# **BASSO**2121



Dual 21" Direct-Radiation Touring & Infra-Extension Subwoofer

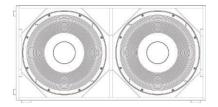
OuickStart Guide

The goal of **BASSO**2121 is to bring that world-class touring subwoofer performance in a package equivalent in size, weight and set-up requirements to most standard dual 18" subwoofers available in the market today, providing tour sound companies with a cost-effective solution for professional touring set-ups and top subwoofer performance for sound productions and installations of any size, complexity and budget.

BASSO2121 mounts IDEA 21" woofers, with 4" dual voice coils, 1500 W AES power and superlative mechanical and thermal specifications housed in two separated chambers within the enclosure closed by 8 radial large bass-reflex ports. This construction allows a direct radiating bass reflex (with less phase alignment issues when working with line array systems) and the back-pressure inside each woofer chamber to be discharged through the ports symmetrically from the axis of the voice coil and the woofer chassis. This keeps the cone excursion linear, reducing distortion, power compression and improving tone definition at the crossover point and long term reliability. But just as importantly, with this positioning and assembly, the ports become part of the structural reinforcement of the cabinet required to withstand the massive air pressure changes and the mechanical stress while keeping the total size relatively compact.

Like All Idea Loudspeakers **BASSO**2121 is built with the necessary structural strength and finish quality required for durable touring use. The high quality 18 mm birch plywood enclosure coated with Idea custom paint solution and a 2 mm steel front grille will keep your equipment safe and brand new after hours of heavy touring.



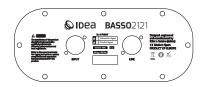


### **SYSTEM CONFIGURATION AND SETTINGS**

**BASSO**2121 back panel is fitted with a pair of Neutrik NL-4 connectors in parallel for straightforward, flexible installation setup.

#### NL-4 PINOUT:

+/-1 Subwoofer Signal +/-2 Parallel Signal



### RECOMMENDED SETTINGS

### LPF@ 60 Hz

Туре		Freq		Q	Gain
Bell		41 Hz		5.5	-3.00
Bell		52 Hz		5.0	-1.10
Low Pass		73 Hz		0.8	
Bell			z	7.0	1.40
HPF:	20 Hz		Butterworth 18dB		
LPF:	52 Hz		Butterworth 24dB		

LPF@ 75 Hz

Туре		Freq		Q	Gain
Bell		55 Hz		15.0	-1.00
Bell		50 Hz		3.0	-4.00
Low Pass		80 Hz		0.8	
Bell		27 Hz		7.0	1.50
Bell		60 Hz		6.0	0.50
HPF:	20 Hz		Butterworth 18dB		
LPF:	62 Hz		Butterworth 24dB		

LPF@ 100 Hz

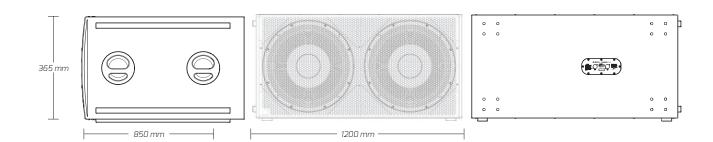
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Туре		Freq		Q	Gain
Bell	70		łz	5.0	-2.50
Bell	54 H		łz	3.0	-4.10
Low Pass		100 Hz		0.8	-
Bell		27 Hz		7.0	1.50
HPF:	20 Hz		Butterworth 18dB		
LPF:	77 Hz		Butterworth 24dB		



