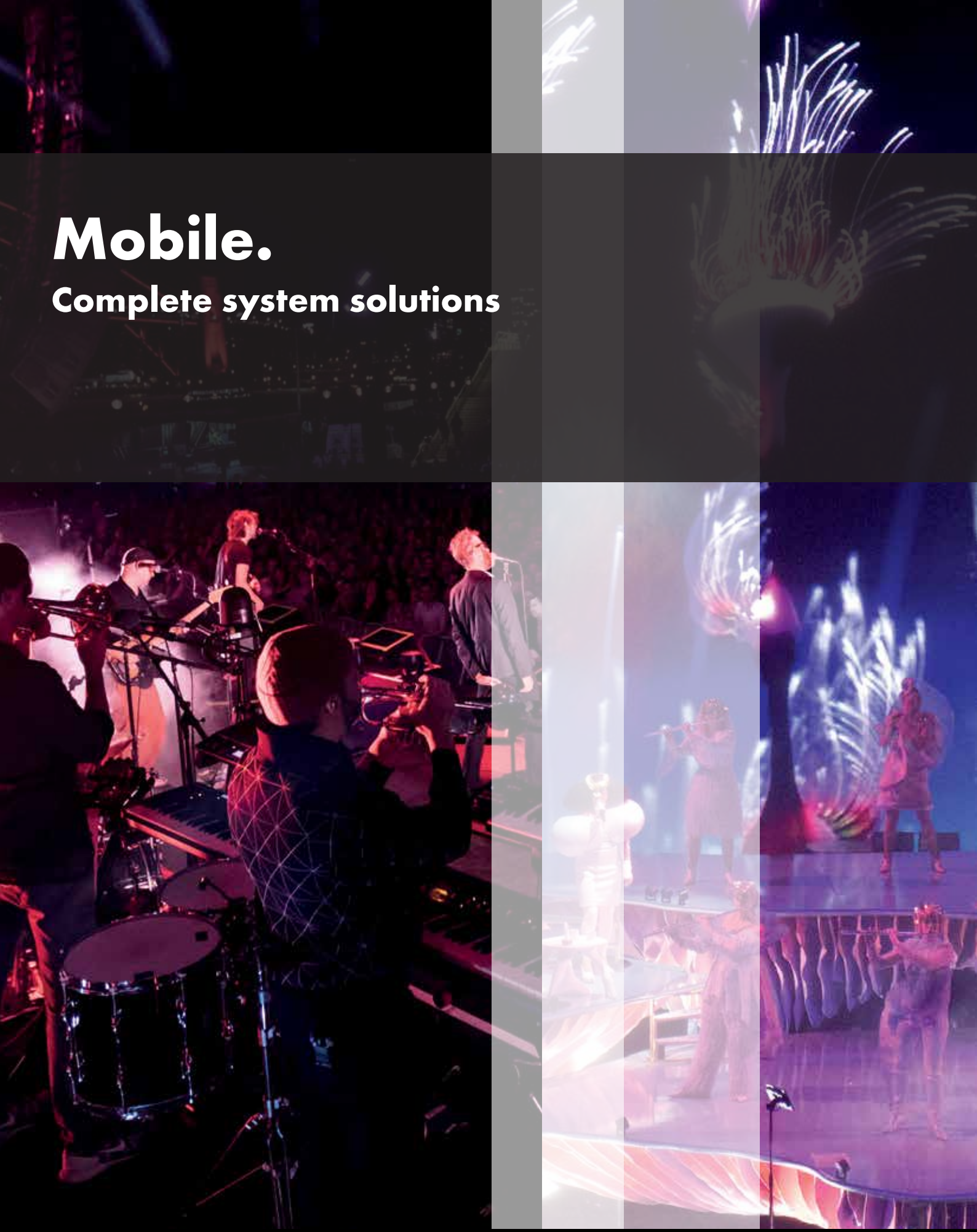


Mobile.

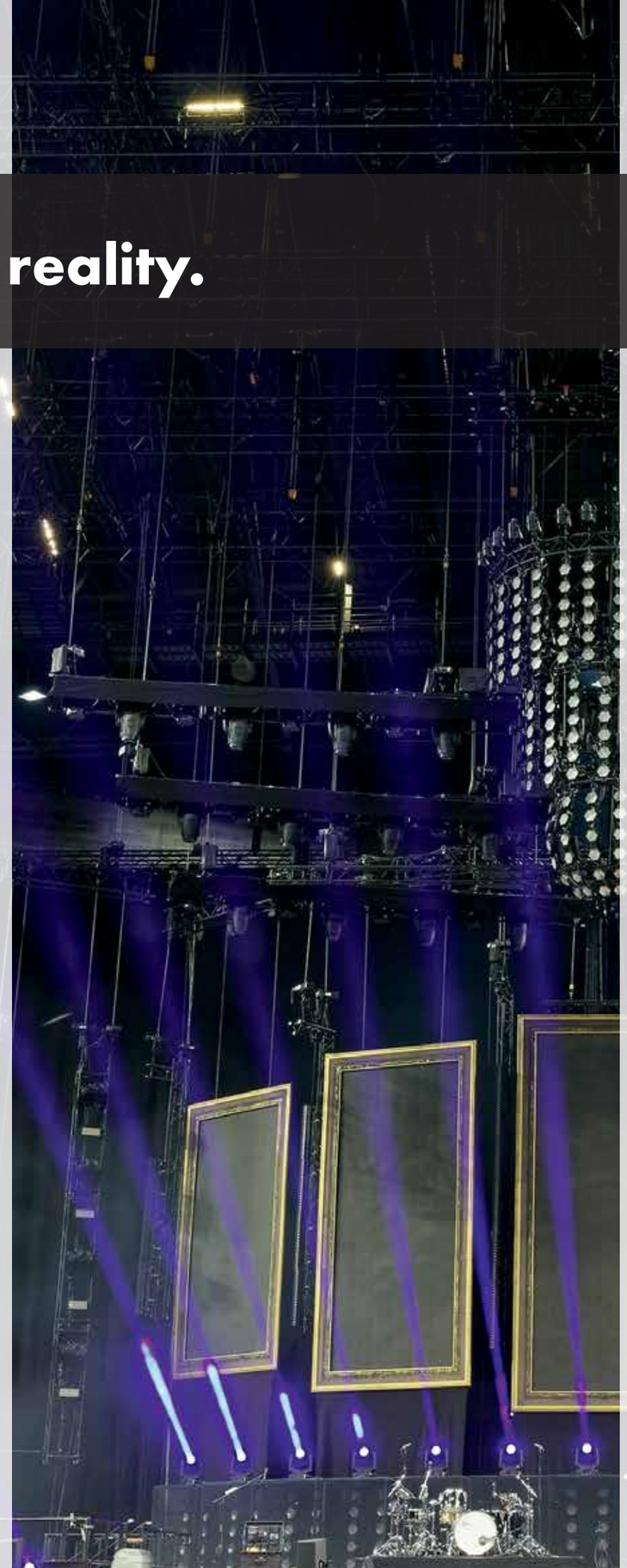
Complete system solutions

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.



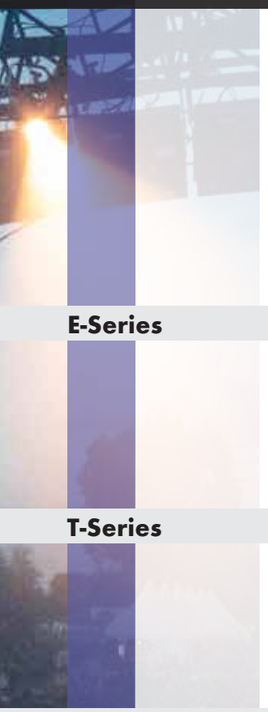
Sunrise Avenue, Cologne, Germany

Mobile.

The Mobile range of d&b systems fulfills a broad spectrum of application demands, from touring productions and sports events, to live sound, performing arts and speech reinforcement. The loudspeakers and amplifiers are specifically designed to deliver scalability, flexibility and maximum efficiency, with dedicated rigging and transport accessories for easy redeployment from one venue to the next.
Each loudspeaker Series features trademark d&b qualities: low weight, constant directivity control down to low frequencies, cardioid subwoofer technology, and integrated flying equipment. Not to mention the highest consistency, complete reliability, and an output and sonic character that makes d&b a rider friendly name across the globe.

William Tell Open-Air Theatre Interlaken, Switzerland
Photo David Birri

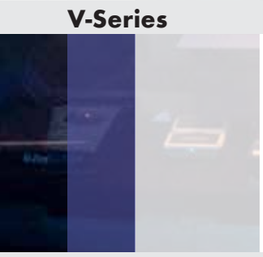
All purpose apparatus.
Loudspeakers.



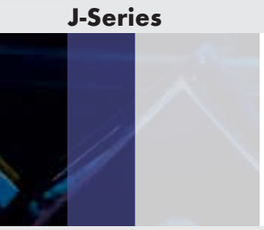
E-Series E4 E5 E6 E8 E12 • E12-D B8-SUB E12X-SUB E15X-SUB

T-Series T10 T-SUB B4-SUB

Y-Series Y8•Y12 Y7P• Y10P Y-SUB B6-SUB



V-Series V8•V12 V7P• V10P V-SUB V-GSUB



J-Series J8 • J12 J-SUB J-INFRA

SL-Series KSL8 • KSL12 KSL-SUB • KSL-GSUB GSL8 • GSL12 SL-SUB • SL-GSUB

Powerful point sources

A point to prove. The 3-way passive V7P and V10P loudspeakers are a truly single box solution: fast deployment, versatile rigging and outstanding output. The Y7P and Y10P may be smaller in size but not in performance, especially considering their impressive full range capabilities. The direct radiating E-Series is the littlest on offer, but with functionally formed, finely scaled cabinets, it provides the widest assortment.

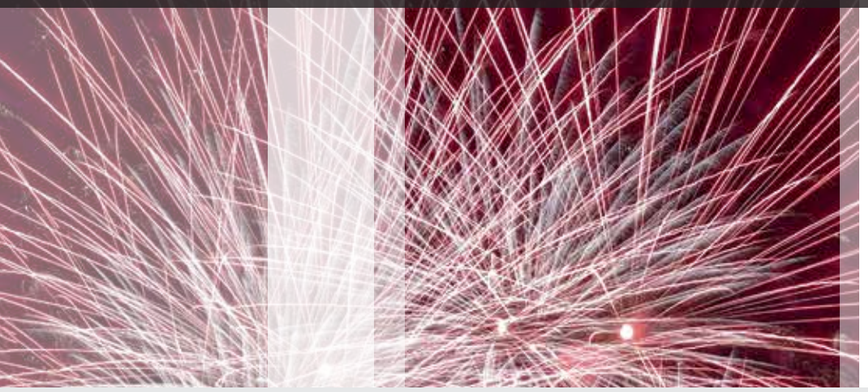
Serving several scenarios

True flexibility. The tactical T10 loudspeaker settles two demands: in line mode, it serves as the littlest line array or, by twisting the innovative HF wave guide, see it transform into a point source module.

Accurate arrays

d&b family values: scalability, predictability and versatility, impressive pattern control, three point rigging systems, transport and cabling solutions, and amplifier platform. Each one of these line array systems - from tiny T, to Y, V, J and evolutionary SL - can be optimized by ArrayProcessing, an optional software function within ArrayCalc that improves the level and tonal balance of the array - in the vertical plane - across the entire audience listening area. To foresee the effects of a d&b sound reinforcement system in the far field, the d&b NoizCalc software can be used.

All purpose apparatus.
Loudspeakers.



A-Series

AL60

AL90

Monitors

M2

M4

M6

MAX2

Subwoofer

B22-SUB

Ludwigsburg Klassik Open Air, Monrepos palace, Germany

Augmented advantage
A-Series augmented arrays are a new tool that combines the ease of point source clusters with the level and frequency distribution of line arrays. Variable splay angles allow arrays of up to four A-Series loudspeakers to adapt precisely to venue shapes in fine increments. Midrange directivity control provides one-button acoustic optimization directly from d&b amplifiers. Broad distribution is achieved either horizontally or vertically with a minimal number of loudspeakers. All this from a system that scales from a single loudspeaker to a full sound reinforcement solution.

Striking stage monitors
Performing for performers. Across the globe the d&b stage monitors enjoy the limelight for many reasons: high output, low profile, definitive reliability and decisive consistency. The MAX2 boasts a remarkable vocal presence and clarity while the M6 and M4 distinguish themselves through an impressive midrange presence. Meanwhile, the M2 is the definitive actively crossed over reference stage monitor system with a peak sound pressure level to satisfy even the unhealthiest of SPL requests. Substantial feedback stability prevails even in the most challenging of situations.

