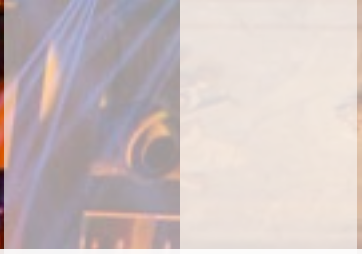




Installation.

Integrated sound solutions


More art. Less noise.

d&b audiotechnik

Welcome to System reality.

As the name implies a d&b audiotechnik system is not just a loudspeaker. Nor is it merely a sum of the components: loudspeakers, amplifiers, signal processors, networking, software and accessories. Right from the outset the d&b audiotechnik approach was to build integrated sound reinforcement systems that actually are more than the combination of parts: an entirety where each fits all. Every element is tightly specified, precisely aligned and carefully matched to achieve maximum efficiency. For ease of use, all the user-definable parameters are incorporated, allowing the possibility of adjustment, either directly, via remote control surfaces, or integrated within wider networks. Neutral sound characteristics leave the user all the freedom needed to realize whatever the brief. At the same time d&b offers finance, service and support, a knowledgeable distribution network, education and training as well as technical information, so the same optimal acoustic result is achieved consistently by every system anywhere, at any time. In reality: the d&b System reality.

Royal Albert Hall, London, UK

Complete sound reinforcement solutions.

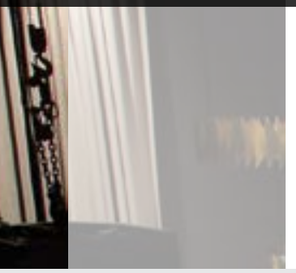
The Installation range of d&b audiotechnik loudspeakers and amplifiers is specifically designed to fit the unique requirements of the application. Whether an aesthetically sensitive room, a rider driven performance venue, a particularly reverberant space, or a multipurpose centre, a d&b solution delivers optimal sonic results with visually unobtrusive design.

The d&b system integration principles - quality of construction, technology, and standard of service - deliver sound reinforcement systems for high quality speech and music reproduction in public places. The d&b system approach, harmonizing loudspeakers, amplifiers and software, ensures reliable, repeatable and recognizable results. For that reason, d&b audiotechnik sound reinforcement systems appear on professional riders worldwide. This makes the planning process hassle free, while product longevity and reliability guarantee predictable performance, night after night, year after year. With permanent integration in mind, d&b installation products are developed together with precision accessories for flexible, discreet deployment.

The Special Colour (SC) option allows cabinets to blend seamlessly into place in almost any custom colour including RAL and NCS, preserving the integrity of sightlines and décor to minimize distraction and maximize experience. For cabinets located outdoors, the Weather Resistant option, with an IP54 rating, helps protect against the elements. A Sea Water Resistant (SWR) option provides enhanced corrosion protection in especially harsh outdoor environments. d&b loudspeakers are also available as Variants for stadium (SVS), with specifically designed metal brackets supporting the cabinets rather than internal rigging components. Design, construction or weatherization; whatever the requirements, the Custom solutions team will tailor a d&b system for a flawless fit.

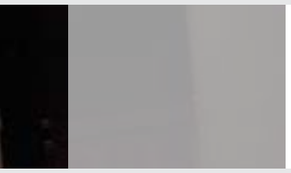
Holon Theatre, Israel

The d&b Installation Toolbox.
Loudspeakers.



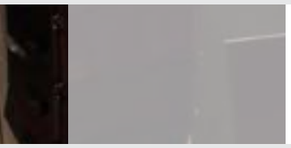
xS-Series

44S · 4S · 5S · 8S · 10S • 10S-D · 12S • 12S-D · 24S • 24S-D · Bi8-SUB · 12S-SUB · 18S-SUB · 21S-SUB · 27S-SUB



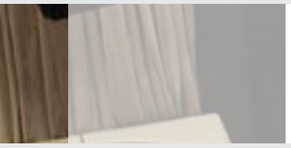
xA-Series

10A • 10A-D · 10AL • 10AL-D · 18A-SUB · 27A-SUB



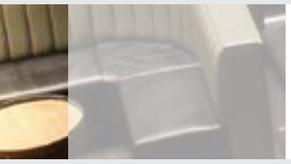
E-Series

E4 · E5 · E6 · E8 · E12 • E12-D · B8-SUB · E12X-SUB · E15X-SUB



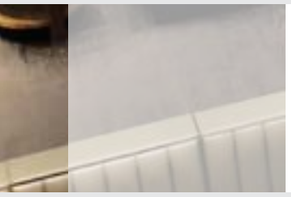
T-Series

Ti10L · Ti10P · Ti-SUB · B4-SUB



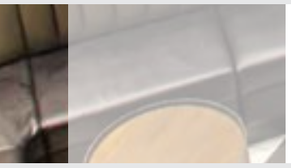
Y-Series

Yi8 • Yi12 · Yi7P • Yi10P · Yi-SUB · Bi6-SUB



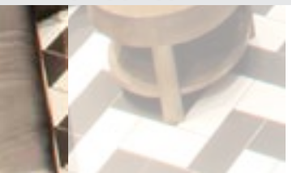
V-Series

Vi8 • Vi12 · Vi7P • Vi10P · Vi-SUB · Vi-GSUB



SL-Series

XSLi8 · XSLi12 · KSLi8 · KSLi12 · XSLi-SUB ·XSLi-GSUB · KSLi-SUB · KSLi-GSUB



Several d&b systems are exclusively developed for installation applications, including the xA, xS and xC-Series. Others such as the SL, V, Y and T-Series offer installation i-variants, sharing the same acoustical design as their mobile counterparts. No matter which one best suits, every d&b installation system is designed to be as flexible and unobtrusive as possible with venue specific aesthetics and acoustics in mind.

Practical point sources

The direct radiating xS-Series offers a wide range of scalable solutions with varying dispersion and output characteristics, from the very small, to the considerably large. The functionally formed, robust and lightweight E-Series is made to perform a variety of roles, from fills to front of house, even as stage monitors. Of note is the Ti10P which shares the same dipolar driver arrangement as the larger Yi and Vi loudspeakers, albeit in a much smaller format. The 2-way passive Yi7P and Yi10P are also rathercompact in size, though certainly not in performance. Then there is Vi7P and Vi10P, a true single box solution for when a small line array isn't appropriate.

The arrayable options

From the small to the sizeable, there is a d&b line array for every space: the tiny Ti10L; the biaxial xA-Series; the flexible Yi8 and Yi12; the 3-way passive Vi8 and Vi12; or the XSLi and KSLi loudspeakers, inheriting the sonic advantage of the state-of-the-art SL-Series. These systems can all be enhanced with ArrayProcessing, an optional software function for optimizing the level and tonal balance in the vertical plane across the entire audience listening area.

The d&b Installation Toolbox.
Loudspeakers.

xC-Series

16C | 24C | 24C + 24C-E | Bi8-SUB

A-Series

ALi60 | ALi90

Cardioid columns
Acoustically and aesthetically challenging environments demand an unconventional approach. The combination of high vertical directivity and cardioid horizontal dispersion control minimizes reflections from behind the xC-Series column loudspeakers for striking speech intelligibility.

Augmented advantage
Rooms with low ceilings, medium throw and broad coverage areas may benefit from a d&b augmented array. Augmented arrays are a new tool that combines the ease of point source clusters with the level and frequency distribution of either horizontal or vertical arrays. Variable splay angles allow arrays of up to four ALi60 or ALi90 loudspeakers to adapt precisely to coverage areas in fine increments. Midrange directivity control provides one-button acoustic optimization directly from d&b amplifiers.

Bass in place: the subwoofers
From the smallest scale to the most sizeable, there is a d&b subwoofer to suit any installation situation. From the impressive SL-Series, the XSLi-SUB, KSLi-SUB, XSLi-GSUB and KSLi-GSUB offer an incredible performance given their size, and produce a cardioid dispersion that contributes to full broadband directivity down to the lowest frequencies.

For rich bass up and out of the way, the 18A-SUB, 27A-SUB, Yi-SUB and Vi-SUB can all be flown. On the ground, the ultra-compact Bi8-SUB, makes an ideal solution for the smallest scale installation applications. However, the Bi6-SUB, 18S-SUB, 21S-SUB and 27S-SUB all produce significant bass from compact cabinets that can take up relatively little space.

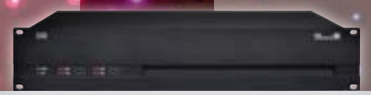
Si Cuisine & Mixology, Hanoi, Vietnam

The d&b Installation Toolbox. Electronics and software.

Amplifiers

5D amplifier

10D amplifier



30D amplifier

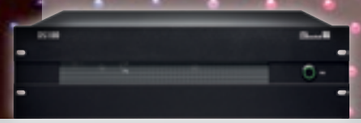
40D amplifier

D80 amplifier

Processing and distribution

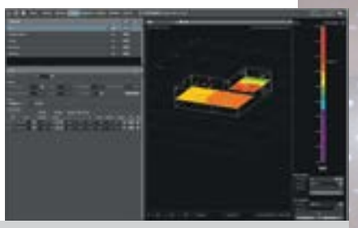
DS10 Audio network bridge

DS20 Audio network bridge



DS100 Signal Engine

Prediction



ArrayCalc simulation software

System optimization

ArrayProcessing

Remote control

R1 Remote control software

R90 Touchscreen remote control

Jiangsu TV Lichi Theatre, Nanjing, China

A wide range of tools support an installation from the very beginning though to daily operation. In the planning process 2D or 3D CAD data, EASE, and Revit data offer accurate project data, acoustic simulations and visualizations of all d&b loudspeakers and accessories. The Digital Signal Processing power of the dedicated installation amplifiers provides comprehensive loudspeaker management to meet the venue's every need. These include switchable filter functions, remote capabilities and user-definable controls.

d&b offers amplifier plug-in modules to guarantee complete interoperability with audio and control infrastructures such as the QSC Q SYS™ DSP network, Peavey MediaMatrix®, digital mixing consoles from DiGiCo, Avid and Lawo, and PC based automation technology by Beckhoff, Crestron®, and AMX®.

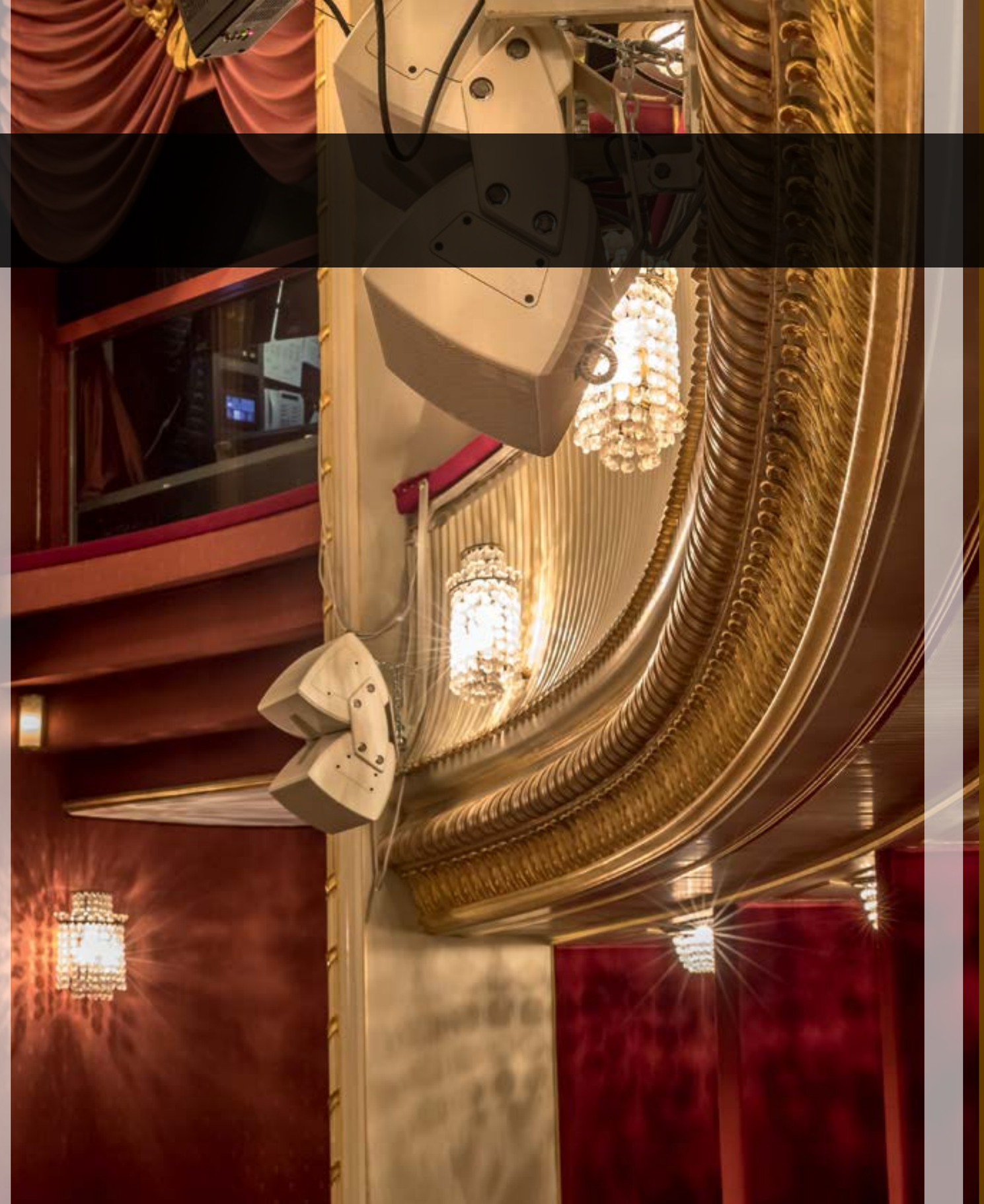
The d&b DS100 Signal Engine features a 64 x 64 matrix with comprehensive processing capabilities and Dante networking. The d&b DS10 Audio network bridge creates a seamless interface between Dante networks and the digital d&b amplifier inputs, whereas the d&b DS20 Audio network bridge provides a corresponding link to Milan networks.

The d&b ArrayCalc simulation tool allows a complete electroacoustic solution to be planned ahead, through system design, performance prediction, and optimization. The optional ArrayProcessing function applies powerful filter algorithms to optimize the tonal (spectral) and level (spatial) performance of a line array column over the audience area.

For control and monitoring, all final data is assimilated by the d&b R1 Remote control software. Extensive setups benefit from centralized control of the complete system, while smaller setups can be monitored via the integrated web interface. The R90 Touchscreen remote control extends the d&b Workflow and enables simplified operation of a pre-configured d&b system, without needing expert level knowledge of audio.

Theatres.

The magic of musicals, enchantment of drama and amusement of comedy all have one thing in common; a crucial engagement between the stage and seats. Accurate performance prediction means the whole system will perform exactly as expected, while integration with third party devices ensures complete interoperability. Systems can be variously deployed for vocal reinforcement, program reproduction or for effect. All of which draw the audience into the heart of the action.



