

EIDOS 265 LA & FLYSUB 15



Outline

Outlinearray

AN INTRODUCTION TO THE OUTLINE EIDOS 265 LINE ARRAY

Designed for small- to medium-sized touring and front of house applications including theatre, houses of worship and also live club installations, the new Outline EIDOS 265 LA is an excellent and cost-effective choice for vocal reproduction, live music reproduction, and program material. The system delivers the audio quality expected from an Outline product but in a compact form and attractive price point. The engineering effort given was to develop an entry-level line array system that would challenge even the larger, heavier, and more expensive systems offered in today's market. The EIDOS 265 LA does just that. With its full compatibility with the new FlySub 15 passive subwoofer, together they deliver a crystal clear, full range sound.

The EIDOS 265 LA is a passive loudspeaker line array system element, featuring two 6.5-inch mid-woofers, each with a 1.75" voice coil and ferrite magnet, and one High Frequency (HF) 1.4" throat-exit compression driver with a 2.5" voice coil. The two mid-woofers are bass-reflex loaded and are housed within the baffle located at the front of the enclosure, creating a semi-direct radiation system. The HF driver is loaded onto the waveguide, which features an acoustic lens specifically designed to obtain perfect summation between HF sections when coupled in an array configuration.



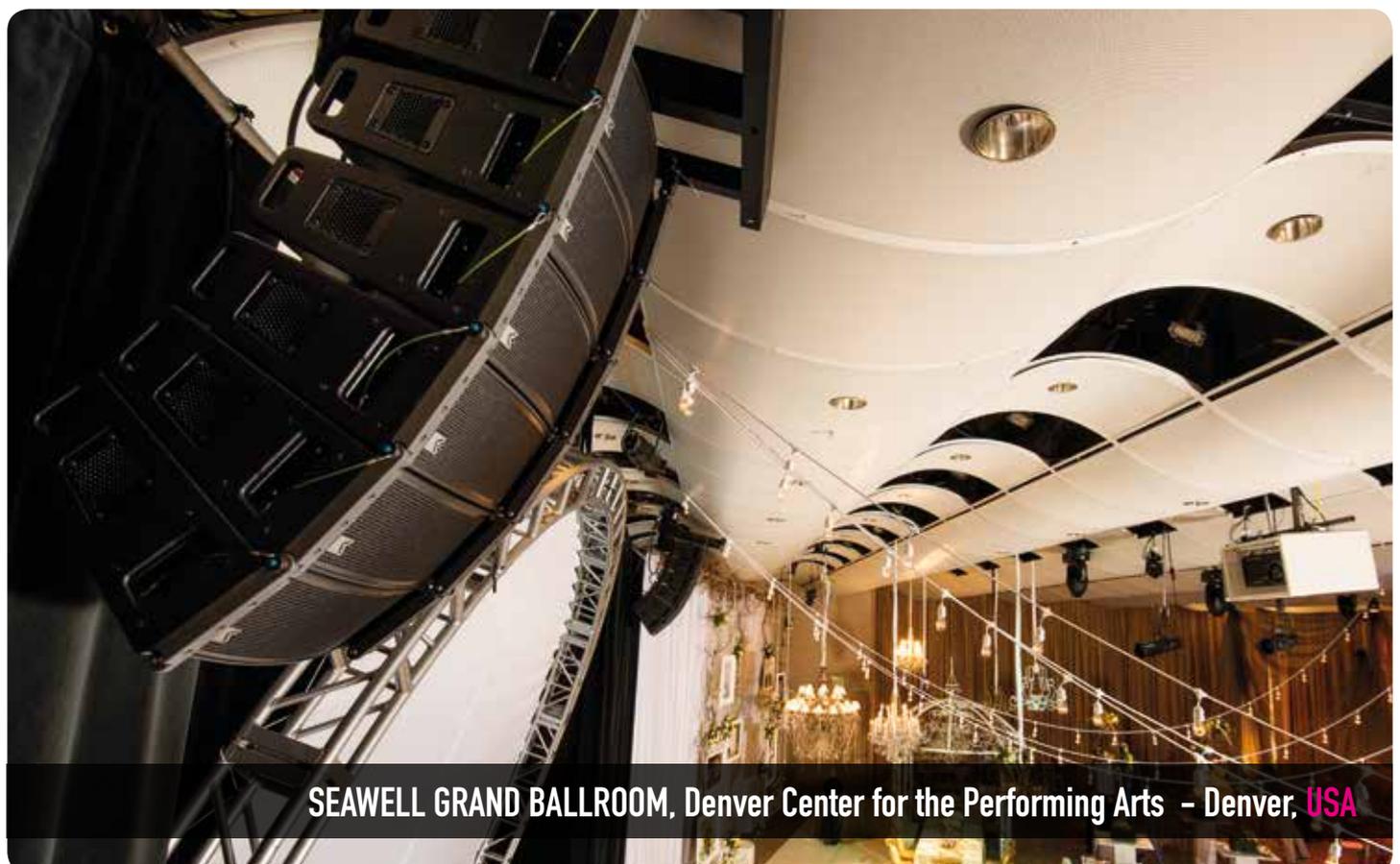
The HF assembly is placed between the woofers: this gives a controlled, symmetrical horizontal dispersion (nominally 100-degrees). The vertical dispersion is sufficiently narrow to



create a vertical array, but is wide enough to create predictable coverage when used in a 'curved' configuration, suggested for this array type.

