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!

Odin Audio Systems
Active | Versatile | Character
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.”
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.

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, 3200W 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 Date 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, 50/60Hz
- **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 Ibs
- **Optional Accessories**: Flybar, Polemount Adaptor, Ground stacking feet, Flying Pin, DSP Network Interface
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.

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.

Single user 3-point suspension system

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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.
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.

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.
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.
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
- D3912
- D8611
- Satellite

Setup 2
- D3913
- Stack

Setup 3
- D3910
- Line Array without subs

Setup 4
- D3911
- Line Array with subs
Active | Versatile | Character

Setup 5

S-218A Satellite

Setup 6

S-218A Stack

Setup 7

S-218A Line array
Accessories

- **Distance tube M20**
- **ODIN PM-01 Polemount Adapter**
- **ODIN CL-4 Connect**
- **ODIN FB-01 Flybar**
- **ODIN FB-02 Flybar**
- **ODIN AF-01 Adjustable Foot**
- **ODIN CA-01 Connecting Adapter**
- **ODIN PM-01 Polemount Adapter**
- **ODIN CL-4 Connect**
- **ODIN FB-01 Flybar**
- **ODIN FB-02 Flybar**
- **ODIN AF-01 Adjustable Foot**
- **ODIN CA-01 Connecting Adapter**

Transport

- **Case for Odin T-8A**
- **Raincover for Odin T-8A**
- **Raincover for Odin S-18A**
- **Castor Board**
- **Transportcover for Odin S-18A**
- **Transportcover for 2x Odin S-18A**
- **Raincover for Odin T-8A**
- **Rain/transportcover for Odin 2x S-18A**