From subtle to staggering: the subwoofers
From the smallest scale to the most sizeable, there is a d&b subwoofer to suit any mobile situation.
The B4-SUB, Y-SUB, and V subwoofers all share the same driver arrangement in an integrated cardioid setup and are powered by a single amplifier channel, providing the greatest accuracy of low frequency reproduction and reducing energy dispersal into unwanted areas. The J-SUB and J-INFRA also produce cardioid dispersion, with exceptional performance at different operating ranges. From the impressive SL-Series, the SL-SUB and SL-GSUB are joined by the flyable KSL-SUB and KSL-GSUB, which offer an incredible performance given their size. The omnidirectional options offer increased versatility, from the petite and discreet to the big and formidable. These include the ultra-compact B8-SUB, which makes an ideal solution for small scale mobile applications. Stature and SPL and scale up through the E12X-SUB, E15X-SUB and T-SUB , with the B22 providing sizeably more.

All purpose apparatus. Amplifiers and software.

Amplifiers

D80 amplifier

D20 amplifier

D6 amplifier

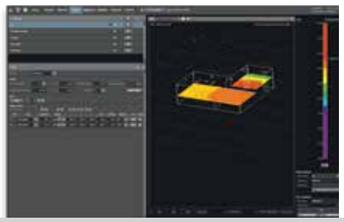
Processing and distribution

DS10 Audio network bridge

DS20 Audio network bridge

DS100 Signal Engine

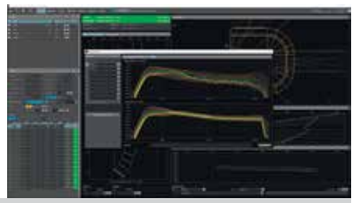
Prediction



ArrayCalc simulation software

NoizCalc immission modelling software

System optimization



ArrayProcessing

Remote control

R1 Remote control software

The Digital Signal Processing power of the d&b amplifiers provides comprehensive loudspeaker management, switchable filter functions, remote capabilities and user-definable controls, to meet the distinct requirements of every task. The d&b DS100 Signal Engine features a 64x64 matrix with comprehensive processing capabilities and Dante networking, whereas the d&b DS10 and DS20 Audio network bridges create a seamless interface between either Dante or Milan networks and the digital d&b amplifier inputs.

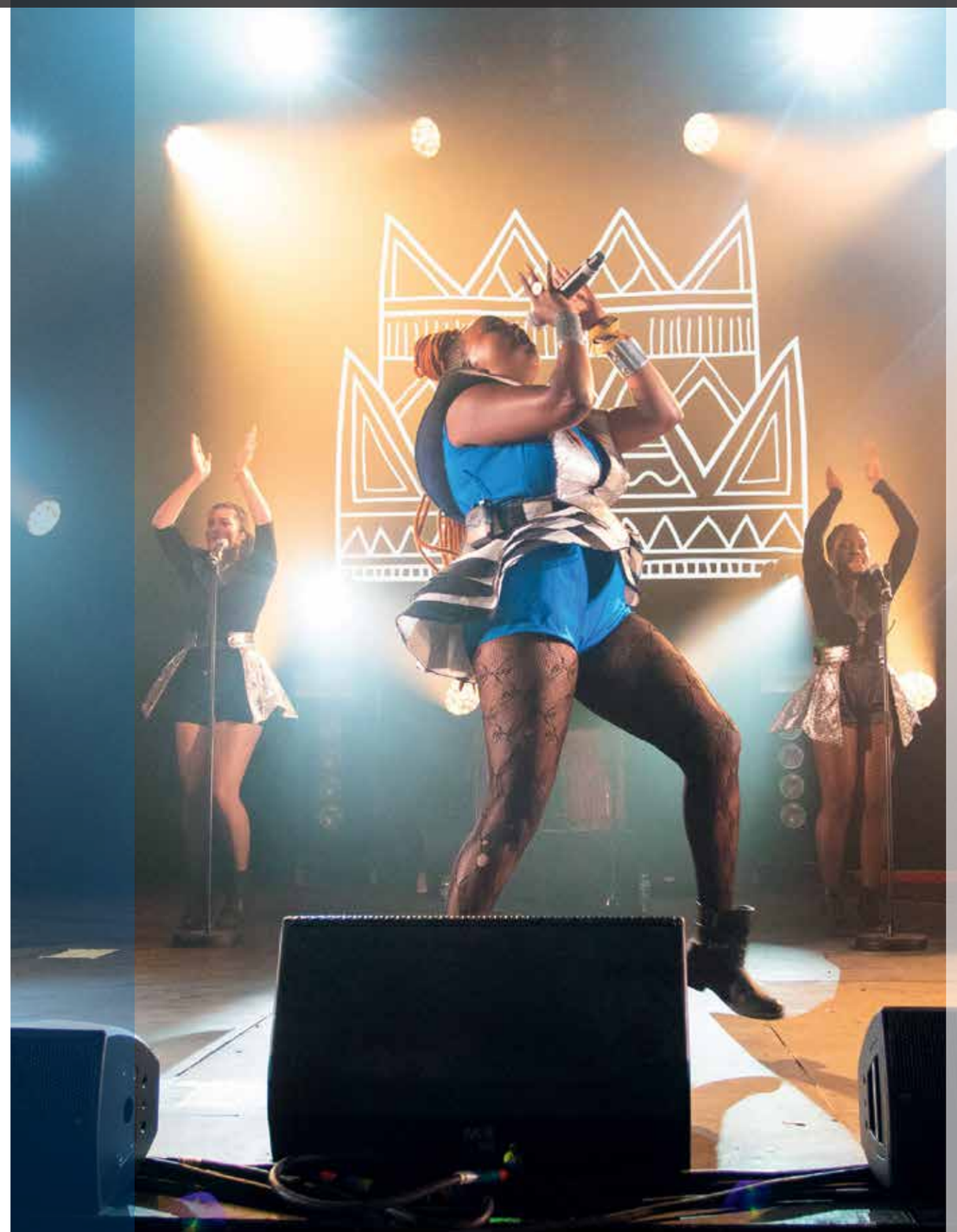
The d&b Workflow integrates d&b software and amplifiers, to make mobile setups an even easier business. The d&b ArrayCalc simulation tool allows a complete electroacoustic solution to be planned ahead - through system design, performance prediction and optimization. To foresee the effects of a d&b sound reinforcement system in the far field, the d&b NoizCalc software uses 3D geographical data to calculate immissions according to international standards. All final system data is assimilated by the d&b R1 Remote control software into an intuitive graphical user interface, providing all that's needed to manage the amplifiers and loudspeakers from anywhere in the network. Specific functions check and monitor the entire system, improving the speed of deployment, and guaranteeing complete reliability, with remarkably consistent results.

Chemical Brothers, London, UK
Photo Luke Dyson

Touring and Concert.

Powerful, precise, premium performances, night after night, venue after venue. It's what the crowd expects of the artist, and what the production expects of the system. The d&b system approach ensures the highest quality performance, reliability and consistency is achieved again and again anywhere on the planet. Efficient transport, cabling and rigging solutions are made for easy redeployment, while integrated software packages take planning and control in hand. Not to mention exceptional sonic character, impressive output and worldwide availability. It's a combination that makes d&b systems internationally rider friendly.

WOMAD Festival, Charlton Park, UK



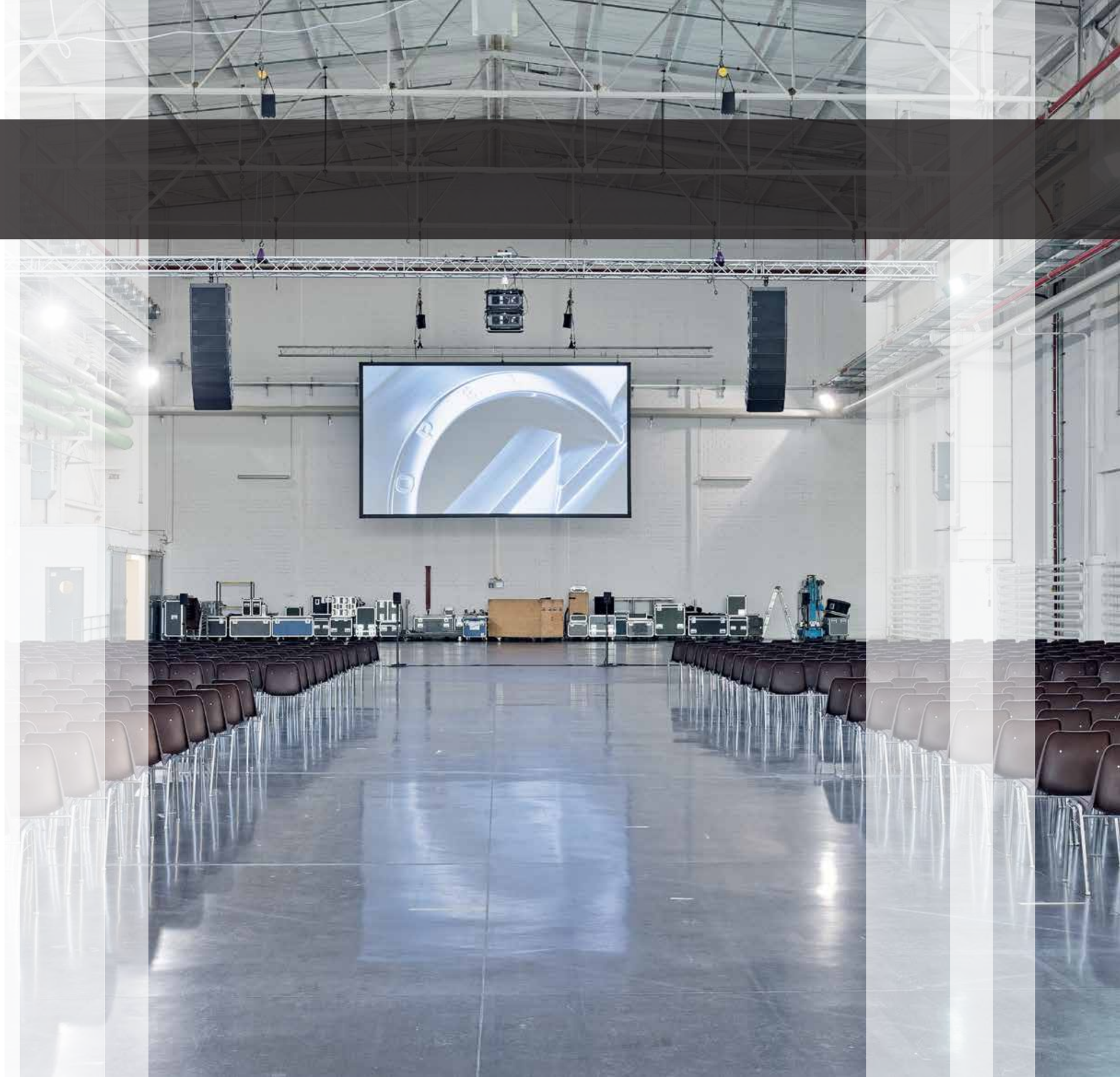
Theatre and Musical production.

Discreet but powerful: sound reinforcement with a performance to size ratio that counts. 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. Systems can be variously deployed for vocal reinforcement, program reproduction or for effect. Optimization functions guarantee the onstage performance is delivered to every seat in the house exactly as intended: the key to captivating audiences.

Festival St. Gallen, Switzerland

Corporate events.

Effortless listening every time. A spectrum of application types demands a flexible solution. Unprecedented vocal presence and the highest speech intelligibility keep communications clear and authentic. Impressive system headroom and bandwidth allow program material of any kind to be dynamically delivered in any situation. Compact in size but certainly not in output, d&b systems seamlessly integrate with current remote control and audio networking protocols. Scalable solutions for every scenario in the calendar.



Work council meeting Opel, Eisenach, 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, optimization, control and monitoring in hand, there's time saved for fine tuning to artistic taste to ensure audiences everywhere experience live sound exactly as intended.

Ultra Europe, Split, Croatia
Photo Janko Ramuscak

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.

David Garrett, Cologne, Germany

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

Management and amplification

d&b amplifiers

Reproduction

d&b loudspeakers

Performance prediction.

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, and the alignment of flown and ground stacked loudspeakers and sub-woofers. All rigging information is available to print, or share via the ArrayCalc Viewer app for Android and iOS smartphones or tablets.

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.

Boom Festival, Idanha-a Nova, Portugal

Optimization.

