

Odin

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Active | Versatile | Character



Odin Audio Systems

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Welcome to Odin territory

Since the introduction in 2016 the active line array from Dap Audio's Odin Audio Systems surely made a name for itself. Odin took to the roads and could be found almost everywhere. Present at the leading events in Europe, having its own UK Summer Tour, various Pop up-shows and being put to work at numerous concerts, gigs and festivals. Due to Odin's versatility it can be used very well at small to medium sized venues. The user-friendly Celestion-driven system consisting of the T-8A Satellite, S-18A Subwoofer and S-218A 2x18" Ultra sub is very easy to setup. The three point suspension system, 9 predefined presets including 1 user-definable preset and specially designed enclosures guarantee straightforward handling with crisp, clear sounds.

Developed in the Netherlands, Odin was designed keeping in mind the requirements of the professional users but also catering to the needs of less experienced users. To make sure that everybody can arrange the perfect setup for their venue, you will have free access to the "EASE Focus" software with which you can create a fitting setup for your venue every time. The best possible acoustic resonance in the low/mid and mid frequencies is obtained by using the specially constructed waveguide, resulting in an optimal sound dispersal. The biggest member of the Odin family, the S-218A 2x18" Ultrasub is living proof of the fact that an extreme low output can be obtained through a strong construction. This line array system delivers, everywhere!



powered by
CELESTION

Celestion Components inside

Celestion started nearly a century ago in 1924 as a small company, designing and building speakers for the radio market. Eight years later they made one of their many technical improvements by building a permanent magnet moving coil loudspeaker. In the late fifties they developed the most famous guitar loudspeaker of all times, the Celestion Blue.

It was no difficult decision to incorporate Celestion into the Odin Line array designs. A brand with almost 100 years of experience, knowledge and a reputation built on groundbreaking innovations is the right partner for a range like Odin. Mr Aidan McFall, sales manager at Celestion, had the following to say about the cooperation: "From the outset of the ODIN project the ODIN design team had a clear idea of what was required and we had loudspeaker solutions available that, when combined with the cabinets the ODIN team have designed - do a truly outstanding job."



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ODIN T-8A

D3900 Line Array Satellite

Commitment to dual quality was the first priority in designing and engineering the Odin 2-way full range, active array T-8A Satellite. The sound-quality is very important. That is why the T-8A is equipped with 2x8" Neodymium MID Woofers and 2x1" Celestion Neodymium compression drivers. A specially designed Waveguide and DSP optimized amplification make sure that the T-8A delivers. Equally important is the enclosure itself. High grade materials to keep the unit safe during handling, transportation and in the field. No concessions have been made to develop the perfect enclosure with strong 18mm birch plywood housing and an easy to handle 3-point suspension system.



Special features:

- Celestion components inside
- Waveguide for optimized low-mid frequency directivity
- Single user 3-point suspension system
- DSP optimized Amplification ensures highest reliability
- Multivoltage Power supply with active PFC



