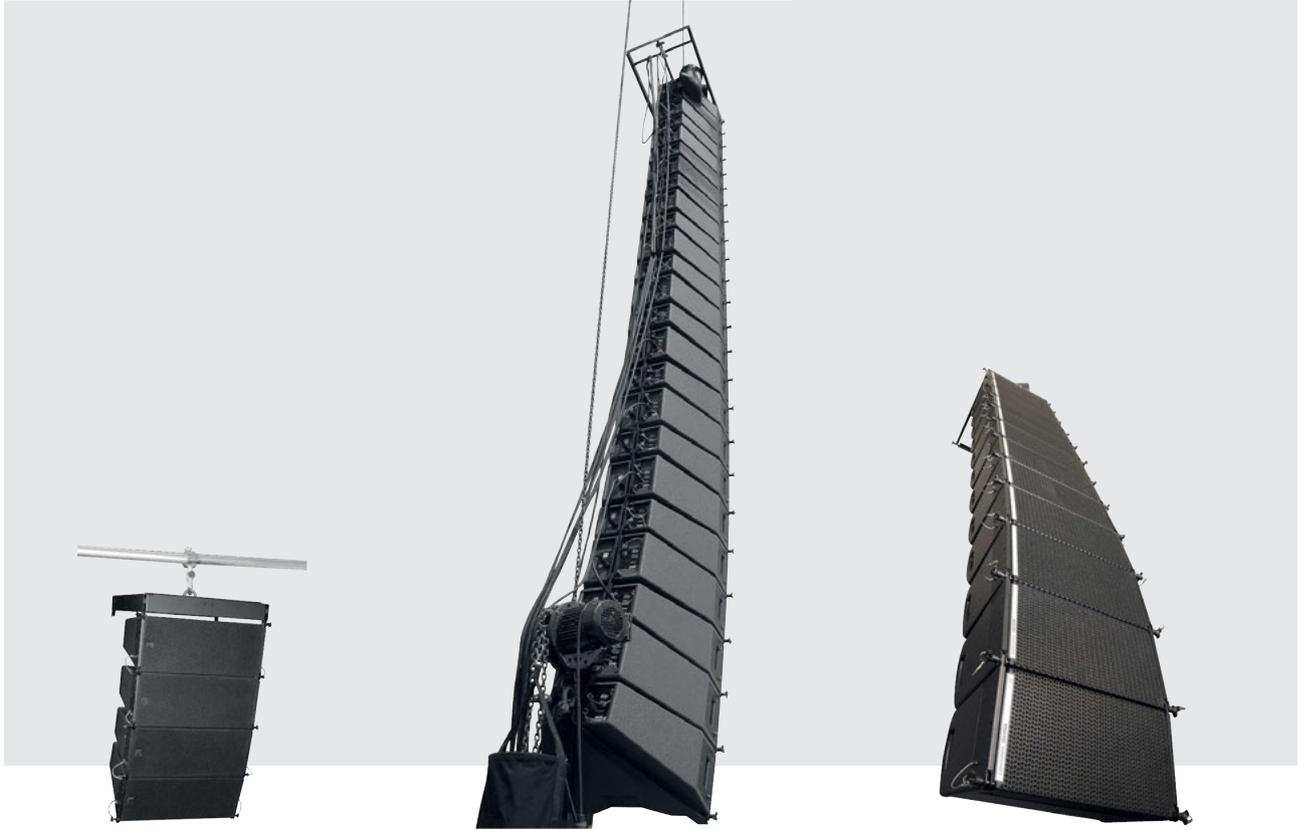
* EASE Focus is developed and distributed by Ahnert Feistel Media Group (AFMG), Berlin.



Scan this QR code to download the EASE files from hkaudio.com

ACOUSTIC 3D
SIMULATION
SOFTWARE

PRODUCT PORTFOLIO INSTALLATIONS



Cadis

The Compact Adaptive Installation System, as it is called by its full name, is known for its extraordinary flexibility and impressive audio performance. Cadis easily scales to fit every project and budget, and there is a wide range of mounting accessories available. The housing's IP 44 classification also makes Cadis an excellent choice for outdoor applications. Its versatility is a boon to planners, as the same system can cover every line array application, from local theaters to national stadiums. For Cadis, we offer filter sets for the DSM2060 Controller, the FirNet Controller and the new Lab.gruppen IPD 2400 and IPD 1200 Controller Amps, allowing users to control their systems in a highly efficient way and without the need for an additional system tech.