Burgtheater, Vienna, Austria

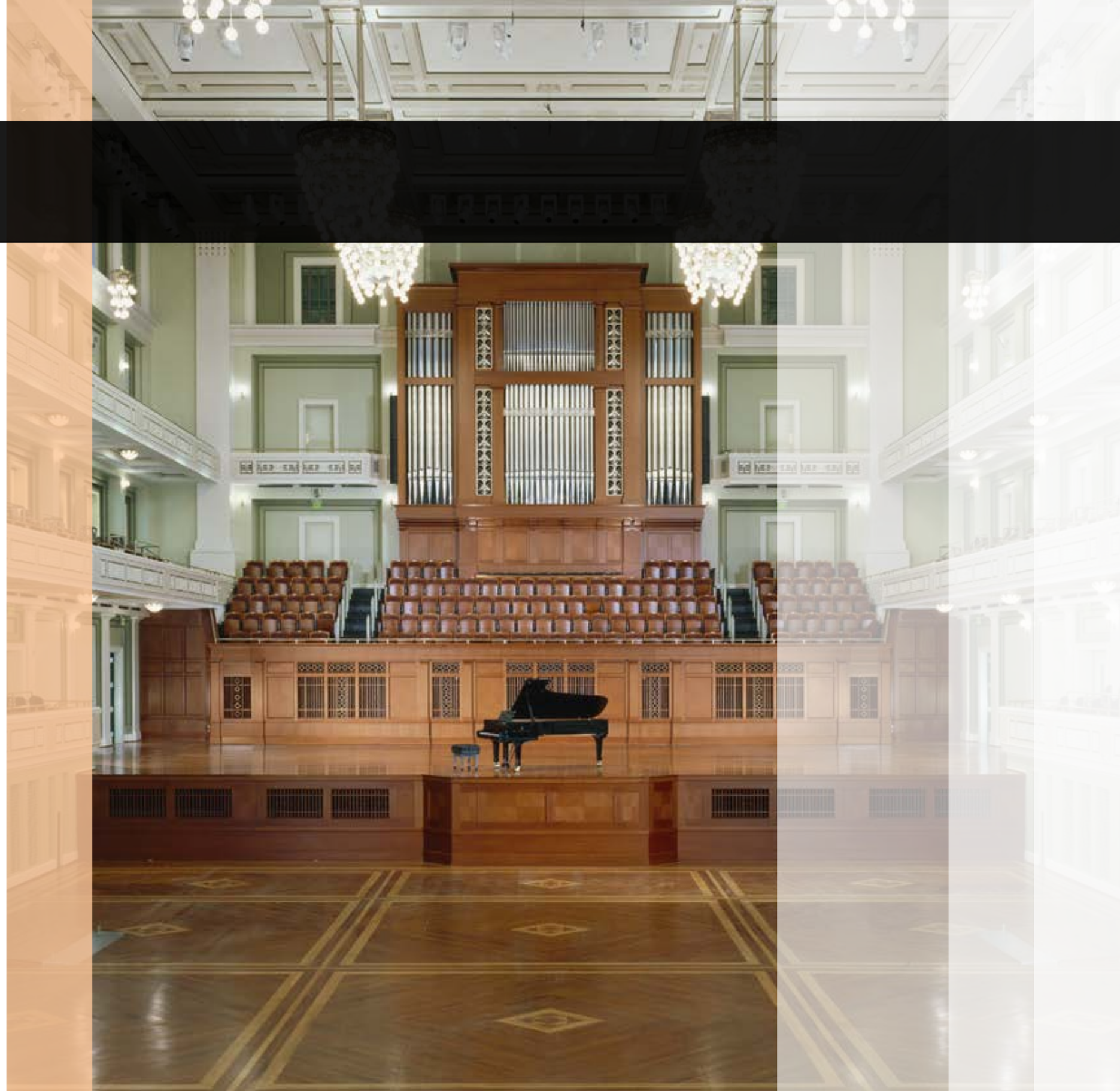
Opera houses.

Compact where it counts; colossal when it matters. Discreet cabinet design guarantees no visual distractions, while Special Colour options make the loudspeakers vanish. A neutral sonic character stays true to the performance on stage, for an intimate bond between the singer and audience. Natural sound reinforcement with a dynamic range to match even the most powerful of voices.

Residenztheater, Munich, Germany

Concert halls.

Unprecedented sound reinforcement for unparalleled performance. Some of the most distinguished concert halls across the globe use d&b systems for the most accurate reproduction, whether for a philharmonic orchestra, classical recital, or internationally recognized solo artist. d&b systems are rider friendly and widely accepted by performers from all musical genres. Highly dynamic performances are accurately transferred to every seat of the house, while optimization functions ensure each member of the audience stays equally enthralled.



Laura Turner Concert Hall, Nashville, TN, US

Live performance venues.

Small to medium size rooms, with low ceilings, compact stages, and demanding crowds. d&b loudspeakers achieve directivity control to the lowest possible frequencies, resulting in reduced reflections, and the highest gain before feedback when working with open microphones. Offering dependable high performance and consistency, d&b systems are internationally rider friendly and trusted to transfer passion to the people.

Théâtre de la Renaissance, Mondeville, France

Nightclubs and Bars.

Thunderous and emotional. Dependable d&b systems for bass lovers and partygoers, night after night, year after year. One flexible solution for each distinctive style, without compromising the dynamics of performance, whether gut punching low end, all-consuming SPLs, or lazy lounging. Precise pattern control means separate zones can be defined without disturbing other areas. With remarkable performance to size ratio, nightclub solutions are recognized for all the right reasons: output power, low distortion, and stylish indestructibility.

Paradise Casino Hotel & Club Chroma, Incheon, South Korea

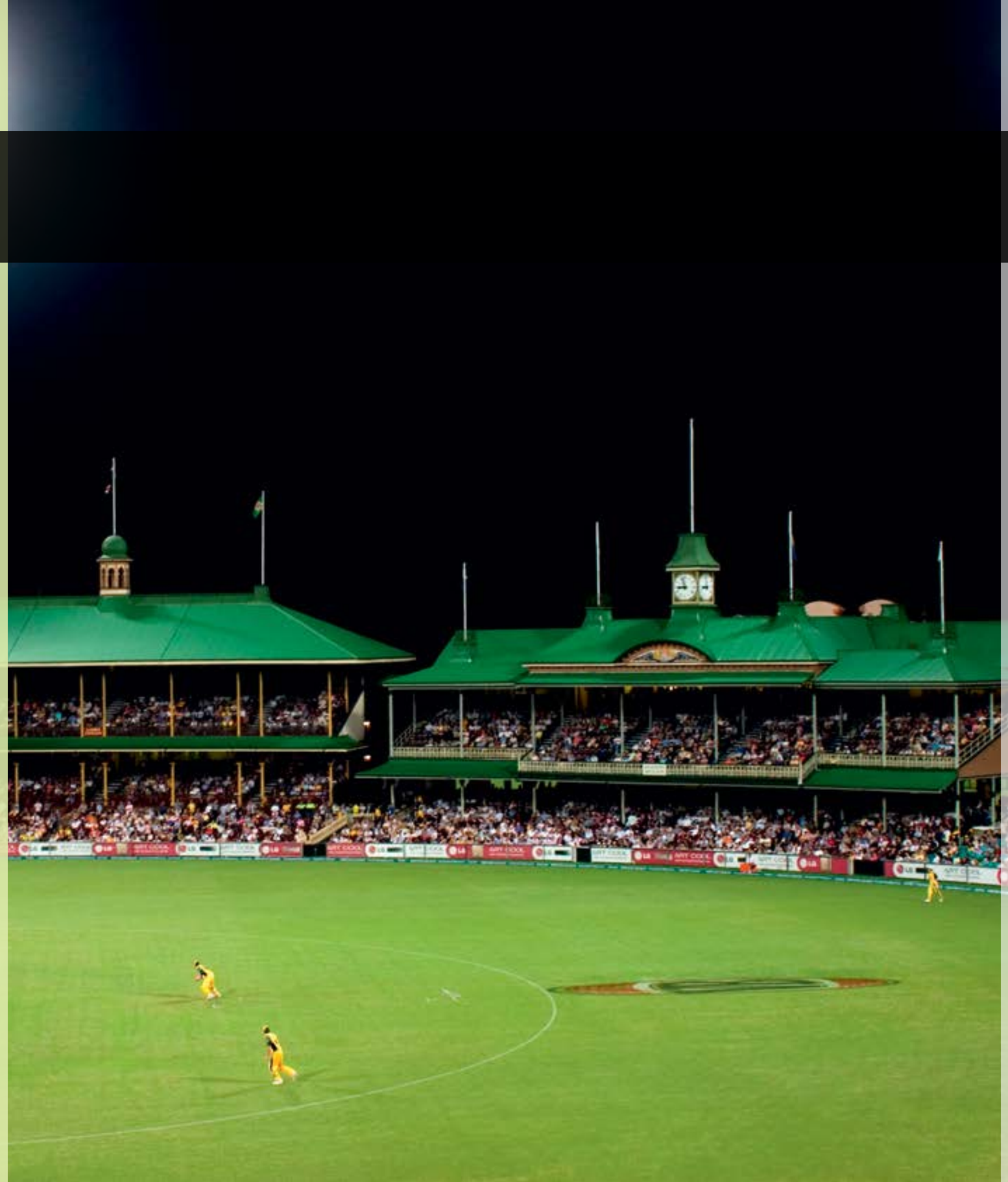
Houses of worship.

Creating impact only where it counts: subtle solutions where clarity connects. From the reverberant magnificence of ancient sacred buildings to contemporary worship spaces, d&b systems provide neutral balanced sound to every seat in the house. Unprecedented vocal presence and the highest speech intelligibility ensure the service is experienced clearly, and authentically. Whether spoken word, gospel or modern music, d&b systems deliver faithfully to the congregation.

St. Eugene's Cathedral, Londonderry, Ireland
Night of Worship, Brownsbridge Church, Georgia, US

Sports venues.

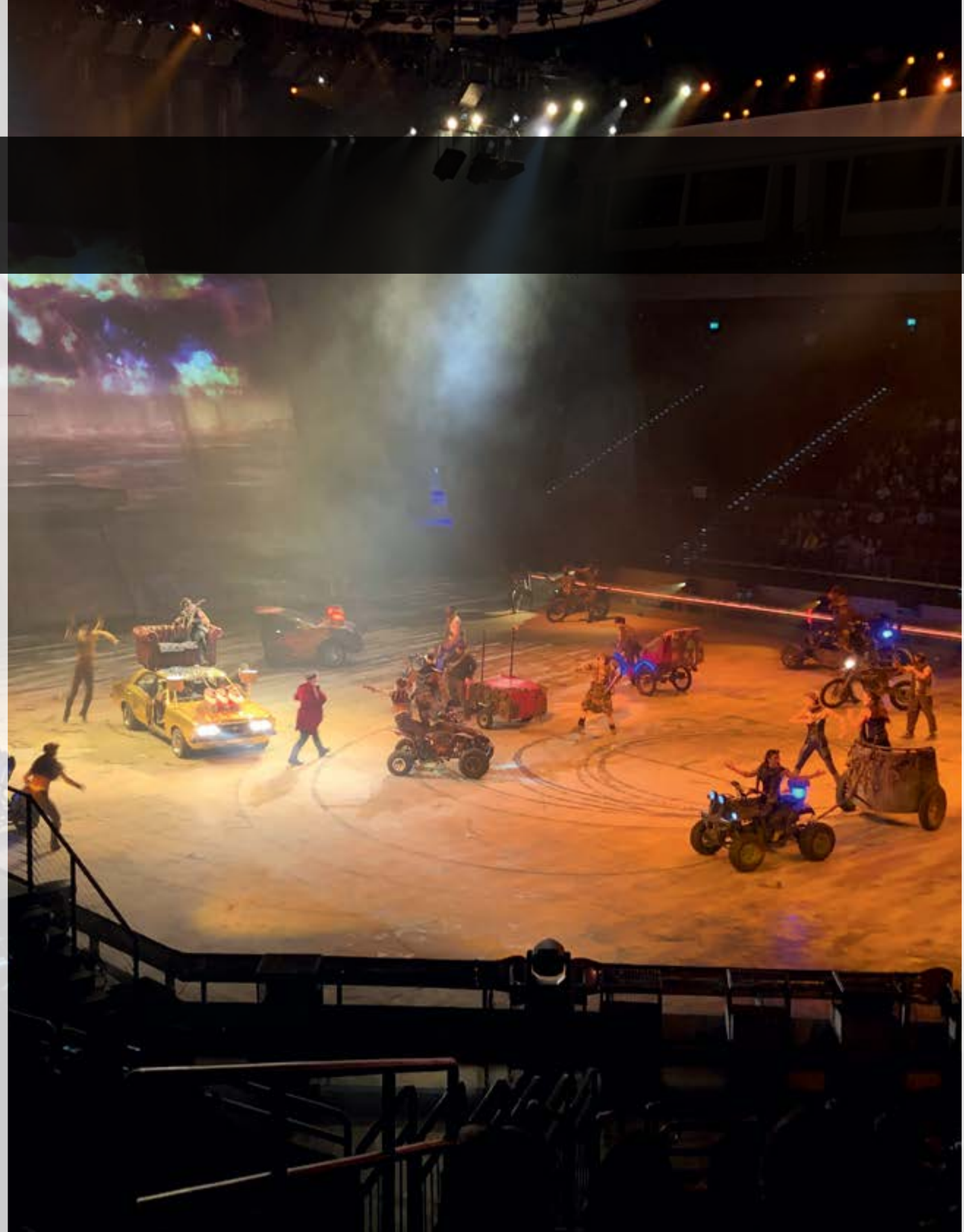
Sonic clarity in stadiums and arenas delivers experiential entertainment every time. Intelligible, clear, and powerful sound is a direct line to the spirit of the moment. It's what connects the people with the passion of the players and performers, and what brings the atmosphere alive. Integration with the standard signal distribution, control and networking solutions, guarantees complete interoperability. The system can be switched from announcements and playback for sport, to a highly dynamic system fit for international artists, as easily as the flick of a switch. From the first seat to the last, fans remain immersed in every moment, through every cheer and tear and bated breath.



Sydney Cricket Ground, Australia

Multipurpose halls.

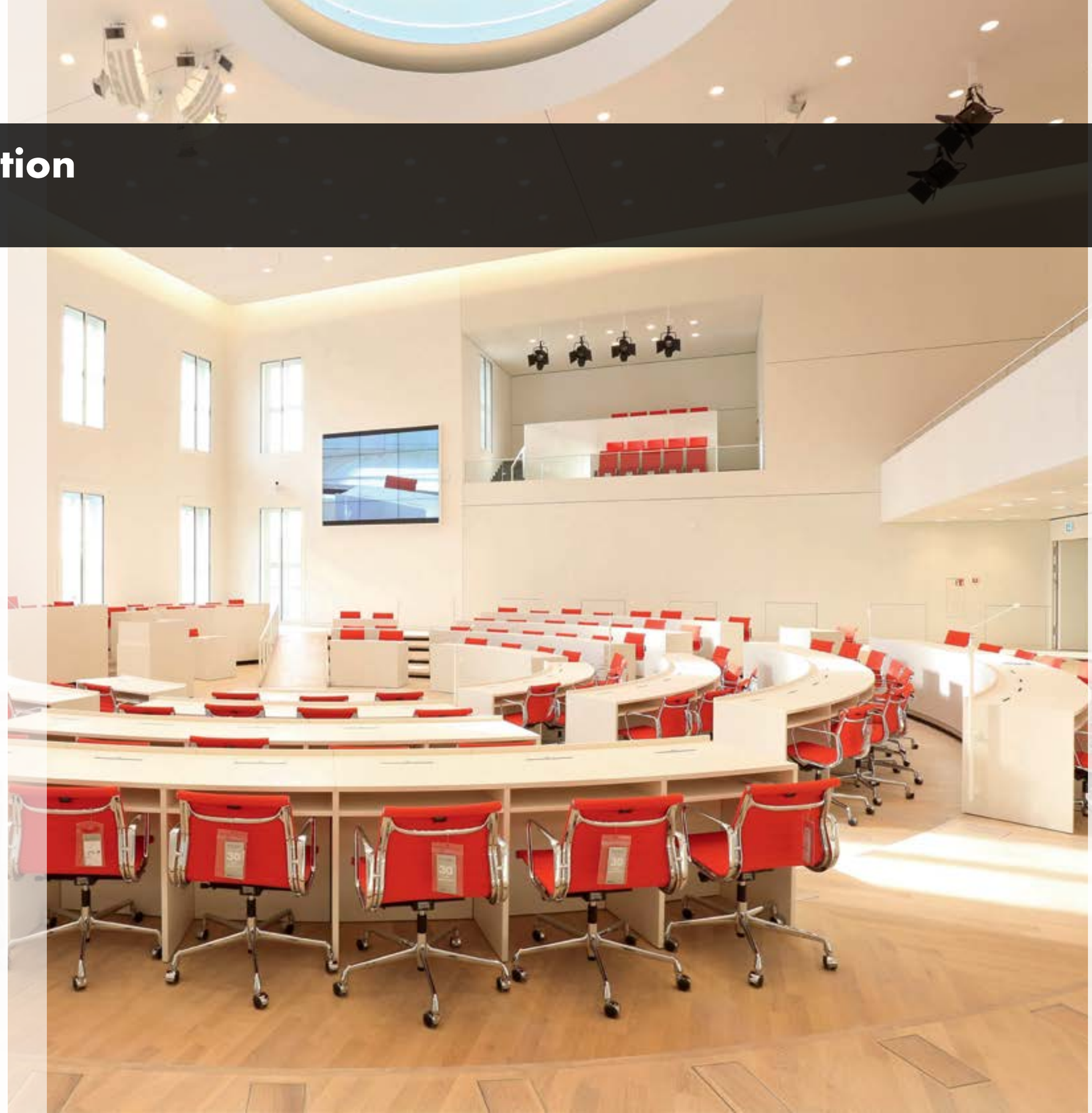
Multiple in name, multiple in nature; differing demands from one day to the next. Whether a cultural hub or sports facility, flexible solutions deliver the necessary clarity and headroom to handle material of any kind, be it live music, a keynote speech, or emergency announcement. And because the d&b amplifiers are fully interoperable with current audio transport and remote control protocols, seamless integration comes as standard. Tireless listening, every time.