What's more, ArrayCalc's optional ArrayProcessing feature optimizes the tonal (spectral) and level (spatial) balance of T-Series, Y-Series, V-Series, and J-Series line array systems across an entire listening area, as defined by its mechanical vertical coverage angle. Within ArrayCalc 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.

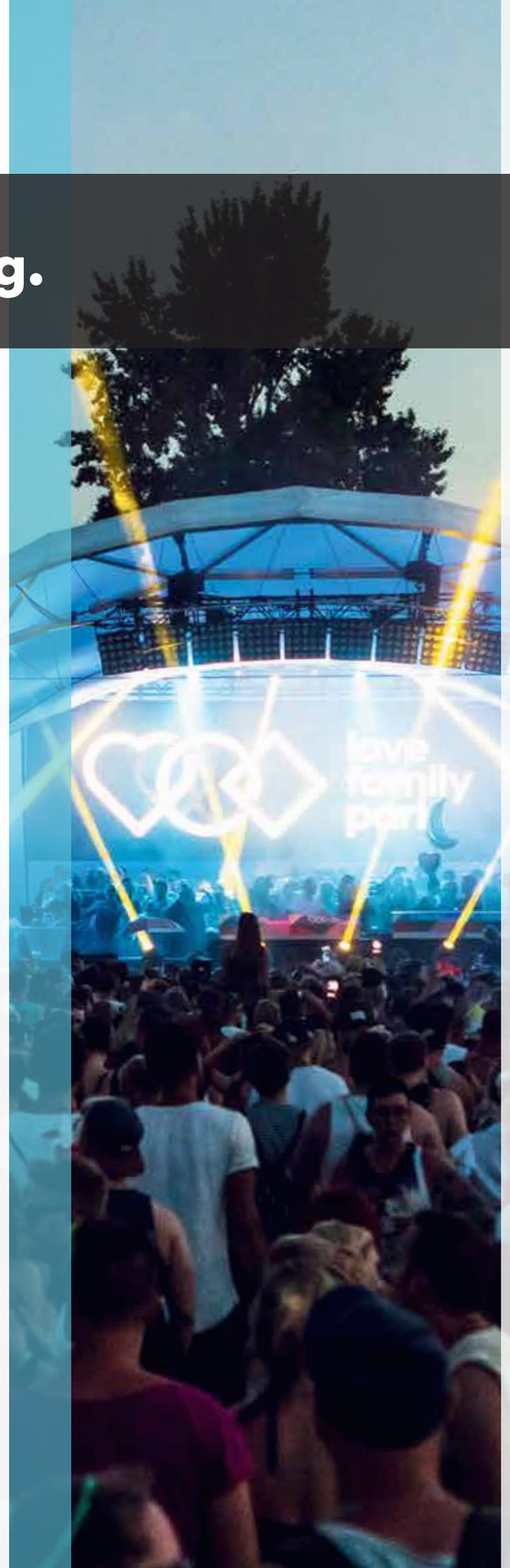
ArrayProcessing applies a combination of FIR and IIR filters to each individual cabinet in an array to achieve the targeted performance, with an additional latency of only 5.9 ms. This significantly improves the consistency of frequency response over distance, and clarity, as well as seamlessly correcting 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.

Ultra Europe, Split, Croatia
Photo Janko Ramuscak

Immission modelling.

To identify potential noise disturbance in the event planning stage, the d&b NoizCalc software takes the complex loudspeaker data from ArrayCalc and calculates immissions in the far field, according to the ISO 9613-2 and Nord2000 standards.

To accurately predict the impact on areas outside the audience listening zones, NoizCalc applies geographical 3D data to visually represent the effects of transmission across the terrain. Any potential noise disturbance is identified and evaluated ahead of the show, enabling users to optimize for listeners while satisfying local noise restrictions and offsite regulations.



Love Family Park, Rüsselsheim, Germany

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. Every amplifier within the network can be accessed and adjusted, and the complete system can be checked and verified. This is the foundation, the depiction of everything to be controlled and monitored: a complete 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.

Love Family Park, Rüsselsheim, Germany

Amplifiers.

The all-embracing functionality of the d&b amplifiers can be accessed via the d&b Remote network, through either Ethernet or CAN-Bus, 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. All this makes living in a live world somewhat more straightforward and above all, considerably easier.

The d&b amplifiers are designed specifically to power d&b loudspeakers and are the beating heart of all d&b systems. The dual channel D6 amplifier offers a 4-band parametric equalizer along with 340 ms of signal delay per channel, while the D20 and D80 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 amplifiers' four channels. All d&b amplifiers feature analog and AES3 digital inputs for each channel, not to mention System check, Input and Load monitoring, Overvoltage protection, temperature and signal controlled cooling and switch mode power supplies. They also incorporate active Power Factor Correction, which maintains a stable output when used with weak or unstable mains supplies.

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

David Garrett, Cologne, Germany

Amplifiers.

Amplifiers	D80	D20	D6
User interface	Encoder / colour TFT touchscreen	Encoder / colour TFT touchscreen	Encoder / LC display
Input channels	4 x AES3 or 4 x analog or 2 x AES3 and 2 x analog	4 x AES3 or 4 x analog or 2 x AES3 and 2 x analog	2 x AES3 or 2 x analog
Output channels	4	4	2
Output connectors	NL4 / EP5 plus central NL8	NL4 plus central NL8	NL4
Output routing	Dual Channel, Mix TOP / SUB and 2-Way Active	Dual Channel, Mix TOP/SUB and 2-Way Active	Dual Channel
Rated output power	4 x 2000 W into 8 Ω	4 x 800 W into 8 Ω	2 x 350 W into 8 Ω
(THD+N < 0.5%, 12 dB crest factor)	4 x 4000 W into 4 Ω	4 x 1600 W into 4 Ω	2 x 600 W into 4 Ω
Cable compensation	LoadMatch	LoadMatch	
Latency	0.3 ms	0.3 ms	0.3 ms
Delay	10 sec / 3440 m	10 sec / 3440 m	340 msec / 116.9 m
User equalizers (per channel)	2 x 16-band	2 x 16-band	4-band
Remote	OCA/AES70 via Ethernet / CAN	OCA/AES70 via Ethernet / CAN	CAN
Power supply	Autosensing switched mode power supply with active PFC	Universal range switched mode power supply with active PFC	Autosensing switched mode power supply with active PFC
Mains voltage	100 - 127 / 208 - 240 V, 50 - 60 Hz	100 - 240 V, 50 - 60 Hz	100 - 120 / 220 - 240 V, 50 - 60 Hz
Dimensions (H x W x D)	2 RU x 19" x 530 mm	2 RU x 19" x 460 mm	2 RU x 19" x 353 mm
Weight kg	19	10.8	8
Weight lb	42	23.8	17.6

William Tell Open-Air Theatre Interlaken, Switzerland

Audio networking.

The benefits for 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. A complete d&b solution ensures comprehensive remote control capabilities, efficient audio networking possibilities and seamless interoperability and integration with other devices. To this end, d&b is wholly committed to open standards, while also offering support for other relevant protocols, such as Dante. Ultimately the goal is to establish a choice of products and protocols for d&b users, to ensure the optimum fit for each system and application.

The DS20 Audio network bridge interfaces between Milan networks and AES3 digital audio signals, while also providing distribution of Ethernet control data. The DS20 incorporates a fully AVB-enabled integrated 5-port switch, offering a primary and redundant network for the Milan protocol. This provides extended connectivity for a laptop to control the d&b amplifiers using the R1 Remote control software via the OCA (Open Control Architecture) protocol.

d&b systems can also receive audio via Ethernet through the Dante transport protocol using the DS10 Audio network bridge. This 1 RU device provides sixteen AES3 outputs, four AES3 inputs and an integrated 5-port switch providing advanced functions such as redundancy, VLANs and multicast filtering.

In bypass mode, the DS10 acts as an AES3 distribution device, increasing the flexibility for applications not using a Dante enabled console.

Klassik am Odeonsplatz, Munich, Germany

Distribution.

The d&b DS100 Signal Engine is a specialized rack mount 3 RU audio processor with Audinate Dante networking. It provides a 64 x 64 audio matrix with level and delay adjustments at all crosspoints.
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 the DSP platform at the core of d&b Soundscape where the optional software modules En-Scene and En-Space provide dynamic object-based positioning and emulated acoustics functions. A versatile tool, the DS100 can be used 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.

Björk, The Shed, New York, NY, US

d&b Soundscape.

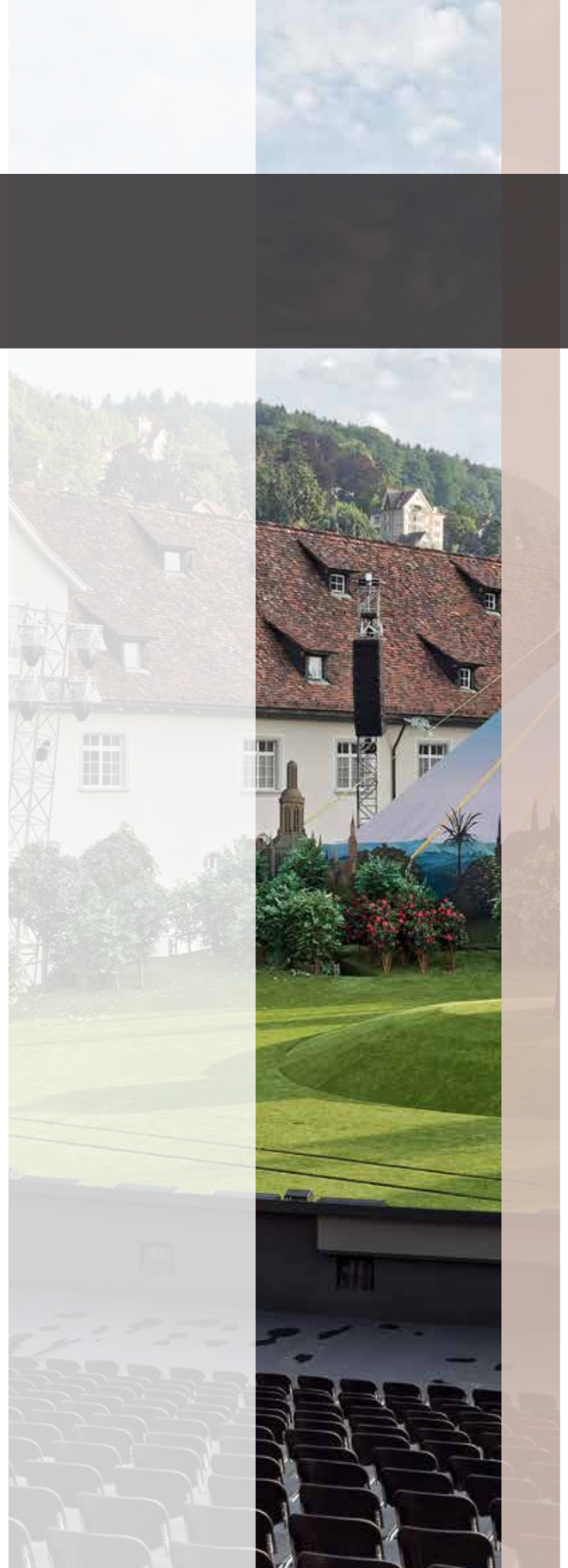
E-Series.

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.

Festival St. Gallen, Switzerland



E-Series.

E-Series	E4	E5	E6	E8	E12 • E12-D	B8-SUB	E12X-SUB	E15X-SUB
Components	4" / 0.75" coaxial	5" / 1" coaxial	6.5" / 1" coaxial	8" / 1" coaxial	12" / 1.3" coaxial	2x 6,5"	12"	15"
Output (1m)[1] with D6	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
Output (1m)[1] with D20	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
Output (1m)[1] with D80	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
Power rating[2]	60 / 400 W	60 / 400 W	150 / 800 W	150 / 800 W	300 / 1600 W	200 / 1000 W	300 / 1600 W	300 / 1600 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
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
Cabinets per amplifier channel	4	4	4	4	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[4]
Weight kg	1.1	2.7	5	7.3	16	18	18	24
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[4]
Weight lb	2.4	6	11	16.1	35	39	40	53

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

Application information is presented for guidance only. 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.

Festival St. Gallen, Switzerland

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 AL60 and AL90 offer horizontal dispersion angles of 60° and 90° respectively, offering directivity control down to 550 Hz (AL60) and 370 Hz (AL90).