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Technical Information

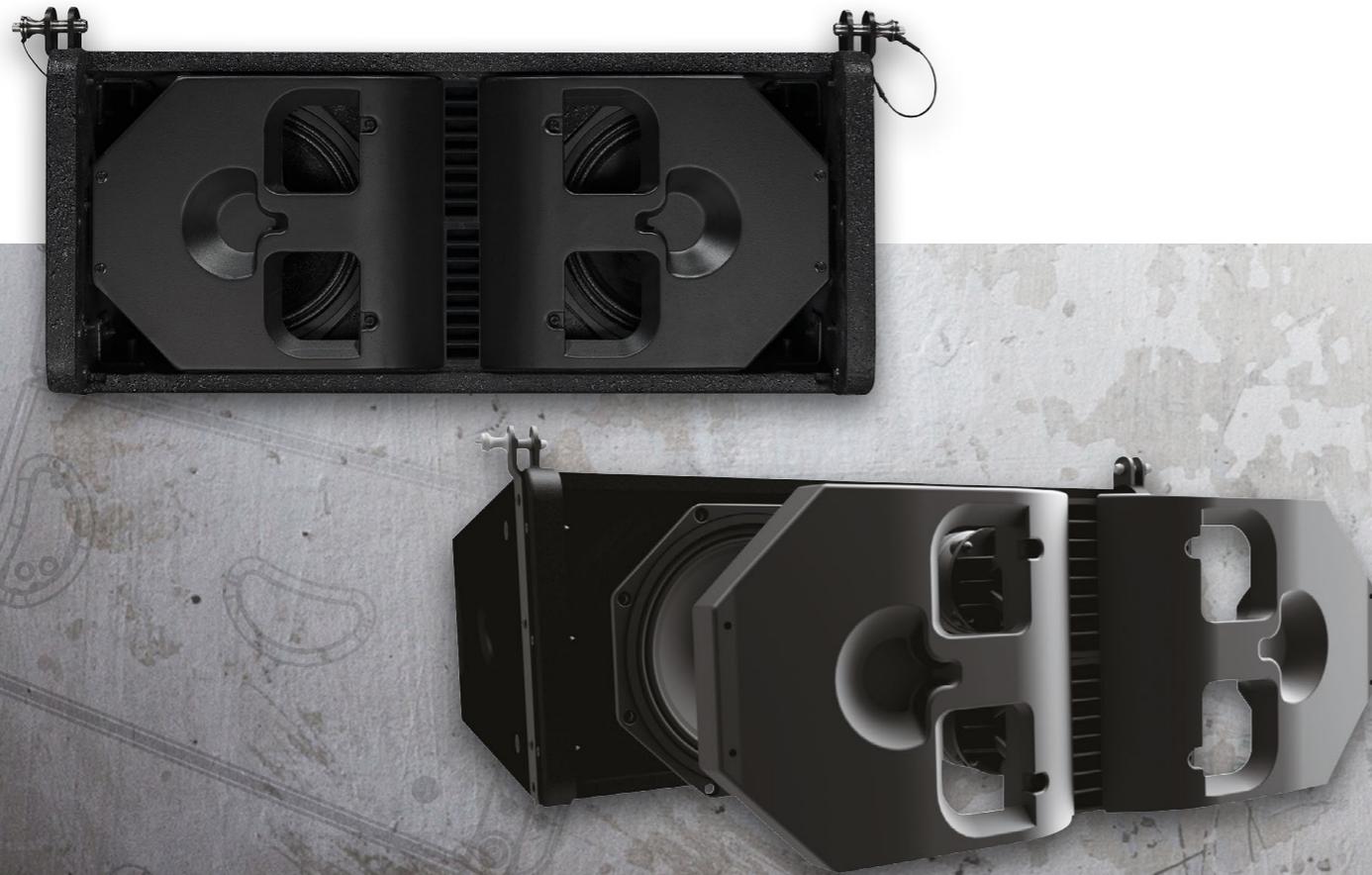
System:	2-way full range, Active Array Element
AMP Power:	800 W Continuous, Bi-AMP(Class D-650 W LF, Class AB-150 W HF), 3200W Peak
Speaker:	2x 1" Celestion Neodymium Compression Driver, 1.75" Voice Coil, 80W RMS, 320W Peak 2x 8" Celestion Neodymium MID Woofer, Water Resistant Coating, 2" Voice Coil, 400W-RMS/1600W-Peak
Frequency Response (+/-3dB):	80 Hz - 19 kHz
MAX SPL @ 1m:	129dB
Crossover frequency:	1,6 KHz
Dispersion(-6dB):	100° Horizontal / 10° Vertical
Cooling:	Passive Cooling + forced cooling inside
Audio Connector:	XLR In- and output
Data Connector:	RJ45 Data In & Link Cascading Connector
External Controls:	9 Fixed Preset + 1 Editable preset, Power Switch with LED indicators for Clip / SIG / PROT
DSP Processor:	32 bit , 24bit/48kHz Audio conversion AD/DA
Electronic Protections:	Thermal / Convection-Fan / Overload / Digital Limiter / Compressor
Mains Connector:	Neutrik PowerCON Connector In & Out
Power Supply:	100 ~ 240VAC, 50Hz/60Hz
Power Consumption:	1100W
Enclosure Construction:	18mm Birch Plywood, Resistant Black Paint, 1.5T Metal Grill with Foam, Two Handles on Each Side, Water Resistant Coating
Mounting:	3-point Suspension, Horizontal Trapezoid 2 x 6.5°
Dimensions (LxWxH):	635 x 468 x 300 mm
Net Weight:	22.5 Kg / 49.5 lbs
Optional Accessories:	Flybar, Polemount Adaptor, Ground stacking feet, Flying Pin, DSP Network Interface



