









Release January 2024

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	P. 74
Corporate	76
Educational	88

When it comes to audio-visual integration, applications across education, corporate, and government settings often share common requirements. These include video conferencing systems, sound reinforcement for lectures and presentations, as well as digital signage for effective communication. We recognize that while these sectors may present distinct challenges, they also accumulate a set of common issues.

In this guide, we explore common challenges and unveil the innovative solutions provided by K-array. K-array adopts a unique approach, strengthened by seamless collaboration with distinct brands including KSCAPE, which integrates light and sound into a single product for architectural lighting installations. KGEAR extends K-array's catalogue of unique and cutting-edge solutions with smarter, more traditional options. While maintaining K-array's high audio quality standards, KGEAR offers system solutions that are particularly valuable when budget considerations are paramount.

These synergies equip integrators with comprehensive tools to effectively address challenges. Our goal is to elevate the audio-visual experience across diverse sectors, turning obstacles into opportunities for seamless communication and collaboration. Intoday's global business environment, the nature of work extends beyond traditional office settings, encompassing a wide range of communication needs. Companies with international clients have long navigated the complexities of long-distance communication, necessitating sophisticated and reliable systems. This ongoing requirement, combined with the recent shift towards more flexible remote and home-based work models, has led to a greater emphasis on dynamic and advanced communication technologies.

Investing in high-quality audio solutions is crucial for these evolving workspaces. Whether it's for seamless collaboration across continents or ensuring clarity in bustling open-plan offices, the right audio infrastructure empowers businesses to operate efficiently and effectively in a globally connected world.



OUR UNIQUE SOLUTIONS



K-array has the advantage of presenting complete and intelligent solutions in a variety of products, from microphones to amplifiers, to audio matrix, line-array speakers, and subwoofers – all of which guarantee high sound quality with a high-rated design.

K-array also ensures ease of control through a complete suite of software and apps like the brand new K-Control. The K-control app for smartphones is newly designed and features a customizable dashboard, allowing installers to tailor it for individual clients, ensuring a user-friendly experience for each specific project.

THE COMMON PROBLEM OF INTELLIGIBILITY

Conference rooms and auditoriums - common places in this field of applications - usually need a sound reinforcement that is focused on vocal reproduction and intelligibility. It has to assure smooth and uniform coverage from the front seats to the back

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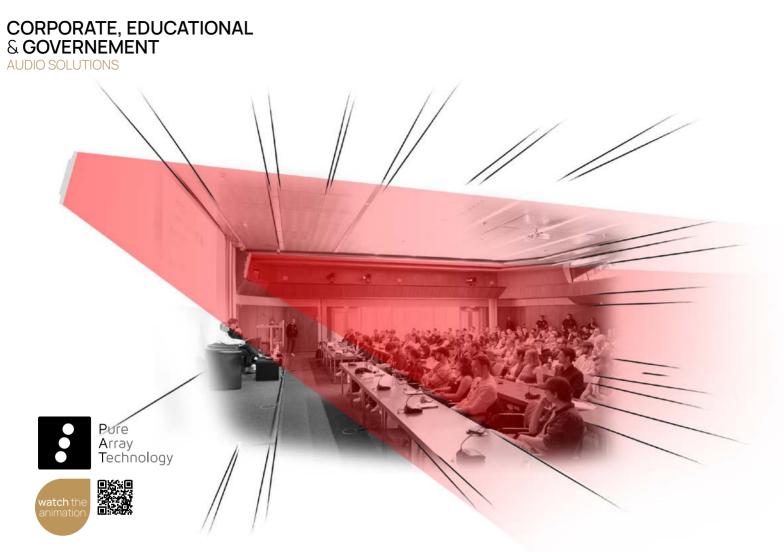
OUR UNIQUE SOLUTIONS

Today, workplaces are increasingly integrating different technologies to create smart offices with multi-purpose open spaces and advanced conference and meeting rooms. This allows not only for remote connectivity but also to make in-office work more productive, sustainable, and intelligent. These spaces are designed to enhance collaboration and communication, and often include intelligent audio systems that work in conjunction with video.

It is important to meet these demands with scalable dedicated systems that are easy to use and can be seamlessly mounted and installed. Those systems have to guarantee remote access in order to share connectivity and incorporate audio over IP for full accessibility and simultaneously provide monitoring for different areas.

EDUCATION Inclusive learning: the power of clear audio in multicultural environments

Intelligibility of spoken words and lectures in an educational environment is key to communication where different cultures and languages meet. Everybody has the right to learn and to participate in a comfortable and accessible way.



SOLUTIONS BY K-ARRAY

K-array columns featuring PAT (Pure Array Technology) can assure a balanced and clear listening experience even in a big and reflective space. Line array columns are the best speakers to use when another problem occurs in an auditorium or any large reflective room: fastidious feedback caused by using a large number of fixed microphones, often very near to the amplification system. Installing PAT K-array columns makes it easy to control the emission and directivity over point source speakers.

Our speakers, incorporating Slim Array Technology, allow integrators to build lines of desirable length that can reach long distances with the right reproduction of the entire frequency range.

In the field of sound reinforcement for auditoriums and large reverberant spaces, the renowned K-array EBS electronic beam steering technology consistently proves to be the best solution.

This technology allows for the electronic orientation of the line array beam, ensuring effective coverage even for the farthest rows. EBS is now implemented also in the KY series, making it even more versatile and practical in the column-format, especially in situations where minimal visual impact is essential.

The ability to electronically steer the beam through selectable FIR filters for each desired frequency, thanks to our new Kommander-KA18-EBS ensures more accurate and controlled dispersion, guaranteeing greater sound intelligibility.



SOLUTIONS

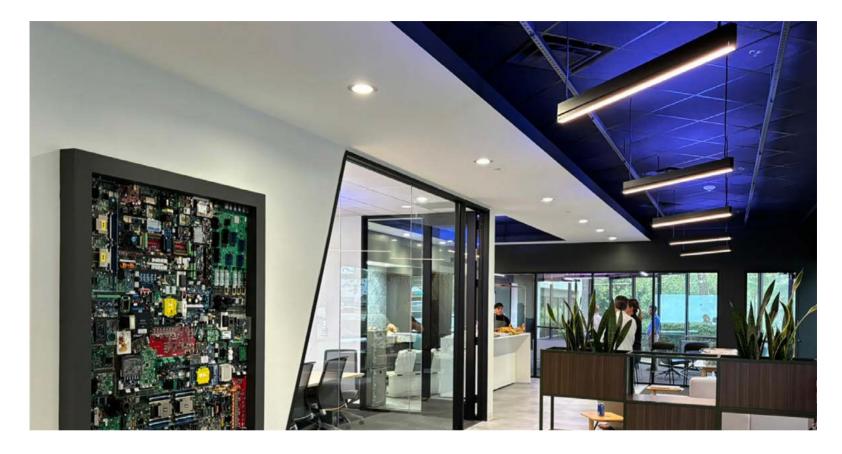
Thanks to our ingeniously miniaturised design and a seamlessly discreet approach, we can furnish each listening position with a dedicated line array speaker with PAT as monitoring system.

This presents a distinctive and intelligent solution, perfectly suited for auditoriums crafted to host expansive audiences. With the integration of our Lizard-KZ14, effortlessly spanning every corner of the room, we create an exceptional delay system with meticulous definition and accurate reproduction of the complete vocal range.



NOT RECESSED

RECESSED



PRIORITIZING WELL-BEING AND SUSTAINABILITY IN THE WORKPLACE KSCAPE INNOVATION

Establishing a holistic work environment that places wellbeing at the forefront is of paramount importance. This plays a huge part in empowering employees to unlock their full potential. This goes beyond the mere development of skills and competencies, encompassing the creation of a workplace in support of health and sustainability. Thoughtful attention to proper lighting and acoustics, whether in building design or sound reinforcement, significantly contributes to creating a sustainable environment for both physical and mental well-being, particularly in terms of fostering concentration.

Placing a central focus on the well-being of individuals is key to a company that can truly thrive. Let's explore how the K-array and KSCAPE catalogue can significantly help any company in this dedication.

SOUND MASKING AS THE KEY TO ACOUSTIC COMFORT

In this diverse synergistic setting and team oriented atmosphere, where employees share open spaces to stimulate collaboration and participation in common projects, a significant challenge arises: how to maintain a balance between dynamic interaction and the need for individual concentration? While the open space layout fosters communication and idea-sharing, it can also generate levels of noise and distractions that test concentration on individual projects. This is where sound masking proves to be a fundamentalally. This intelligent practice, thanks to the controlled generation and diffusion of white noise or calming sounds, not only reduces ambient noise levels but also creates a kind of "acoustic shielded environment" for employees engaged in tasks that require maximum concentration. In this way, sound masking acts as a key element in maintaining the balance between the need to collaborate and the need to work with focused concentration on individual projects.

CHAME

ENCYCL

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CHAN

ENCYC

NEW

NEWNE

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ENCY

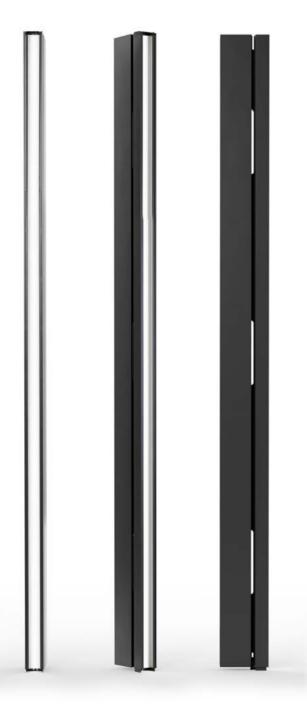
CH1

SOLUTIONS BY **K-ARRAY**

A key strategy for maintaining focus and concentration while listening to music or sounds is to eliminate the visibility of the sound source.

With the possibility of installing discreet speakers capable of delivering consistent and uniform sound coverage, K-array leverages its extensive expertise in blending sophisticated design with advanced technology.

The result is solutions that seamlessly integrate, approaching invisibility. The synergy between this design approach and the concept of sound masking creates an optimised acoustic environment.



HIGH

LED

PERFORMANCE

PERFECT

QUALITY

AUDIO

BY **KSCAPE** KSCAPE solutions int

SOLUTIONS

KSCAPE solutions integrate light and sound into an allin- one, high-quality architectural product.

The KSCAPE line allows companies to create sophisticated and functional environments that meet their unique needs.

RAILS UNIQUE INTEGRATION FOR A HEALTHY AND FUNCTIONAL WORK ENVIRONMENT

RAIL incorporates the feature of controlled Unified Glare Rating (UGR) with customizable light temperatures and a choice between direct or indirect optics, ensuring a healthy and safe illumination that enhances focus and aligns with natural light. The integration of sound and light into a single solution offers the advantage of creating a harmonious and uniform environment that enhances concentration.

The ability to play background music or generated sounds for sound masking directly from the light source also creates a calming soundscape, eliminating the need for additional speakers. The combination of ease of control and connectivity helps reduce stress and increase focus.

K-array and KSCAPE offers an intelligent solution that saves on cost when compared with using different sources for sound and light, including ceiling speakers, which are sometimes difficult to match with the decor of modern offices. The high energy efficiency of RAIL also contributes to keeping costs down.



Intelligibility in Government Structures

Ensuring audio clarity in government structures is a complex challenge. Clear audio is fundamental to foster collaboration, ensure transparency, make information accessible, and to maintain the attention of the public. When it comes to designing dedicated audio systems for government facilities, highly connected systems that can be controlled remotely are essential to ensure clarity. The effective distribution of information is guaranteed through live video conferencing systems, streaming, broadcasts, television, and social media. All these requirements must be considered when designing a suitable sound reinforcement system.