Cohedra

A line array with plenty of coverage for up to 20,000 spectators, the uninitiated would say Cohedra is certainly a big rig. But it is, in fact, far more compact and lighter than comparable systems: a single one-ton motor hoist is all it takes to fly a 24-unit Cohedra array. Cohedra may be operated with and without flown subs (CDR 210 Fs), although the sonic image from a line source with CDR 210 F units will be fuller. Both Cohedra and Cohedra Compact feature the same contingent of advanced Acoustic Lens, real CD horns and compression chambers for midrange speakers. Cohedra is powered by our new PR 8 and PR 16 power racks (with FirNet Controllers), the high-power CPQ 10 Amp and the new Patchbay PB-6.

Cohedra Compact

Industry events, club gigs and smallish open-air rock concerts—Cohedra Compact lets you roll out line arrays in venues that in the past have been the domain of conventional PAs. This rig provides plenty of oomph to keep up to 3,000 listeners entertained. And the versatility and utility that comes courtesy of the compact dimensions, light weight and easy stacking is nothing short of amazing. Cohedra Compact is powered by our new PR 8 (up to 16 x CDR 208 Cs) and PR 16 (up to 32 x CDR 208 Cs) power racks (with FirNet Controllers), the high-power CPQ 10 Amp and the new Patchbay PB-6.



Elements

Elements is the first system to combine the benefits of modern line-array technology with the convenience of ultra-compact portable PAs. Discerning musicians, rental companies, DJs, installers and presenters at corporate events are sure to love this system's look of understated elegance, not to mention its stellar performance. The columnar mid/high units deliver luscious sound with remarkable speech intelligibility all the way to the back row. And the active subwoofers provide plenty of low-end with more than enough juice left to power the mid/high units and subwoofer extensions. Thanks to their lightweight design, setting up is an exercise in convenience.



Elements Install Kit

Permanent installation using the flexible and versatile Install Kit range allows you to benefit from all the advantages of Elements 24/7. Designed to be easy to install and inconspicuous once in position, Elements Install Kits allow you to combine up to six mid/high units (including wall-mount kit). The Install Kits are available in black and white as standard, can be custom painted in the RAL color of your choice for an extra charge, and are operable as self-powered units or passive in conjunction with the new IPD 1200 and IPD 2400s from Lab.gruppen.



Installation Line

With seven full range speakers and four subwoofers, the HK Audio Installation Line forms the basis for indoor installations from smaller background sound reinforcements to use in clubs or theaters. The series is completed by three ceiling speakers and two mount speakers with 100 V PA technology, which are typically deployed in public buildings (airports, hospitals, hotels, etc.). For the Installation Line, we offer filter sets for the DSM2060 Controller and the new Lab.gruppen IPD 2400 and IPD 1200 Controller Amps, allowing users to control their systems in a highly efficient way and without the need for an additional system tech.



Vortis

The Vortis series comprises six speaker models which are used if outstanding directivity, excellent intelligibility and maximum versatility are required. All Vortis models are available with three choices of rotatable horns, allowing a precise adaptation to any local specific acoustic conditions. The appearance of the Vortis series is elegantly restrained, making it ideal for integrating into the architecture of modern and classic buildings. Vortis models are also optionally available in weatherproof outdoor versions—which are certified ball-impact proof, making them perfect for use in stadiums and sports halls. All Vortis speaker models and accessories are also available in any desired RAL color at extra charge. For Vortis, we offer filter sets for the DSM2060 Controller, the FirNet Controller and the new Lab.gruppen IPD 2400 and IPD 1200 Controller Amps, allowing users to control their systems in a highly efficient way and without the need for an additional system tech.

SUPPORT

Speaker cabinets, accessories and electronics themselves are only a part of our 'Made in Germany' philosophy. For us, product support is just as important. To that end, it is with great pleasure that we support you with the following data when it comes to our installation products:

- Fact sheets
- Measurements
- Manuals, including test certifications
- CAD data
- Data for acoustic simulations, such as EASE Focus
- Product pictures

Our team of marketing and sales specialists, product managers and application support engineers are here to advise and support you in the planning of your project, and we will be delighted to help you prepare offers.

CONTACT

As the system designer who crafts the plans or the installer who carries out the design, you're well aware that every project stands or falls with the coordinated effort of everyone involved.

And if that's you, then HK Audio is your partner of choice for audio technology.

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