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Waveguide

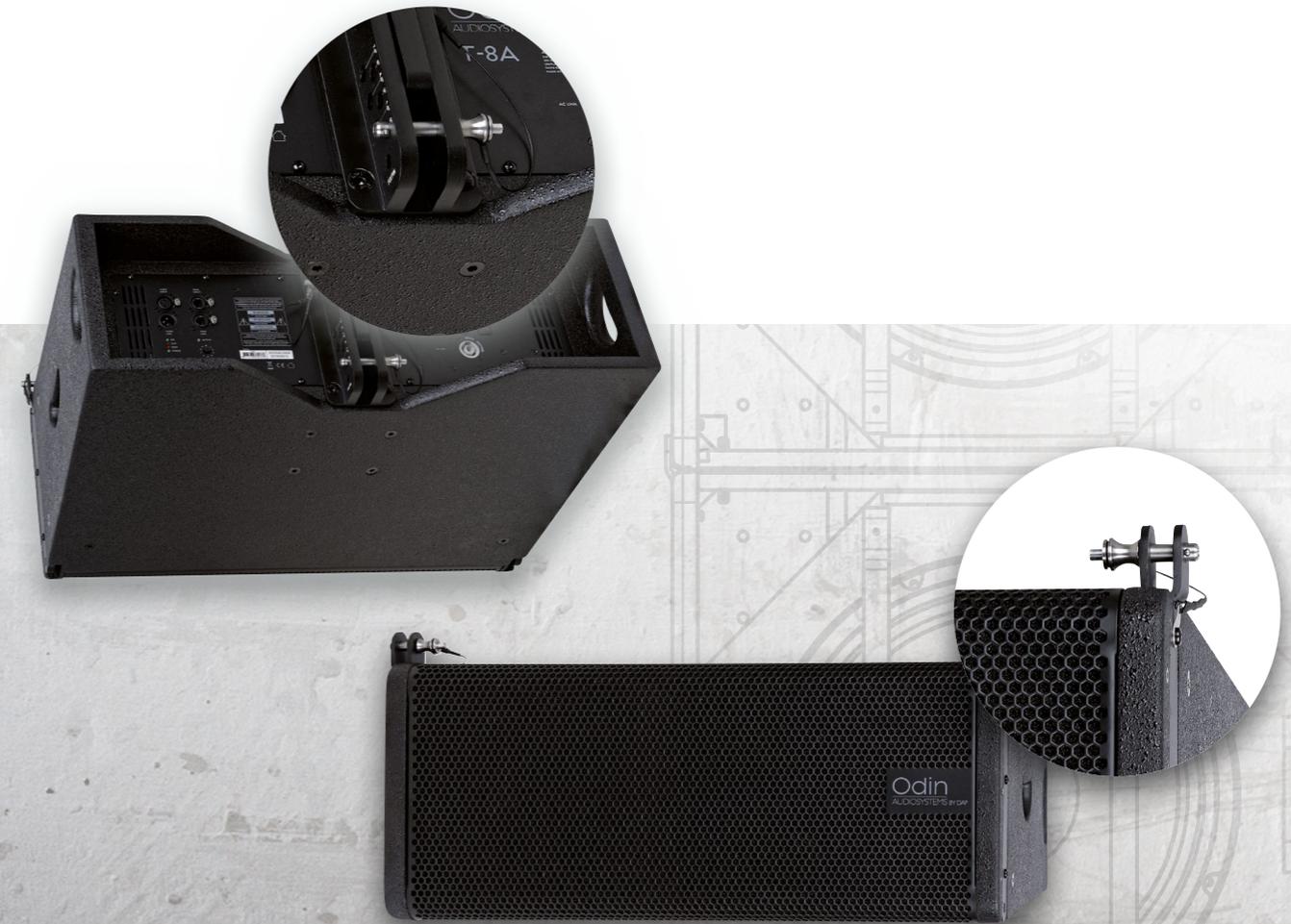
The Odin T-8A Satellite not only incorporates Celestion speakers and DSP optimized amplification. To make sure that the Satellite delivers, a specially designed and dedicated Waveguide has been engineered which produces the best possible sound dispersion. The Waveguide maximizes the efficiency of the speaker because it generates a more equal dispersion of frequencies and amplifies the output during the process as well.