COST-EFFECTIVE WIRELESS AND REMOTELY CONTROLLED CONFERENCING SYSTEMS ENSURE PRESERVATION OF INSTITUTIONAL VENUES

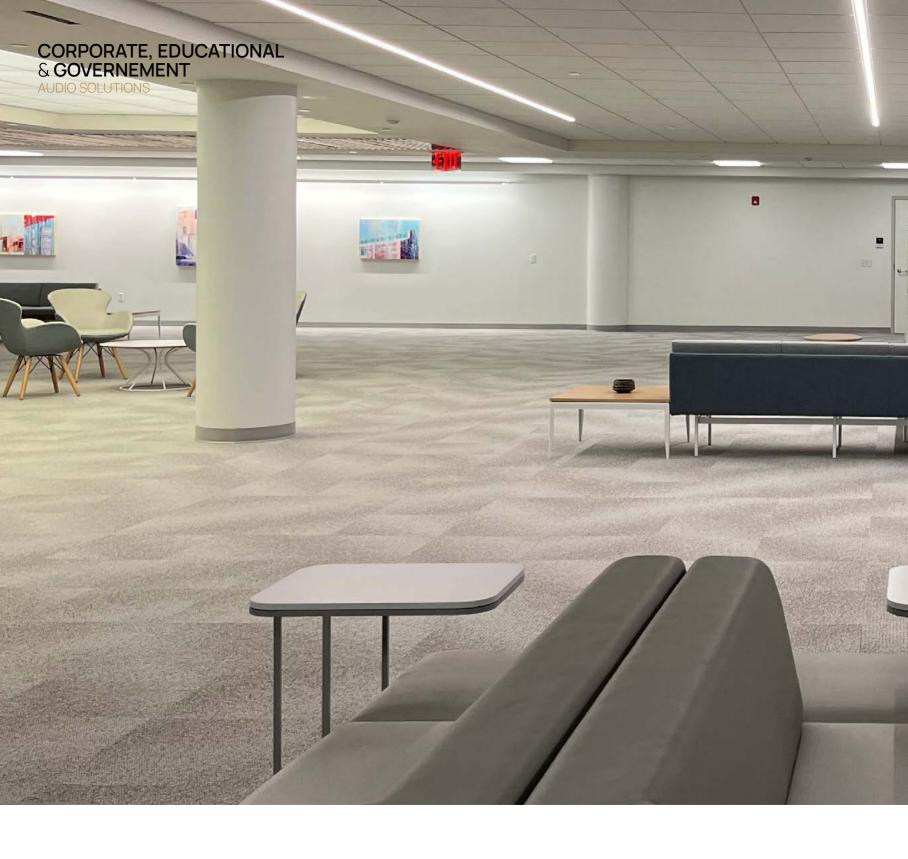
Government structures are often ancient institutions that preserve and facilitate democratic work while symbolising governmental power. The spaces dedicated to council and government sessions are situated in historic and culturally valuable buildings. However, the installation of wiring for a distributed audio system in these settings could prove inefficient and potentially damage the architecture.

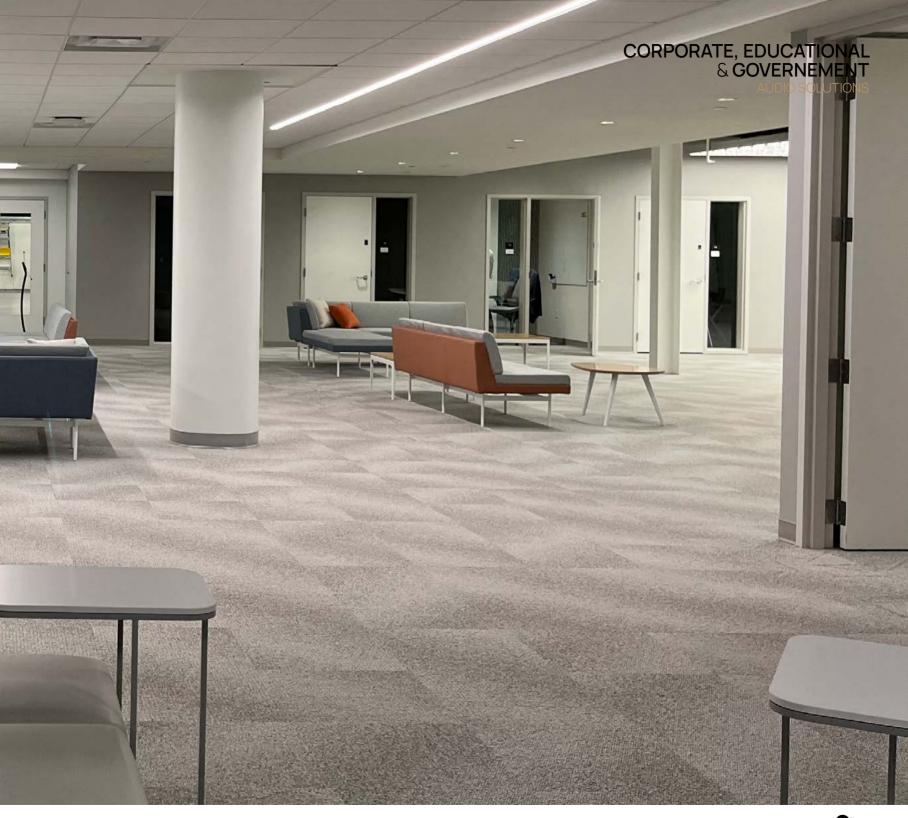
A seamlessly deployable and controllable audio system that ensures intelligibility and consistent listening experiences proves not only cost-effective but also paramount for government institutions mandated to account for their budgets. Such a solution gives these institutions reliability, efficiency, and transparency. K-array presents a variety of line-array microphones in a vertical and horizontal setup that minimise feedback and maintain a constant gain with distance. Our line-array microphones as Capture-KMC20H - Capture-KMC20V which also feature PAT – are extremely useful when combined with line-array speakers to have an accurate image of speech and vocals achieving intelligibility in a large and distant field.

Let's explore how K-array addresses the challenge of crafting reliable audio solutions for these specific requirements. Our systems are incredibly flexible without being intrusive. In the case of institutional venues, audio must be functional and able to carry out different tasks. K-array ensures both with the plus of a smart and synthetic style that can fit in institutional venues. With K-array, audio is a mark of institutional reliability and operability.

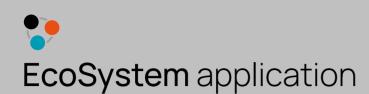
CLEAR COMMUNICATION IN BUSY VENUES (EN54-COMPLIANCE)

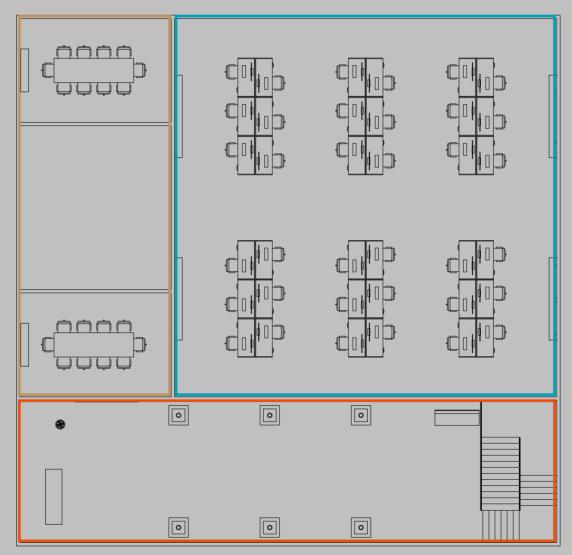
At K-array, we understand the critical importance of clear communication in emergency situations in offices or public spaces, especially in densely populated areas like city centres and residential zones. Our product range is designed with precision and reliability, making K-array an exceptional choice for public address systems during emergencies. Our commitment to safety is evident through our compliance with EN54 standards, ensuring that our audio solutions not only meet but exceed the necessary requirements for fire detection and alarm systems. Trust K-array for unparalleled clarity in communicating meeting points and directions, providing an optimal solution for emergency scenarios in urban and residential settings.

