HIGH PERFORMANCE SUB-BASS SYSTEMS





## SUBSERIES

The SUB Series enclosures (SUB 218, SUB 118, SUB 118 SP, SUB 110, SUB 110 SP), ideal for applications requiring super-powerful sub bass delivery, not only enhance the reproduction of program material but also make the most efficient use of amplifier power.

This is a result of Outline's proprietary 'E.R.P.' ('Energy Retentive Porting') design. Based on the principles of fluid dynamics and successfully applied to the science of controlling pneumatic forces within a loudspeaker enclosure, this unique arrangement of specially shaped ports ensures an optimum airflow. This reduces internal turbulence, maximising the efficiency of the transducers and thus allowing more amplifier power to be converted into acoustic energy. Such a design requires high-precision manufacturing techniques, and Outline's engineering team have applied some original production techniques to turn an exciting concept into a physical reality.

#### **SUB 218**

SUB 218 is a high output sub-bass system equipped with two long-excursion 18" transducers. The enclosure is particularly well-suited to reproducing modern dance music as the design provides not only extended low-frequency reproduction (down to 28 Hz) but also tremendous 'punch' in and around the frequencies normally produced by both real and synthetic bass drums.

#### **SUB 118**

SUB 118 is a high output sub-bass system equipped with one long-excursion 18" transducer. SUB 118 offers a cost-effective solution for those who need big bass for the broadest range of applications, providing exceptional SPL and proven reliability. It features an unbeatable combination of efficiency, power handling, fidelity and value.

#### **SUB 118 SP**

SUB 118 SP is a high output self-powered sub-bass system equipped with one long-excursion 18" transducer. The built-in amplifier platform with four selectable EQ presets and input gain enables to use this enclosure as part of a plug & play solution. The maximum available power from the amplifier module is 2400 W EIAJ at 4 ohm, 4800 W peak.

#### **SUB 110**

SUB 110 has been designed for venues where low frequencies are needed but discrete placement is required. The compact nature of this cabinet allows installation within the tightest of places. Based on a dual-port band-pass design and utilising a single 10" drive-unit, the SUB 110 enclosure can faithfully reproduce the lower frequencies down to 39 Hz and up to a peak SPL of 132.5 dB.

#### **SUB 110 SP**

SUB 110 SP (the self-powered version of the SUB 110 enclosure) has been designed for venues where low frequencies are needed but discrete placement is required. The maximum available power from the amplifier module is 700 W EIAJ at 8 ohm (2800 W peak). SUB 110 SP can faithfully reproduce the lower frequencies down to 39 Hz and up to a peak SPL of 132.5 dB.



#### **FEATURES**

- > Highly efficient, powerful low-frequency loudspeaker fitted with two 18" premium transducers
- > Very high power handling (9600 watts AES peak) and maximum spl (148.5 dB SPL peak @ 1 metre)
- > Extended low-frequency reproduction down to 28 Hz
- > Proprietary Outline design provides tremendous 'punch'
- > Outline 'E.R.P.' ('Energy Retentive Porting') design assists airflow and enhances transducer efficiency
- > Finished with Polyurea, featuring amazing durability and superior physical properties
- > Design file for Outline 'Openarray' 3D acoustic simulation software
- > Optional trolley-board using a 'stack & strap' method of location aids handling and transportation
- > Six integrated handles
- > Conceived, designed and manufactured exclusively in Italy (as are all Outline products)

#### **APPLICATIONS**

- > High-quality permanent installations in any location which requires extended low-frequency reinforcement including dance clubs, live music venues, theatres, concert halls, indoor sports arenas, theme parks and modern worship locations
- > An ideal partner for all Outline line/point-source systems.