Elekron, The House of Dancing Water, Macau, China

Conference, Education and Government.

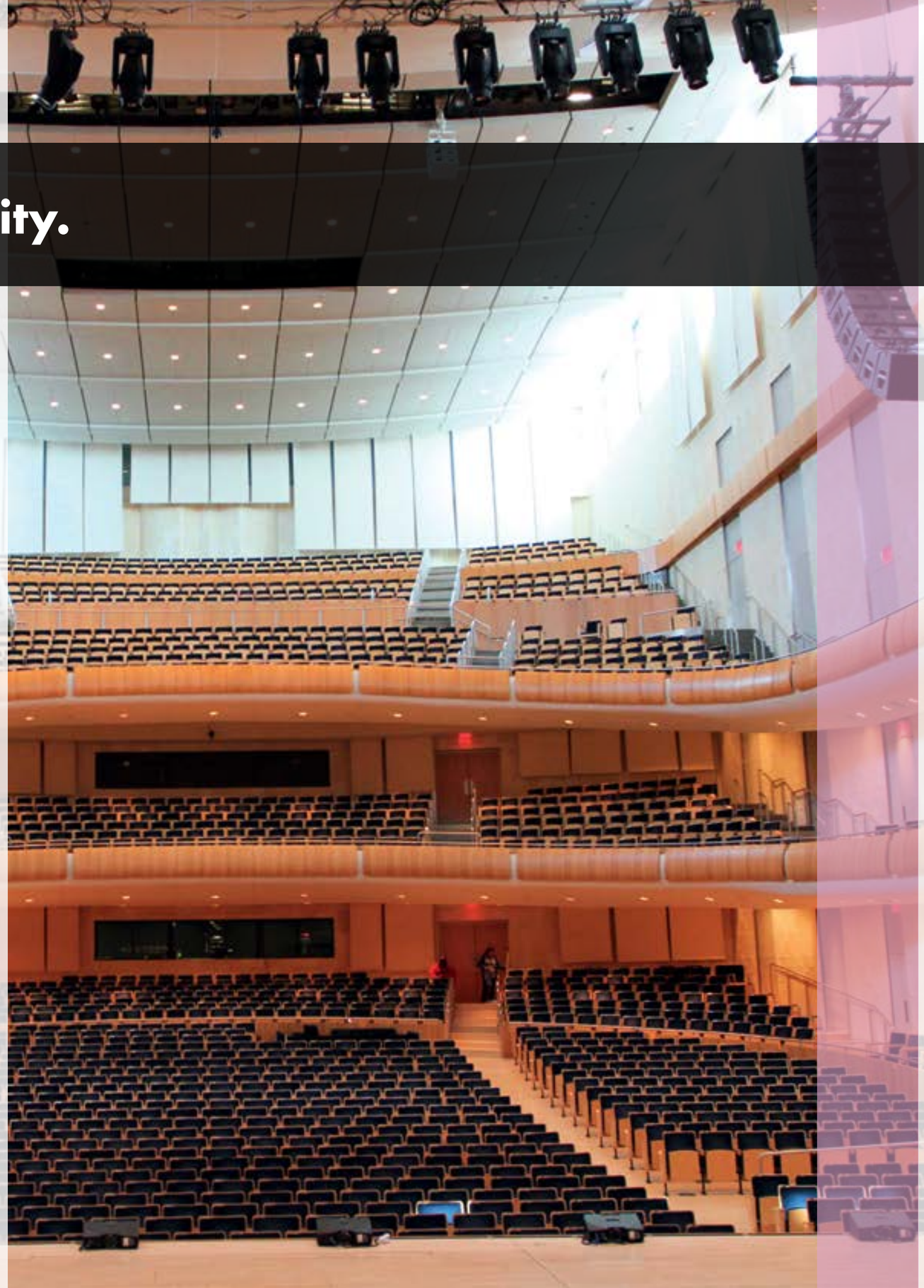
Neutral sound with high speech intelligibility means communications can be tirelessly heard. Whether at a conference, seminar or in parliament, engaging the audience is key. Effective integration guarantees interoperability for applications across multiple spaces with methods for simple operational control. Third party interoperability ensures all audio visual equipment can be controlled from one central touch-screen or wall panel, helping to create the ideal atmosphere for dialogue, discussion and debate.



Brandenburg State Parliament, Potsdam, Germany

Sonic concept to System reality.

The d&b Workflow transports a project from concept to reality with the greatest of ease. In just a few steps, this integrated approach brings d&b solutions to life, consistently, efficiently and comfortably. With system design, performance prediction, control and monitoring in hand, there's time saved for fine tuning to artistic taste, ensuring audiences everywhere experience live sound exactly as intended.



Holland Performing Arts Center, Omaha, NE, US

The d&b Workflow.

The integrated d&b Workflow improves efficiency all the way from the start of a project through planning and simulation to control of the final result.

In the first stage of the d&b Workflow, a 3D model of a venue is created using ArrayCalc, where loudspeakers can be virtually placed, positioned, and configured. When this is completed, the system performance can be simulated. Once the mechanical settings of a line array have been finalized, the optional ArrayProcessing function within ArrayCalc can be applied. ArrayProcessing uses powerful filter algorithms to optimize the level and tonal balance of a line array across the entire audience area. Once the desired performance has been achieved, the amplifiers can be configured and signal routing defined. ArrayCalc then generates rigging plans, parts lists, and graphics for use in the final proposal.

In the next stage of the d&b Workflow, the file built by ArrayCalc can be opened by the R1 Remote control software where a graphical user interface for the complete system is automatically generated. It is now that all of the settings defined in ArrayCalc can be sent to the amplifiers, and signal distribution configuration can be sent to signal engines or audio network bridges.

Planning and simulation

d&b ArrayCalc simulation software

Control and operation

d&b R1 Remote control software

Processing and distribution

DS100

DS10 / DS20

d&b audio network devices

Amplification

40D

d&b amplifiers

Reproduction

d&b loudspeakers

Municipal Hall, Wernau, Germany

Simulation.

The d&b ArrayCalc simulation software is the planning tool for accurately configuring d&b line arrays, column and point source loudspeakers and subwoofers, in any given space. ArrayCalc provides a virtual platform for precisely predicting the actual performance of a system, taking account of level and switch selection, the alignment of flown and ground stacked loudspeakers and subwoofers, as well as safety parameters and rigging.

Whether a temporary or permanent solution, modelling any d&b system flows smoothly through each step and decision. Ultimately all final data, including specified loudspeaker types and amplifier settings, is integrated within the d&b R1 Remote control software.

Laura Turner Concert Hall, Nashville, TN, US

Optimization.

What's more, ArrayCalc's optional ArrayProcessing feature optimizes the tonal (spectral) and level (spatial) balance of line array systems across an entire listening area, as defined by its mechanical vertical coverage angle. Within the d&b ArrayCalc simulation software, spectral and level performance targets over the listening areas can be defined while specific level drops or offsets can be applied to certain areas, to assign reduced level zones.

ArrayProcessing applies a combination of FIR and IIR filters to each individual cabinet in an array to achieve the targeted performance, with an additional latency of only 5.9 ms. This significantly improves the consistency of frequency response over distance, and clarity, as well as seamlessly correcting for air absorption. In addition, ArrayProcessing employs the same frequency response targets for all d&b line arrays, to ensure all systems share a common tonality. This provides consistent sonic results regardless of array length or splay settings. The resulting coverage is enhanced with spectral consistency and defined level distribution, achieving more linear dispersion and total system directivity to cover longer distances or steep listening areas more effectively.

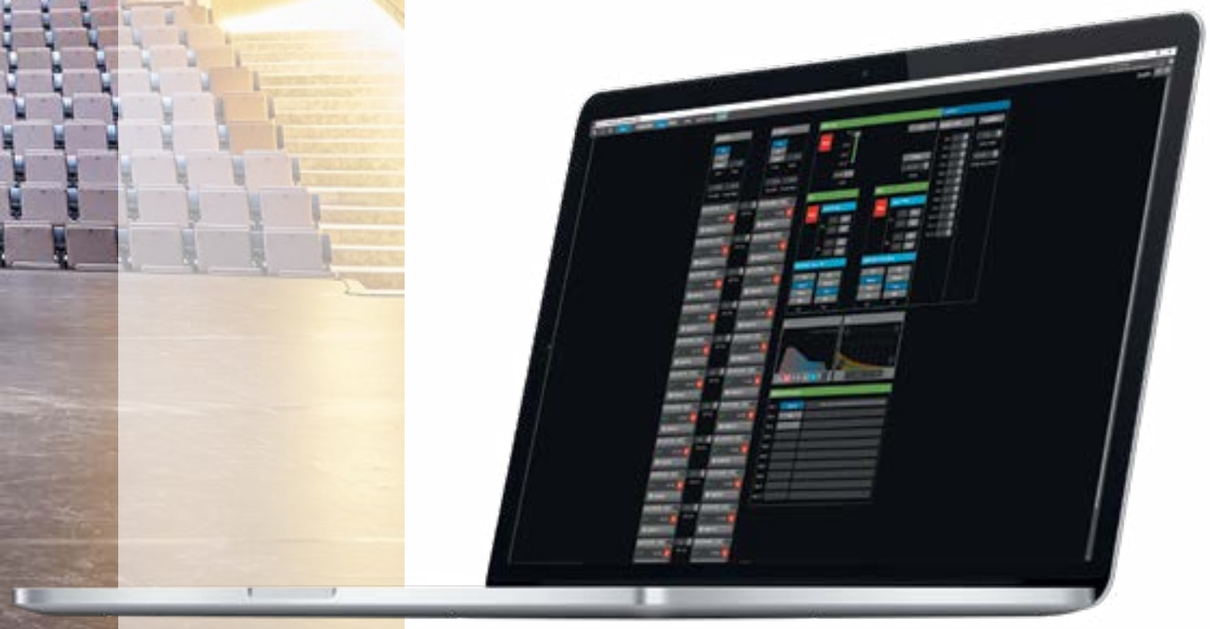
Holon Theatre, Israel

Remote control.

The d&b R1 Remote control software transforms the ArrayCalc simulation data into a project specific user interface, in which the system is presented graphically, channel by channel, loudspeaker by loudspeaker, grouped functionally as well as visually.

This is the foundation, the depiction of everything to be controlled and monitored: a complete system configuration. Faders, buttons, dials and displays to control equalization, delay, CUT, HFA, HFC, Coupling, Mute and Power, and for preparation in advance, even an offline mode is included. The R1 Remote control software is the virtual centre of any d&b Remote network, unlocking a relaxed approach to managing the d&b amplifiers wherever they may be located; be it from a laptop in the control room, mix position or somewhere in the auditorium.

The R90 Touchscreen remote control puts the power to operate a preconfigured d&b system into anyone's hands, without needing expert level knowledge of audio. An intuitive graphical user interface provides one-touch control over power, mute, level, grouping and recall of up to nine AmpPresets. R90 functions entirely independently of R1 and eliminates any risk of accidental changes at the system level. Setup and configuration of R90 project settings can be accomplished quickly and easily, after which everyday activities can be managed without a technician present.



De Factorij, Zaventem, Belgium

Integration and interoperability.

The d&b amplifiers are designed for permanent installation and complete integration with their surroundings. To ensure that a d&b system satisfies the demands of general operation or an emergency situation, the d&b amplifiers provide Input and Load monitoring functions and System check, which ensures the system will perform exactly as intended by monitoring the signal from the input source to the actual loudspeaker. The Fallback and Override functions guarantee that emergency and secondary signals are transmitted when required, automatically switching from the program material to a defined input source. In real terms, this means that the d&b amplifiers are prepared for any situation, in any environment.

In any modern AV and performance audio installation interoperability is key. Whether it's the smallest conference room or largest stadium sonic excellence and extensive, fully customizable functionality is the crucial combination. A permanently installed loudspeaker system must integrate with existing infrastructure, offer a seamless user interface, and provide neutral sound reinforcement for speech and music.

The 5D, 10D, 30D, 40D and D80 amplifiers are controlled via Ethernet using the Open Control Architecture (OCA/AES70) protocol. To improve interoperability even further, the d&b plug-ins can integrate with digital mixing consoles from DiGiCo Avid and Lawo as well as networking solutions from Q-SYS, MediaMatrix, AMX, Crestron and Beckhoff, providing access to the complete audio system via an external control interface.

Schauspielhaus, Düsseldorf, Germany

Amplifiers.

The all-embracing functionality of the d&b amplifiers can be accessed via the d&b Remote network, providing all the power to effectively control. All d&b amplifiers incorporate sophisticated Digital Signal Processing capabilities for comprehensive loudspeaker management, switchable filter functions, remote capabilities and user-definable controls. Not only that; every d&b amplifier features analog and AES3 digital inputs for each channel, Overvoltage protection, temperature and signal controlled cooling and switch mode power supplies.

The d&b amplifiers are designed specifically to power d&b loudspeakers and are the beating heart of all d&b systems. The four channel 10D, 30D and 40D amplifiers provide two user-definable 16-band equalizers with parametric, notch, shelving and asymmetric filters and up to 10 seconds of delay, all of which can be applied to each of the four channels. The 5D amplifier comes with Dante integrated networking, a 8-band equalizer and up to 300 ms of delay. These amplifiers all provide active Power Factor Correction, providing unparalleled performance and absolute efficiency.

The 5D, 10D, 30D and 40D are dedicated to installation systems and as such, perfectly fulfil the needs of any permanent sound reinforcement requirement. Whether discreetly integrating inside a venue or operating in a rider driven performance space, these devices provide installation specific functionalities, including enhanced system status monitoring features and GPIOs for extended input routing capabilities.

All in all, the amplifiers do more than drive d&b loudspeakers. They realize the full potential of the d&b system approach.

1OAK Club, Tokyo, Japan

Amplifiers.