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Single user 3-point suspension system

Odin is designed with the utmost ease of use in mind. This certainly applies to the various installing methods of the T-8A satellite. Especially the single user 3-point suspension system with fixed angle ability is very helpful in these setups. This suspension system offers a lot of ease to the rigger who has to put it all together. With one hand he can determine and fix the required angle. The corresponding T-8A flightcase is a big help as well because it holds up to 4 units and with a single user they can be installed smoothly.



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ODIN S-18A

D3901 Line Array Subwoofer

The Odin-range continues with the S-18A Active subwoofer, equipped with an 18" Celestion Ferrite Magnet subwoofer with 4" Voice coil. The enclosure itself has been constructed out of the same high grade material and finish like the T-8A Satellite. With 1500W continuous Class D amp power and 6000W peak power the S-18A is a true powerhouse which performs every time. This subwoofer can be used for various setups due to the different mounting options. Use the optional M20 pole mount to arrange a Satellite setup. Or integrate the optional stack frame or fly bar and use the 4-point suspension points to arrange a stack or Line Array setup which suits your venue best.



Special features:

- Celestion 18" woofer inside
- High Power 1.5KW Class-D Amplifier
- DSP optimized Amplification ensures highest reliability
- Multivoltage Power supply with active PFC



Technical Information

System:	Active Subwoofer, Active Array Element
AMP Power:	1500 W Continuous Class D, 6000W Peak
Speaker:	18" (450mm) Celestion, Ferrite Magnet Subwoofer, 4" Voice Coil, 1200W RMS, Water Resistant Coating
Frequency Response (+/-3dB):	41 Hz - 110 Hz
MAX SPL @ 1m:	136dB
Directivity:	Omnidirectional
Cooling:	Passive Cooling + forced cooling inside
Audio Connector:	XLR In- and output
Data Connector:	RJ45 Data In & Link Cascading Connector
External Controls:	9 Fixed Preset + 1 Editable preset, Power Switch with LED indicators for Clip / SIG / PROT
DSP Processor:	32 bit , 24bit/48kHz Audio conversion AD/DA
Electronic Protections:	Thermal / Convection-Fan / Overload / Digital Limiter / Compressor
Mains Connector:	Neutrik PowerCON Connector In & Out
Power Supply:	100 ~ 240VAC, 50Hz/60Hz
Power Consumption:	2000W
Enclosure Construction:	18mm Birch Plywood, Resistant Black Paint, 1.5T Metal Grill with Foam, Rubber Feet, Two Handles on Each Side, Water Resistant Coating
Mounting:	M20 Metal Polemount, 4-point Suspension
Dimensions (LxWxH):	700 x 635 x 665mm
Net Weight:	58.5 Kg / 128.7 lbs
Optional Accessories:	Flybar, Polemount Adaptor, Ground stacking feet, Flying Pin, DSP Network Interface