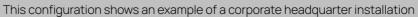


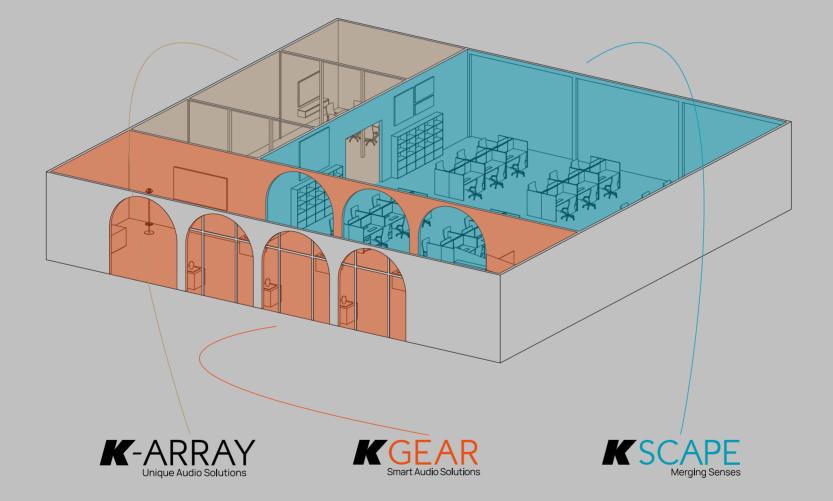


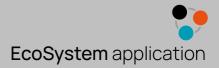














Corporate

P. **24**

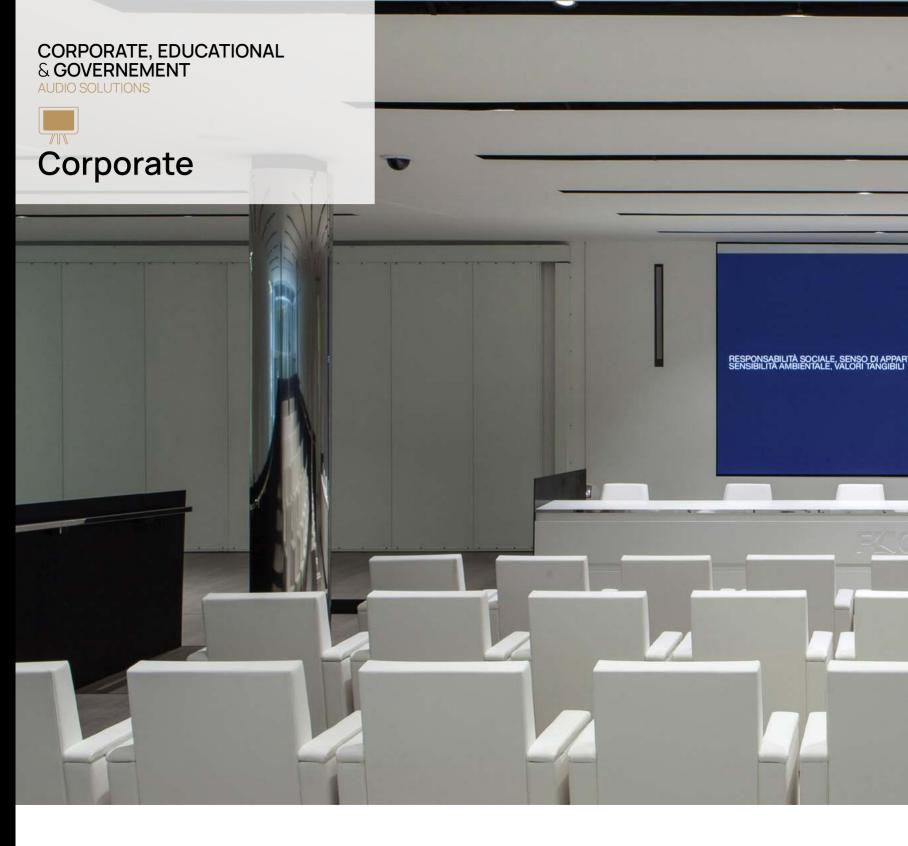
Educational

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Government

44





MEETING SPACES

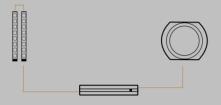


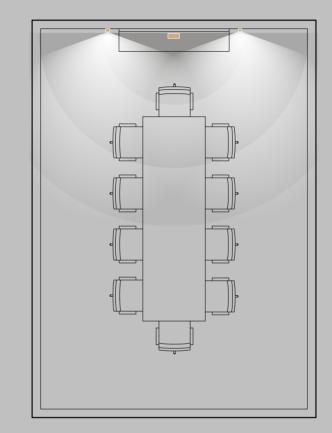






Configuration Intelligibility



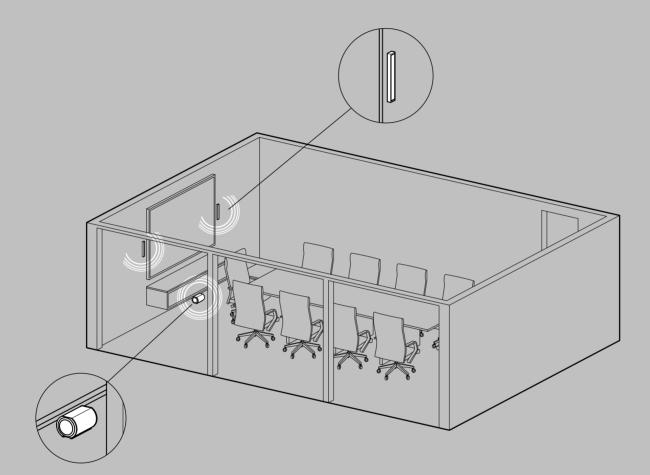




Azimut-KAMUT2V25 II

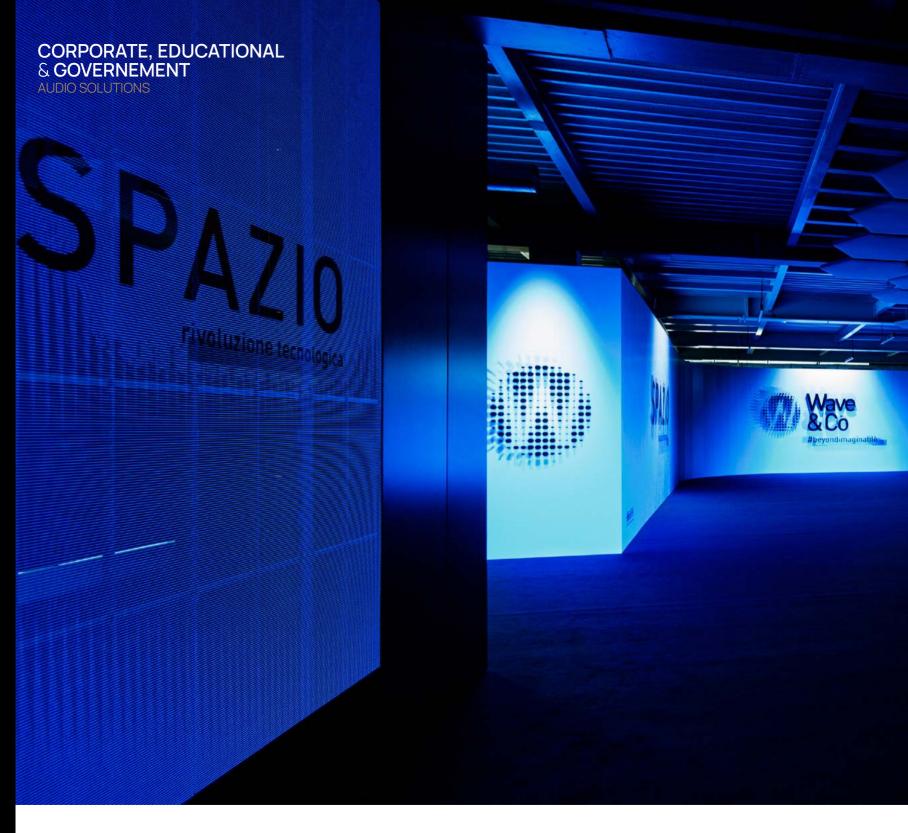






Configuration Intelligibility	Audio Use
System	Accessories
1x Azimut-KAMUT2V25 II (2x Vyper-KV25 + 1xTruffle-KTR26 I + 1x Kommander-KA02 I)	1