Amplifiers	5D	10D	30D	40D	D80
User interface	LED indicators	LED indicators	LED indicators	Colour TFT touchscreen	Encoder / colour TFT touchscreen
Input channels	4 x Dante and 4 x analog	4 x AES3 and 4 x analog	4 x AES3 and 4 x analog	4 x AES3 and 4 x analog	4 x AES3 or 4 x analog or 2 x AES3 and 2 x analog
Output channels	4	4	4	4	4
Output connectors	Phoenix Euroblock	Phoenix Euroblock	Phoenix Euroblock	Phoenix Euroblock	NL4 / EP5 plus central NL8
Output routing	Dual Channel, Mix TOP/SUB and 2-Way Active	Dual Channel, Mix TOP/SUB and 2-Way Active	Dual Channel, Mix TOP/SUB and 2-Way Active	Dual Channel, Mix TOP/SUB and 2-Way Active	Dual Channel, Mix TOP/SUB and 2-Way Active
Rated output power	4 x 600 W into 8 Ω 4 x 600 W into 4 Ω	4 x 350 W into 8 Ω 4 x 700 W into 4 Ω	4 x 800 W into 8 Ω 4 x 1600 W into 4 Ω	4 x 2000 W into 4/8 Ω	4 x 2000 W into 8 Ω 4 x 4000 W into 4 Ω
Cable compensation	LoadMatch	LoadMatch	LoadMatch	LoadMatch	LoadMatch
Latency	1.1 msex (analog), <4 msec (Dante)	0.3 ms	0.3 ms	0.3 ms	0.3 ms
Delay	1.1 - 300 msec	10 sec / 3440 m	10 sec / 3440 m	10 sec / 3440 m	10 sec / 3440 m
User equalizers (per channel)	8-band	2 x 16-band	2 x 16-band	2 x 16-band	2 x 16-band
Remote	OCA / AES70 via Ethernet	OCA / AES70 via Ethernet, CAN	OCA / AES70 via Ethernet, CAN	OCA / AES70 via Ethernet	OCA / AES70 via Ethernet, CAN
Power Supply	Universal range switched mode power supply with active PFC	Universal range switched mode power supply with active PFC	Universal range switched mode power supply with active PFC	Autosensing switched mode power supply with active PFC	Autosensing switched mode power supply with active PFC
Mains voltage	100 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 127 / 208 - 240 V, 50 - 60 Hz	100 - 127 / 208 - 240 V, 50 - 60 Hz
Dimensions (H x W x D)	1 RU x 9,5" x 405 mm	2 RU x 19" x 435 mm	2 RU x 19" x 435 mm	2 RU x 19" x 465 mm	2 RU x 19" x 530 mm
Weight kg	4.6	10.6	10.6	13.3	19
Weight lb	10	23.4	23.4	29.3	42

Johan-Cruyff-Arena, Amsterdam, Netherlands

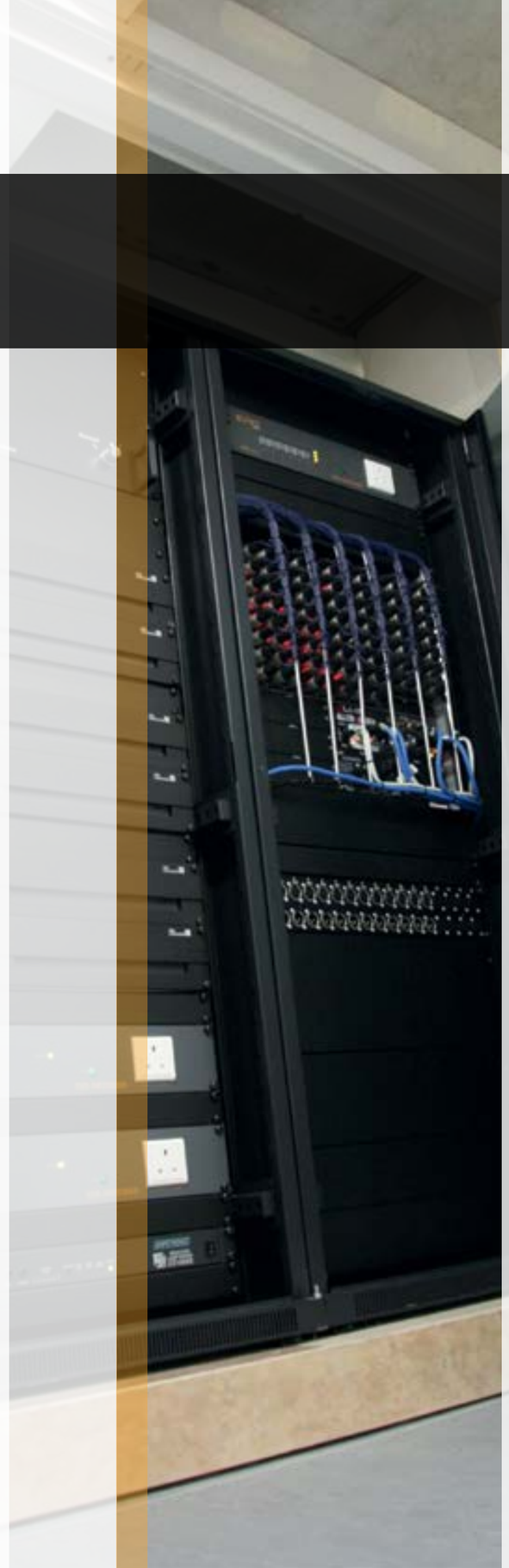
d&b reserves the right to make any necessary changes to the products and the published specifications.
As part of the ongoing development program d&b tries to maintain the highest degree of product compatibility.

Audio networking.

The benefits of a networked audio approach are clear: less cabling, efficient infrastructure, improved interoperability and simple routing. But networking means more to d&b than just an audio transport solution. d&b systems can receive audio via Ethernet through the Dante transport protocol using the DS10 Audio network bridge, or via the Milan transport protocol using the DS20 Audio network bridge.

These 1 RU device provides 16 AES3 outputs, 4 AES3 inputs and an integrated 5-port switch, offering a primary and redundant network. The DS20 5-port switch is fully AVB enabled, while the DS10 offers special functions such as Multicast Filtering and VLAN modes.The four channel d&b amplifiers are controlled using the Open Control Architecture protocol (OCA/AES70) via Ethernet.

Using the DS10 or DS20, remote control data and audio signals are transported using a single network cable. Convenient audio networking ensuring devices integrate seamlessly with the d&b system approach.



City Gates Church, Ilford, UK

Distribution.

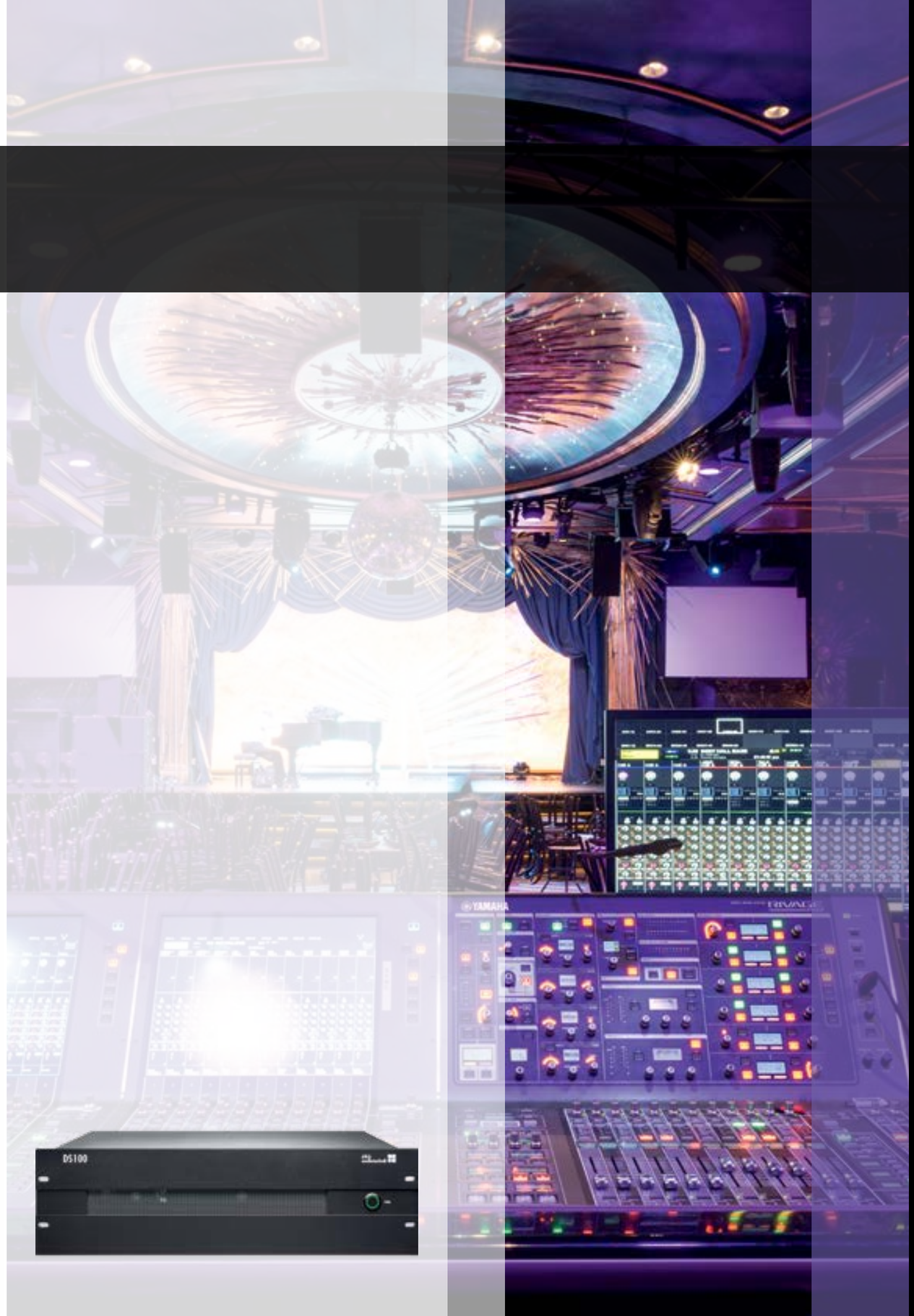
The d&b Soundscape is sound as you feel it, sound as you see it, sound as it is meant to be heard. Powered by the DS100 Signal Engine, a revolutionary audio processor with Audinate Dante networking. It provides a 64 x 64 audio matrix with level and delay adjustments at all cross points. The comprehensive input processing provides gain, EQ, delay and polarity switches, enabling the user to combine all types of input signals to create a mix from a wide variety of sources. Extended processing capabilities are also provided on every output.

The DS100 is a versatile tool for use within complex audio systems to route and distribute multiple audio channels to numerous amplifiers driving loudspeaker positions and zones, show relay and break out rooms.

The DS100 completely integrates with the overall d&b system approach: The complete system is designed and optimized in the d&b ArrayCalc simulation software, and controlled via the d&b R1 Remote control software. d&b Soundscape provides additional creativity through its two software modules En-Scene and En-Space.

To put it short: the aural environments created by the DS100 Signal Engine and d&b Soundscape are audio solutions delivering benefit to all involved – to the sound designer, to the engineer, to the artist, and to the audience.

Sony Hall, New York, NY, US



d&b Soundscape.

xS-Series.

The extensive xS-Series provides a wide variety of size, output power and dispersion patterns to satisfy the exact demands of a permanent application and is the ideal solution for installation.

With their unobtrusive cabinet design the xS loudspeakers are ideally positioned within a variety of venues including restaurants, bars, lounges, conference and meeting facilities, assembly halls and lecture theatres. For added flexibility rotatable horns enable the loudspeakers to be deployed in either orientation while the cardioid subwoofer technology delivers low frequencies exactly where they're needed and not behind the system. For applications with greater demands, the 24S, 24S-D and 21S-SUB sit at a higher performance level, offering an extended frequency response, increased directivity control and a higher output for improved speech intelligibility and higher gain before feedback in nightclubs, theatres, medium sized sport and multipurpose halls and houses of worship.

All xS-Series cabinets and accessories come in black as standard with the exception of 4S, 5S, 8S and the 12S-SUB, which are also available in white as standard, together with their respective accessories.

All xS cabinets are available matched to any custom colours such as RAL or NCS, while a Weather Resistant option provides an IP54 or in some cases IP55 rating for protection against adverse weather conditions. A Sea Water Resistant (SWR) option is also available. The 10S/10S-D, 12S/12S-D and 24S/24S-D loudspeaker enclosures are Ball Impact Resistant according to DIN 18032-3 for sports and multi-purpose halls.

The Court, London, UK

xS-Series.

xS-Series	44S	4S	5S	8S	10S • 10S-D	12S • 12S-D	24S • 24S-D
Components	2 x 4,5"/ 2 x 1.25"	4"/0.75" coaxial	5"/ 1" coaxial	8"/1" coaxial	10"/1.4"	12"/1.4"	2 x 12"/1.4" CD
Output (1m)[1] with 10D	121 dB SPL	114 dB SPL	117 dB SPL	124 dB SPL	127 • 127 dB SPL	130 • 130 dB SPL	
Output (1m)[1] with 30D	123 dB SPL	115 dB SPL	118 dB SPL	127 dB SPL	130 • 130 dB SPL	133 • 133 dB SPL	138 • 137 dB SPL
Output (1m)[1] with D80/40D	123 dB SPL	115 dB SPL	118 dB SPL	127 dB SPL	130 • 130 dB SPL	133 • 133 dB SPL	138 • 137 dB SPL
Power rating[2]	150/500 W	60/400 W	60/400 W	150/800 W	200/1200 W	300/1600 W	500/2000 W
Frequency response (–5 dB)	150 Hz – 17 kHz	130 Hz – 20 kHz	80 Hz – 20 kHz	70 Hz – 20 kHz	60 Hz – 18 kHz	48 Hz – 18 kHz	55 Hz – 18 kHz
Dispersion (H x V)	90° x 30°	100° conical	100° conical	100° conical	75° x 50° CD[3] • 110° x 55° CD[3]	75° x 50° CD[3] • 110° x 55° CD[3]	75° x 45° CD[3] • 110° x 45° CD[3]
Cabinets per amplifier channel	4	4	4	4	3	2	1
Dimensions mm (H x W x D)	390 x 128 x 150	150 x 120 x 102	240 x 164 x 160	352 x 224 x 205	580 x 283 x 350	638 x 338 x 365	800 x 410 x 420
Weight kg	3,6	1	2.5	7.4	13	17	33
Dimension inch (H x W x D)	15.3 x 5 x 5.9	5.9 x 4.7 x 4	9.4 x 6.5 x 6.3	13.9 x 8.8 x 8.1	22.8 x 11.1 x 13.8	25.1 x 13.3 x 14.4	31.5 x 16 x 16.5
Weight lb	8	2.2	5.5	16.3	29	37	73

CD: loudspeaker with constant directivity horn [1]SPL_{max} peak, test signal: pink noise with crest factor 4 [2]RMS / peak [3]horn 90° rotatable

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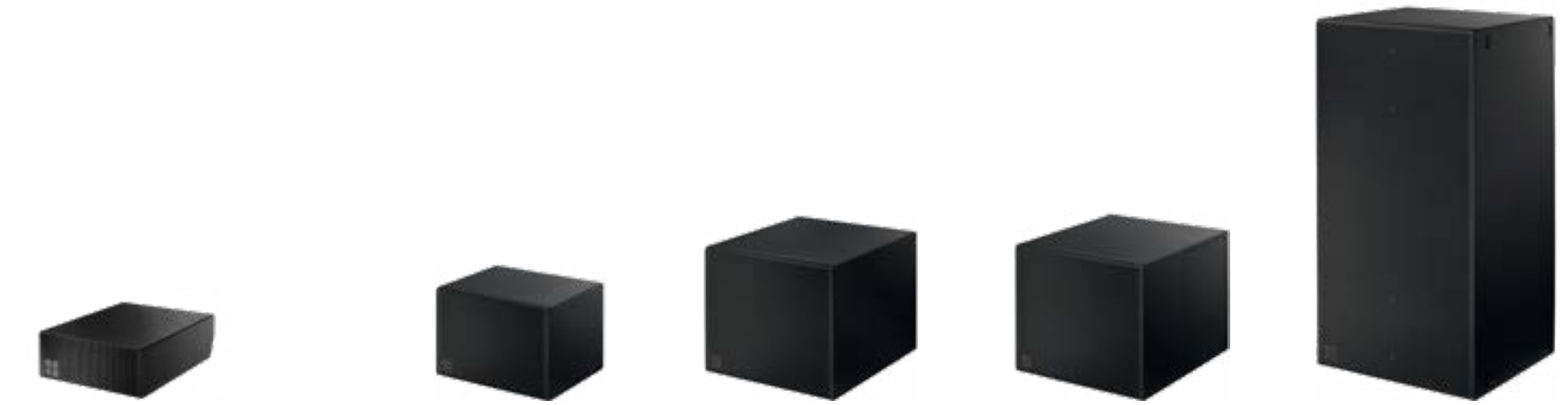
Si Cuisine & Mixology, Hanoi, Vietnam

xS-Series.