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	AL60	AL90
Components	2 x 10"/ 1 x 1.4"	2 x 10"/ 1 x 1.4"
Output (1m)[1] D20	138 dB SPL	138 dB SPL
Output (1m)[1] D80	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 (Midrage Directivity Control) mode [4] with ArrayProcessing

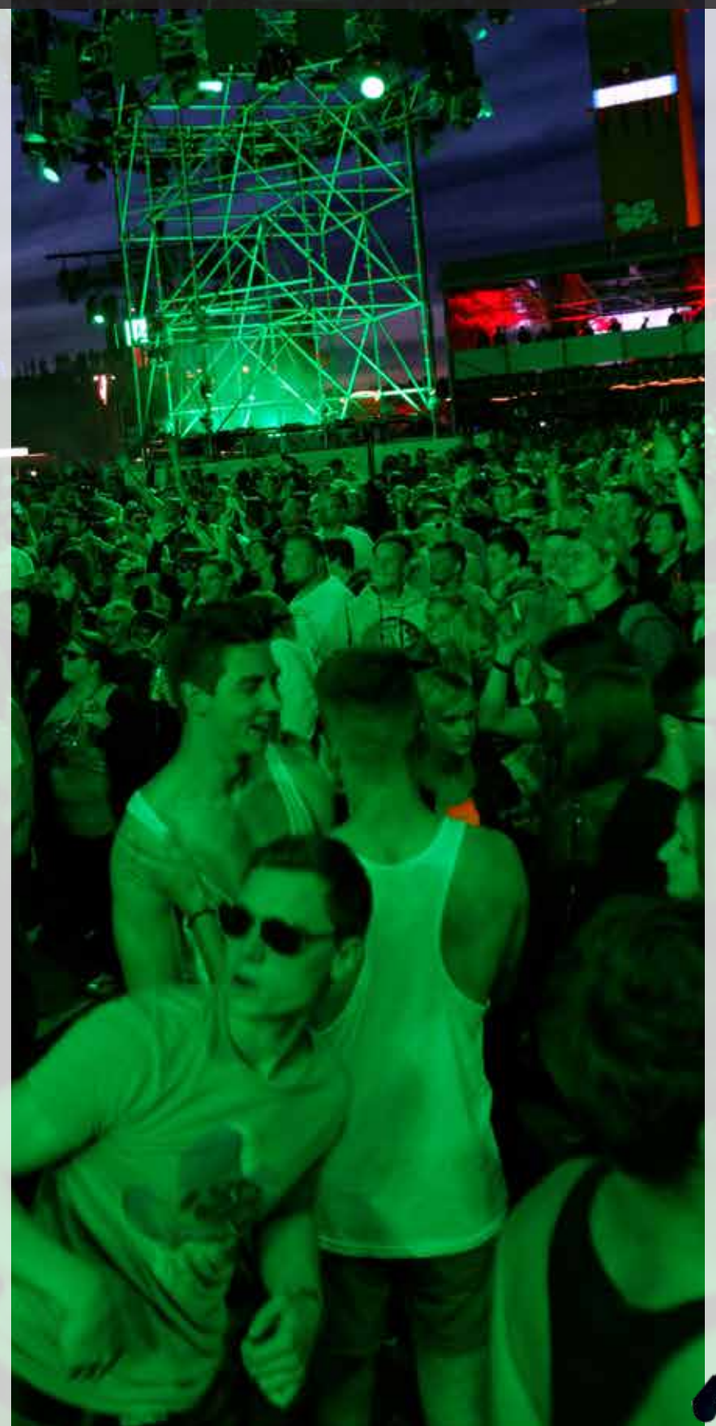
Application information is presented for guidance only. d&b reserves the right to make any necessary changes to the products and the published specifications. As part of the ongoing development program d&b tries to maintain the highest degree of product compatibility.

T-Series.

Point source or line source? Admittedly an important question, yet no longer a question of which loudspeaker Series. Due to its innovative design, the T-Series offers two different loudspeaker technologies in one flexible cabinet, delivering an impressive performance as the smallest d&b line array and, with a twist of the wrist, transforming into a point source solution.

The functionality of the T-Series spans from small to medium sized applications: from multiple cabinet line arrays through to single stand-alone solutions. With an unobtrusive cabinet design, compact dimensions, high power and exemplary directivity performance, the T-Series is the ideal system for speech and music reproduction. Adapting from point source to line array mode is achieved without tools owing to the unique combination of rotatable horn and acoustic lens, coupled within the loudspeaker grill assembly.

Both the T10 loudspeaker and the T-SUB have integrated rigging to enable quick and simple line array configuration. 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. Suffice to say, the T-Series twists and turns to fit the task.



Nature One, Pydna, Germany

T-Series.

T-Series	T10	T-SUB	B4-SUB
Components	2 x 6.5"/1.4"	15"	Front 15"/Rear 12"
Output Line/Arc setup (1m)[1] with D6	129 dB SPL		
Output Line/Arc setup (1m)[1] with D20/D80	132 dB SPL		
Output PS setup (1m)[1] with D6	127 dB SPL		
Output PS setup (1m)[1] with D20/D80	130 dB SPL		
Output (1m)[1] with D6		127 dB SPL	128 dB SPL
Output (1m)[1] with D20		130 dB SPL	131 dB SPL
Output (1m)[1] with D80		130 dB SPL	131 dB SPL
Power rating[2]	200/800 W	300/1600 W	500/2000 W
Frequency response (–5 dB)	68 Hz – 18 kHz	47 Hz – 140 Hz	40 Hz – 150 Hz
Dispersion line source (H)	105°		
Splay angle settings	0° - 15° (1° increments)		
Dispersion point source (H x V)	90° x 35°	omni directional	cardioid
Cabinets per amplifier channel	4	2	2
Dimensions mm (H x W x D)	197 x 470 x 300	431 x 470 x 400	476 x 580 x 700[3]
Weight kg	11	17	44
Dimensions inch (H x W x D)	7.8 x 18.5 x 11.8	17 x 18.5 x 15.8	18.7 x 22.8 x 27.7[3]
Weight lb	24	37	97

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

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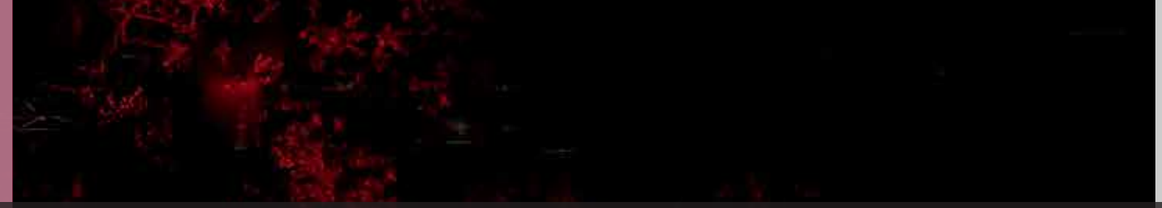
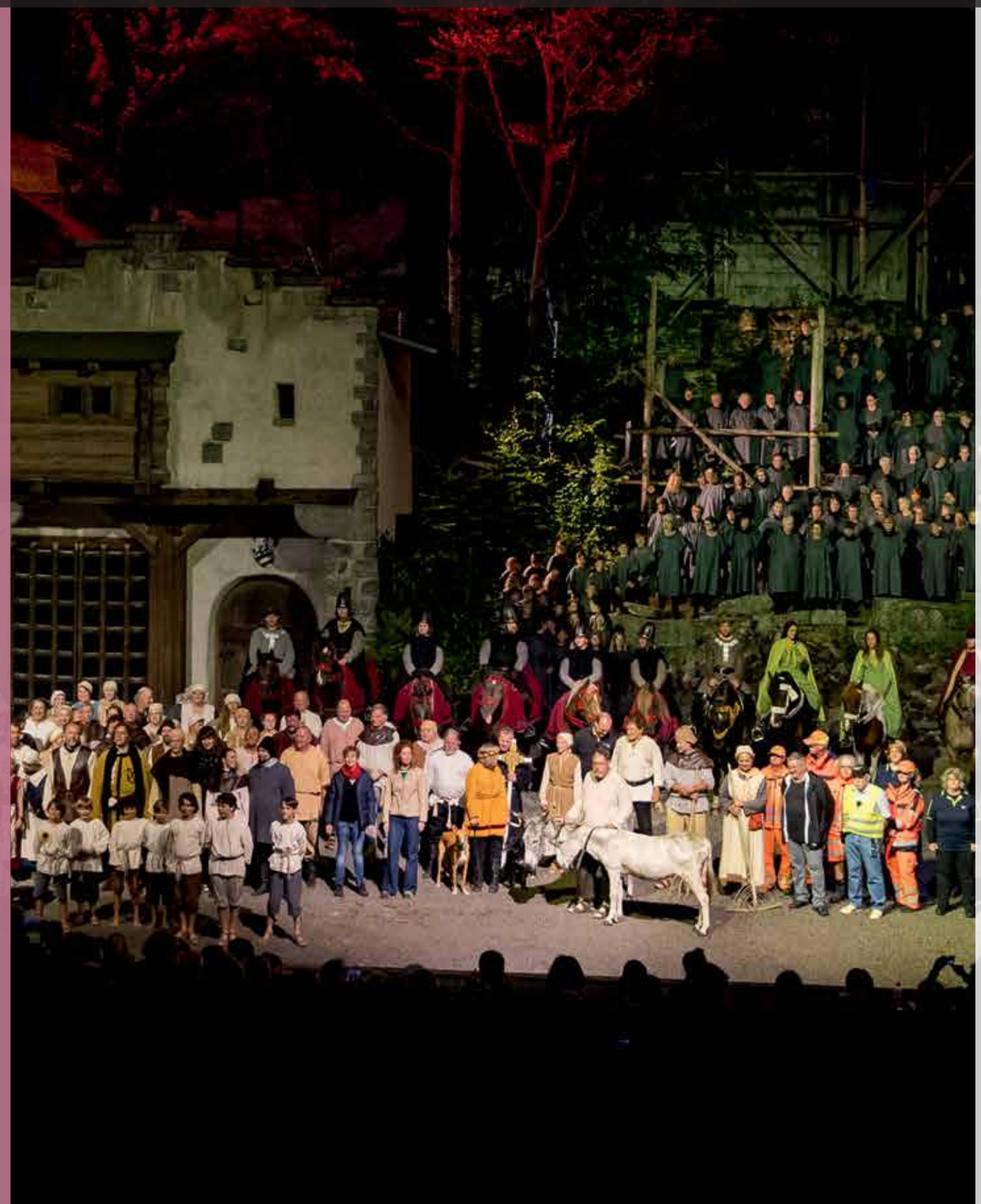
Nature One, Pydna, Germany

Y-Series.

With the epitome of 2-way passive line array loudspeakers and point sources, the all-encompassing Y-Series combines broadband directivity control with an extended LF performance and a compact, unobtrusive design. A flexible one size fits all solution for small to mid sized applications, from concerts and church services to symposiums and car expos.

The versatility of the Y-Series is matched with advanced components: drivers in bipole arrangements, innovative waveguides and port designs, rotatable horns and cabinet finishing. The compact, passive 2-way Y8 and Y12 line array modules deliver, 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.