CL-4, Odin Editor

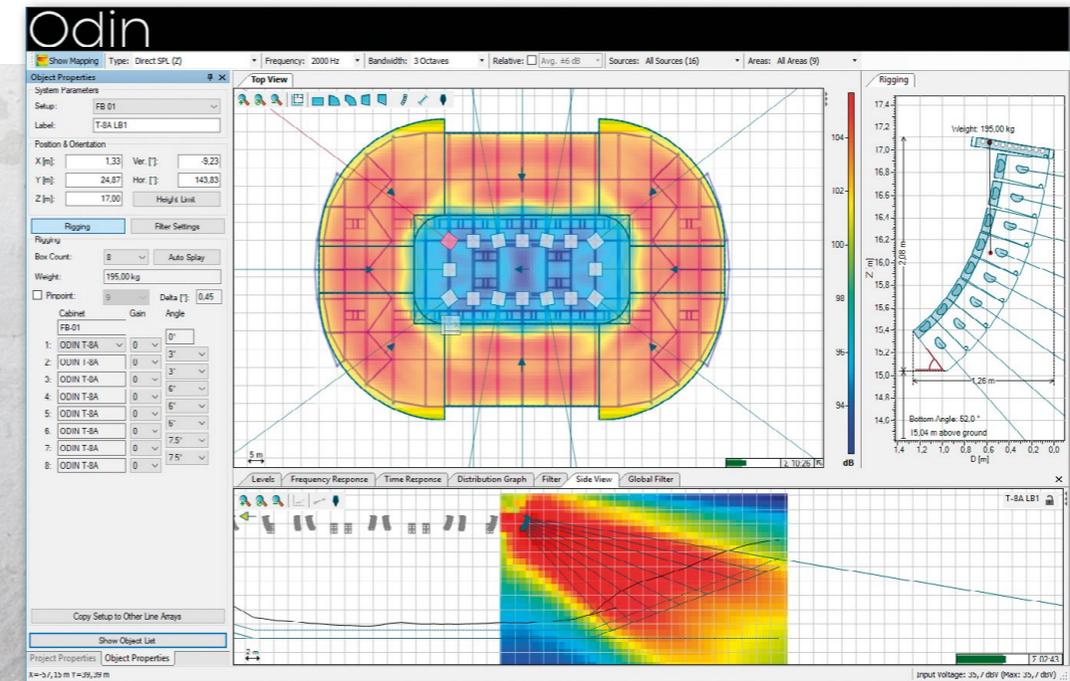
The Odin T-8A Satellite, S-18A Subwoofer and S-218A Ultra Subwoofer are all equipped with a DSP preset selector. Each unit has its own dedicated, fixed settings for various live gigs or events. This feature has been added to give all users the possibility of using the line array system the way it is meant to be used. For professional users who need more specific settings, one editable preset has been added. With the CL-4 Connect network interface combined with the free downloadable Windows-software Odin Editor this preset can be fine-tuned completely. Simply install the Odin Editor software and using a Wifi-connection, the CL-4 interface communicates between your personal computer and the Odin line array system.



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Ease Focus 3

Sometimes it is difficult to decide how your line array setup should be. How many satellites are needed, which subs to use with which settings, where to place the speakers at which angle. All these questions can be answered by using Windows-based EASE Focus 3, an acoustic simulation program for 3D modelling of line arrays, sub arrays, digitally steered columns and conventional loudspeakers. Thanks to the support from major loudspeaker manufacturers, EASE Focus 3 is free software for the end user. Based on AFMG's leading simulation software EASE, this concept made it possible to implement a broad scope of features and functionality. Define audience areas, section views and receiver locations flexibly. Calculate sound coverage and frequency response immediately. Simply download the EASE Focus 3 software, enter information about the location and venue, select the Odin line array speakers you would like to use and calculate the best setup possible.