The rigging hardware for flying the Eidos 265 LA, as well as that for the Flysub 15 (its companion subwoofer), is manufactured without any compromises. The combination of the material used - a special aluminium alloy - and a series of treatments which include mechanical and chemical, ensure to the structure an incredible hardness (500 HV). This latter factor is decisive for contributing to maintaining efficient operation as well as excellent resistance to stress, corrosion and abrasion through time.

In fact, the rigging hardware used within the system can facilitate installations of up to 16 cabinets in a vertical line array, or set-ups including Flysub 15 subwoofers. The light-weight aluminum suspension frame allows the creation of both flown and stacked arrays for system flexibility. In order to deliver a truly remarkable sonic experience, the array's low-frequency response can be extended via one or more FLYSUB 15 bass-units.



SEAWELL GRAND BALLROOM, Denver Center for the Performing Arts - Denver, USA

APPLICATIONS

When designing this product we stayed true to our goals of innovation, sturdiness, reliability and accurate reproduction for which we are recognised by the world's major rental firms. This system's field of application ranges from live work to permanent installations.

Eidos 265 is an excellent and cost-effective solution for voice reproduction, live music reproduction and program material, but also for small to medium-sized touring and installed applications - Theatres, houses of worship and live clubs. The unobtrusive visual design, compact dimensions, light weight and high power make Eidos 265 line array perfect for speech and music in conference and presentation situations, live TV and orchestral shows, particularly where considerable gain before feedback is an absolute necessity .

Eidos 265 is extremely easy to handle and equally as simple to install in a theatre or conference room, but above all, thanks to its factory presets, the system can be up and running in a matter of a few minutes, without any additional work. Eidos 265 is able to compete at the top end of the market category: even when compared with key competitors equipped with larger diameter transducers, Eidos 265 can easily compete and give the user amazing results from its diminutive size.



EIDOS 265 LA adjustable (up to 11 different angles) rear side rigging bar.



FLYSUB 15 rear side rigging bar.

The "PLATE-E265" is designed to support up to two Eidos 265 line array cabinets in a ground stacked setup. When used on top of Outline subwoofers the "PLATE-E265" is secured using the M20 flange.



FLYSUB 15 – COMPANION SUBWOOFER

The Flysub 15 is designed to add crisp and clear low-end energy punch to Outline's passive EIDOS 265 line array speaker system (as shown in the picture). Indeed the FlySub system was created through industry demand for an extended low range speaker that shared the acoustic characteristics and mounting hardware of Outline's mid-range line array systems (the iMode version of the Flysub is compatible with the Mini-COM.P.A.S.S. iMode array).

The FlySub 15 subwoofer is equipped with a long-stroke 15" loudspeaker designed specifically for the reinforcement of low frequencies. The rigging hardware incorporated into the FlySub cabinet is perfectly compatible with that of the Eidos-265, ensuring the fastest possible installation. The cabinet's raked lines enable a wider range of geometric configurations in context of a VLA, taking into consideration the mechanical stresses on a specific VLA installation to ensure the necessary safety margins for a flying system.

The FlySub's acoustic loading was calculated to include the top end of the upper bass frequency range for a perfect match with the EIDOS 265. This relieves the cabinets from bass duty resulting in greater system dynamic range with minimum distortion, yielding a higher overall sonic quality. To achieve these results, the 15" loudspeaker is fitted with a dual spider to enable the system to stand up to hard use, ensuring that consistent performance is maintained through the years.

The frequency response is from 35Hz to 550Hz (-10 dB) with peak SPL at 140.5dB. The FlySub 15 passive subwoofer is designed for use with the new EIDOS 265 line array, which is also a passive system and requires an external amplifier and DSP (Outline's T-Five-DSP).