PERFORMANCE SPECIFICATIONS	
Frequency Response (-10 dB)	28 Hz – 250 Hz
Suggested Cross-Over	max 120 Hz
Nominal Dispersion	Quasi-Omnidirectional
Impedance (Nom/Min)	2 x 8 Ω / 2 x 5.5 Ω
Watt AES (Continuous/Peak)	2 x 1200 W / 2 x 4800 W
Maximum SPL Output *	148.5 dB SPL

<sup>\*</sup> calculated using +10 dB Crest Factor signal @ 1 m, half-space

PHYSICAL	
Component	2 x 18" direct radiation woofers
Connectors	2 x NL4 Pins 1+/1-, 2+/2-
Cabinet Material	Baltic birch plywood
Cabinet Finish	Black polyurea coating
Grill	Epoxy powder coated
Installation Points	16 x M8 threaded points
Height	570 mm – 22 4/8"
Width	1070 mm – 42 1/8"
Depth	750 mm – 29 1/2"
Weight	80 kg – 176.4 lb

# **SUB**118



#### **FEATURES**

- > Highly efficient, powerful low-frequency loudspeaker fitted with one 18" transducer
- > Exceptional size-to-power ratio (142.5 dB SPL short-term peak @ 1 m)
- > Proprietary Outline design provides tremendous 'punch'
- > Outline 'E.R.P.' ('Energy Retentive Porting') design assists airflow and enhances transducer efficiency
- > Finished with Polyurea, featuring amazing durability and superior physical properties
- > Conceived, designed and manufactured exclusively in Italy (as are all Outline products)

#### **APPLICATIONS**

- > High-quality permanent installations in any location which requires extended low-frequency reinforcement including dance clubs, live music venues, indoor sports arenas, theme parks and modern worship locations
- > An ideal partner for all Outline line/point source systems

PERFORMANCE SPECIFICATIONS	
Frequency Response (-10 dB)	35 Hz - 800 Hz
Suggested Cross-Over	max 120 Hz
Nominal Dispersion	Quasi-Omnidirectional
Impedance (Nom/Min)	4 Ω / 3.4 Ω
Watt AES (Continuous/Peak)	1200 W / 4800 W
Maximum SPL Output *	142.5 dB SPL

<sup>\*</sup> calculated using +10 dB Crest Factor signal @ 1 m, Half space

PHYSICAL	
Component	1 x 18" direct radiation woofer
Connectors	2 x NL4 Pins 1+/1-
Cabinet Material	Baltic birch plywood
Cabinet Finish	Black polyurea coating
Grill	Epoxy powder coated
Installation Points	16 x M8 threaded points
Pole Mount	2 x M20 threaded points
Height	570 mm - 22 1/2"
Width	570 mm - 22 1/2"
Depth	750 mm - 29 1/2"
Weight	47 kg - 103.6 lb

## SUB118SP

1 X 1 8 " S U B W O O F E R





### POWERED

#### **FEATURES**

- > Highly efficient, powerful low-frequency loudspeaker fitted with one 18" transducer
- > Exceptional size-to-power ratio (142.5 dB SPL short-term peak @ 1 m)
- > Built-in amplifier module: 2400W EIAJ / 4 ohm
- > Four selectable EQ presets
- > Proprietary Outline design provides tremendous 'punch'
- > Outline 'E.R.P.' ('Energy Retentive Porting') design assists airflow and enhances transducer efficiency
- > Finished with Polyurea, featuring amazing durability and superior physical properties
- > Conceived, designed and manufactured exclusively in Italy (as are all Outline products)

#### **APPLICATIONS**

- > High-quality permanent installations in any location which requires extended low-frequency reinforcement including dance clubs, live music venues, indoor sports arenas, theme parks and modern worship locations
- > An ideal partner for all Outline line/point source systems

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Frequency Response (-10 dB)35 Hz - 800 HzSuggested Cross-Overmax 120 HzNominal DispersionQuasi-Omnidirectional

Maximum SPL Output \* 142.5 dB SPL

<sup>\*</sup> calculated using +10 dB Crest Factor signal @ 1 m, Half space

PHYSICAL	
Component	1 x 18" direct radiation woofer
Connectors	Audio: 1 Combo XLR / jack 6.35 mm TRS + 1 Link Out XLR  Mains: 1 PowerCON True1 + 1 Link Out  Control: USB Type B
Cabinet Material	Baltic birch plywood
Cabinet Finish	Black polyurea coating
Grill	Epoxy powder coated
Installation Points	16 x M8 threaded points
Pole Mount	2 x M20 threaded points
Height	570 mm – 22 1/2"
Width	570 mm – 22 1/2"
Depth	750 mm – 29 1/2"
Weight	49 kg – 103.6 lb