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ODIN S-218A
D3902 Ultra Sub

It is heavy weight, extra-large, produces an awesome wall of sound and with a range to 28Hz delivers extreme low bass. Presenting the Odin S-218A 2x18" Ultra subwoofer. The biggest Odin family member yet is with its 115.5kg and 140cm definitely no pushover. Built around 2x18" Celestion Ferrite Magnet Subwoofers with 5" voice coils, 4kW continuous Class D Amp power and 10kW peak power, the terms "Loud 'n Low" almost become an understatement. The Odin S-218A is equipped with various DSP presets including "Cardioid" and "End Fire"-mode. A great addition to the T-8A Satellite and S-18A Subwoofer to, literally, bring more punch and more depth to your live gig.



Special features:

- Celestion 2x18" woofers inside, 5" Voice coil
- High Power 4KW Class-D Amplifier
- DSP optimized Amplification ensures highest reliability
- Frequency Response (-6dB) 28 Hz-110 Hz

Technical Information

System:	Active Subwoofer
AMP Power:	4000 W Continuous Class D, 10000W Peak
Speaker:	2x18" (450mm) Celestion, Ferrite Magnet Subwoofer, 5" Voice Coil, 1600W RMS, Water Resistant Coating
Frequency Response (-6dB):	28 Hz - 110 Hz
MAX SPL @ 1m:	141dB
Directivity:	Omnidirectional
Cooling:	Passive Cooling + forced cooling inside
Audio Connector:	XLR In- and output
Data Connector:	RJ45 Data In & Link Cascading Connector
External Controls:	9 Fixed Preset + 1 Editable preset, Power Switch with LED indicators for Clip / SIG / PROT
DSP Processor:	32 bit , 24bit/48kHz Audio conversion AD/DA
Electronic Protections:	Thermal / Convection-Fan / Overload / Digital Limiter / Compressor
Mains Connector:	Neutrik PowerCON Connector In & Out
Power Supply:	100 ~ 240VAC, 50Hz/60Hz
Power Consumption:	4000W
Enclosure Construction:	18mm Birch Plywood, Resistant Black Paint, 1.5T Metal Grill with Foam, Rubber Feet, Two Handles on Each Side, Water Resistant Coating
Mounting:	none
Dimensions (LxWxH):	1400 x 635 x 665mm
Net Weight:	115.5 Kg / 254.6 lbs



Cardioid setup

With the Odin S-18A and S-218A subwoofers various setups are possible. Two of the most used setups during events are the Cardioid or the End Fire setup. The Cardioid setup offers the solution during events where output on the rear of the subs is desired to be nearly inaudible or preferably non-present. This occurs for instance during live events at a town square or in urban, populated areas. By changing the position of a subwoofer in a line-up backwards, adjusting the delay time and flipping the polarity via the Odin

Editor software with the CL-4 interface, the rear output can be customized accordingly. The Odin S-18A and S-218A subwoofers both have DSP preset selectors which offer various presets for live environments. Cardioid settings have already been made as a preset or make your own settings through the CL-4 combined with the Odin Editor.