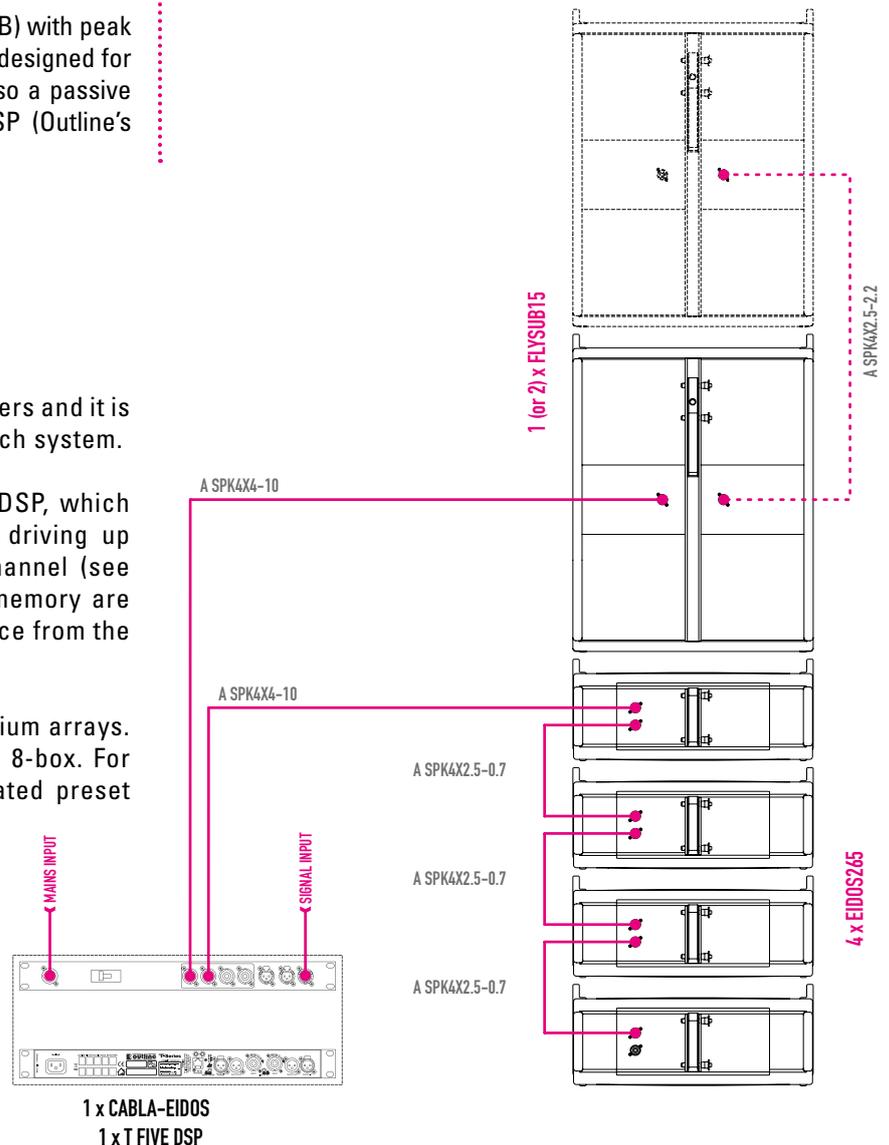
AMPLIFICATION / DSP

The systems must be amplified by Outline amplifiers and it is really important to use the correct preset for each system.

The designated amplifier is the Outline T-Five DSP, which has built-in DSP. Each channel is capable of driving up to 4 Eidos 265/channel or up to two Flysub/channel (see schematic). The presets available in the DSP memory are conceived in order to obtain the best performance from the overall system.

The Eidos 265 can be used to form small to medium arrays. The two standard configurations are 4-box and 8-box. For each of these configurations there is a dedicated preset that has been created in order to maintain the optimum tonal balance.

Delay, gain and several eq. settings can be adjusted by the user, without any additional external processor thus saving costs and wiring. For speech applications or playback of music at lower SPLs, the Eidos 265 can be used in its full-range mode, without the need of extra low frequency reinforcement.



EIDOS 265 LA – FEATURES

- **PLUG & PLAY** system solution, tailor-made for medium and small rental firms (8 or 16 Eidos 265s + 2 or 4 Flysub 15s + one/two T5-DSP amplifiers)
- Multi-function system particularly suitable for situations requiring high quality, transportability and easy fast set-up
- Small footprint - Low visual impact
- 100° horizontal nominal dispersion
- Two-way system with internal passive cross-over utilizing top-grade components
- Compact trapezoidal design
- Integrated ultra-light flying hardware allowing the creation of both flown and stacked arrays
- Up to 16 enclosures can be arrayed (or eight Eidos 265 and two Flysub 15)
- Components: 2 x 6.5" (187 mm) woofer, 1.75" (44 mm) voice coil; 1.4" compression driver, 2.5" (64 mm) voice coil, wave-guide loaded
- Remarkable high SPL (single module): 132 dB @ 1 m (peak)
- Very low weight (including flying hardware): 21 kg - 46.3 lb
- Available in RAL specified colours to suit any decor



FCM 265 LA 4P: flight-case housing 4 Eidos 265 enclosures.