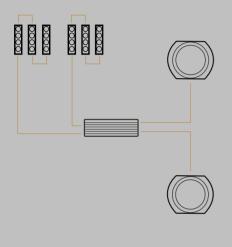
LOBBY & SHOWROOM

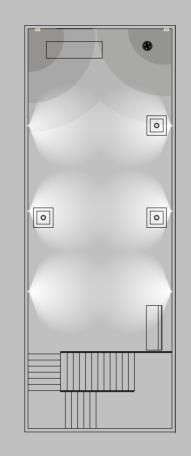




Corporate LOBBY & SHOWROOM

Background Music







Lyzard-KZ14 I

Speaker 22 x 100 x 11 mm 0.059



Truffle-KTR25

Subwoofer

2.5 kg

152 x 147 x 258 mm



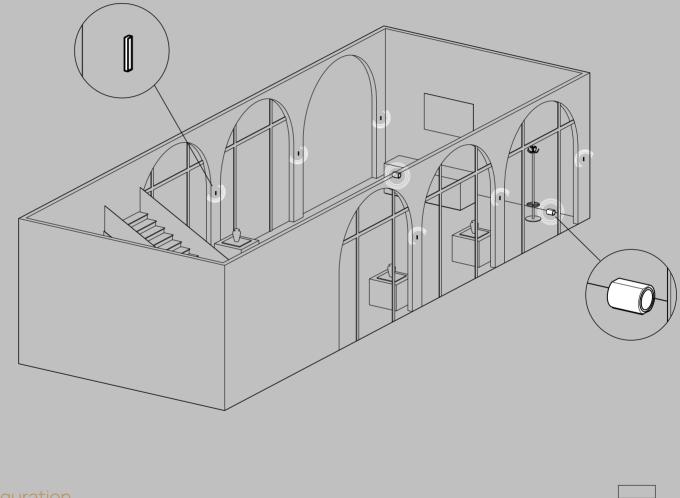
0,7 kg

Kommander-KA02 I



30





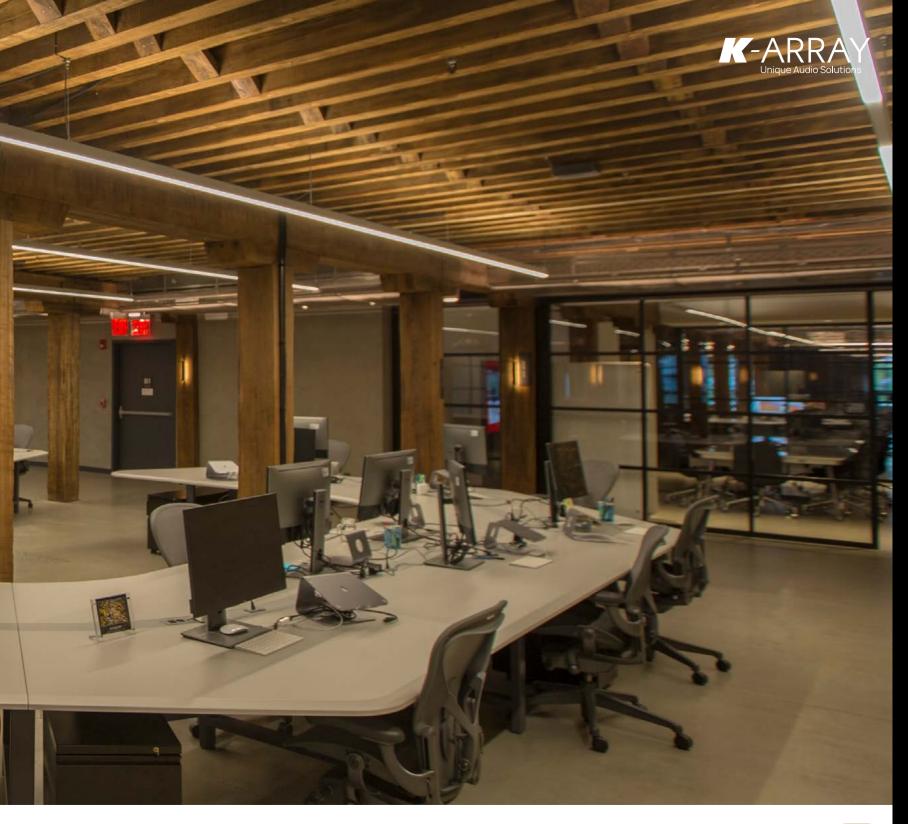
 Configuration
 Music Use

 Background Music
 Music Use

 Speakers
 Subwoofers
 Amplifiers
 Accessories

 6x Lyzard-KZ14 I
 2x Truffle-KTR25
 1x Kommander-KA02 I
 /

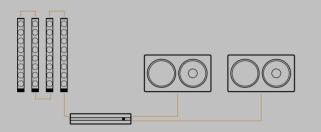


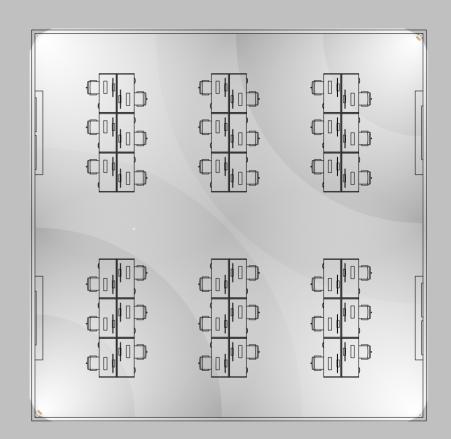


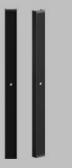


Corporate **OPEN SPACE OFFICE**

Background Music







Vyper-KV52 II

Speaker 40 x 1000 x 22 mm 1,8 kg



Rumble-KU26

11 kg



Kommander-KA14 I

6 kg

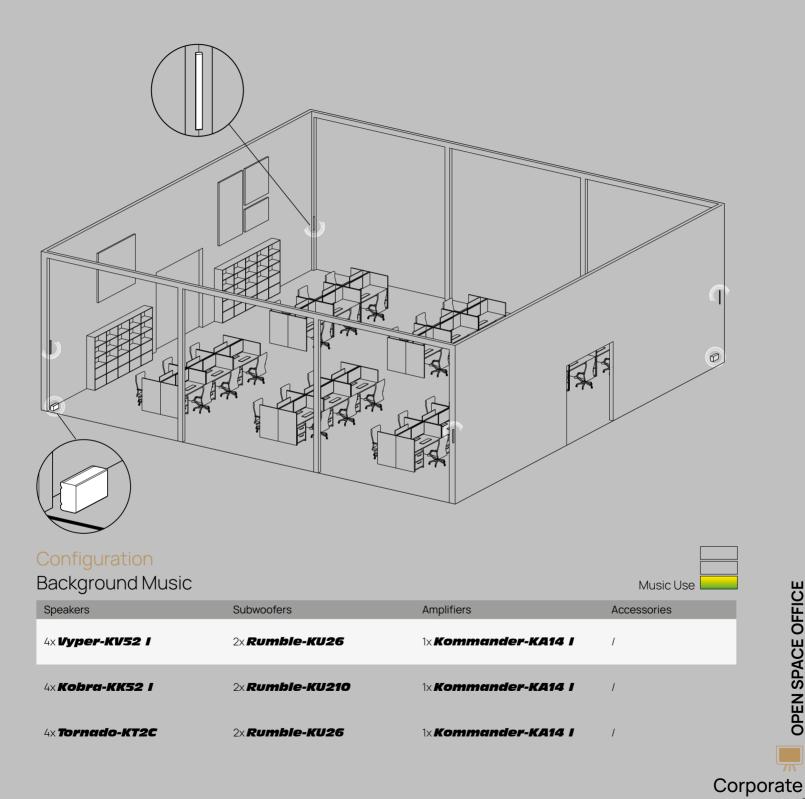
Amplifier 430 x 87 x 430 mm

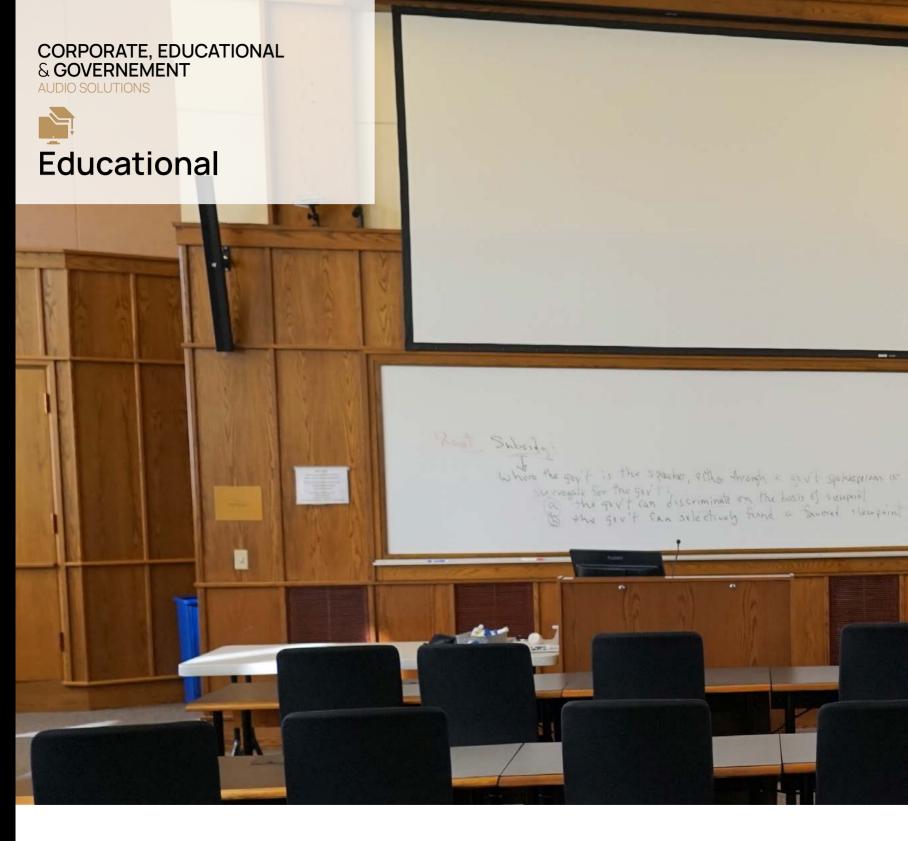




34







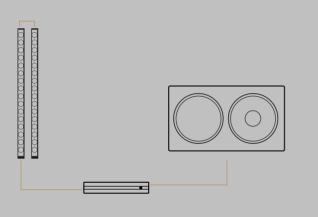


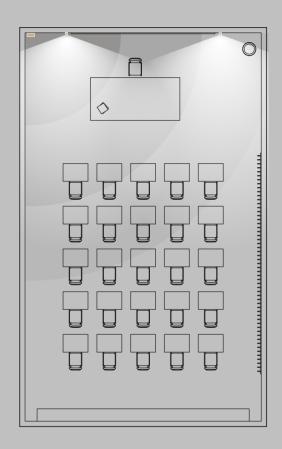


 $\begin{array}{l} \textbf{CORPORATE, EDUCATIONAL}\\ \& \textbf{GOVERNEMENT} \end{array}$



Intelligibility







Vyper-KV102 II

Speaker 40 x 1000 x 22 mm 1,8 kg







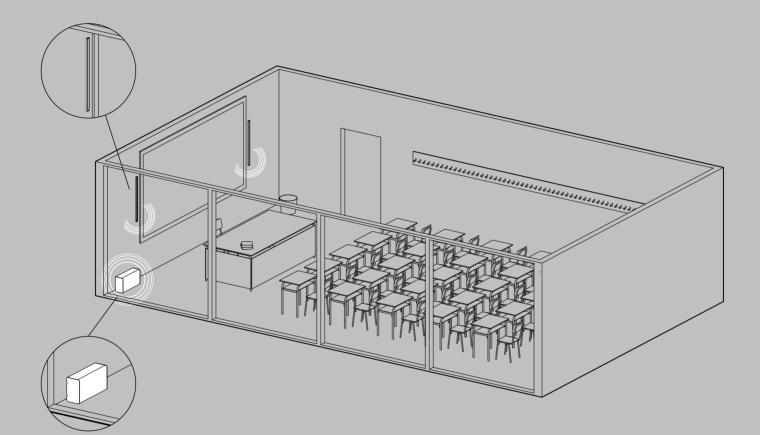
Kommander-KA14 I













CLASSROOM



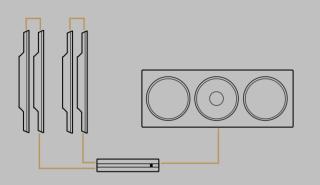


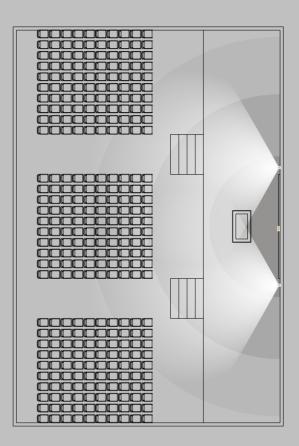


CORPORATE, EDUCATIONAL & GOVERNEMENT



Intelligibility

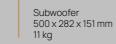








Speaker 40 x 1000 x 22 mm 1,8 kg





Rumble-KU315

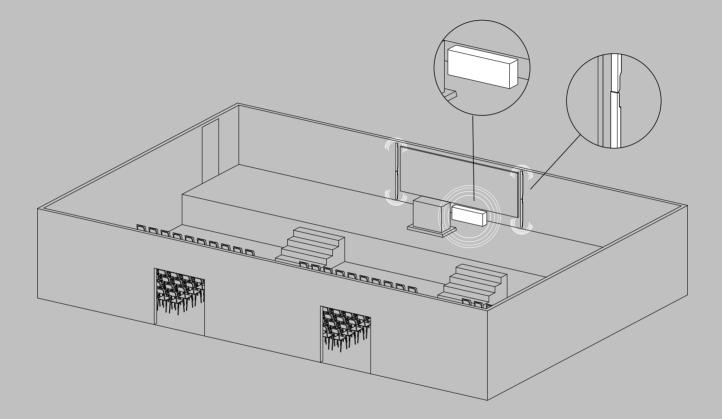


Kommander-KA34

Amplifier 430 x 87 x 430 mm 6 kg







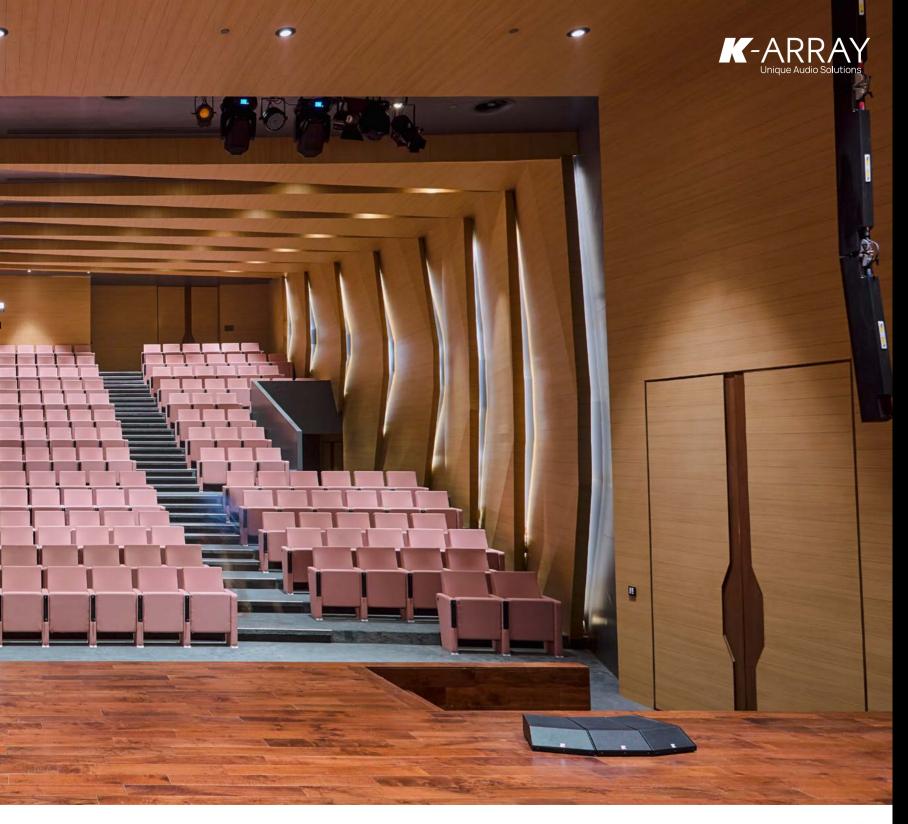
Configuration Intelligibility			Audio Use
Speakers	Subwoofers	Amplifiers	Accessories
2×Kobra-KK102 I	1x Rumble-KU315	1x Kommander-KA34 I	1

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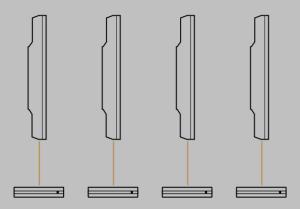