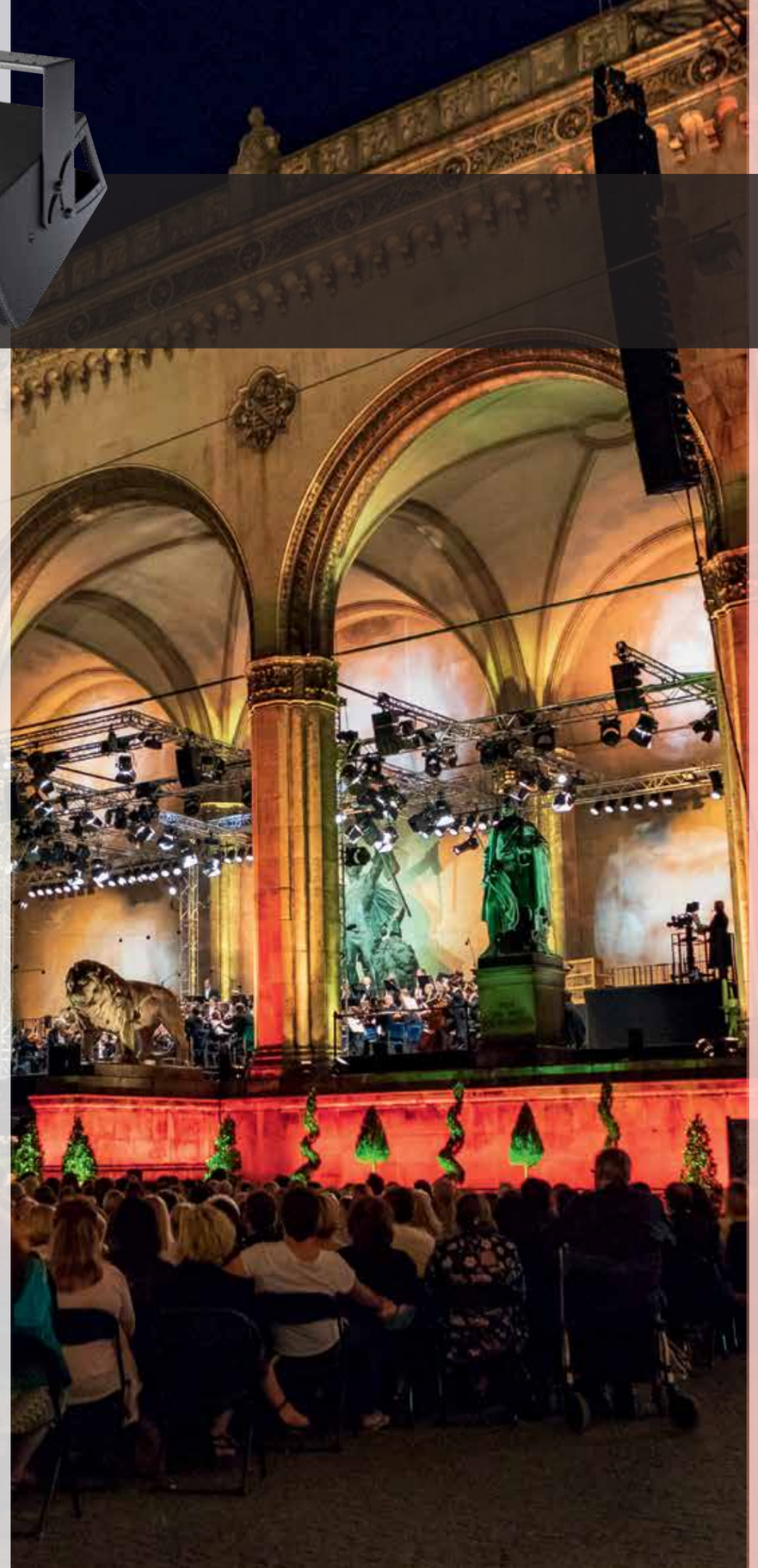


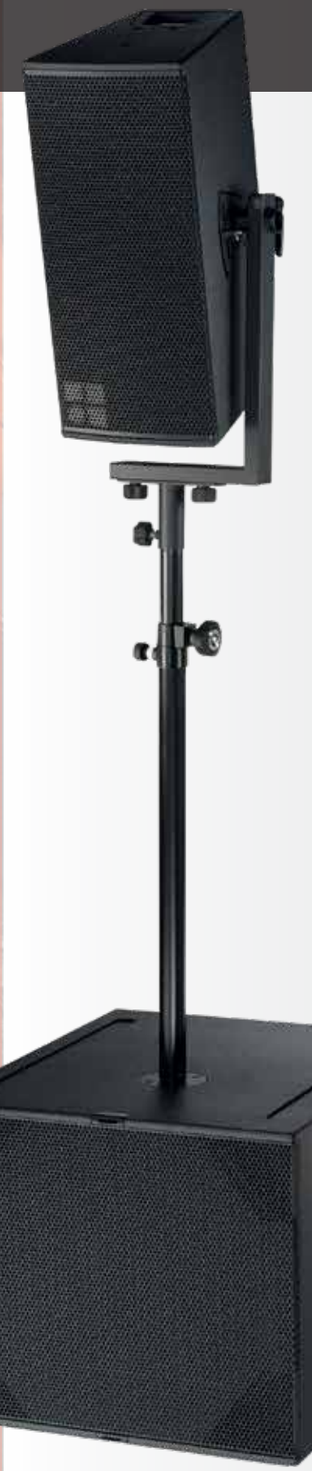
William Tell Open-Air Theatre Interlaken, Switzerland

Y-Series.

In essence all Y-Series cabinets 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. Featuring rotatable horns for easy deployment in either orientation, the lightweight Y7P and Y10P 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.

With the omnidirectional B6-SUB featuring an 18" driver with extended excursion capabilities, and the arrayable, cardioid Y-SUB, for a precise and dry low end, the Y-Series is quite simply a system with everything.





Klassik am Odeonsplatz, Munich, Germany

Y-Series.

Y-Series	Y7P • Y10P	B6-SUB	Y8 • Y12	Y-SUB
Components	2 x 8" / 1 x 1.4"	18"	2 x 8" / 1 x 1.4"	Front 18" / Rear 12"
Output (1 m)[1] with D6	132 • 131 dB SPL	128 dB SPL	134 dB SPL	128 dB SPL
Output (1 m)[1] with D20	135 • 134 dB SPL	131 dB SPL	137 dB SPL	131 dB SPL
Output (1 m)[1] with D80	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 (H x V)	75° • 110° x 40° CD[3,4]	omni directional	80° • 120°[3]	cardioid
Splay angle settings			0° - 14° (1° increments)	0° and 2.5°
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[5]	257 x 630 x 375	500 x 630 x 700[5]
Weight kg	18	41	20	52
Dimensions inch (H x W x D)	22.8 x 10 x 13.4	19.3 x 22.8 x 27.5[5]	10 x 24.8 x 14.8	19.7 x 24.8 x 27.6[5]
Weight lb	40	90	44	115

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
[5]dimensions without wheels

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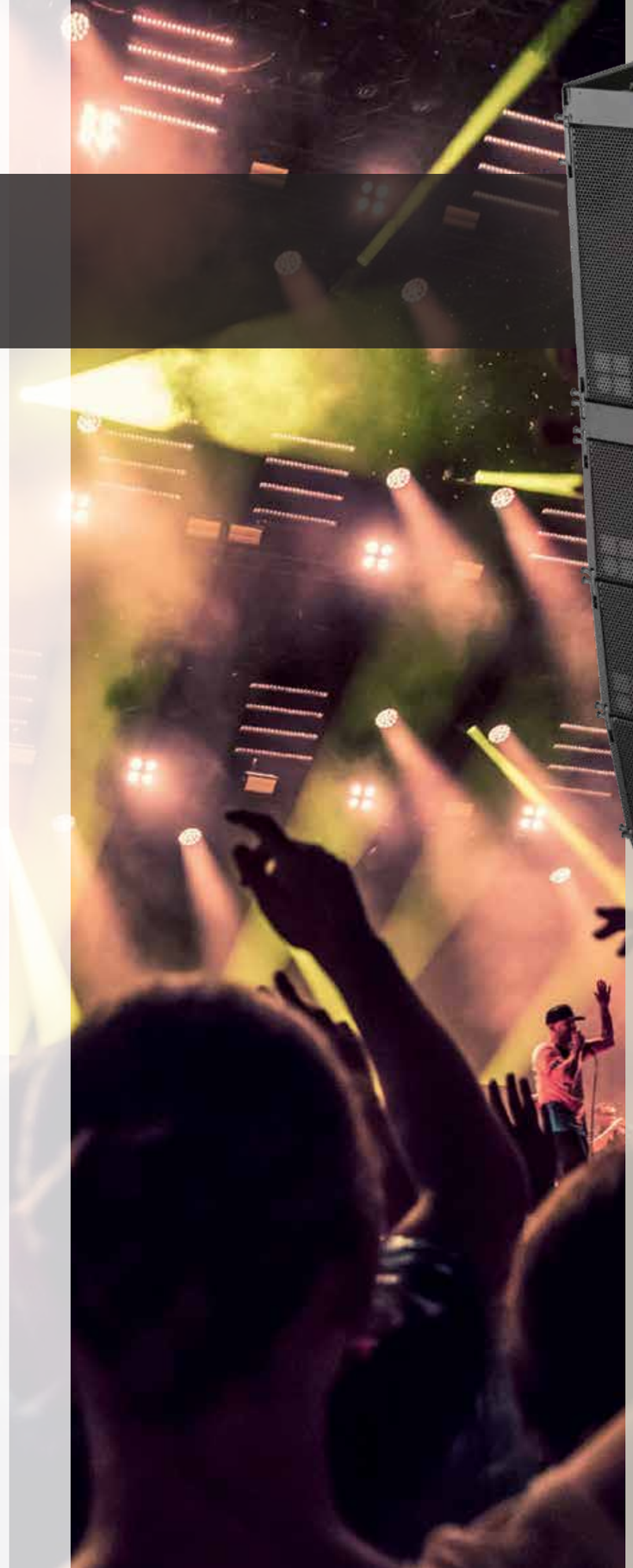
William Tell Open-Air Theatre Interlaken, Switzerland

V-Series.

The 3-way passive V-Series comprises both line array and point source systems for medium to large scale sound reinforcement applications, with complete efficiency and broadband directivity control to low frequencies.

Combine the driver arrangement of the large format J-Series with d&b cardioid subwoofer technology and the V-Series is a verifiable recipe for success. The 3-way passive V8 and V12 line array loudspeakers provide 80° and 120° horizontal dispersion respectively maintained down to 250 Hz. Driven by a single amplifier channel, the cardioid V-SUB provides an impressive rejection of energy towards the rear of the cabinet and can be flown at the top of a V-Series array. These loudspeakers are not only compact but feature an integrated three point rigging system for extra efficiency. However, it isn't its exceptional directivity control or remarkable low weight that sets V-Series 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. What's more, with similar sonic characteristics and horizontal dispersion options, the V-Series is the ideal companion for J-Series and Y-Series systems.

