



# USER MANUAL

# SW2100P

## passive subwoofer

### KEY FEATURES

- Band-Pass/Bass-Reflex Active Subwoofer
- Single 21" Neodymium woofer with 4" ISV voice coil
- Water repellent cone
- Very compact enclosure
- Very good output-to-weight ratio

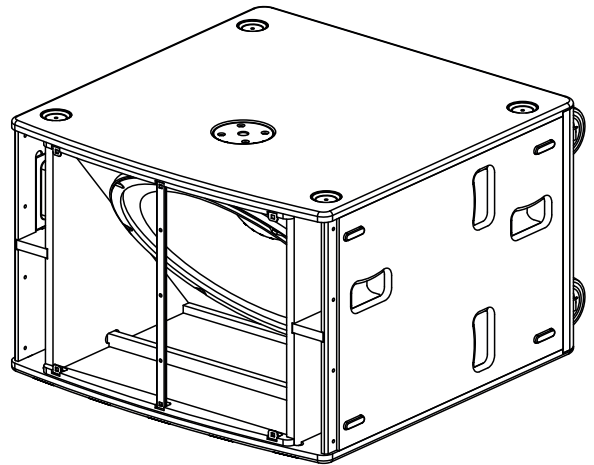
### INTRODUCTION

The SW2100P is a very compact Band-Pass/Bass-Reflex subwoofer providing high output and extended low frequency response. It is equipped with a single 21" neodymium transducer with a 4" ISV voice coil, large displacement suspension system, and composite reinforced, water repellent cone, able to provide clean and undistorted LF reproduction at very high SPL.

The loudspeaker is designed with a unique motor featuring a high grade neodymium magnet assembly in a structure optimized for thermal and magnetic efficiency. Its features include a large displacement suspension system which, in conjunction with a composite reinforced, straight ribbed cone and the proprietary Double Silicon Spider (DSS) technology, allows an ultra-linear piston action and provides full mechanical control across the entire working range. The 100mm (4 in) state-of-the-art voice-coil utilizing Interleaved Sandwich Voice coil (ISV) technology, provides high levels of thermal stability and durability. The ISV technology achieves a balanced linear motor unit exerting an exceptionally high force factor.

The phenolic birch plywood cabinet is equipped with pole mount socket, stacking feet, flush handles, and heavy duty wheels to enable easy handling and transportation.

It will deliver high level and extended low bass performance from a very compact cabinet, and thanks to the integral pole mount socket partners well with any of the ED point source and AXIOM line array loudspeakers in any audio applications, while its small size enables it to be easily fitted into tight venue spaces.