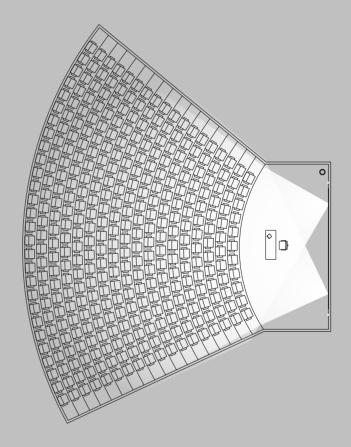


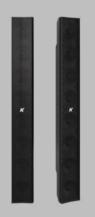




Configuration Intelligibility







Kayman-KY102-EBS

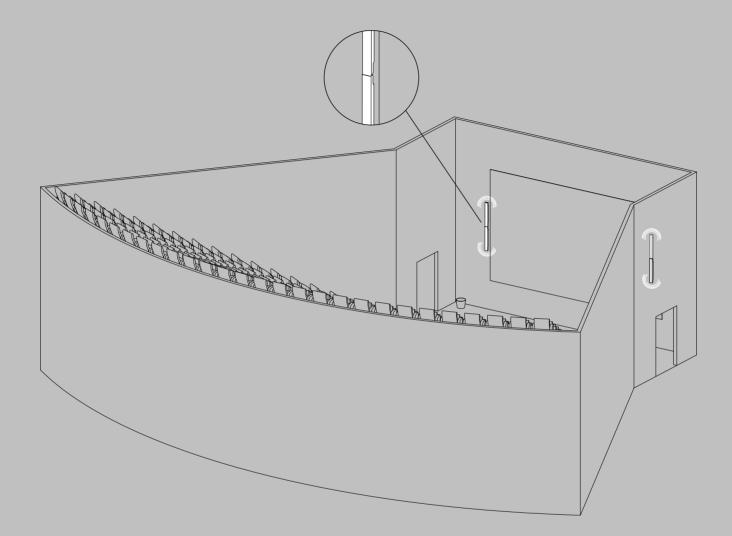
Speaker 40 x 1000 x 22 mm 1,8 kg





Kommander-KA18-EBS



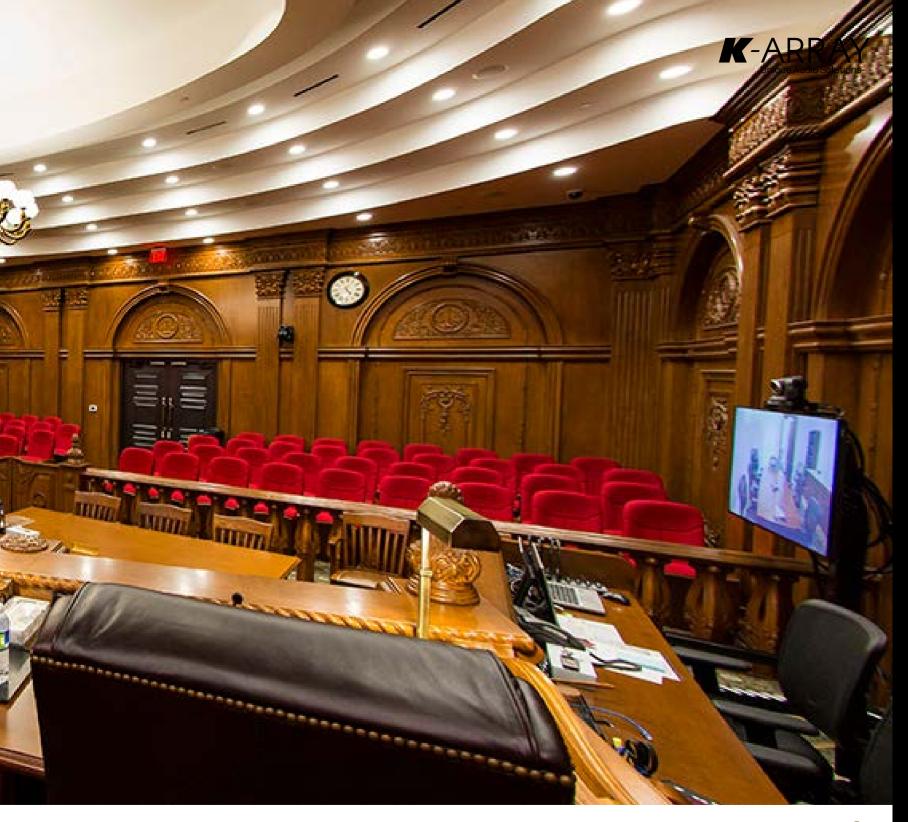


Configuration Intelligibility Speakers	Subwoofers	Amplifiers	Audio Use
4× Kayman-KY102-EBS	1	4x Kommander-K	

Educational



COURTS & TRIBUNALS

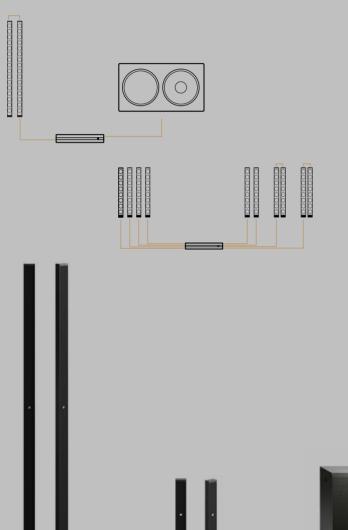


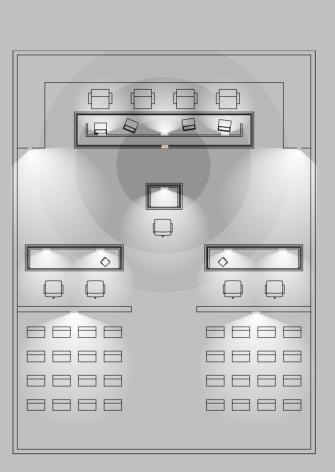


CORPORATE, EDUCATIONAL & GOVERNEMENT

矗 Government **COURTS & TRIBUNALS**

Intelligibility





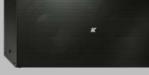


Vyper-KV102 II

Speaker 40 x 1000 x 22 mm 1,8 kg



Vyper-KV25 II



Rumble-KU212

Subwoofer 500 x 282 x 151 mm 11 kg





Kommander-KA14 I

Amplifier 430 x 87 x 430 mm 6 kg

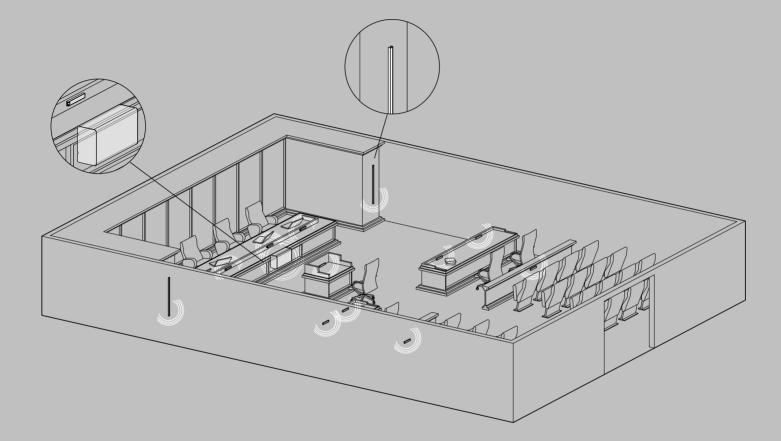


Amplifier 430 x 87 x 430 mm 7,4 kg

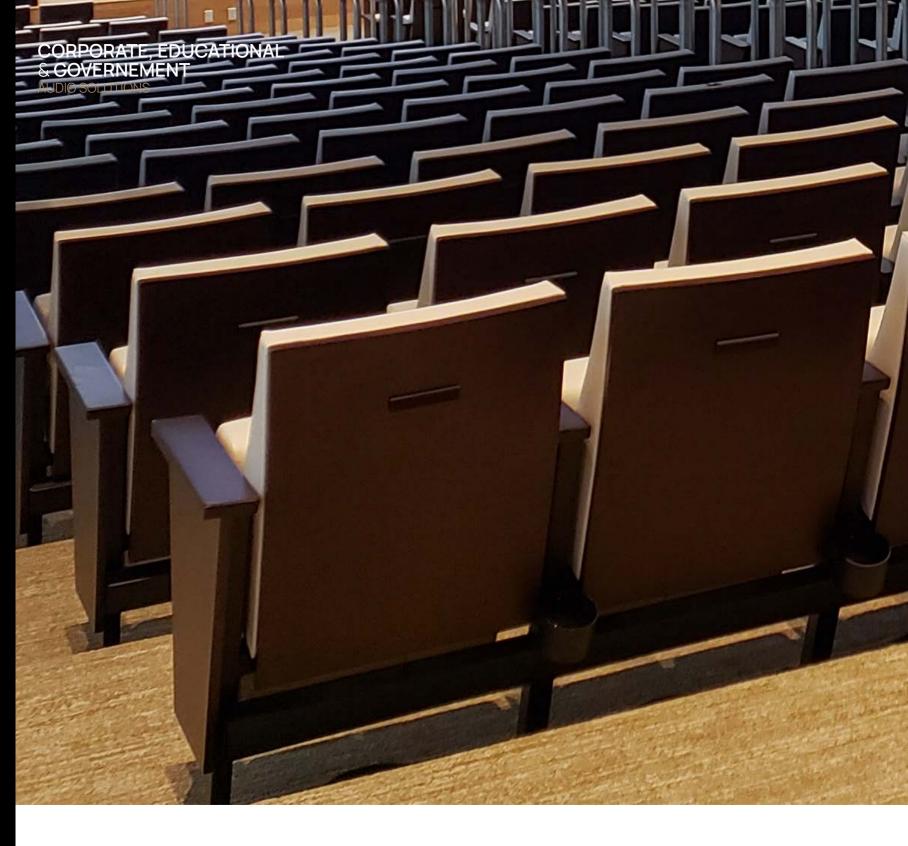
Kommander-KA18 I



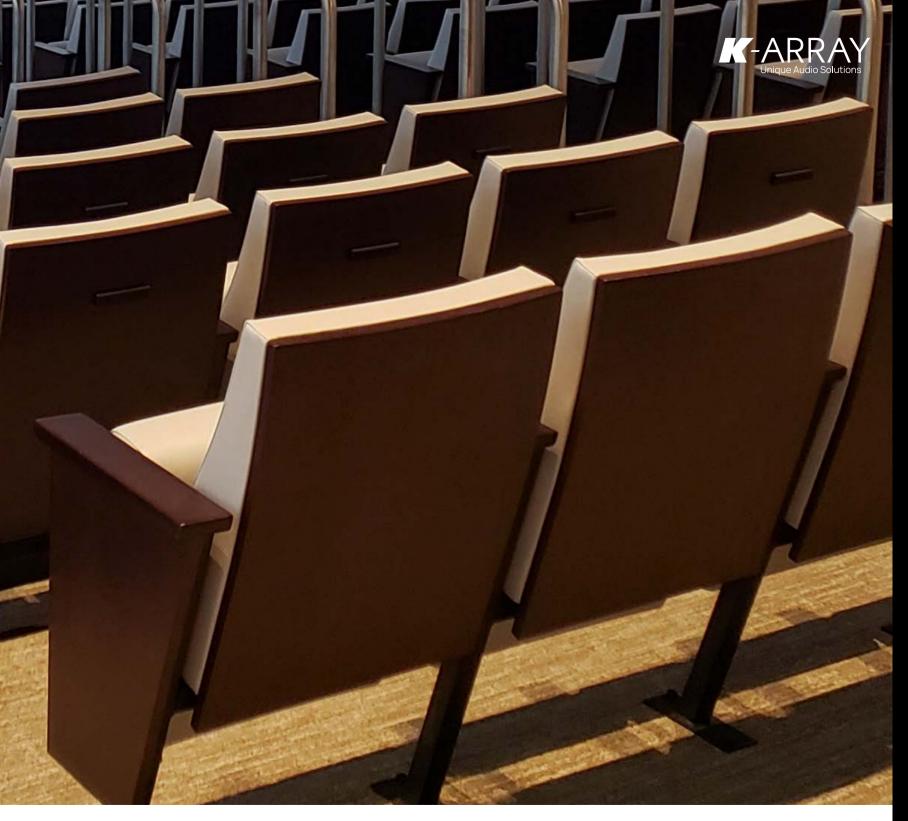




Configuration Intelligibility			Audio Use
Speakers	Subwoofers	Amplifiers	Accessories
2x Vyper-KV102 10x Vyper-KV25 	1x Rumble-KU212	1x Kommander-KA18 1x Kommander-KA14	1