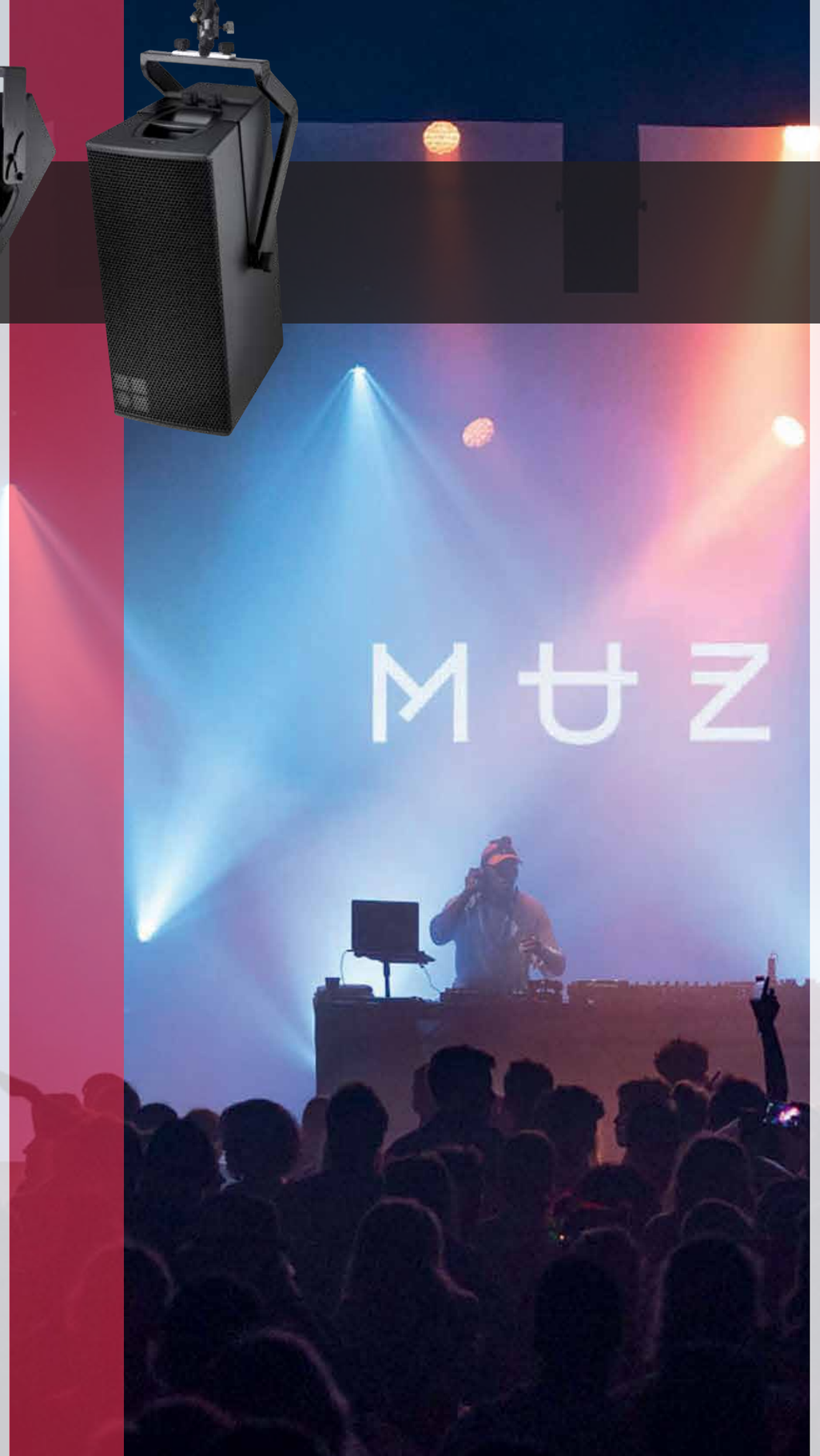


Das Fest, Karlsruhe, Germany

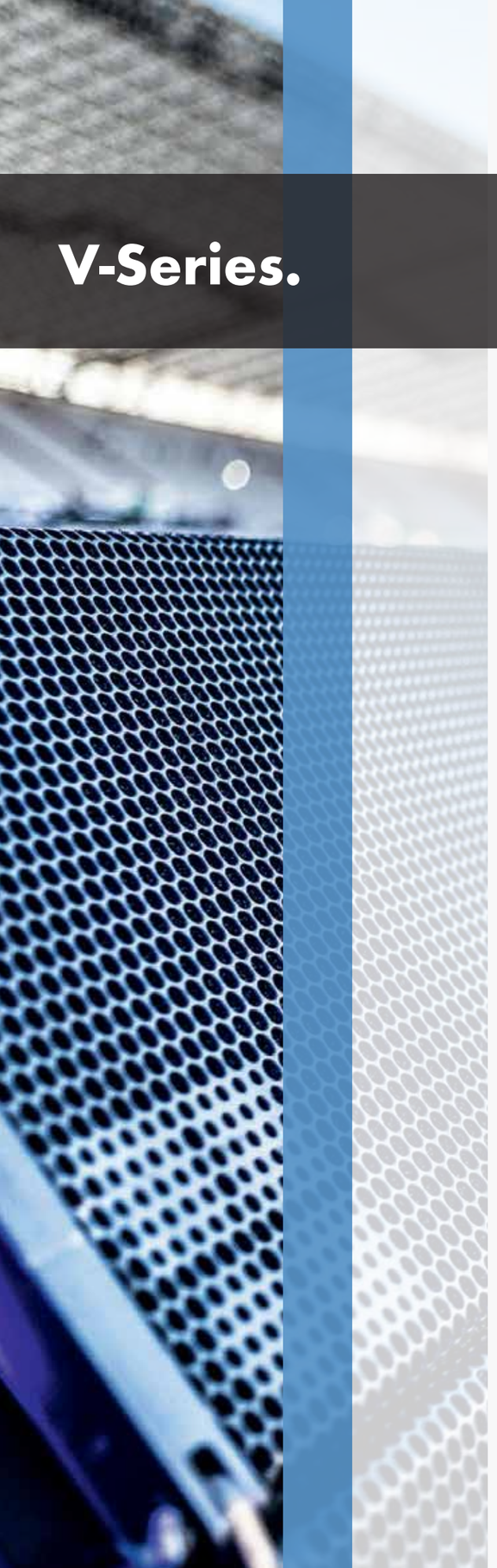
V-Series.

Mirroring the same 3-way passive design are the V7P and V10P point source loudspeakers, housing two 10" low frequency drivers in a familiar bipolar driver arrangement. The central 8" MF driver is mounted onto a unique dual channel mid range horn that produces a 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 V7P and V10P is the V-GSUB, specifically designed for ground stacked applications. With the same driver arrangement as the flyable V-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 application style where sightlines, weight or amplifier channel requirements dictate that a small line array isn't appropriate. The single box solution.



WOMAD Festival, Charlton Park, UK



V-Series.

V-Series	V7P • V10P	V-GSUB	V8 • V12	V-SUB
Components	2 x 10"/1 x 8"/1 x 1.4"	Front 18"/ Rear 12"	2 x 10"/1 x 8"/2 x 1.4"	Front 18"/ Rear 12"
Output (1 m)[1] with D20	137 • 136 dB SPL	133 dB SPL	139 dB SPL	133 dB SPL
Output (1 m)[1] with D80	140 • 139 dB SPL	137 dB SPL	142 dB SPL	137 dB SPL
Power rating[2]	500 / 2000 W	800 / 3200 W	500 / 2000 W	800 / 3200 W
Frequency response (–5 dB)	59 Hz – 18 kHz	37 Hz – 115 Hz	67 Hz – 18 kHz	37 Hz – 115 Hz
Dispersion	75° • 110° x 40° CD (hxv)[3,4]	cardioid	80° • 120° (h)[3]	cardioid
Splay angle setings			0° - 14° (1° increments)	0° and 2.5°
Cabinets per amplifier channel	2	2	2	2
Dimensions mm (H x W x D)	700 x 308 x 466	606 x 700 x 728[5]	310 x 700 x 460	606 x 700 x 728[5]
Weight kg	33	61	34	64
Dimensions inch (H x W x D)	27.5 x 12 x 18.3	23.8 x 27.5 x 28.6[5]	12.2 x 27.5 x 18	23.8 x 27.5 x 28.6[5]
Weight lb	75	135	75	141

CD: loudspeaker with constant directivity horn [1]SPL_{max}peak, test signal: pink noise with crest factor 4 [2]RMS / peak [3]≥350 Hz [4]horn 90° rotatable
[5]dimensions without wheels

Ultra Europe, Split, Croatia
Photo Janko Ramuscak

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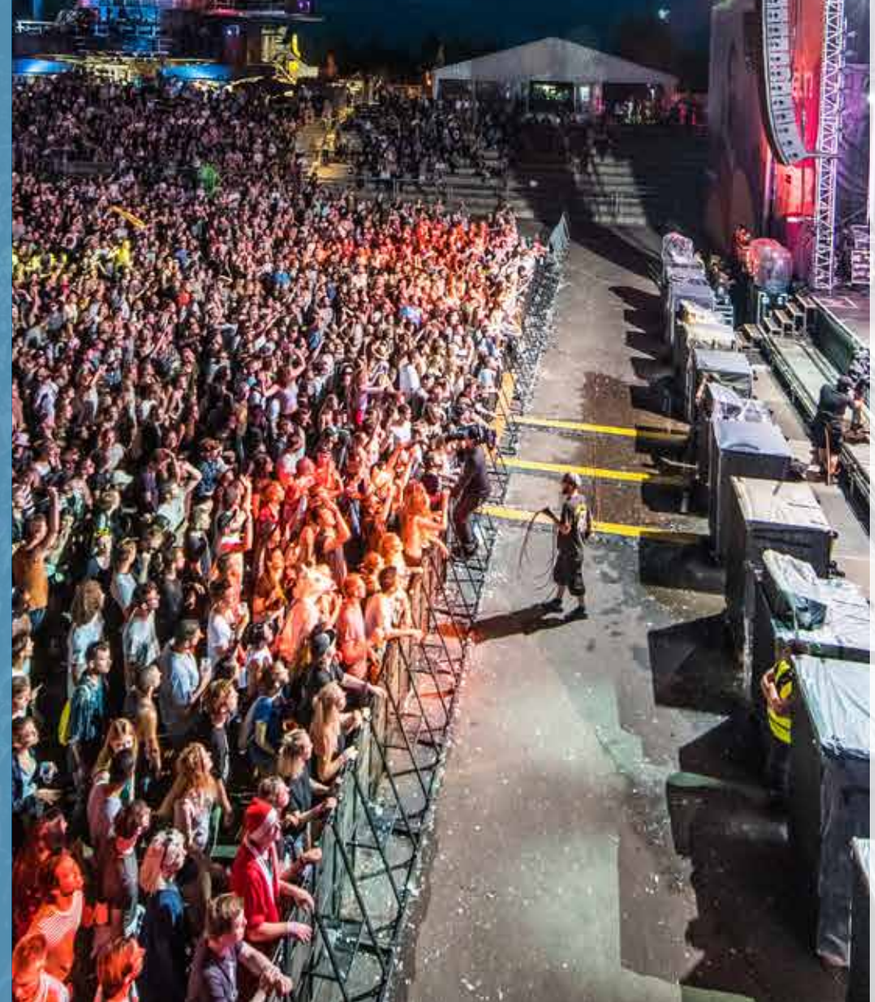
J-Series.

The spectrum of applications d&b systems embrace is expanded by the powerful J-Series. With transparent, detailed audio performance, extraordinarily smooth and even frequency response, dynamic band-width and high power and headroom capability, this industry standard 3-way line array system is an exceptionally good choice for far reaching sound of any style or genre.

This high fidelity Series comprises two loudspeakers, J8 and J12, providing 80° and 120° horizontal dispersion respectively. These line array modules maintain constant directivity control down to extremely low frequencies, while the J-SUB offers either cardioid or hypercardioid performance to avoid unwanted energy behind the system: all acoustically matched and constructed to be mechanically compatible in flown or ground stacked arrays. The Series also includes the J-INFRA cardioid subwoofer, extending the frequency response of this powerhouse system even further.



Melt Festival, Gräfenhainichen, Germany

J-Series.

J-Series	J8	J12	J-SUB	J-INFRA
Components	2 x 12"/1 x 10"/2 x 1.4"	2 x 12"/1 x 10"/2 x 1.4"	3 x 18"	3 x 21"
Output (1 m)[1] with D80	145 dB SPL	143 dB SPL	139 dB SPL	144 dB SPL
Power rating[2] LOW	500 / 2000 W	500 / 2000 W		
Power rating[2] HIGH	200 / 800 W	200 / 800 W		
Power rating[2]			800 / 3200 W[3], 400 / 1600 W[4]	1200 / 4800 W[3], 600 / 2400 W[4]
Frequency response (–5 dB)	48 Hz – 17 kHz	48 Hz – 17 kHz	32 Hz – 100 Hz	27 Hz – 60 Hz
Dispersion (H)	80°[5]	120°[5]	cardioid	cardioid
Splay angle settings	0° - 7° (1° increments)	0° - 7° (1° increments)		
Cabinets per D80 (2-Way Active)	4	4	2	2
Dimensions mm (H x W x D)	360 x 1100 x 570	360 x 1100 x 570	540 x 1100 x 945[6]	685 x 1180 x 1040[6]
Weight kg	60	60	106	152
Dimensions inch (H x W x D)	14.2 x 43.3 x 22.4	14.2 x 43.3 x 22.4	21.3 x 43.3 x 37.2[6]	27 x 46.5 x 41[6]
Weight lb	132	132	234	335

CD: loudspeaker with constant directivity horn [1]SPL_{max} peak, test signal: pink noise with crest factor 4 [2]RMS / peak [3]front drivers [4]rear driver [5]≥250 Hz
[6]dimensions without wheels

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Melt Festival, Gräfenhainichen, Germany