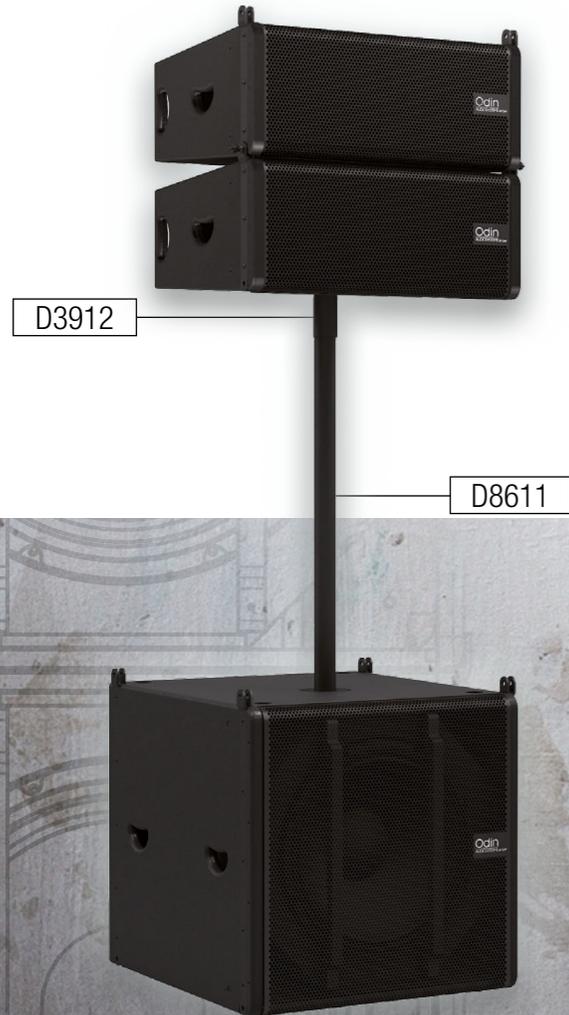
End Fire setup

The End Fire setup provides an in-phase addition on the forward side of the subwoofer array with a substantial amplification and out-of-phase rejection on the rear. This configuration is mainly used during larger events where the boost in output is necessary to carry the output from the source over a substantial distance. To obtain the End Fire effect a number of subwoofers are needed, standing in a row one after the other. The output multiplies and by adjusting the delay time between the units to compensate the displacement, the desired effect is achieved. The Odin S-218A Ultra subwoofer has a DSP preset selector with which various pre-programmed preferences can be chosen. End fire settings have already been made as a preset or make your own settings through the CL-4 combined with the Odin Editor.