xS-Series	Bi8-SUB	12S-SUB	18S-SUB	27S-SUB	21S-SUB
Components	2 x 6,5"	12"	18"	front 15" / rear 12"	21"
Output (1m)[1] with 10D	120 dB	124 dB	129 dB	128 dB	
Output (1m)[1] with 30D	122 dB	127 dB	132 dB	131 dB	134 dB
Output (1m)[1] with D80/40D	122 dB	127 dB	132 dB	131 dB	135 dB
Power rating[2]	200 / 800 W	300 / 1600 W	400 / 1600 W	500 / 2000 W	650 / 2600 W
Frequency response (–5 dB)	43 Hz – 170 Hz	45 Hz – 130 Hz	37 Hz – 140 Hz	40 Hz – 140 Hz	35 Hz – 105 Hz / 33 Hz – 85 Hz[3]
Dispersion (H x V)	omni directional	omni directional	omni directional	cardioid	omni directional
Cabinets per amplifier channel	2	2	2	2	1
Dimensions mm (H x W x D)	170 x 436 x 580	354 x 530 x 448	490 x 580 x 700	490 x 580 x 700	1100 x 580 x 526
Weight kg	17	16	32	41	54
Dimension inch (H x W x D)	6.7 x 17.2 x 22.8	13.9 x 20.9 x 17.6	19.3 x 22.8 x 27.6	19.3 x 22.8 x 27.6	43.3 x 22.8 x 20.7
Weight lb	35	35	71	90	119

[1] SPL_{max} peak, test signal: pink noise with crest factor 4 [2] RMS / peak [3] Standard mode / INFRA mode

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Bar Fritz'n Potsdam, Germany

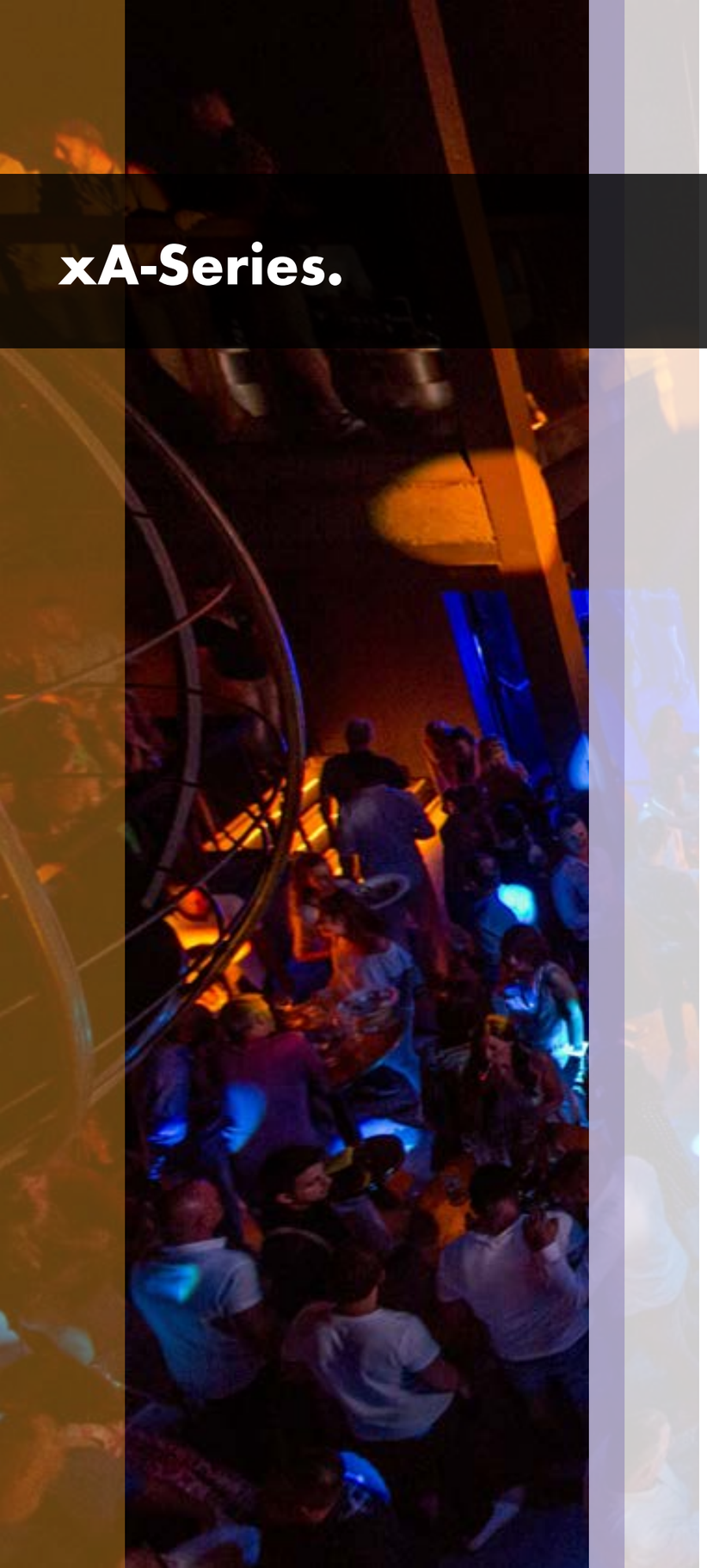
xA-Series.

With its clean, lightweight design and narrow and wide dispersion options the arrayable xA-Series fits stylishly and efficiently within a wide variety of applications, including houses of worship, small to medium sized sports venues, opera houses, town halls and nightclubs.

This scalable system comprises two horizontally or vertically arrayable point sources and two line array loudspeakers for vertical deployment. Providing a frequency response from 60 Hz to 18 kHz, the point sources can be used as a full range system or supplemented by either the xA or xS-Series subwoofers. The line array modules can be flown independently or underneath the cardioid 27A-SUB, which significantly reduces the reverberant field at low frequencies and provides exceptional accuracy in low frequency reproduction.

All xA cabinets are available matched to any custom colours such as RAL or NCS, while a Weather Resistant option provides an IP54 or in some cases IP55 rating for protection against adverse weather conditions. A Sea Water Resistant (SWR) option is also available. All xA-Series enclosures are Ball Impact Resistant according to DIN 18032-3 for sports and multipurpose halls.

Central the Club, Split, Croatia



xA-Series.

xA-Series	10A • 10A-D	10AL • 10AL-D	18A-SUB	27A-SUB
Components	10"/1.4"	10"/2 x 1"	18"	front 15"/rear 12"
Output (1m)[1] with 10D	127 • 127 dB SPL	130 • 129 dB SPL	129 dB SPL	128 dB SPL
Output (1m)[1] with 30D	130 • 130 dB SPL	133 • 132 dB SPL	132 dB SPL	131 dB SPL
Output (1m)[1] with D80/40D	130 • 130 dB SPL	133 • 132 dB SPL	132 dB SPL	131 dB SPL
Power rating[2]	200/1200 W	200/1200 W	400/1600 W	500/2000 W
Frequency response (–5 dB)	60 Hz – 18 kHz	60 Hz – 18 kHz	37 Hz – 140 Hz	40 Hz – 140 Hz
Dispersion (H x V)	75° x 50° CD[3] • 110° x 55° CD[3]	75° x (0° – 15°) • 105° x (0° – 15°)	omni directional	cardioid
Cabinets per amplifier channel	3	3	2	2
Dimensions mm (H x W x D)	283 x 580 x 350	283 x 580 x 350	488 x 580 x 700	488 x 580 x 700
Weight kg	14	14	32	41
Dimensions inch (H x W x D)	11.1 x 22.8 x 13.8	11.1 x 22.8 x 13.8	19.2 x 22.8 x 27.6	19.2 x 22.8 x 27.6
Weight lb	31	31	71	90

CD: loudspeaker with constant directivity horn [1]SPL_{max} peak, test signal: pink noise with crest factor 4 [2]RMS/peak [3]horn 90° rotatable

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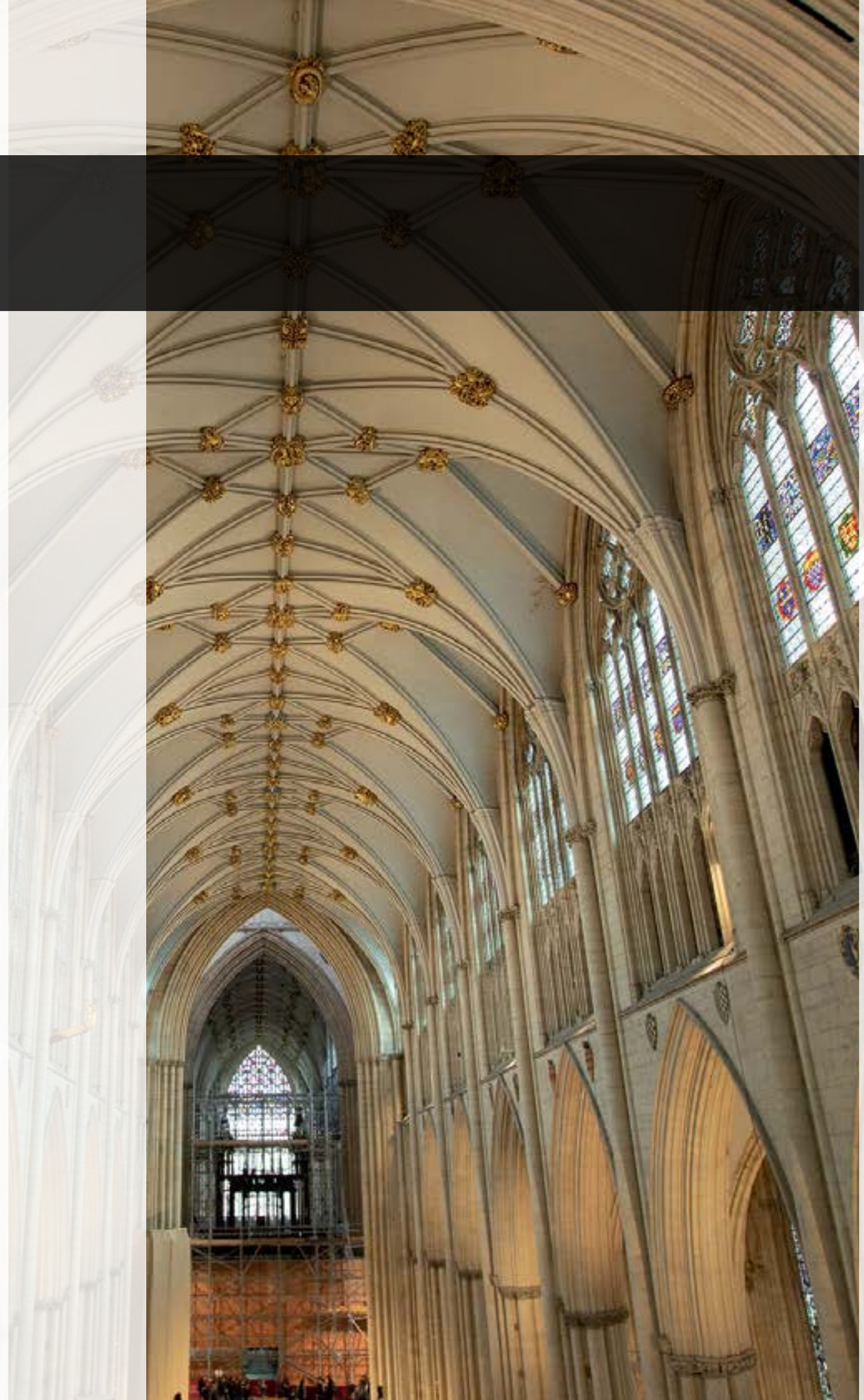
Central the Club, Split, Croatia

xC-Series.

The 2-way passive xC-Series column loudspeakers are elegantly engineered to provide effective, discreet solutions for acoustically challenging environments.

The streamlined 16C, 24C and 24C-E all incorporate 4" drivers in a special design radiating through waveguide elements at the front and damped ports at the rear of the cabinet. The resulting cardioid dispersion pattern, along with a nominal dispersion angle of no more than 90° minimizes side emissions caused by wall reflections in the low and mid frequencies, eliminating cancellations and reducing the stimulation of the reverberant field, and increasing gain before feedback. Furthermore, the 24C loudspeaker achieves remarkable vertical directivity control down to 370 Hz, which is increased by a complete octave when attached to the dedicated 24C-E column extender. The 24C features a HF array with a nominal 20° vertical dispersion, which is mechanically adjustable from 0° to –14° to exactly target the audience listening area.

All xC cabinets are fitted with two continuous rails at the rear, enabling the loudspeakers to be fitted as close and parallel to the wall as possible. Extensive customization is not available with d&b column loudspeakers. However, the xC-Series is available in black or white as standard or specially colour matched to interiors, and guarantee maximum intelligibility with minimal visual disturbance.



York Minster, UK

xC-Series.

xC-Series	16C	24C	24C + 24C-E	24C-E	Bi8-SUB
Components	4 x 4" / 0.75" [3]	6 x 4" / 6 x 1.1" [4]	12 x 4" / 6 x 1.1" [4]	6 x 4"	2 x 6,5"
Output (1m)[1] with 10D	122 dB SPL	126 dB SPL	128 dB SPL		120 dB SPL
Output (1m)[1] with 5D/30D	122 dB SPL	126 dB SPL	128 dB SPL		122 dB SPL
Output (1m)[1] with D80/40D	122 dB SPL	126 dB SPL	128 dB SPL		122 dB SPL
Power rating[2]	100 / 500 W	125 / 600 W	250 / 1200 W	125 / 600 W	200 / 800 W
Frequency response (–5 dB)	110 Hz – 18 kHz	110 Hz – 17 kHz	110 Hz – 17 kHz		43 Hz – 170 Hz
Dispersion (H x V)	90° x 40° CD[3]	90° x 20°	90° x 20°		omni directional
Vertical aiming of LF / MF beam		-5°	-5°		
Vertical adjustment of HF section		0° to -14°	0° to -14°		
Cabinets per amplifier channel	3	2	1		2
Dimensions mm (H x W x D)	650 x 125 x 124	1000 x 125 x 124	1695 x 125 x 124	701 x 125 x 124	170 x 436 x 580
Weight kg	5	9	16	7	17
Dimensions inch (H x W x D)	25.6 x 4.9 x 4.9	39.4 x 4.9 x 4.9	66.7 x 4.9 x 4.9	27.6 x 4.9 x 4.9	6.7 x 17.2 x 22.8
Weight lb	11	19.8	35	15.4	38

CD: loudspeaker with constant directivity horn [1] SPL_{max} peak, test signal: pink noise with crest factor 4 [2] RMS / peak [3] Compression driver on CD horn
[4] Dome tweeter in vertical horn array

Riverside Church, New York, NY, US
Photo Jason Woodruff

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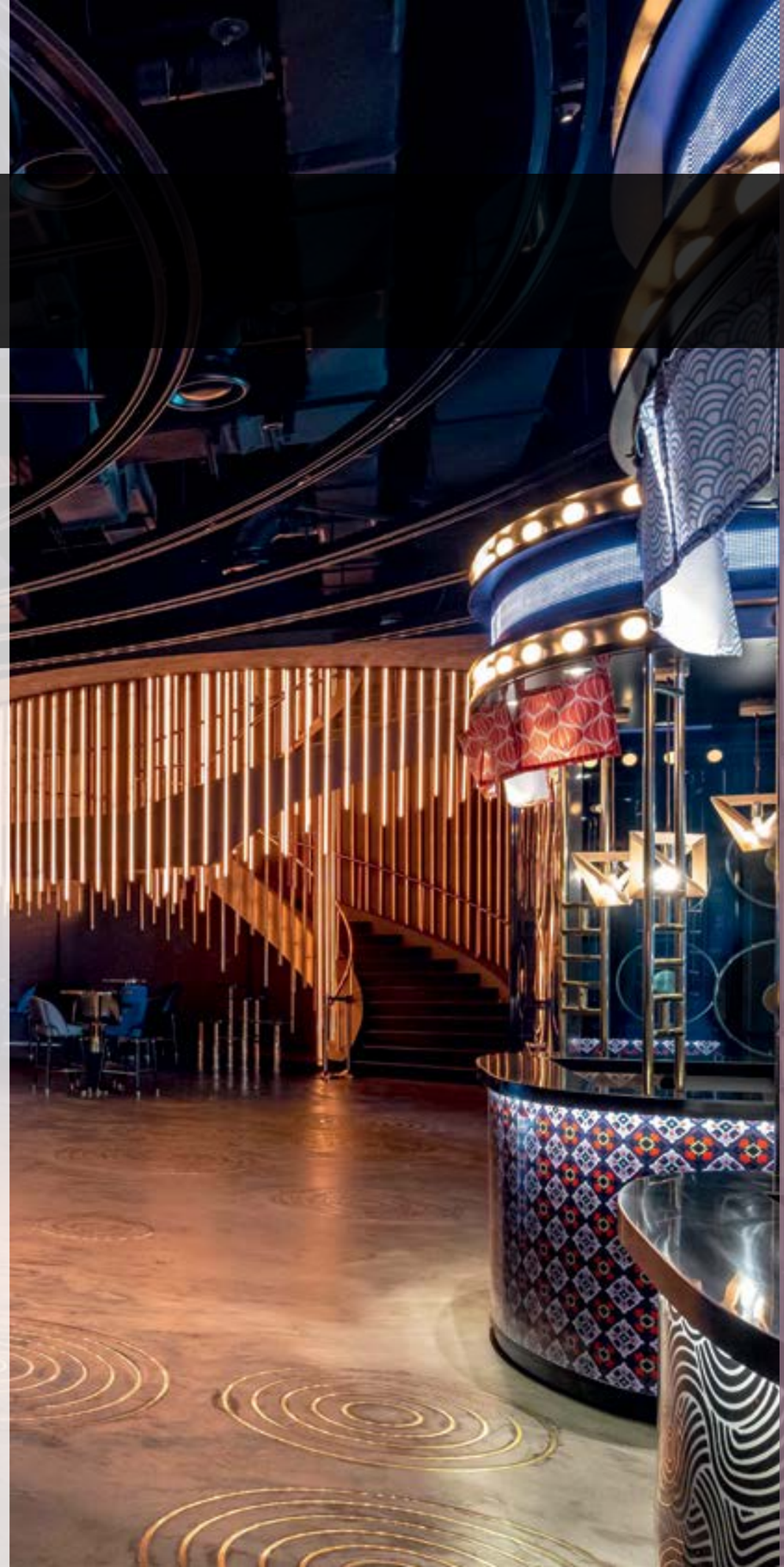
E-Series.