AMPRACK-EIDOS: flight-case 4Units. With front and rear removable covers including: CABLA EIDOS master INPUT panel, Mains power input box with 16 A plug and bipolar magneto-thermal switch.

FLYSUB 15 – FEATURES

- Part of the EIDOS 265 LA turnkey solution for mid-sized shows and installation, in order to deliver a truly remarkable sonic experience
- Small footprint - low visual impact
- Single 15" dual-spider woofer
- Trapezoidal design
- Integrated ultra-light flying hardware
- Components: 1 x 15" (381 mm) woofer, bass-reflex loaded
- Remarkable high SPL (single module): 140.5 dB @ 1 m (peak)
- Very low weight (including flying hardware): 43 kg - 94.8 lb
- Available in RAL specified colours to suit any decor



Eidos 265 + Flysub 15 stacked on Mainframe FRM-MCMPSS-L and a pair of adjustable feet. A FOOT-01

TECH SPECS

EIDOS 265 LINE ARRAY

FREQUENCY RESPONSE (processed)

| | |
|----------|-----------------|
| (-10 dB) | 63 Hz ÷ 20 kHz |
| (± 3 dB) | 108 Hz ÷ 20 kHz |

AVERAGE DISPERSION

| | |
|------------|---|
| Horizontal | 100° |
| Vertical | Depending on array height and curvature |

IMPEDANCE (Ω)

| | |
|-----------|----------------------|
| Nom (min) | 8 Ω (6.1 Ω @ 212 Hz) |
|-----------|----------------------|

SENSITIVITY (ref. 1 W, 1 m, Free-field)

95 dB SPL

POWER - W AES

| | |
|-------------|--------------|
| Cont. (RMS) | Peak (+6 dB) |
| 500 | 2000 |

MAX SHORT-TERM SPL @ 1 m, free-field *

132 dB SPL

LOUDSPEAKERS AND LOADING

| | |
|------|--|
| Low | 2 x 6.5" (187 mm) woofer, 1.75" (44 mm) voice coil, bass reflex loaded, semi-direct radiation system |
| High | 1.4" compression driver, 2.5" (64 mm) voice coil, wave-guide loaded |

CONNECTORS

| | |
|----------|---------------------------------------|
| Low/High | 2 x NL4 pin 1+ (pos); pin 1- (neg) |
|----------|---------------------------------------|

WEIGHT

| | |
|--------------------|--------------------------|
| Single Unit | Shipping (2 unit) |
| 21.0 kg (46.3 lb) | 45.0 kg (99.2 lb) |

DIMENSIONS

| | | |
|--------|----------------|----------------|
| Height | 234 mm (9.2") | 600 mm (23.6") |
| Width | 550 mm (21.7") | 600 mm (23.6") |
| Depth | 418 mm (16.5") | 600 mm (23.6") |

TECH SPECS

FLYSUB 15

FREQUENCY RESPONSE

| | |
|----------|----------------|
| (-10 dB) | 35 Hz ÷ 550 Hz |
| (± 3 dB) | 40 Hz ÷ 400 Hz |

SUGGESTED X-OVER

max 200 Hz

AVERAGE DISPERSION

| | |
|------------|---|
| Horizontal | Quasi-omnidirectional |
| Vertical | Depending on array height and curvature |

IMPEDANCE (Ω)

| | |
|-----------|----------------------|
| Nom (min) | 8 Ω (6.5 Ω @ 170 Hz) |
|-----------|----------------------|

SENSITIVITY (dB SPL @ 1W 1m)

| |
|---------------------------|
| 97.5 dB SPL (free-field) |
| 103.5 dB SPL (half-space) |

POWER - W AES

| | |
|-------------|--------------|
| Cont. (RMS) | Peak (+6 dB) |
| 500 | 2000 |

MAX SHORT-TERM SPL @ 1 m *

| |
|---------------------------|
| 134.5 dB SPL (free-field) |
| 140.5 dB SPL (half-space) |

LOUDSPEAKERS AND LOADING

1 x 15" (381 mm) woofer, bass-reflex loaded

CONNECTORS

| |
|---------------------------------------|
| 2 x NL4 pin 1+ (pos); pin 1- (neg) |
|---------------------------------------|

WEIGHT

| | |
|--------------------|--------------------------|
| Single Unit | Shipping (1 unit) |
| 40 kg (88.2 lb) | 44 kg (97 lb) |

DIMENSIONS

| | | |
|--------|----------------|----------------|
| Height | 733 mm (28.6") | 810 mm (31.9") |
| Width | 550 mm (21.7") | 640 mm (25.2") |
| Depth | 546 mm (21.5") | 630 mm (24.8") |

* calculated using +10 dB crest-factor signal



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