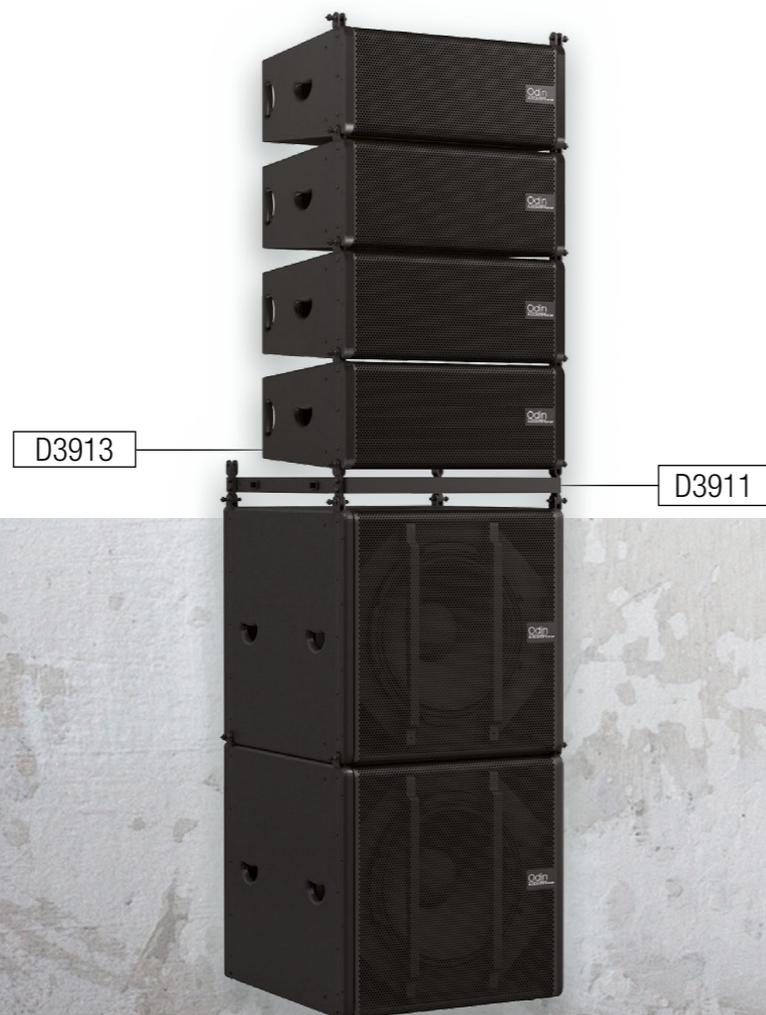
Configuration-examples

Setup 1



Satellite

Setup 2



Stack

Setup 3



Line Array without subs

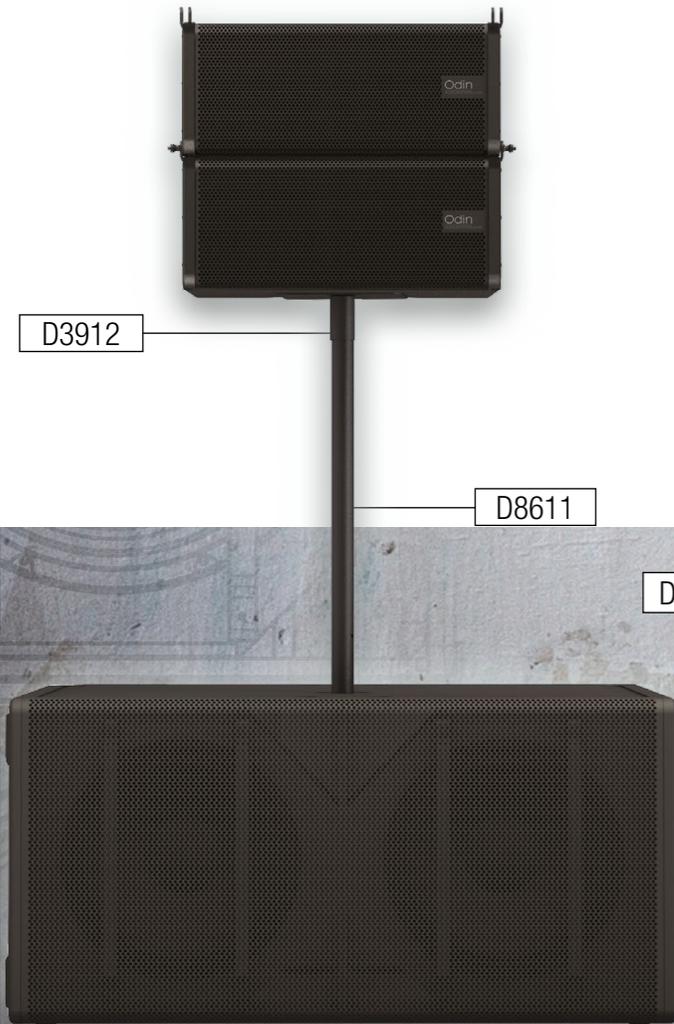
Setup 4



Line Array with subs

Configuration-examples

Setup 5



S-218A Satellite

Setup 6



S-218A Stack

Setup 7



S-218A Line array

Accessories

Distance tube M20
D8611 Mammoth Stands



ODIN PM-01 Polemount Adapter
D3912 Accessories for T-8A



Odin CL-4 Connect
D3915 Network interface



ODIN FB-01 Flybar
D3910



ODIN FB-02 Flybar
D3911 Flybar/Stackframe



ODIN AF-01 Adjustable Foot
D3914 Accessories for FB-01



ODIN CA-01 Connecting Adapter
D3913 Accessories for T-8A



Transport

Case for Odin T-8A
D7224 Premium Line



Raincover for Odin T-8A
D3916



Raincover for Odin S-18A
D3917



Castor Board
D3918 For 2x S-18A or 1x S-218A



Transportcover for Odin S-18A
D3920



Transportcover for 2x Odin S-18A
D3921



Raincover for Odin T-8A
D3922 For 6 pcs array



Rain/transportcover for Odin 2x S-18A
D3923



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