Quick and easy to handle, the E-Series offers elegant solutions for speech, music and distributed reinforcement and, without being modest, performs impressively as stand-alone, full range, flown or high stand, surround, delay and fill, even as stage monitors.

The tiniest E-Series loudspeaker is a tad taller than a postcard, while the biggest measures a mere 58 cm in height. Together, the coaxial E4, E5, E6, E8 and E12/E12-D present a d&b product Series as varied as it is versatile. The cabinets, functionally formed, with robust, lightweight enclosures and bespoke hardware, can be deployed horizontally or vertically providing added flexibility. With their ultra compact design and finely scaled formats, along with remarkable output and performance levels, the E-Series ensemble provides the answer to a broad spectrum of production requirements.

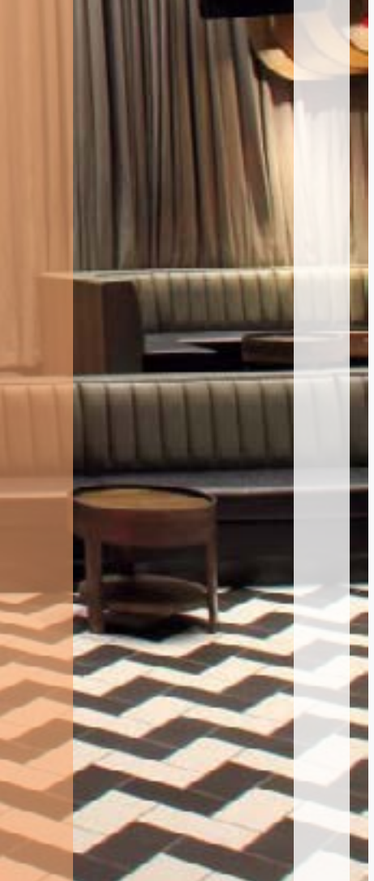
Several d&b-subwoofers provide substantial bass extension for all E-Series loudspeakers. The E12X-SUB and E15X-SUB subwoofers can be operated in two modes, an active mode with a dedicated amplifier configuration, or passively using the internal crossover connected in parallel with either an E8 loudspeaker for the E12X-SUB or an E12 loudspeaker for the E15X-SUB driven from a single amplifier channel. The B8-SUB is an ultra-low profile compact subwoofer measuring just 170 mm in height. Precisely tuned drivers achieve an impressive low frequency extension down to 43 Hz, rivalling the performance of a 12" subwoofer, yet with only about half the cabinet volume.

For ground stacked applications, the actively driven B4-SUB requires just a single amplifier channel to create a cardioid dispersion pattern, which avoids the transmission of energy towards the rear. Finally, to meet the specific needs of each and every application, the loudspeakers are available in custom colours and can be weather protected. In short: an earnest little Series.



Paradise Casino Hotel & Club Chroma, Incheon, South Korea

E-Series.



E-Series	E4	E5	E6	E8	E12 • E12-D	B8-SUB	E12X-SUB	E15X-SUB	B4-SUB
Components	4"/0.75" coaxial	5"/1" coaxial	6.5"/1" coaxial	8"/1" coaxial	12"/1.3" coaxial	2 x 6,5"	12"	15"	Front 15"/Rear 12"
Output (1m)[1] with 10D	114 dB SPL	116 dB SPL	120 dB SPL	126 dB SPL	131 dB SPL • 130 dB SPL	120 dB SPL	124 dB SPL	127 dB SPL	128 dB SPL
Output (1m)[1] with 30D	115 dB SPL	117 dB SPL	123 dB SPL	129 dB SPL	134 dB SPL • 133 dB SPL	122 dB SPL	127 dB SPL	130 dB SPL	131 dB SPL
Output (1m)[1] with D80/40D	115 dB SPL	117 dB SPL	123 dB SPL	129 dB SPL	134 dB SPL • 133 dB SPL	122 dB SPL	127 dB SPL	130 dB SPL	131 dB SPL
Power rating[2]	60/400 W	60/400 W	150/800 W	150/800 W	300/1600 W	200/800 W	300/1600 W	300/1600 W	500/2000 W
Frequency response (–5 dB)	130 Hz – 20 kHz	85 Hz – 20 kHz	85 Hz – 20 kHz	62 Hz – 18 kHz	50 Hz – 18 kHz	43 Hz – 170 Hz	45 Hz – 100 Hz	37 Hz – 140 Hz	40 Hz – 150 Hz
Dispersion (H x V)	100° conical	100° conical	100° x 55° CD[3]	90° x 50° CD[3]	80° x 50° CD[3] 110° x 50° CD[3]	omni directional	omni directional	omni directional	cardioid
Cabinets per amplifier channel	4	4	4	4	2	2	2	2	2
Dimensions mm (H x W x D)	150 x 120 x 106	230 x 154 x 155	300 x 188 x 175	390 x 232 x 223	580 x 350 x 334	170 x 436 x 580	358 x 530 x 448	426 x 530 x 550	476 x 580 x 700[4]
Weight kg	1.1	2.7	5	7.3	16	17	18	24	44
Dimensions inch (H x W x D)	5.9 x 4.7 x 4.2	9 x 6 x 6.1	11.8 x 7.4 x 7	15.4 x 9.1 x 8.8	22.8 x 13.8 x 13.2	6.7 x 17.2 x 22.8	14.1 x 20.9 x 17.6	16.8 x 20.9 x 21.7	18.7 x 22.8 x 27.7
Weight lb	2.4	6	11	16.1	35	38	40	53	97

1OAK Club, Tokyo, Japan

CD: loudspeaker with constant directivity horn [1]SPL_{max} peak, test signal: pink noise with crest factor 4 [2]RMS/peak [3]horn 90° rotatable [4]dimensions without wheels

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A-Series.

What do you call a sound reinforcement tool that combines the ease of point source clusters with the level and frequency distribution of line arrays? We call this system the A-Series.

Using the best elements of existing d&b system technology, the A-Series create an entirely new loudspeaker concept: the augmented array. Ideal for applications where point sources don't offer enough and a line array system would be too much.

Variable splay angles between adjacent A-Series cabinets can be set from 20° to 40° in 5° increments. Whether the coverage is narrow or broad, horizontal or vertical arrays, sound is directed only to where it should be and no further.

In keeping with the spirit of new concepts, the A-Series also includes a new acoustic refinement option in addition to the precise optimization of ArrayProcessing: Midrange Directivity Control. This function uses fewer amplifier channels than ArrayProcessing, while keeping midrange directivity symmetrical at every possible splay angle.

A-Series loudspeakers can be used as a single point source, DJ monitor, side fill, center fill, distributed sound reinforcement system or a main L/R system. Each array can be flown horizontally or vertically, with 2-4 speakers per array. A staggering number of mechanical setup possibilities accommodates an exceptionally large number of listening area layouts.

First Aid Kit, Stockholm, Sweden

A-Series.

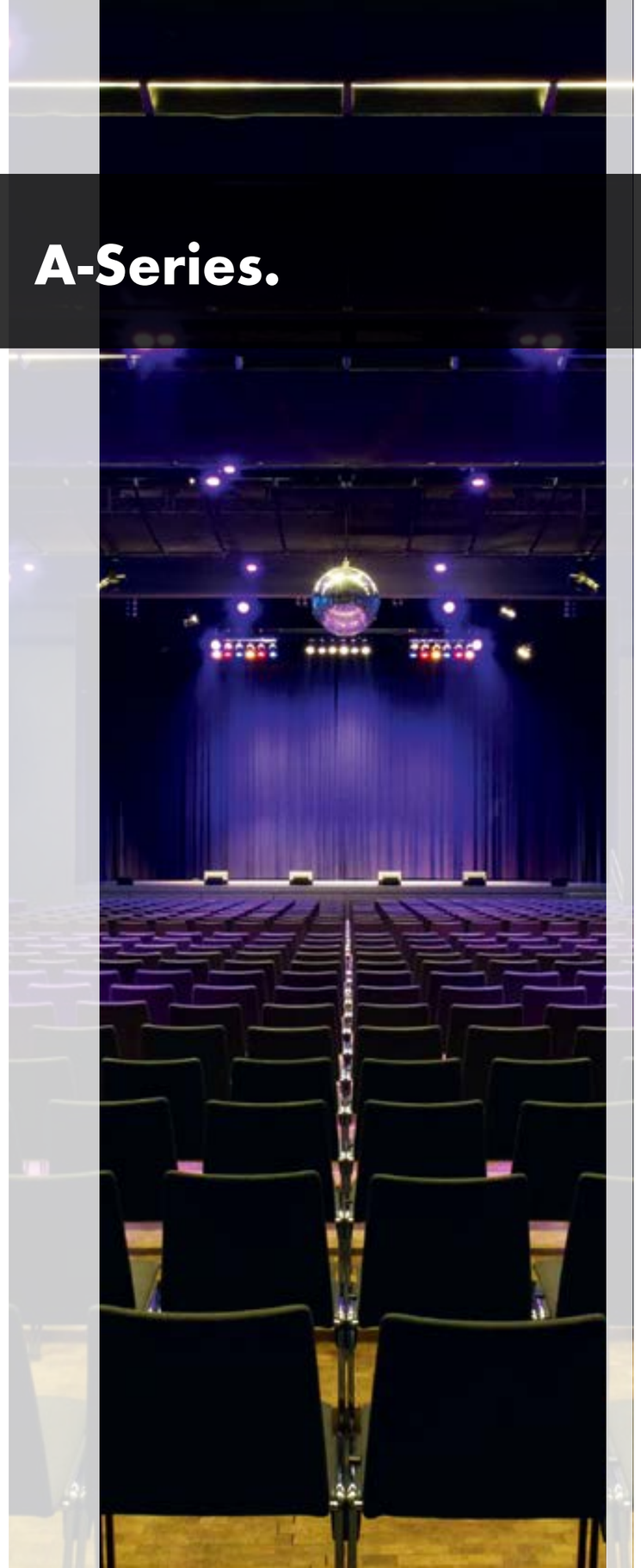
Two A-Series loudspeaker variants provide even further options: the ALi60 and ALi90 offer horizontal dispersion angles of 60° and 90° respectively, offering directivity control down to 550 Hz (ALi60) and 370 Hz (ALi90).

All A-Series loudspeakers house two 10" LF drivers and one 1.4" exit HF compression driver with a 3" diaphragm mounted to a dedicated wave shaping device. Coherent high frequency dispersion is maintained through sophisticated waveguide design, anyway each cabinet is splayed.

For low end extension, the A-Series was designed with the V-GSUB in mind, an actively driven high performance cardioid subwoofer powered by a single amplifier channel. But of course, as the A-Series stretches beyond flexibility there are many more options available, large or small.

Apollo Theater, New York, NY, US

A-Series.



Town hall, Troisdorf, Germany

A-Series	ALi60	ALi90
Components	2 x 10"/ 1 x 1.4"	2 x 10"/ 1 x 1.4"
Output (1m)[1] 30D	138 dB SPL	138 dB SPL
Output (1m)[1] D80/40D	139 dB SPL	139 dB SPL
Power rating[2]	400 / 1800 W	400 / 1800 W
Frequency response (–5 dB)	60 Hz – 18 kHz	60 Hz – 18 kHz
Dispersion (H x V horizontal setup)	60° x 30°	90° x 30°
Splay angle settings	20° - 40° (5° increments)	20° - 40° (5° increments)
Cabinets per amplifier channel	2[3] 1[4]	2[3] 1[4]
Dimensions mm (H x W x D)	322 x 700 x 356	322 x 700 x 356
Weight kg	23	23
Dimensions inch (H x W x D)	12.7 x 27.6 x 14	12.7 x 27.6 x 14
Weight lb	51	51

[1] SPL_{max} peak, test signal: pink noise with crest factor 4 [2] RMS / peak [3] with PS (Point Source) or MDC (Midrange Directivity Control) mode [4] with ArrayProcessing

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T-Series.

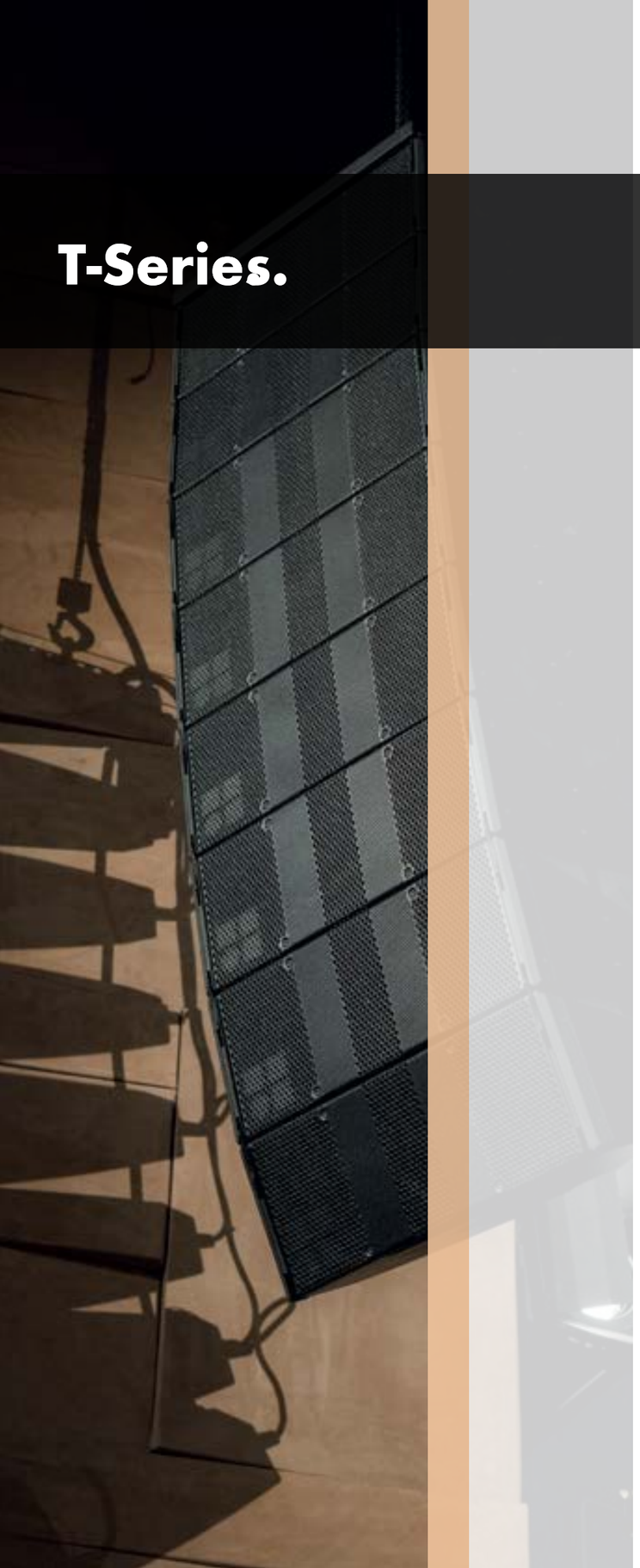
With their unobtrusive cabinet design, compact dimensions, high power and exemplary directivity control, the Ti loudspeakers are the ideal choice for speech and music reproduction in permanent, rider driven performance spaces; as multiple cabinet line arrays through to single, stand-alone point source solutions. The Ti10L, Ti10P and Ti-SUB are installation specific versions of the T-Series mobile loudspeakers.