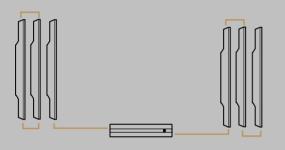


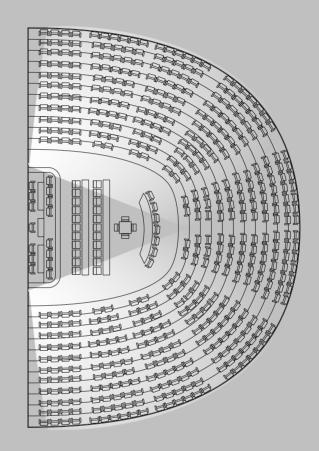


CORPORATE, EDUCATIONAL & **GOVERNEMENT**



Intelligibility







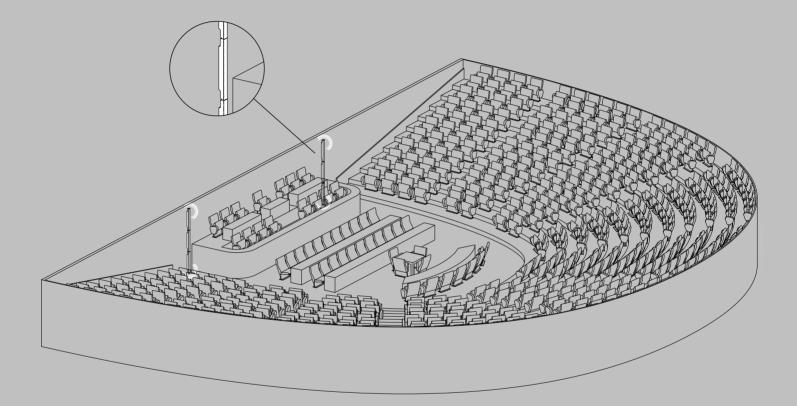
Python_KP102 I Speaker 89 x 1000 x 118 mm 12.0 kg



6 kg

Amplifier 430 x 87 x 430 mm





Configuration Intelligibility			Audio Use
Speakers	Subwoofers	Amplifiers	Accessories
6x Python-KP102 I	1	1×Kommander-KA14 I	4x K-JOINT3 4x K-WALL2



PARLIAMENT





P. **50**









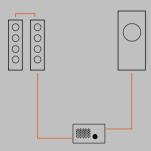


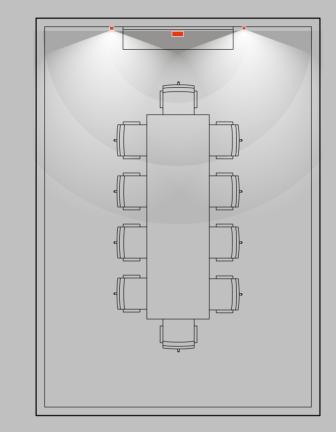




Corporate MEETING SPACES

Configuration Intelligibility









 Speaker
 Image: Comparison of the system

 40 × 1000 × 22 mm
 Image: Comparison of the system

 1,8 kg
 Image: Comparison of the system





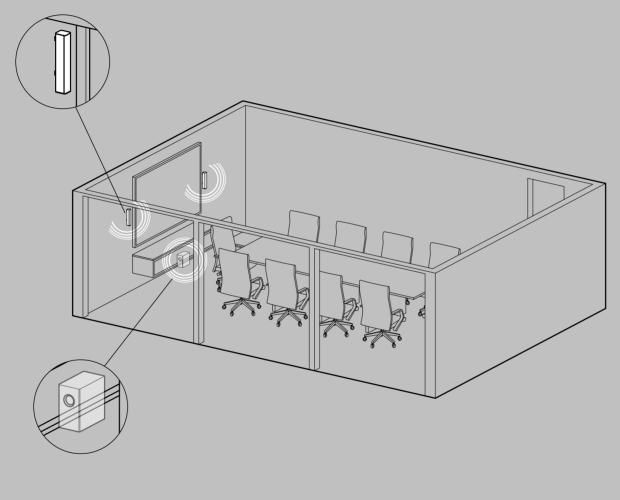


Amplifier 430 x 87 x 430 mm 6 kg







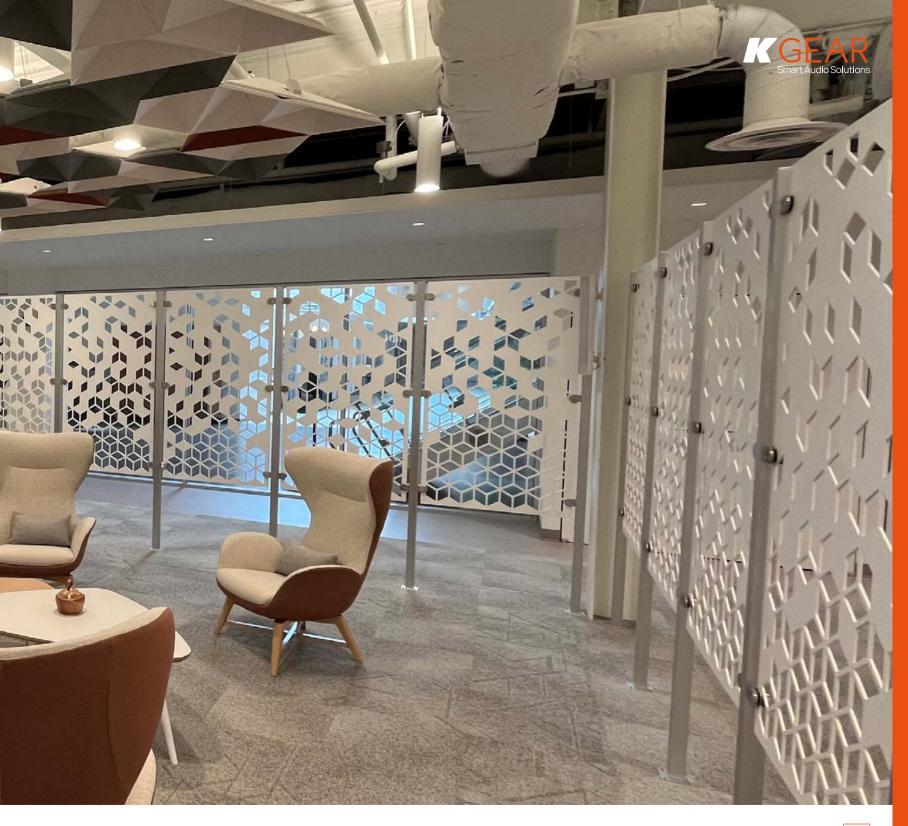


Configuration Intelligibility			Audio Use
Speakers	Subwoofers	Amplifiers	Accessories
2× GF42	1x GS6	1× GA201	1



×**



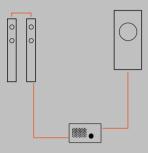


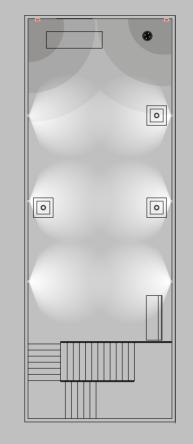


 $\begin{array}{l} \textbf{CORPORATE, EDUCATIONAL}\\ \& \textbf{GOVERNEMENT} \end{array}$ AUDIO SOLUTIONS

Corporate LOBBY & SHOWROOM

Configuration Background Music







1,8 kg





GS6

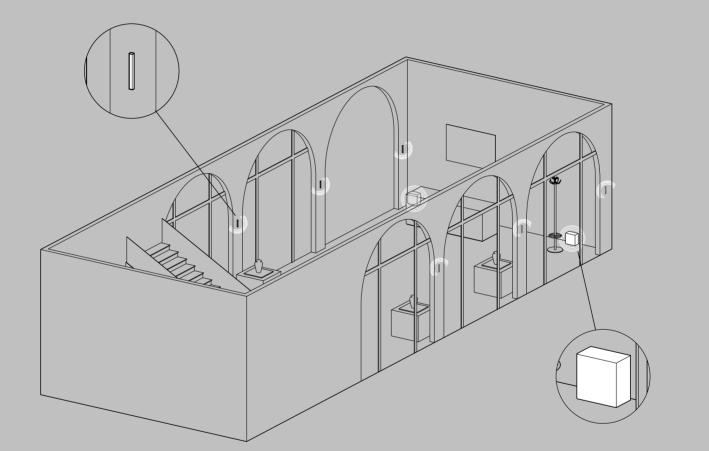


GA201 Amplifier 430 x 87 x 430 mm 6 kg









Configuration Background Music			Audio Use
Speakers	Subwoofers	Amplifiers	Accessories
6x GF22	2x GS6	1× GA201	1



OPEN SPACE OFFICE

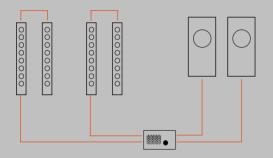


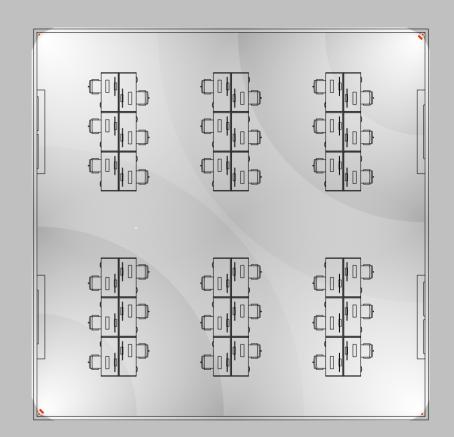


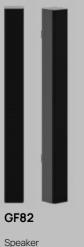
 $\begin{array}{l} \textbf{CORPORATE, EDUCATIONAL}\\ \& \textbf{GOVERNEMENT} \end{array}$ AUDIO SOLUTIONS