## **TECHNICAL DATA**

Enclosure design	Bass Reflex
Transducers	2 x 21″
RMS Power Handling *	3 000 W
Nominal Impedance	4 Ohm
<b>SPL</b> (Continuous/Peak)	136/142 dB SPL
Frequency Response (-10 dB)	20 - 80/95/120 Hz
Frequency Range (-3 dB)	24 - 60/75/100 Hz
<b>Dimensions</b> (WxHxD)	1200 x 600 x 950 mm (47,2 x 23,6 x 37,4 inch)
Weight	129,5 kg (285,4 lbs)
Connectors +/-1 +/-2	2 x Neutrik speakON® NL-4 in Parallel Input Link
Cabinet Construction	18 mm Plywood
Grille	2 mm perforated weatherised steel with protective foam
Finish	Durable IDEA proprietary Aquaforce paint coating process
Handles	4 integrated handles
Feet/Skates	4 skates (H/V)
Installation	2 x 36 mm Pole mount sockets (H/V)
Accessories	35 mm Pole (K&M-21338) Wheels (WH-04)

# **TECHNICAL DRAWINGS**



<sup>\*</sup> IEC filtered pink noise with a 6dB crest factor, 2 hours.
\*\* Frequency range values for recommended factory presets.

### WARNINGS AND SAFETY GUIDELINES

· Read this document thoroughly, follow all safety warnings and keep it for future reference.



- The exclamation mark inside a triangle indicates that whatever repairing and component replacement operations must be done by qualified and authorized personnel.
- · No user serviceable parts inside.
- · Only use accessories tested and approved by IDEA and supplied by the manufacturer or an authorized dealer.
- · Installations, rigging and suspension operations must be done by qualified personnel.
- · Only use accessories specified by IDEA, complying with maximum loads specifications and following local safety regulations.



- Read the specifications and connection instructions before proceeding to connect the system and use only cabling supplied or recommended by IDEA. Connection of the system should be done by qualified personnel.
- · Professional sound reinforcement systems can deliver high SPL levels that may result in hearing damage. Do not stand close to the system while in use.



- · Loudspeaker produce magnetic field even while they are not in use or even when disconnected. Do not place or expose loudspeakers to any device that is sensitive to magnetic fields such as television monitors or data storage magnetic material.
- · Disconnect the equipment during lightning storms and when it is not to be used for a long time.
- · Do not expose this device to rain or moisture.
- · Do not place any objects containing liquids, such as bottles or glasses, on the top of the unit. Do not splash liquids on the unit.
- · Clean with a wet cloth. Do not use solvent-based cleaners.
- · Regularly check the loudspeaker housings and accessories for visible signs of wear and tear, and replace them when necessary.
- Refer all servicing to qualified service personnel.



- This symbol on the product indicates that this product should not be treated as household waste. Follow local regulation for recycling of electronic devices.
- · IDEA declines any responsibility from misuse that may result in malfunction or damage of the equipment.

### WARRANTY

- · All IDEA products are guaranteed against any manufacturing defect for a period of 5 years from date of purchase for acoustical parts and 2 years from date of purchase for electronic devices.
- $\boldsymbol{\cdot}$  The guarantee excludes damage from incorrect use of the product.
- · Any guarantee repair, replacement and servicing must be exclusively done by the factory or any of authorized service centres.
- · Do not open or intend to repair the product; otherwise servicing and replacement will not be applicable for guarantee repair.
- Return the damaged unit, at shipper's risk and freight prepaid, to the nearest service centre with a copy of the purchase invoice in order to claim guarantee service or replacement.

### **DECLARATION OF CONFORMITY**

### I MAS D Electroacústica SL

Constitución 5 – 9, 46009 VALENCIA (Spain)

Declares that: BASSO2121

Complies with the following EU Directives:

- · RoHS (2002/95/CE) Restriction of Hazardous Substances
- · LVD (2006/95/CE) Low Voltage Directive
- · EMC (2004/108/CE) Electro-Magnetic Compatibility
- · WEEE (2002/96/CE) Waste of Electric and Electronic Equipment
- · EN 60065: 2002 Audio, video and similar electronic apparatus. Safety requirements.
- · EN 55103-1: 1996 Electromagnetic compatibility: Emission
- · EN 55103-2: 1996 Electromagnetic compatibility: Immunity



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