All T-Series models are lightweight and entirely efficient, especially when considering up to four Ti10L/Ti10P loudspeakers can be linked together on a single amplifier channel. These loudspeakers both feature dipolar driver arrangements to achieve precise control of directivity and maintain this to the lowest possible frequency.

The Ti-SUB can either be ground stacked or flown at the top of a Ti10L array. The Ti cabinets possess smooth exteriors and discreet mounting hardware which can be colour matched for seamless integration, as well as being optionally protected to resist adverse weather conditions up to IP54 or in some cases IP55. Custom solutions also offers Sea Water Resistant (SWR) options.

Salzburg Festival, Austria

T-Series.



T-Series	Ti10L	Ti10P	Ti-SUB	B4-SUB
Components	2 x 6.5" / 1.4"	2 x 6.5" / 1.4"	15"	front 15" / rear 12"
Output Line / Arc setup (1m)[1] with 10D	129 dB SPL			
Output Line / Arc setup (1m)[1] with 30D/D80/40D	132 dB SPL			
Output PS setup (1m)[1] with D6/10D		127 dB SPL		
Output PS setup (1m)[1] with 30D/D80/40D		130 dB SPL		
Output (1m)[1] with D6/10D			127 dB SPL	128 dB SPL
Output (1m)[1] with 30D/D80/40D			130 dB SPL	131 dB SPL
Power rating[2]	200 / 800 W	200 / 800 W	300 / 1600 W	500 / 2000 W
Frequency response (–5 dB)	68 Hz – 18 kHz	68 Hz – 18 kHz	47 Hz – 140 Hz	40 Hz – 150 Hz
Dispersion line source (H)	105°			
Dispersion point source (H x V)		90° x 35°	omni directional	cardioid
Cabinets per amplifier channel	4	4	2	2
Dimensions mm (H x W x D)	197 x 470 x 300	470 x 197 x 300	431 x 470 x 400	476 x 580 x 700[3]
Weight kg	11	10.5	17	44
Dimensions inch (H x W x D)	7.8 x 18.5 x 11.8	18.5 x 7.8 x 11.8	17 x 18.5 x 15.8	18.7 x 22.8 x 27.7
Weight lb	24	23	37	97

[1] SPL_{max} peak, test signal: pink noise with crest factor 4 [2] RMS/peak

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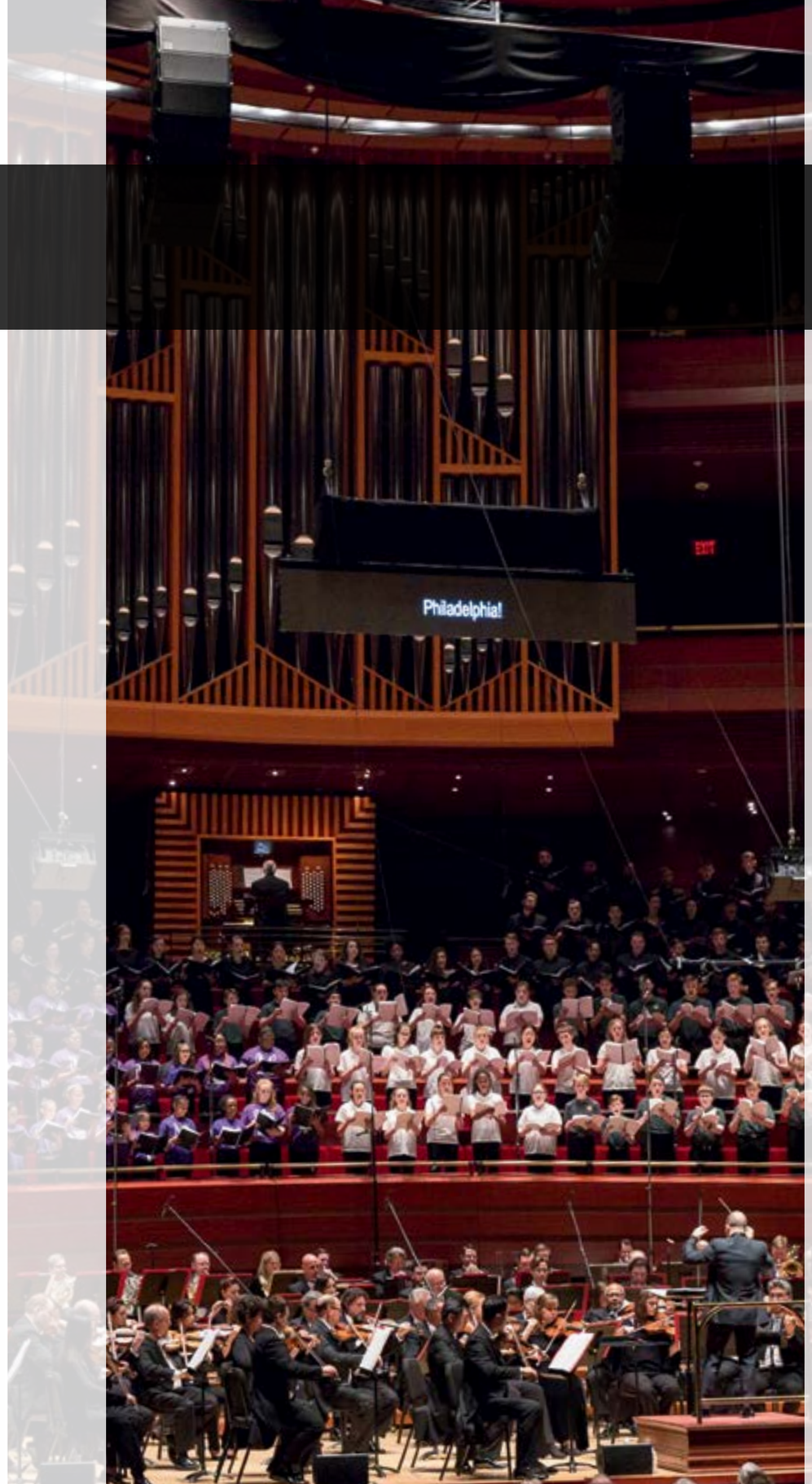
Madlenianum Opera and Theatre, Belgrade, Serbia

Y-Series.

With the epitome of 2-way passive line array loudspeakers and point sources, the all-encompassing Y-Series combines broadband directivity control withan extended LF performance, and a compact, unobtrusive design. The Y-Series is the flexible approach for all small to mid-sized permanent installations. The versatility of the Y-Series is matched with advanced components: drivers in dipole arrangements, innovative waveguides and port designs, as well as rotatable horns. In essence all Yi loudspeakers house two 8" low frequency drivers for transferring a vibrant and transparent performance, while a 1.4" compression driver delivers precise and velvety high frequencies.

The compact, passive 2-way Yi8 and Yi12 line array modules deliver, in turn, 80° and 120° horizontal dispersion, while sharing a frequency response extending from 54 Hz to 19 kHz controlled down to 500 Hz. Sophisticated horn geometry combined with the advanced bass-reflex port design delivers full bandwidth capabilities with an extended LF output.

The Yi-SUB is an actively driven cardioid subwoofer powered by a single amplifier channel. It houses two long excursion neodymium drivers in an integrated cardioid setup, an 18" driver in a bass-reflex chamber facing to the front and a 12" driver in a two chamber bandpass design radiating towards the rear. The cardioid dispersion pattern resulting from this arrangement avoids the distribution of energy behind the system.



Philadelphia Voices, Verizon Hall, PA, US
Photo Jessica Griffin

Y-Series.

The lightweight Yi7P and Yi10P point source loudspeakers offer horizontal dispersion angles of 75° and 110° respectively and ensure horizontal directivity control down to 500 Hz; beneficial especially in reverberant or acoustically challenging environments. Meanwhile the compact, passive 2-way Yi8 and Yi12 line array modules provide, in turn, 80° and 120° horizontal dispersion, while sharing a frequency response extending from 54 Hz to 19 kHz and patented, integrated three point rigging. The omnidirectional Bi6-SUB features an 18" driver and provides extended excursion capabilities, while the arrayable, cardioid Yi-SUB offers a precise and dry low end.

The Yi loudspeakers are designed for integration within permanent installations, differing from the mobile Y-Series in cabinet construction and mounting hardware. Custom Solutions can offer Variants for Stadiums (SVS), with no integral rigging components. Instead, they are mechanically supported by metal brackets specifically designed for the respective application. The Yi cabinets are coated with an impact resistant paint finish, with Special Colour (SC) matching available. A Weather Resistant (WR) option is available as needed, or for highly acidic environments such as cruise ships or coastal towns, Custom Solutions can provide a Sea Water Resistant (SWR) option.

De Factorij, Zaventem, Belgium

Y-Series.

Y-Series	Yi7P • Yi10P	Bi6-SUB	Yi8 • Yi12	Yi-SUB
Components	2 x 8"/1 x 1.4"	18"	2 x 8"/1 x 1.4"	Front 18"/Rear 12"
Output (1m)[1] with 10D	132 • 131 dB SPL	128 dB SPL	134 dB SPL	128 dB SPL
Output (1m)[1] with 30D	135 • 134 dB SPL	131 dB SPL	137 dB SPL	131 dB SPL
Output (1m)[1] with D80/40D	137 • 136 dB SPL	134 dB SPL	139 dB SPL	134 dB SPL
Power rating[2]	400/1600 W	500/2000 W	400/1600 W	600/2400 W
Frequency response (–5 dB)	59 Hz – 18 kHz	37 Hz – 140 Hz	54 Hz – 19 kHz	39 Hz – 140 Hz
Dispersion	75° • 110° x 40° CD (h x v)[3,4]	omni directional	80° • 120° (h)[3]	cardioid
Cabinets per amplifier channel	2	2	2	2
Dimensions mm (H x W x D)	580 x 257 x 341	490 x 580 x 700	257 x 630 x 375	500 x 630 x 700
Weight kg	18	38	20	49
Dimensions inch (H x W x D)	22.8 x 10 x 13.4	19.3 x 22.8 x 27.5	10 x 24.8 x 14.8	19.7 x 24.8 x 27.5
Weight lb	40	84	44	108

CD: loudspeaker with constant directivity horn [1]SPL_{max} peak, test signal: pink noise with crest factor 4 [2]RMS/peak [3]≥ 500 Hz [4]horn 90° rotatable

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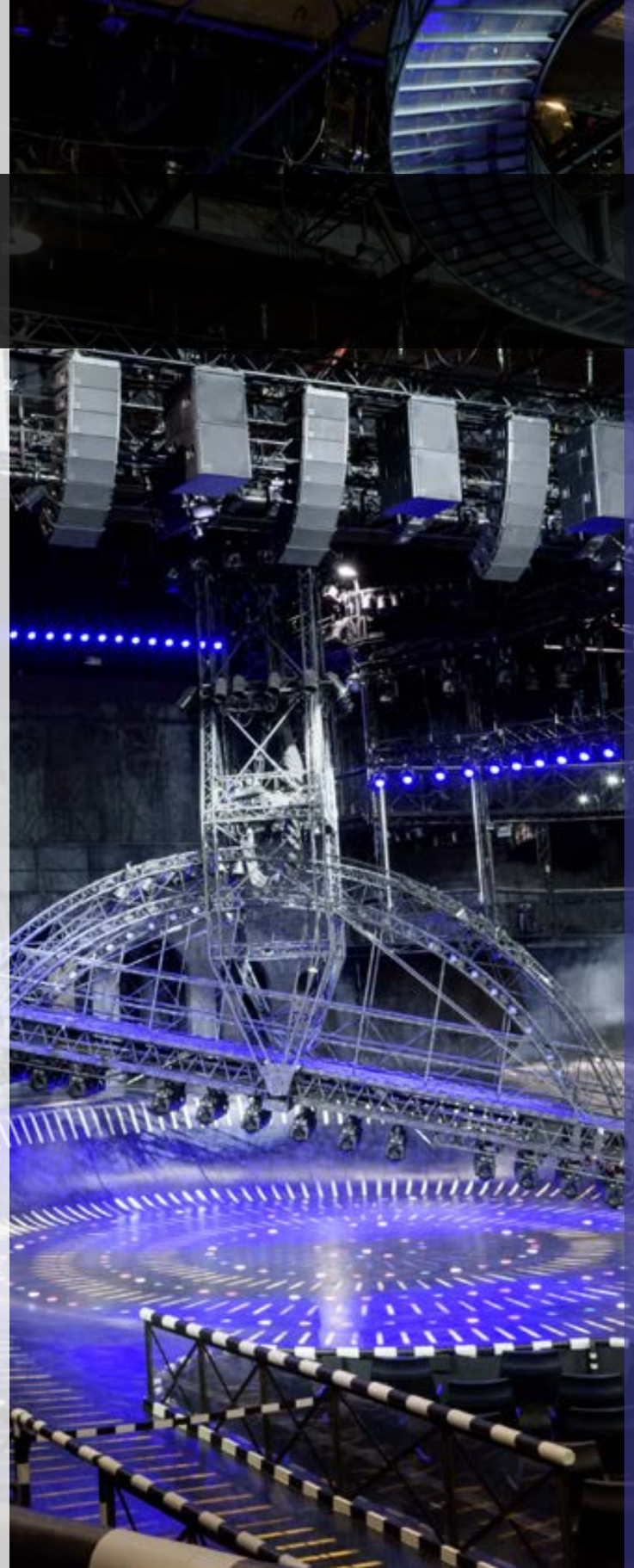
De Factorij, Zaventem, Belgium

V-Series.

The 3-way passive Vi loudspeakers are a verifiable recipe for success, comprising both line array and point source systems, each highly efficient with broadband directivity control to low frequencies. Intended for medium to large, rider driven live performance spaces, the cabinets are visually discreet to guarantee seamless integration in any permanent installation.

The 3-way passive Vi8 and Vi12 line array models provide 80° and 120° horizontal dispersion respectively, maintained down to 250 Hz. These loudspeakers are the installation specific versions of the mobile V-Series. They are not only compact, but blend effortlessly into surroundings with their sleek cabinet finish and integrated rigging. The Vi-SUB can be flown at the top of a Vi8 or Vi12 line array. This cardioid subwoofer is driven by a single amplifier channel, and provides an impressive rejection of energy towards the rear of the cabinet. However, it isn't their smart looks, exceptional directivity control or remarkable low weight that sets the Vi loudspeakers out from the crowd. It's the gainful advantage that comes with outstanding headroom, extraordinary power capacity, dynamic bandwidth and an extensive range of accessories.



Starlight Express, Bochum, Germany
Photo Detlef Hoepfner

V-Series.

Mirroring the same 3-way passive design are the Vi7P and Vi10P point source loudspeakers, housing two 10" low frequency drivers in a familiar dipolar driver arrangement. The central 8" MF driver is mounted onto a unique dual channel mid range horn that produces remarkable sensitivity, especially in the vocal range. The coaxially mounted 1.4" exit compression driver is combined with a rotatable HF horn to enable mounting in either orientation. Accompanying the Vi7P and Vi10P is the Vi-GSUB, specifically designed for ground stacked applications. With the same driver arrangement as the flyable Vi-SUB, this cardioid subwoofer greatly reduces the excitation of the reverberant field at low frequencies. This new breed of point source loudspeaker is ideal for any permanent installation where sightlines, weight or amplifier channel requirements dictate that a small line array is not appropriate. The single box solution for permanent installation.