Corporate **OPEN SPACE OFFICE**

Configuration **Background Music**







1,6 kg





GS6

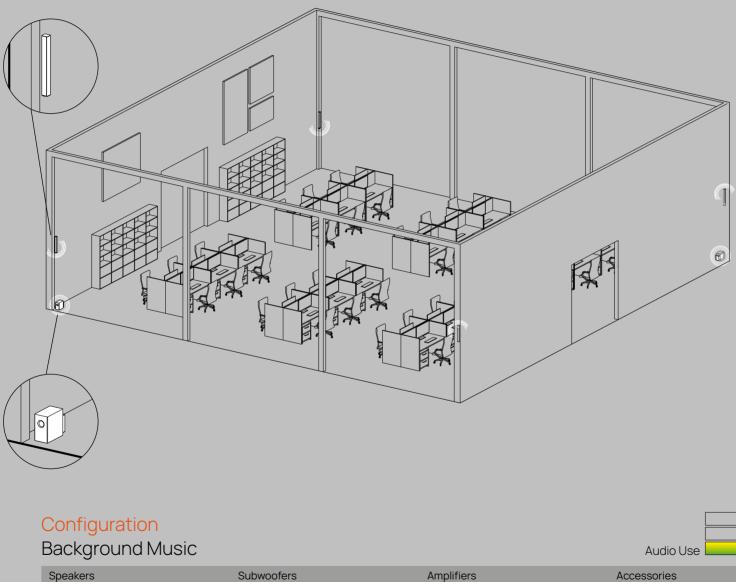
500 x 282 x 151 mm



Amplifier 430 x 87 x 430 mm 6 kg



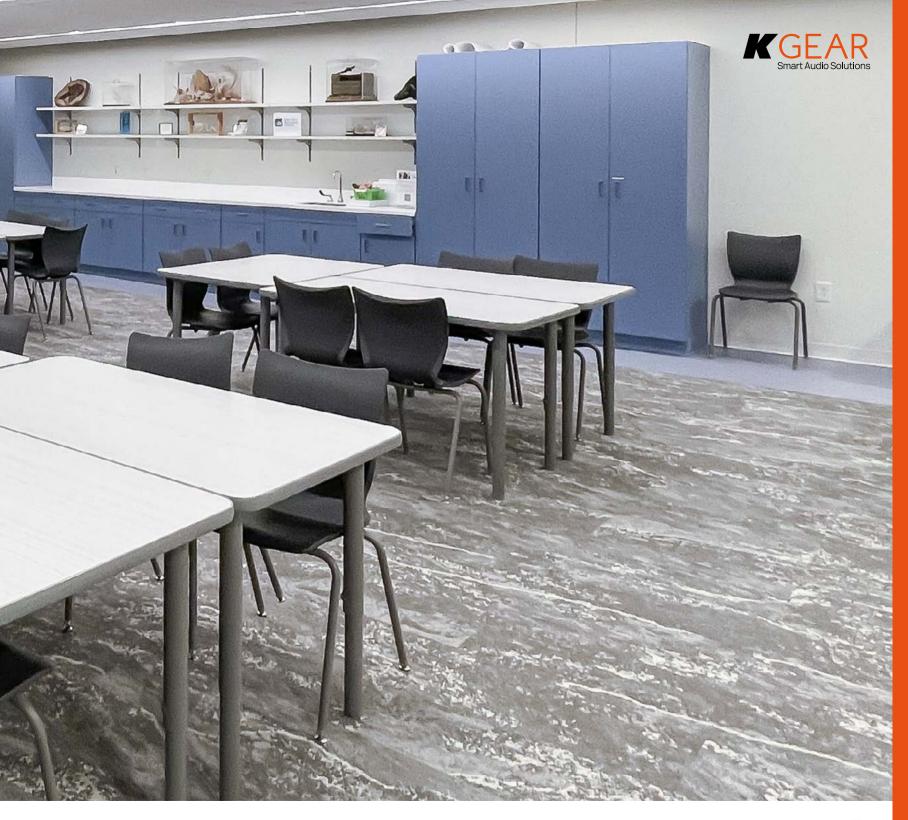




 4x GF82
 2x GS6
 1x GA201
 /



CLASSROOM

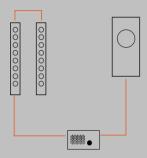


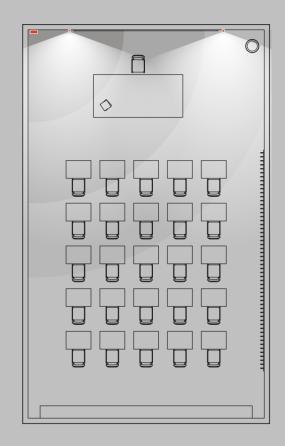


 $\begin{array}{l} \textbf{CORPORATE, EDUCATIONAL}\\ \& \textbf{GOVERNEMENT} \end{array}$ AUDIO SOLUTIONS



Configuration Intelligibility













GS6

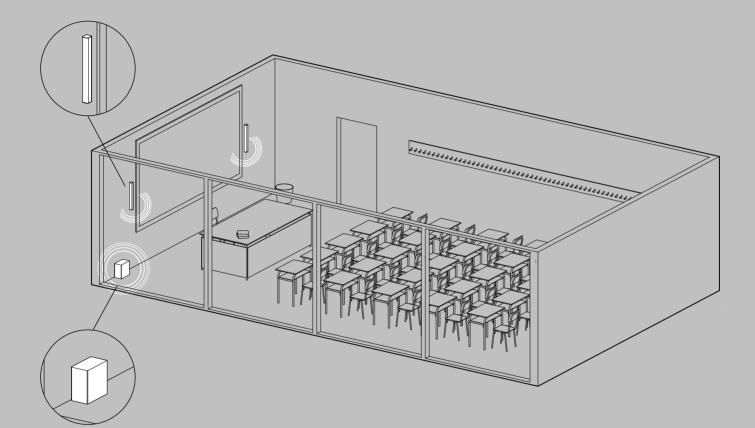




6 kg



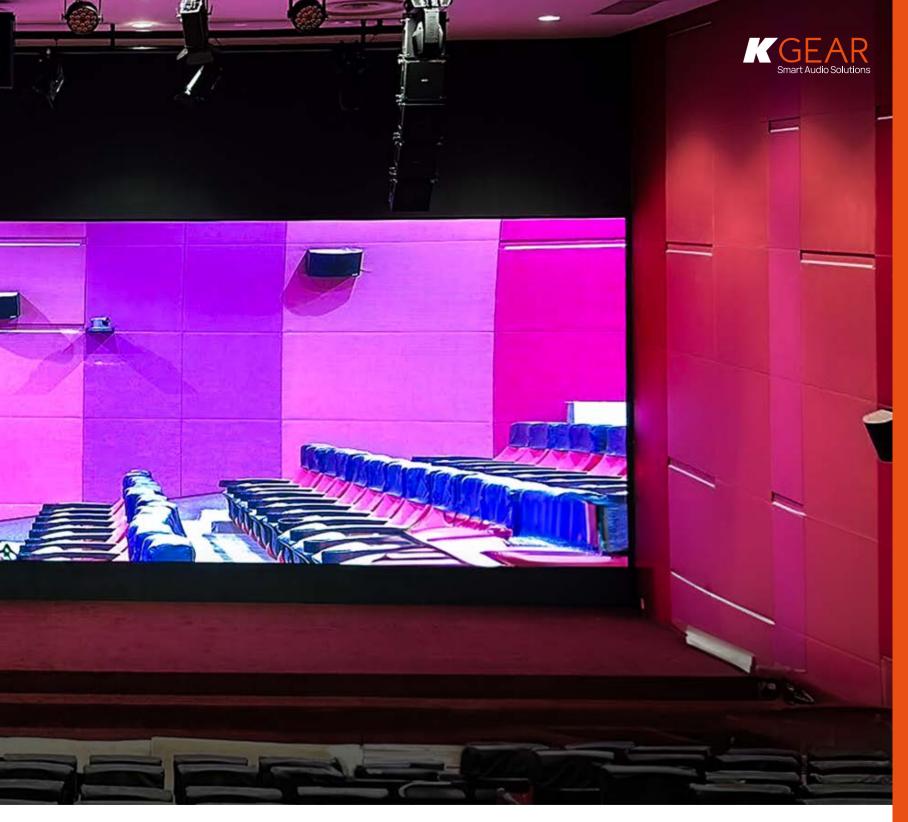




Configuration Intelligibility			Audio Use
Speakers	Subwoofers	Amplifiers	Accessories
2x GF82	1x GS6	1× GA201	1



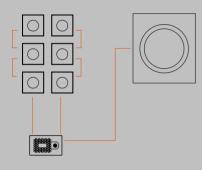
LECTURE HALL - AUDITORIUM

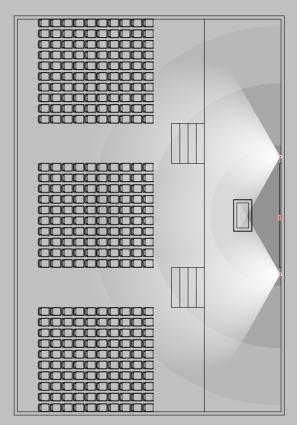


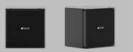


Educational **LECTURE HALL - AUDITORIUM**

Configuration Intelligibility







GH4

Speaker 112x112x94 mm 1,2 kg



19 kg

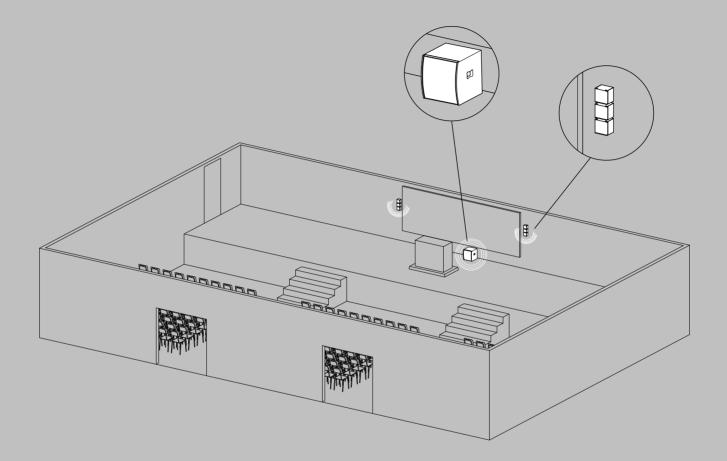




GA43

Amplifier 145x90x418 mm 3,6 kg





Configuration Intelligibility Audio Use				
Speakers	Subwoofers	Amplifiers	Accessories	
6× GH4	1× GS12	1× GA43	1	