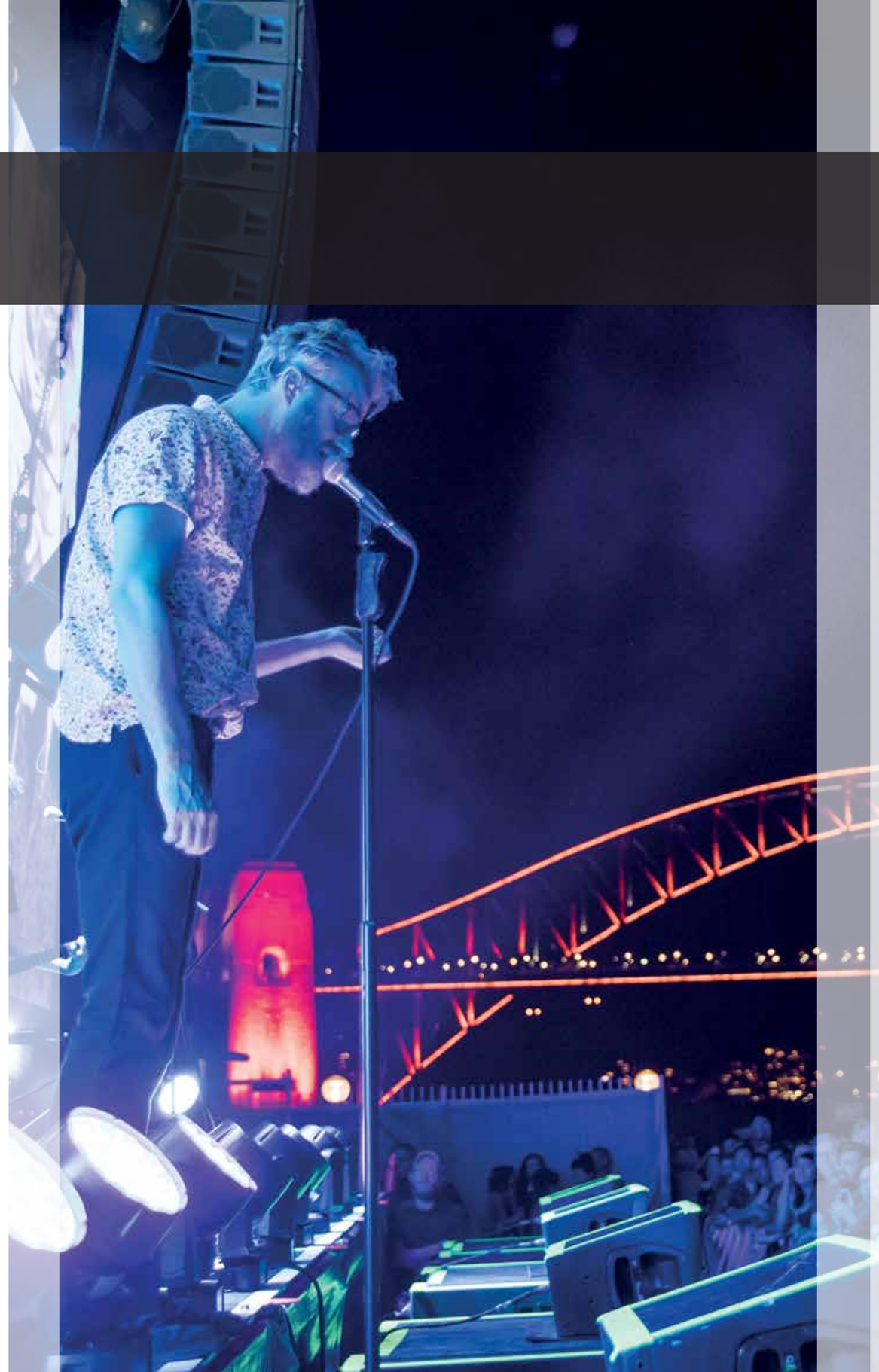
SL-Series.

The SL-Series loudspeakers are the only modern large scale line array modules that deliver accurate horizontal pattern control down to the lowest frequencies they produce. Both GSL and KSL systems provide full bandwidth directivity control with significant low frequency headroom that delivers advantages both for the audience and onstage.

The low frequency geometry uses cardioid technology along with a driver and port layout to produce directivity matched perfectly with the coaxial arrangement of a highly efficient midrange horn and the waveguide mounted high frequency drivers. Complimented in the very low frequencies by the SL-SUB, SL-GSUB, KSL-SUB and KSL-GSUB cardioid subwoofers, exceptional efficiency and headroom place the SL-Series well ahead of the pack. This behaviour rejects energy towards the rear, significantly reducing excitation of the reverberant field, which results in minimized reflections indoors, a superior working environment onstage and less environmental noise outdoors.

Furthermore, staying true to the holistic d&b system approach, the sonic performance and efficiency of the KSL and GSL systems is matched harmoniously by its usability. From effective transport and handling to amplification and cabling; all intended for high speed deployment.

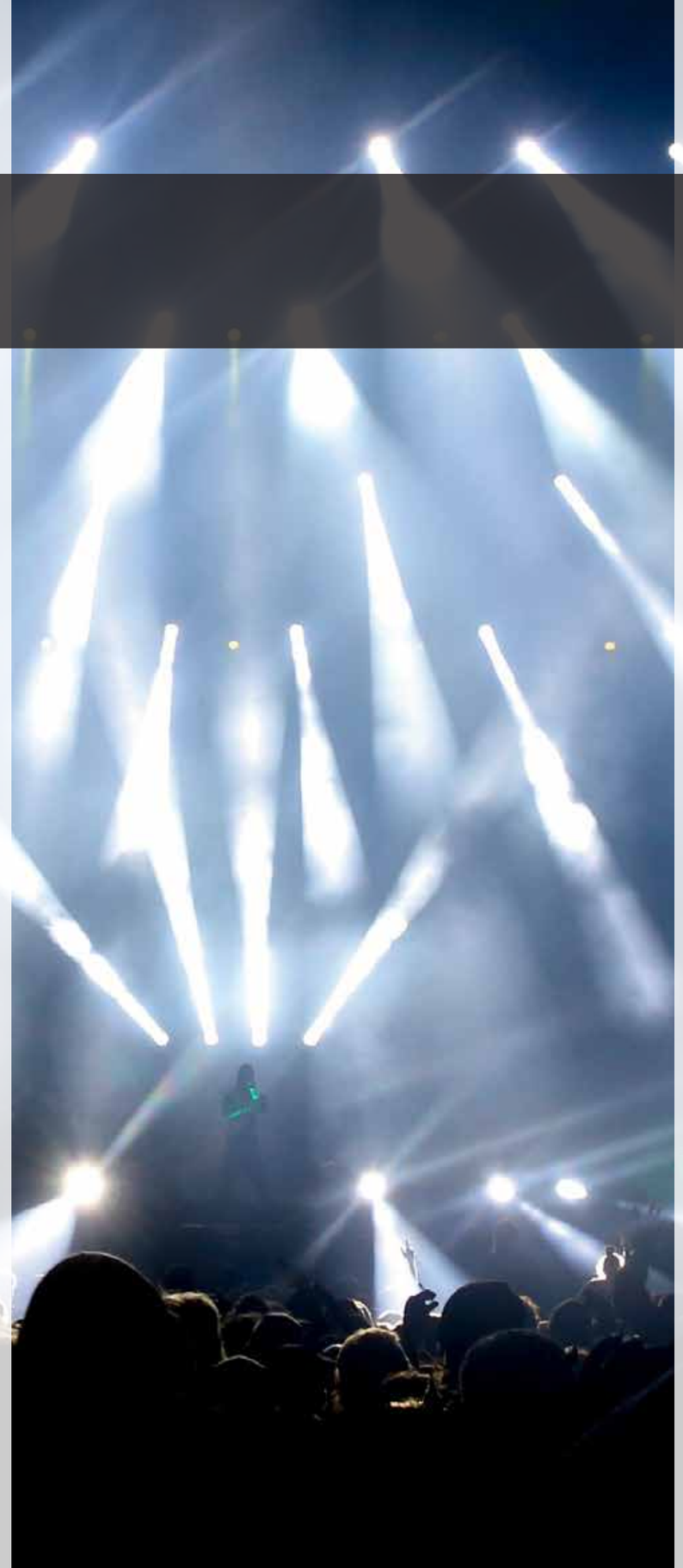
The National, Sydney, Australia
Photo Daniel Boud



SL-Series.

The scale of the KSL System enables deployment in venues ranging from clubs and theaters, all the way up to the largest stadiums and arenas. The KSL8 and KSL12 line array modules are specifically designed for medium to large-scale sound reinforcement. The KSL System is completed by the KSL-SUB and KSL-GSUB cardioid subwoofers; the KSL-SUB can be flown, while the SL-GSUB is designed for ground stacked applications only.

The headroom and sound characteristics possessed by the KSL System accurately conveys any performance style, from a single voice, through the fine detail of acoustic and orchestral musical genres, all the way to the low end rich, high power requirements of dance and rock genres. The ability to address such a breadth of application scales and styles, both indoors and out, facilitates high return on investment from wide ranging venue utilization and flexibility of deployment in mobile situations.

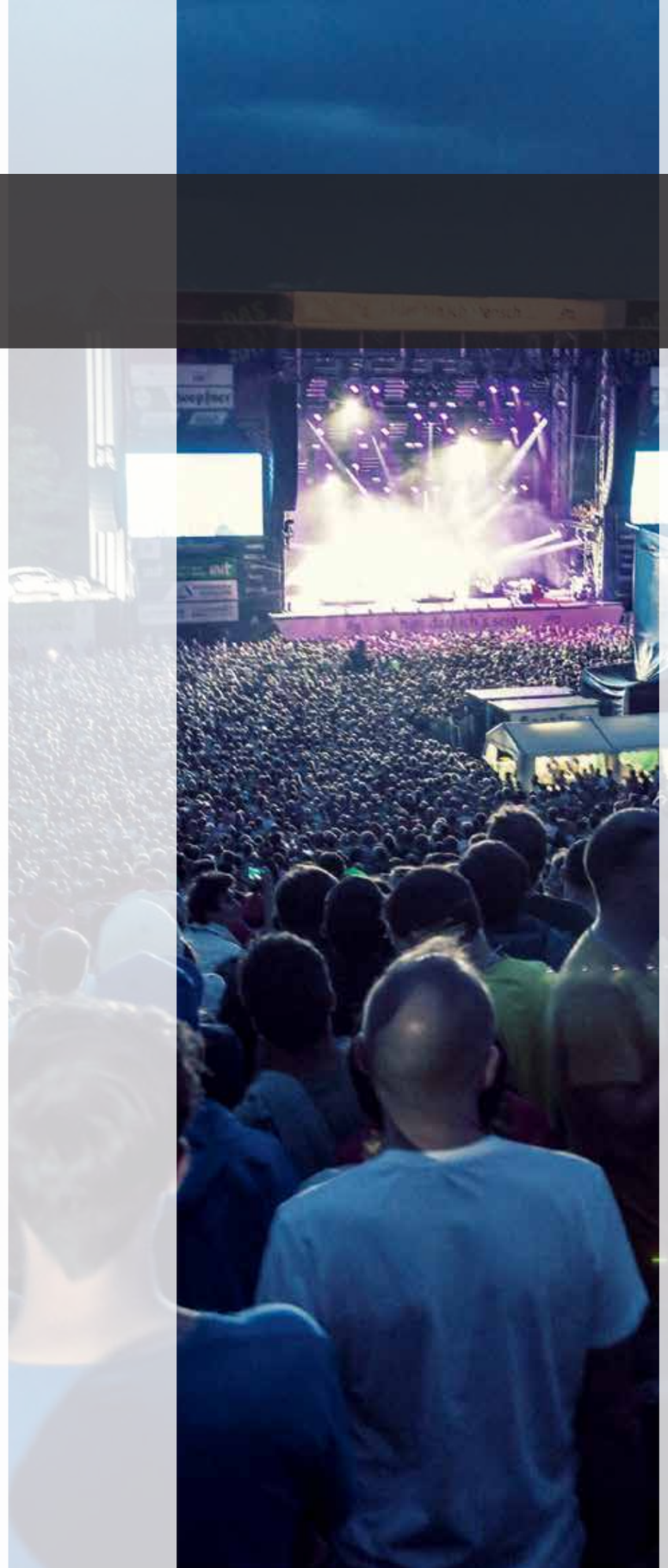


Greenfield, Interlaken, Swiss

SL-Series.

With performance to satisfy any demand, the GSL System is intended for the largest applications and events around the world. It produces the maximum performance and efficiency, while maintaining precise horizontal directivity control over the entire audio spectrum. The GSL8 and GSL12 are the only modern large-scale line array modules that maintains accurate horizontal pattern control all the way down to 45 Hz. The GSL System is completed by the SL-SUB and SL-GSUB cardioid subwoofers; the SL-SUB can be flown, while the SL-GSUB is designed for ground stacked applications only.

The sonic performance and efficiency of the SL-Series systems is matched with usability through effective transport, handling and cabling. A patented combination of tension and compression rigging modes is incorporated: tension mode uses the well-established d&b three-point rigging approach, while the compression mode needs a smaller footprint and is faster and safer for large arrays. Designed to be easily accommodated in standard truck widths and shipping containers, a range of touring carts is offered. Covers are available to protect the systems during transportation.



Das Fest, Karlsruhe, Germany

SL-Series.

SL Series	KSL8 • KSL12	GSL8 • GSL12	KSL-SUB • KSL-GSUB	SL-SUB • SL-GSUB
Components	2 x 10"/2 x 8"/1 x 8"/2 x 1.4"	2 x 14"/2 x 10"/1 x 10"/3 x 1.4"	3 x 15"	3 x 21"
Output (1m)[1] with D80	145 • 144 dB SPL	150 • 149 db SPL	139 dB SPL	144 dB SPL
Power rating[2] Front	450 / 1800 W	800 / 3200 W		
Power rating[2] Side	250 / 1000 W	800 / 3200 W		
Power rating[2]			900 / 3500 W[3], 500 / 2000 W[4]	1000 / 4000 W[3], 500 / 2000 W[4]
Frequency response (–5 dB)	54 Hz – 18 kHz	45 Hz – 18 kHz	36 Hz – 105 Hz	30 Hz – 84 Hz
Dispersion (H)	80° • 120° cardioid	80° • 120° cardioid	cardioid	cardioid
Splay angle settings	0° - 10° (1° increments)	0° - 7° (1° increments)		
Cabinets per D80 (2-Way Active)	4	2	2	2
Dimensions mm (H x W x D)	330 x 1000 x 597	391 x 1300 x 627	450 x 1000 x 900[5]	585 x 1300 x 975[5]
Weight kg	58	80	82 • 78	138 • 132
Dimensions inch (H x W x D)	13 x 39.4 x 23.5	15.4 x 51.2 x 24.7	23 x 51.2 x 38.4[5]	23 x 51.2 x 38.4[5]
Weight lb	128	176	181 • 172	304 • 291

CD: loudspeaker with constant directivity horn [1]SPLmax: Broadband signal IEC 60268 [2] RMS / peak [3] Front drivers [4] Rear driver
[5] Dimensions without wheels

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Das Fest, Karlsruhe, Germany

Monitors.