#### **FEATURES**

- > Highly efficient, powerful low-frequency loudspeaker fitted with one 10" transducer
- > Exceptional size-to-power ratio (132.5 dB SPL short-term peak @ 1 m)
- > Deep, very clean low frequencies previously available only from much larger cabinets
- > Extremely compact cabinet can be easily tucked under bench seating
- > Flying points (M6 thread) and very low weight
- > Finished with Polyurea, featuring amazing durability and superior physical properties
- > Conceived, designed and manufactured exclusively in Italy (as are all Outline products)

#### **APPLICATIONS**

- > High quality installations in houses of worship, clubs, lounge bars, live music-venues, theatres, conference rooms, stores, and shopping centres. Also suitable for high quality mobile applications, industrial and corporate rental companies.
- > An ideal partner for all Outline compact point-source systems such as Vegas 24, Vegas 6.5, Vegas 8 CX, DVS 8

PERFORMANCE SPECIFICATIONS		
Frequency Response (-10 dB)	39 Hz – 100 Hz (standard preset)	
Suggested Cross-Over	max 120 Hz	
Nominal Dispersion	Quasi-Omnidirectional	
Impedance (Nom/Min)	8 Ω / 6.1 Ω	
Watt AES (Continuous/Peak)	350 W / 1400 W	
Maximum SPL Output *	132.5 dB SPL (standard preset)	
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<sup>\*</sup> calculated using +10 dB Crest Factor signal @ 1 m, Half space

PHYSICAL	
Component	1 x 10" - Dual Reflex Band Pass
Connectors	2 x NL4 Pins 1+/1-
Cabinet Material	Baltic birch plywood
Cabinet Finish	Black polyurea coating
Grill	Epoxy powder coated
Installation Points	12 x M6 threaded points
Pole Mount	1 x M20 threaded point
Height	258 mm – 10 1/8"
Width	500 mm – 19 5/8"
Depth	550 mm – 21 5/8"
Weight	21 kg – 46.3 lb

## SUB110SP

1 X 1 0 " S U B W O O F E R





#### **FEATURES**

- > Highly efficient, self-powered ultra-compact subwoofer fitted with one 10" transducer
- > Integrated 700 W EIAJ at 8 ohm (2800 W peak) amplifier module
- > Exceptional size-to-power ratio (132.5 dB SPL short-term peak @ 1 m)
- > Deep, very clean low frequencies previously available only from much larger cabinets
- > Extremely compact cabinet can be easily tucked under bench seating
- > Flying points (M6 thread) and very low weight
- > Finished with Polyurea, featuring amazing durability and superior physical properties
- > Conceived, designed and manufactured exclusively in Italy (as are all Outline products)

#### **APPLICATIONS**

- > High quality installations in houses of worship, clubs, lounge bars, live music-venues, theatres, conference rooms, stores, and shopping centres. Also suitable for high quality mobile applications, industrial and corporate rental companies.
- > An ideal partner for all Outline compact point-source systems such as Vegas 24, Vegas 6.5, Vegas 8 CX, DVS 8

Frequency Response (-10 dB) 39 Hz – 100 Hz (preset 1: standard)

Nominal Dispersion Quasi-Omnidirectional

Maximum SPL Output \* 132.5 dB SPL (preset 1: standard)

<sup>\*</sup> calculated using +10 dB Crest Factor signal @ 1 m, Half space

PHYSICAL	
Component	1 x 10" - Dual Reflex Band Pass
Connectors	Signal: 1 XLR + 1 Link Out Mains: IEC C14 Socket
Cabinet Material	Baltic birch plywood
Cabinet Finish	Black polyurea coating
Grill	Epoxy powder coated
Installation Points	12 x M6 threaded points
Pole Mount	1 x M20 threaded point
Height	258 mm – 10 1/8"
Width	500 mm – 19 5/8"
Depth	550 mm – 21 5/8"
Weight	22 kg – 48.5 lb