The Vi loudspeakers are designed for integration within permanent installations, differing from the mobile V-Series in cabinet construction and mounting hardware. Custom Solutions can offer Variants for Stadiums (SVS), with no integral rigging components. Instead, they are mechanically supported by metal brackets specifically designed for the respective application. The Vi cabinets are coated with an impact resistant paint finish, with Special Colour (SC) matching available. A Weather Resistant (WR) option is available as needed, or for highly acidic environments such as cruise ships or coastal towns, Custom Solutions can provide a Sea Water Resistant (SWR) option.

Chi Nightclub, Kiev, Ukraine

V-Series.

V-Series	Vi8 • Vi12	Vi-SUB	Vi7P • Vi10P	Vi-GSUB
Components	2 x 10"/1 x 8"/2 x 1.4"	Front 18"/Rear 12"	2 x 10"/1 x 8"/1 x 1.4"	1 x 18"/1 x 12"
Output (1m)[1] with 30D	139 dB SPL	133 dB SPL	137 • 136 dB SPL	133 dB SPL
Output (1m)[1] with D80/40D	142 dB SPL	137 dB SPL	140 • 139 dB SPL	137 dB SPL
Power rating[2]	500/2000 W	800/3200 W	500/2000 W	800/3200 W
Frequency response (–5 dB)	67 Hz – 18 kHz	37 Hz – 115 Hz	59 Hz – 18 kHz	37 Hz – 115 Hz
Dispersion	80° • 120°(h)[3]	cardioid	75° • 110° x 40° CD (h x v)[4,5]	cardioid
Cabinets per amplifier channel	2	2	2	2
Dimensions mm (H x W x D)	310 x 700 x 460	606 x 700 x 728	700 x 308 x 466	606 x 700 x 728
Weight kg	34	62	33	58
Dimensions inch (H x W x D)	12.2 x 27.5 x 18	23.8 x 27.5 x 28.6	27.5 x 12 x 18.3	23.8 x 27.5 x 28.6
Weight lb	75	137	75	128

CD: loudspeaker with constant directivity horn [1] SPL_{max} peak, test signal: pink noise with crest factor 4 [2] RMS/peak [3] ≥ 250 Hz [4] ≥ 350 Hz [5] horn 90° rotatable

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Biltmore Church, North Carolina, US

SL-Series.

With broadband directivity embedded in its DNA, the XSLi and KSLi System represents the first no compromise audio solution designed expressly for use in medium to large scale fixed installations.

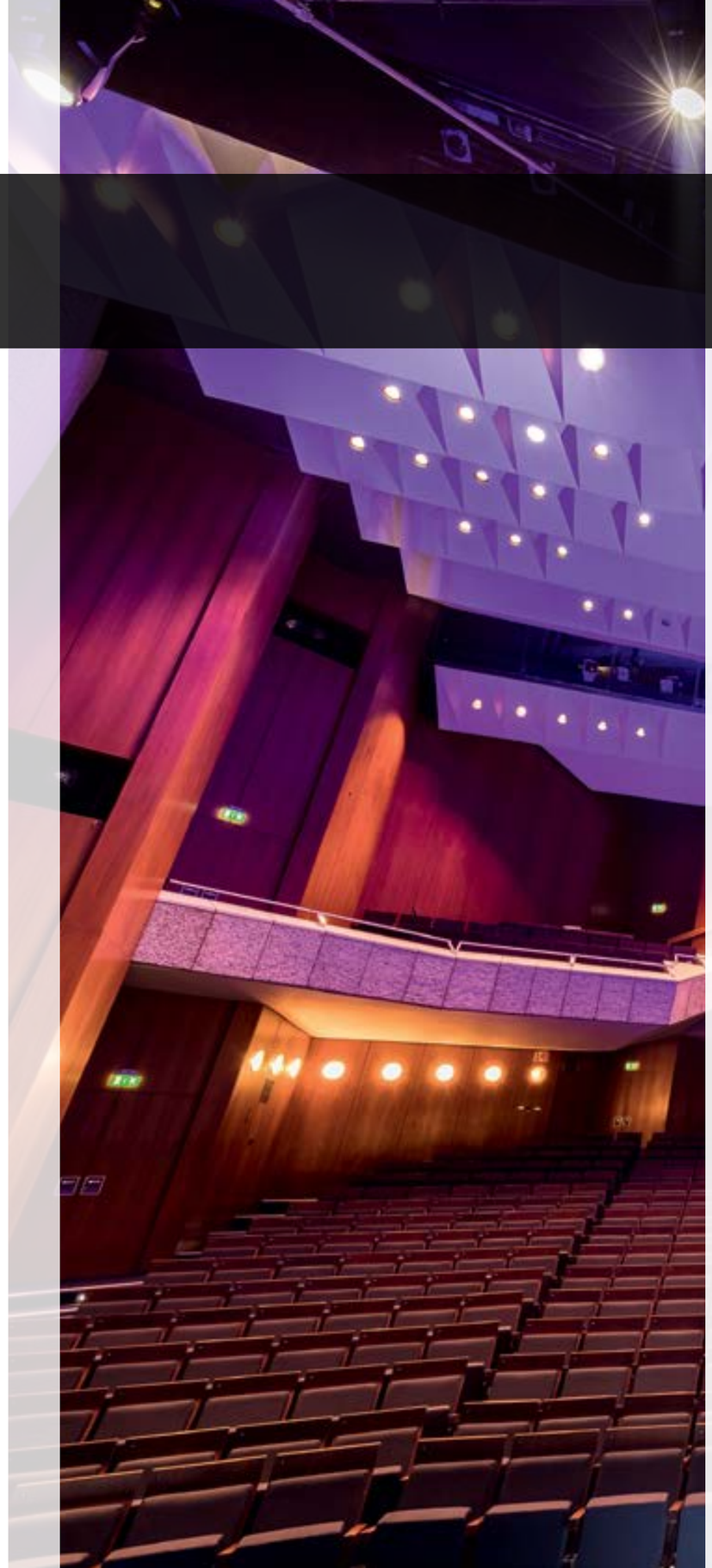
The XSLi8, KSLi8, XSLi12 and KSLi12 loudspeakers inherit the same combination of technologies that gives the SL-Series its sonic advantage: the ability to keep sound and silence where both should be. The headroom and sound characteristics possessed by both systems accurately conveys any performance style, from the fine detail of acoustic musical genres, to the high power requirements of dance and rock genres.

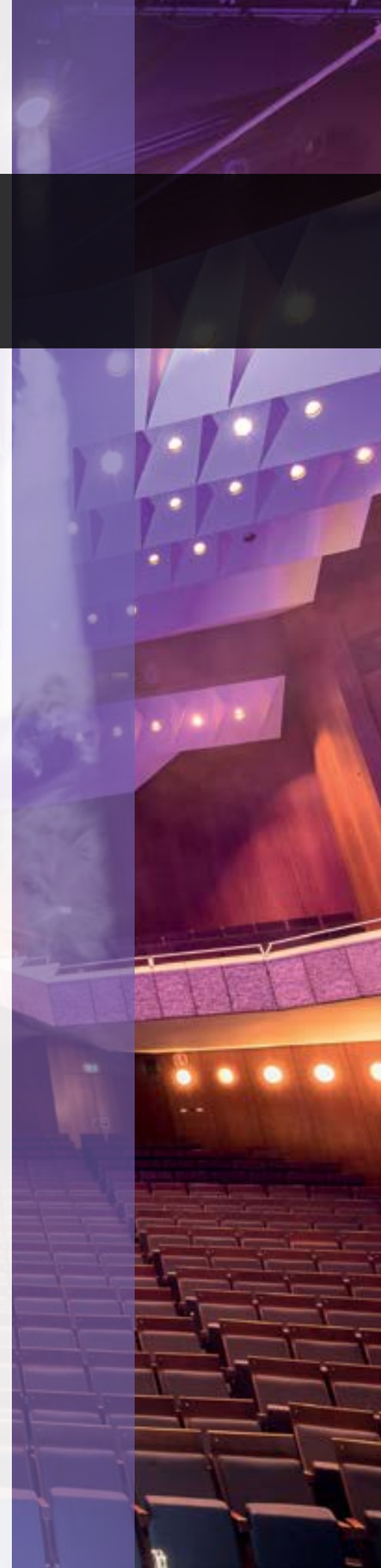
Directivity control favors speech intelligibility and clarity over reflections and reverberation, predictability over chaos, both indoors and out. The SL-Series increases accuracy and impact for the audience in front of the system and creates a superior working environment behind.

The XSLi8, KSLi8, XSLi12 and KSLi12 loudspeakers maintain seamless, full bandwidth directivity control down to the lowest frequencies they produce. The XSLi and KSLi Subs produce a cardioid dispersion pattern. While XSLi-SUB and XSLi-GSUB use a 18" front facing and 12" rear facing high excursion driver, the KSLi-SUB and KSLi-GSUB loudspeaker design use two forward-facing 15" drivers and a further 15" driver which radiates to the rear.
True, the precise horizontal directivity control of the XSLi and KSLi System loudspeakers elevates fixed installation audio to new heights. But as the name implies, the full potential of these systems cannot be measured by loudspeakers alone.

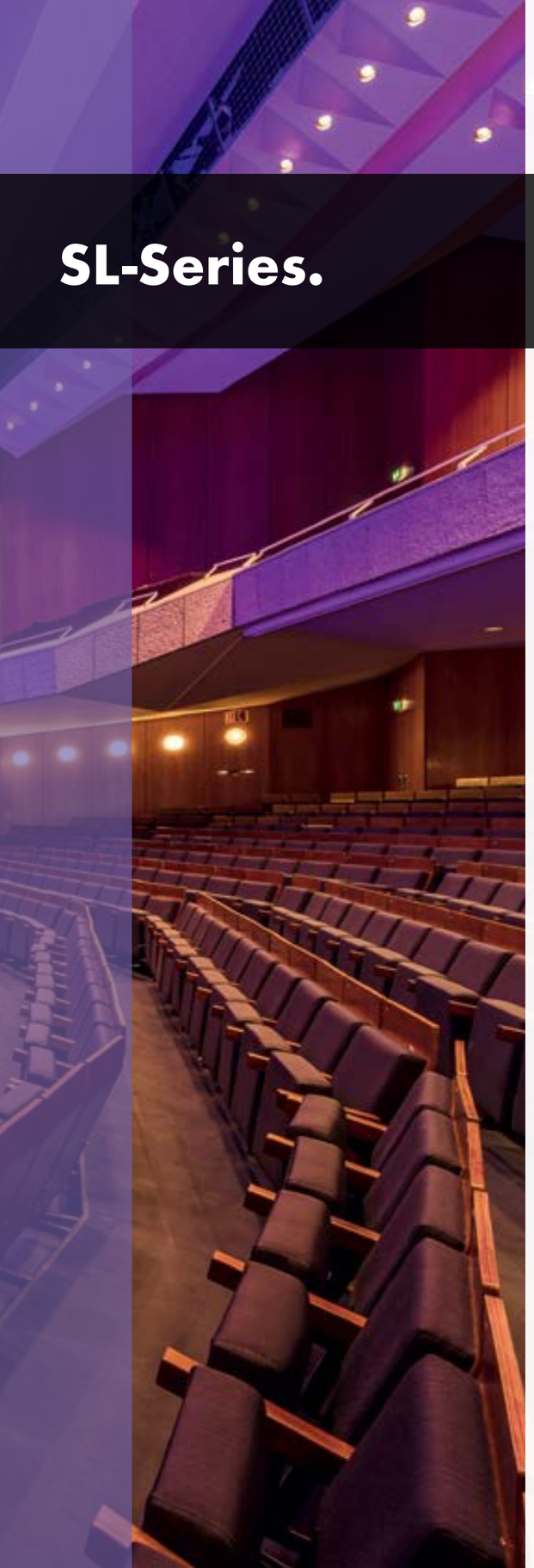
As a complete package, the XSLi and KSLi System consider all aspects of installation design, deployment and operation. Whether a mounting frame, adapter, or something more complex like custom construction is required, a solution to every eventuality is contained within the integrated whole.

Theater Rüsselsheim, Germany





SL-Series.



Theater Rüsselsheim, Germany

KSLi System	XSLi8 · XSLi12	KSLi8 · KSLi12	XSLi-SUB · XSLi-GSUB	KSLi-SUB · KSLi-GSUB
Components	2 x 8"/2 x 6,5"/1 x 6,5"/2 x 1"	2 x 10"/2 x 8"/1 x 8"/2 x 1.4"	1 x 18"/ 1x12"	3 x 15"
Output D80/40D (1 m)[1]	141 • 140 SPL	145 • 144 dB SPL	137 dB SPL	139 dB SPL
Power rating[2] **Front**	400 / 1200 W	450 / 1800 W	700 / 1500 W	
Power rating[2] **Side**	300 / 850 W	250 / 1000 W	400 / 800 W	
Power rating[2] **Front**				900 / 3500 W[3], 500 / 2000 W[4]
Frequency response (–5 dB)	60 Hz – 18 kHz	54 Hz – 18 kHz	37 - 110 Hz	36 Hz – 105 Hz
Dispersion (H)	80° • 120°	80° • 120°	cardioid	cardioid
Splay angle settings	0° - 14° (1° increments)	0° - 10° (1° increments)		
Cabinets per D80/40D (2-Way Active)	2	2	2	2
Dimensions mm (H x W x D)	283 x 700 x 507	330 x 1000 x 572	565 x 700 x 898	450 x 1000 x 900
Weight kg	39	57	65 • 61	82 • 78
Dimensions inch (H x W x D)	11.1 x 27.5 x 20	13 x 39.4 x 22.5	22.2 x 27.6 x 35.4	17.7 x 39.4 x 35.5
Weight lb	86	126	146 • 136	181 • 172

CD: loudspeaker with constant directivity horn [1]SPLmax: Broadband signal IEC 60268 [2] RMS / peak [3] Front drivers [4] Rear driver

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Accessories.

Just a few examples: Pipe clamp, Horizontal bracket, Flying frame or Super clamp; mechanical accessories to fix, fly, hold or attach d&b loudspeakers for all their worth. In sum, d&b offers more than a hundred accessories, not just universal ones, but Series specific and application specific as well; meticulously tailor made for purpose, customizable on request and designed for setup and use within situations requiring compliance with the provisions and directives of the DGUV regulation 17 (formerly BGV C1). Trappings to adhere to.

Riverside Church, New York City, NY, US
Photo Jason Woodruff

Custom Solutions.

Around the world, d&b solutions are renowned for authentic reproduction and reliability. Alongside theatres and music venues and the most prestigious opera houses, systems are installed in stadiums, arenas, hotel complexes and on cruise ships with different entertainment areas. They share specific requirements because of exceptional environmental conditions. d&b offers custom solutions for these additional installation and design criteria.

The Weather Resistant (WR) option takes cabinets to IP54 or in some cases an IP55 rating. For the utmost protection against the elements, a Sea Water Resistant (SWR) option resists corrosion from acidic surroundings.

Permanent installations benefit from using variants for stadiums (SVS) loudspeakers, which have no integral rigging components. Instead, they are mechanically supported by specifically designed metal brackets.

When loudspeakers are meant to be heard and not seen, d&b cabinets and rigging parts can be matched to any custom colours (SC) such as RAL or NCS.

Simply put: d&b Custom solutions formalizes a long standing commitment to unique requirements.

Johanneskirche, Backnang, Germany

dbaudio.com

Aladdin, Fredericia Theater, Denmark
Royal Albert Hall, London, UK,Photo Andy Paradise
Central the Club, Split, Croatia
Residenztheater, Munich, Germany

Installation.

Integrated sound solutions

Aladdin, Fredericia Theater, Denmark
Royal Albert Hall, London, UK, Photo Andy Paradise
Central the Club, Split, Croatia
Residenztheater, Munich, Germany