Whether providing sound reinforcement for the audience or monitoring for the artist, who could deny both are equally integral to the success of a performance? This is why the M2, M4, M6 and MAX2 monitors present compact dimensions, more than adequate power, functional and unobtrusive cabinet designs, exceptional performance, remarkable vocal presence and uncompromising clarity. Ease of operation, neutral sound reproduction, well defined dispersion and guaranteed high feedback stability even at the most extreme levels, combine to realize an efficient tool and neutral platform for the engineer and artist alike. That's what makes the d&b monitors internationally rider friendly and the global standard for performances of any kind.

Hubert von Goisern, Cologne, Germany

Monitors.

Monitors	M2	M4	M6	MAX2
Components	2 x 12" / 1.4" coaxial	15" / 1.3" coaxial	12" / 1.3" coaxial	15" / 1.4" coaxial
Output (1m)[1] with D6		134 dB SPL[2]	132 dB SPL[2]	131 dB SPL
Output (1m)[1] with D20		138 / 140 dB SPL[2]	135 / 138 dB SPL[2]	135 dB SPL
Output (1m)[1] with D80	143 dB SPL	138 / 140 dB SPL[2]	135 / 138 dB SPL[2]	135 dB SPL
Power rating[3]		400 / 1600 W	400 / 1600 W	250 / 1600 W
Power rating[3] LOW	500 / 2000 W			
Power rating[3] HIGH	50 / 200 W			
Frequency response (–5 dB)	50 Hz – 17 kHz[4]	55 Hz – 17 kHz[4]	65 Hz – 17 kHz[4]	55 Hz – 20 kHz[4]
Dispersion (H x V)	45° x 60° CD[5]	50° x 70° CD[6]	50° x 80° CD[6]	75° conical
Cabinets per amplifier channel D6		2[7]	2[7]	2[7]
Cabinets per amplifier channel D20		2[9]	2[9]	2[7]
Cabinets per amplifier channel D80	2[8]	2[9]	2[9]	2[7]
Dimensions mm (H x W x D)	419 x 680 x 560[10]	363 x 580 x 505[10]	332 x 486 x 455[10]	354 x 580 x 496[10]
Weight kg	38	20	16	23
Dimensions inch (H x W x D)	16.5 x 26.8 x 22.1[10]	14.3 x 22.8 x 19.9[10]	13.1 x 19.1 x 18[10]	14 x 22.8 x 9.5[10]
Weight lb	83	44	35	50

CD: loudspeaker with constant directivity horn [1]SPL_{max} peak, test signal: pink noise with crest factor 4 [2]passive / 2-Way Active mode
[3]RMS / peak [4]with floor coupling [5]≥600 Hz [6]90° rotatable for 70° (M4) / 80° (M6) x 50° dispersion [7]used in passive mode only
[8]used in 2-Way Active mode only, 4x M2 per D80 [9]used in passive mode, when used in 2-Way Active mode up to 4 loudspeakers per D20 / D80 may be connected
[10]overall dimensions (projected footprint)

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Seiler and Speer, Vienna, Austria

B22-SUB.

As the largest omnidirectional subwoofer in the d&b audiotechnik arsenal, the B22 subwoofer houses two 18" drivers with neodymium magnets built into an efficient bandpass horn cabinet. This design produces high Sound Pressure Levels along with an extended frequency response to ensure the B22-SUB is the ideal omnidirectional option for any large format sound reinforcement application, or as an infrabass supplement for other d&b subwoofers.

	B22-SUB
Components	2 x 18"
Output (1 m)[1] with D20	140 dB SPL
Output (1 m)[1] with D80	143 dB SPL
Power rating[2]	1000 / 4000 W
Frequency response (–5 dB)	37 Hz - 90 Hz / 32 Hz - 68 Hz[3]
Cabinets per amplifier channel	1
Dimensions mm (H x W x D)	585 x 1160 x 920[4]
Weight kg	106
Dimensions inch (H x W x D)	23 x 45.7 x 36.2[4]
Weight lb	234

[1] SPL_{max} peak, test signal: pink noise with crest factor 4 [2] RMS / peak
[3] standard/INFRA mode [4] dimensions without wheels

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Electric Daisy Festival, Las Vegas, NV, US

A matter of fact.
Racks that match the stacks.

The d&b system approach goes beyond perfectly aligned amplifiers and loudspeakers working in total harmony; a d&b system means the complete package, including hardware and software and everything inbetween.

The D20 Touring rack assembly accommodates three D20 amplifiers, while the D80 Touring rack assembly has two options, an assembly for three, or another for six. The D80 rack utilizes the MC24/LKA25 loudspeaker multicore solution. Efficient cabling systems guarantee the fastest setup and simplest pack down.

Up to twenty four T, Y, or V-Series line array loudspeakers can be driven with ArrayProcessing from a single D80 Touring rack assembly, while a total of forty eight Y-Series or V-Series line array modules can be driven in standard mode with linked loudspeakers.

With six D80 amplifiers in a single rack, a total of twelve of SL- or J-Series cabinets can be driven with ArrayProcessing, or twenty four channels in standard mode with linked loudspeakers (except GSL).

Chemical Brothers, Alexandra Palace, London, UK
Photo Luke Dyson

Accessories and transport solutions.

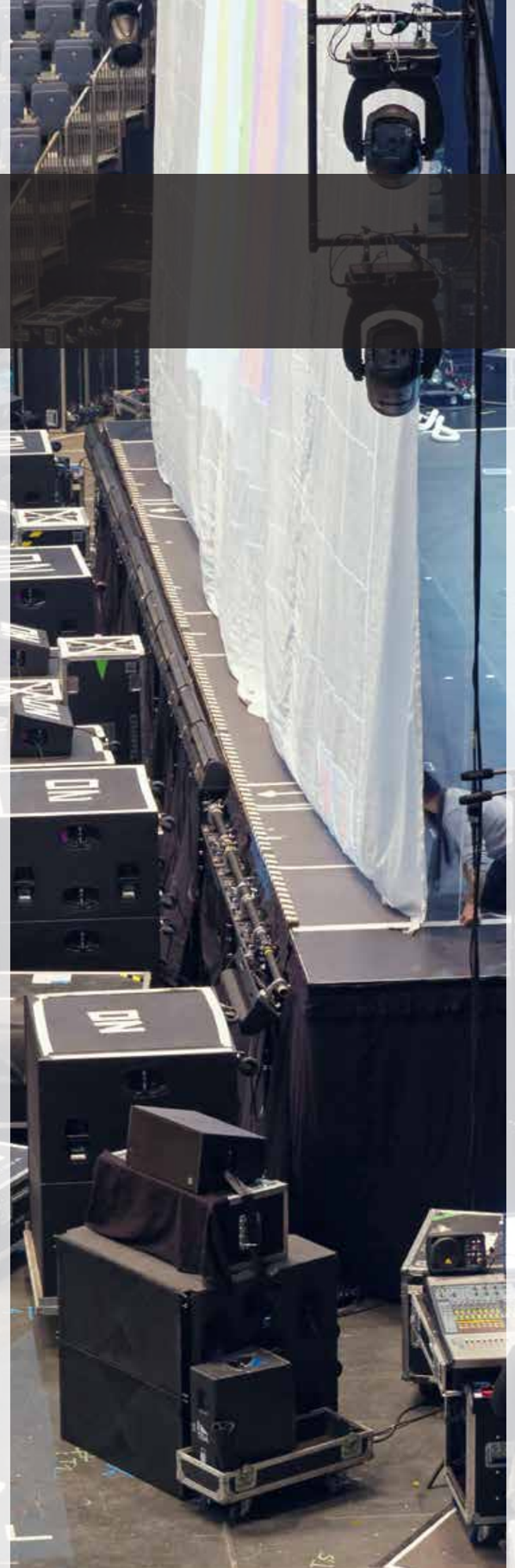
Just a few examples: Pipe clamp, Horizontal bracket, Flying frame or Super clamp; mechanical accessories to fix, fly, hold or attach d&b loudspeakers for all their worth. In sum, d&b offers more than a hundred accessories, not just universal ones, but Series specific as well; meticulously tailor made for purpose 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.

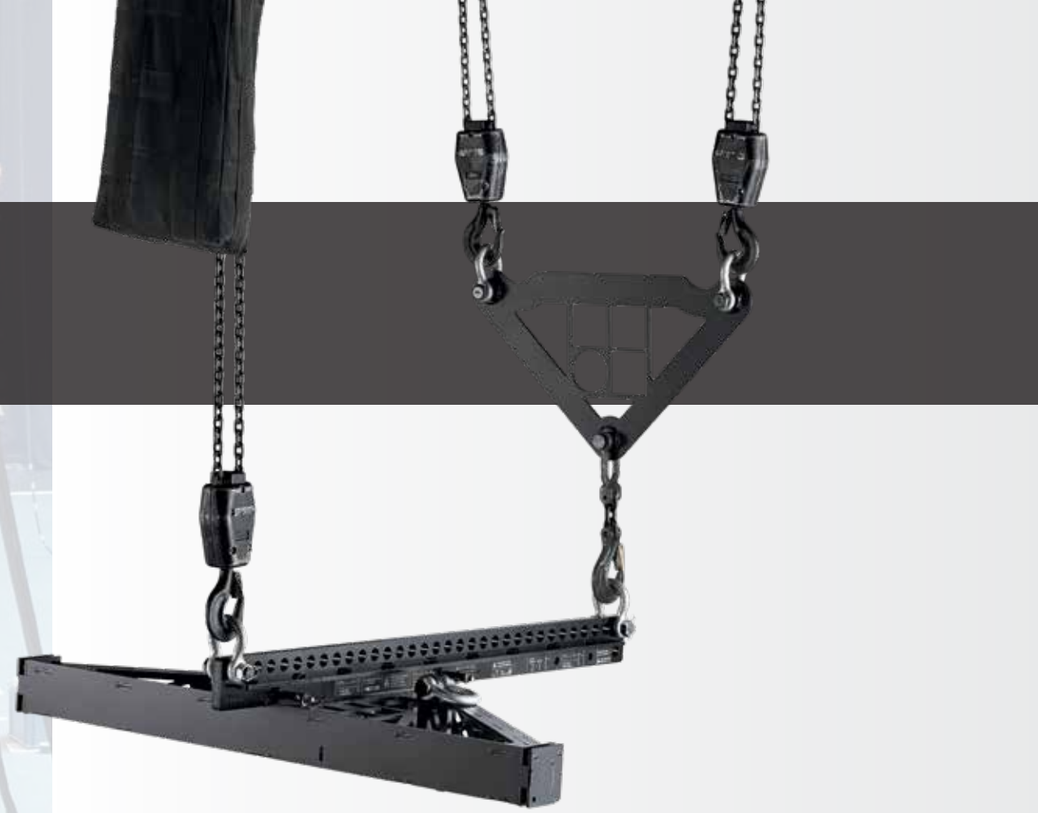
A selection of transport solutions is offered for d&b loudspeakers, consisting of touring cases, touring carts as well as transport lids.

The loudspeaker carts accommodate either four Y-Series line array loudspeakers, or four V8 and V12 cabinets. Splay angles can be preset and made ready to fly, just as soon as the lid is off.

Designed to be easily accommodated in standard truck widths and shipping containers, the SL-Series touring carts transport either four GSL8 and GSL12 loudspeakers or three SL-SUBs. The Flying frame remains attached for transportation allowing the loudspeakers to be lifted directly from the cart. A cart is also available for three SL-GSUBs. Covers are available to protect the systems during transportation.

Deichkind, Cologne, Germany





SLEEP, Los Angeles, CA, US
Chemical Brothers, London, UK, Photo Daniel Boud
The National, Sydney, Australia, Photo Luke Dyson
Björk, Cornucopia Tour, The Shed, New York, US

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