Educational 77





P. **72**



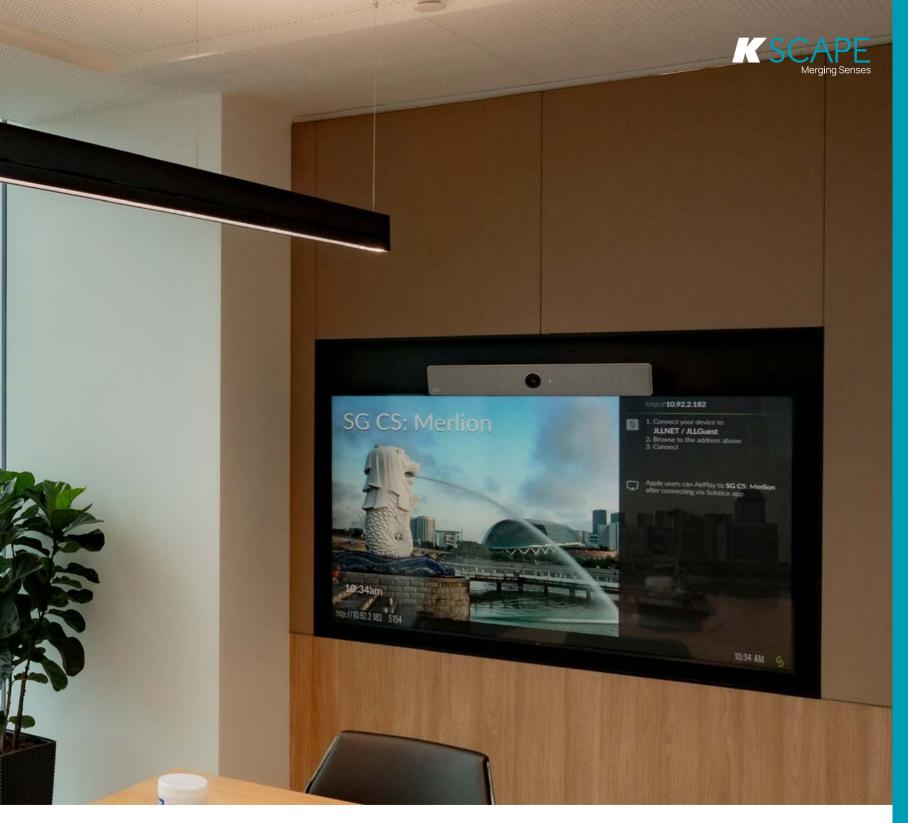








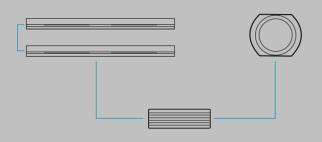
MEETING SPACES

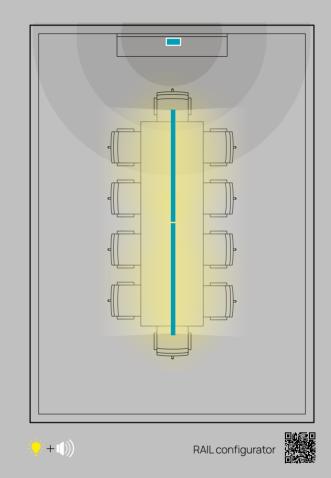






Configuration Intelligibility







R120-SY-V-DI-B-AU

Speaker + Light 1190x35x92 mm 3 kg



Truffle-S-KTR25



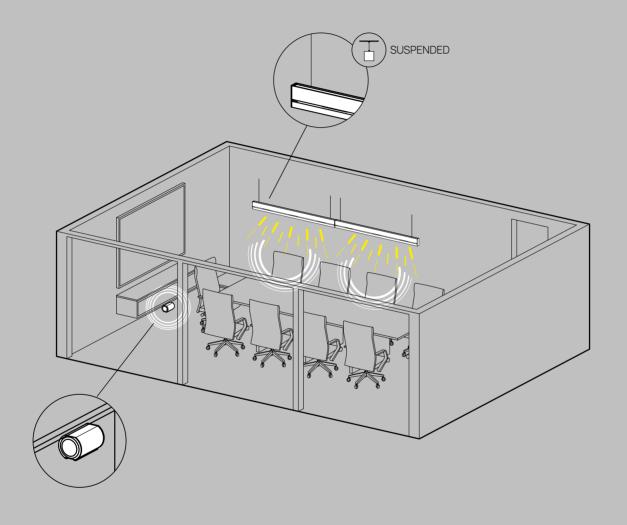


Kommander-S-KA04

Amplifier 219 x 46 x 320 mm 1,2 kg







Configuration Intelligibility			Audio Use	
Rail	Subwoofers	Amplifiers	Accessories	
2x R120-SY-V-DI-B-AU	1× Truffle-S-KTR25	1× Kommander-S-KA04 I	2x PEN2-120 2x RTB 1x S-AL100-24	

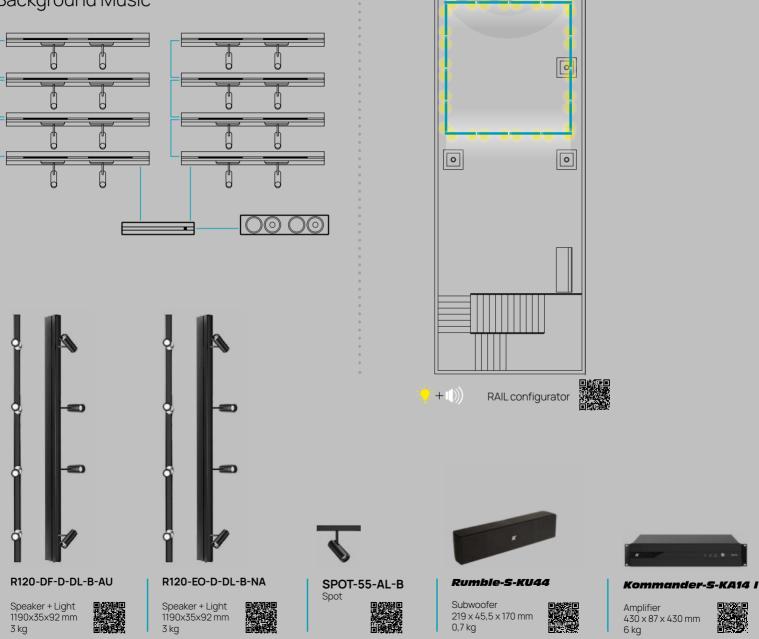






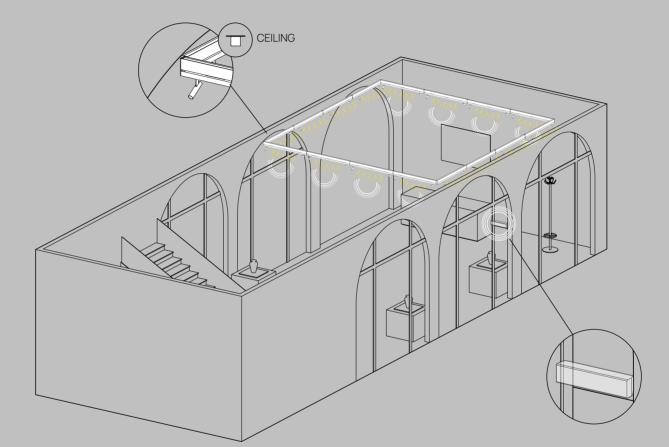
Corporate LOBBY & SHOWROOM

Configuration Background Music



690





Configuration Background Music				
Rail	Subwoofers	Amplifiers	Accessories	
8× R120-DF-D-DL-W-AU 8× R120-EO-D-DL-W-NA 24× SPOT-55-AL-B	1x Rumble-S-KU44 I	1x Kommander-S-KA14 I	4X PLA1-120 12X PLA2-120 2X RTLSXW 2X RTLDXW	

CORPORATE, EDUCATIONAL



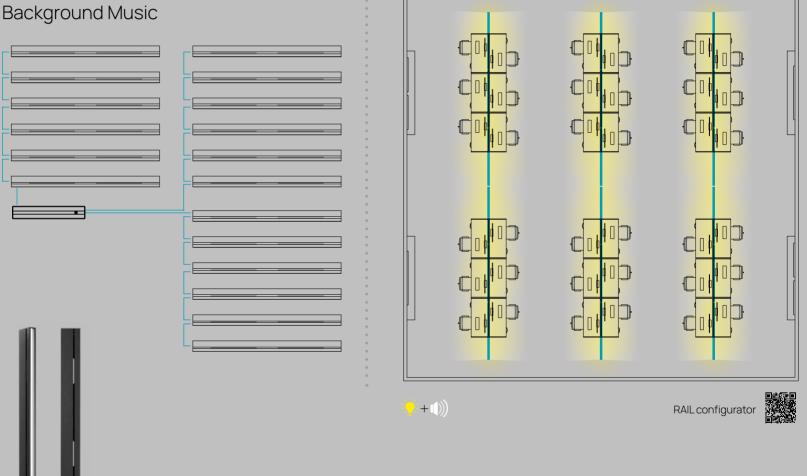
OPEN SPACE OFFICE





Corporate OPEN SPACE OFFICE

Configuration Background Mus





Kommander-S-KA14 I

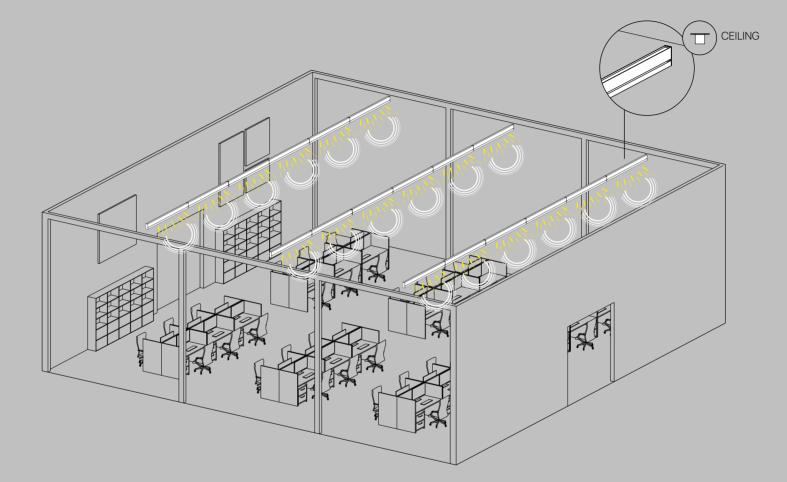
R120-SY-V-DI-B-AU

Speaker + Light 1190x35x92 mm 3 kg











Cont

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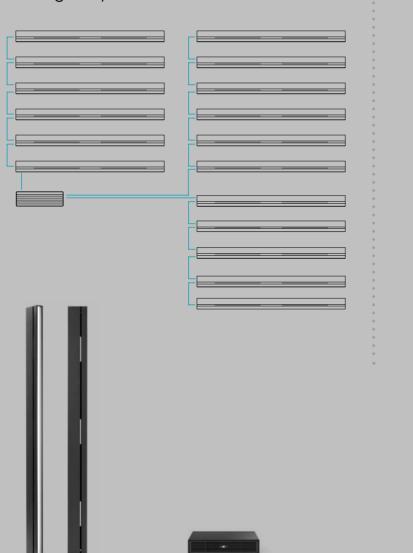


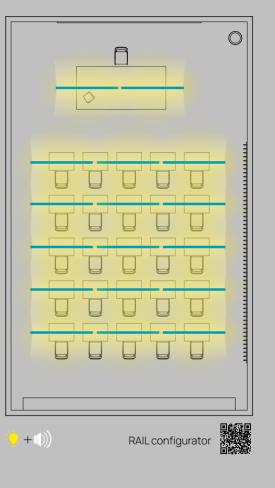






Configuration Intelligibility









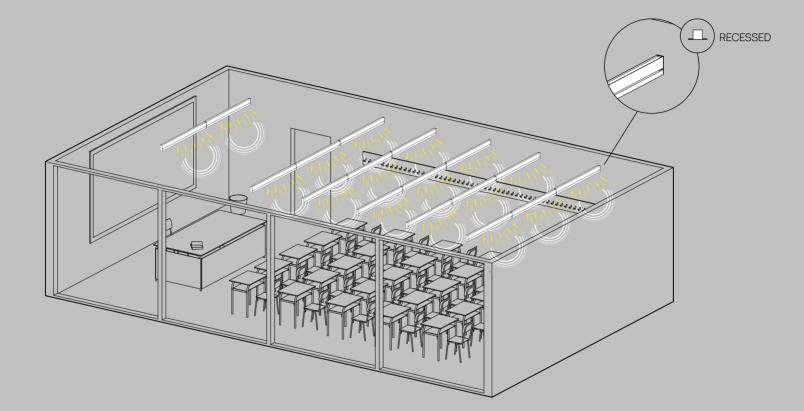




Kommander-S-KA04 I

0,7 kg





Configuration Intelligibility			Audio Use
Rail	Subwoofers	Amplifiers	Accessories
17x R120-SY-D-CL-W-AU	1	1x Kommander-S-KA04 I	12x HS-SF-ED-120-W 5x HS-SF-MI-120-W 12x RTW



Are you in these professional categories?

- System Integrator
- Installer
- Rental Company
- Designer

BE PART OF THE SOLUTION

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43°57'00"N-11°22'59.88"E AN AUTHENTIC PLACE

K-ARRAY



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K-array surl warrants its products against defects in material or workmanship. The term of the K-array surl Warranty is five years from the original date of purchase of the product and their accessories. This warranty may be transferred to a subsequent owner during the warranty period. However, such a transfer shall not extend the warranty period beyond the original warranty period of five years from the original date of purchase stated on the invoice from the distributor to the end client.

M-HALL



IMPORTANT:

The configurations showcased in this Catalog are just examples, they don't represent existing projects. While not representing real projects, they can serve as inspiration for what's possible. Dive into our K-array Lookbook to explore specific, well-designed audio projects. Have a project to share? Send your materials to marketing@k-array.com, it might be selected for our next Lookbook.



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