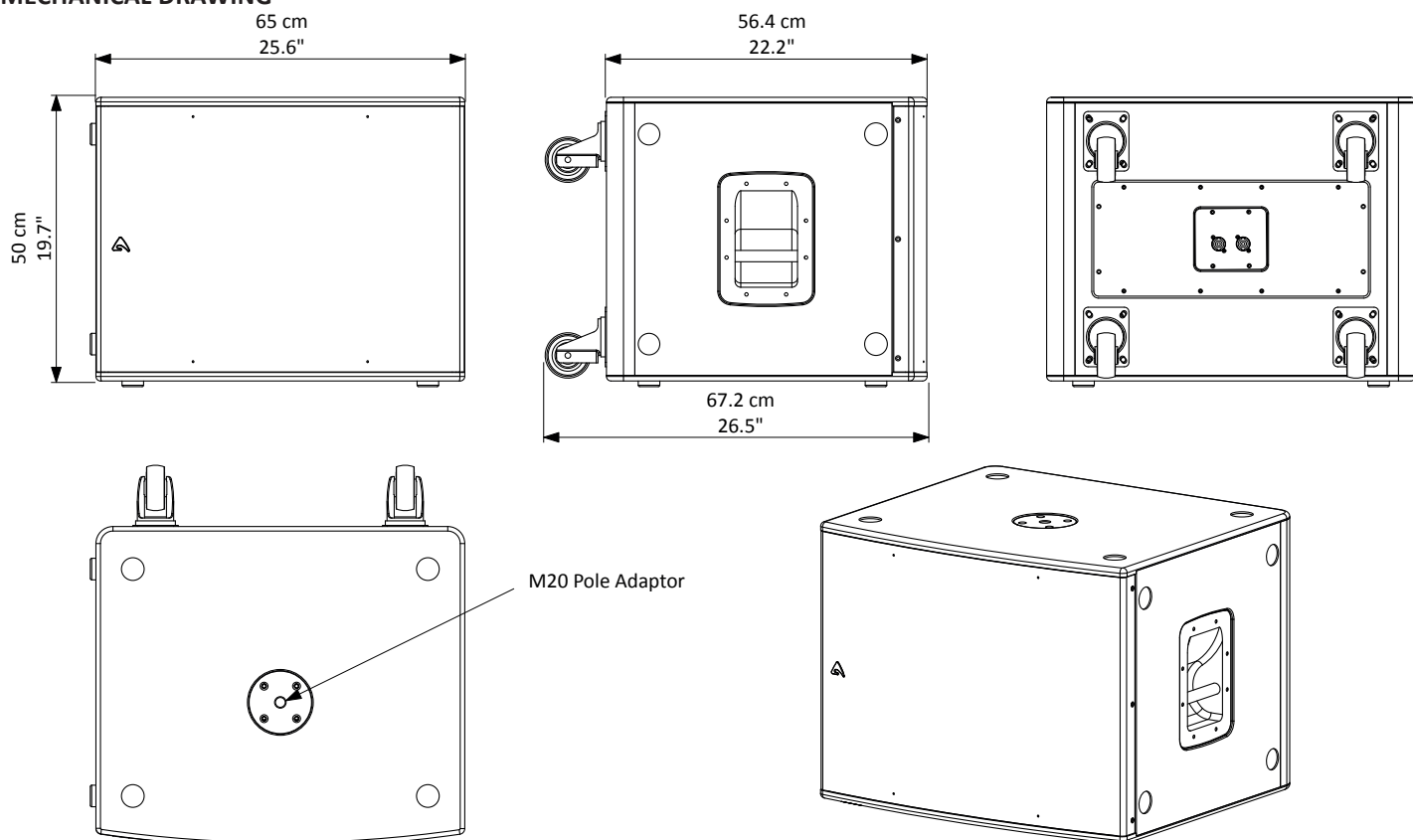
### TECHNICAL SPECIFICATION

Acoustical		Connectors	
System's Acoustic Principle	Band-pass / bass-reflex	Connector Type	Neutrik® Speakon® NL4 x 2
		Input Wiring	Pin 1+/1-; (Pin 2+/2- pass thru)
Transducer	21" Neodymium magnet, 4" (100mm) VC High stiffness, water repellent cone, Interleaved Sandwich Voice coil (ISV), Triple-roll suspension	<b>Mechanical</b>	
		Width	760 mm (29.9")
		Height	511 mm (20.1")
		Depth	770 mm (30.3")
		Depth Including Wheels	881 mm (34.6")
Frequency response (-6 dB)	34 Hz - 180 Hz (Processed)	Construction	18mm, reinforced phenolic birch
Sensitivity (1.41V @ 1m, 2Pi)	94 dB	Paint	Black High resistance, water based paint
Maximum Peak SPL @ 1m	132 dB	Wheels	4 x heavy duty Ø 100mm (4") castors
<b>Electrical</b>		Transport	8 handles
Nominal Impedance	4 Ω	Net Weight	56 Kg (123.5 lbs)
Minimum Impedance	3 Ω @ 30 Hz		60 Kg (132.3 lbs) including wheels
Power Handling Continuous*	1600 W		
Power Handling Program	3200 W		
Power Handling Peak	7200 W		
Power Compression	@ -10 dB Power (320 W) = 0.62 dB @ -3 dB Power (1600 W) = 2.18 dB @ 0 dB Power (3200 W) = 3.57 dB		

\* AES Pink Noise Power



## MECHANICAL DRAWING



## OPTIONAL ACCESSORIES

<b>NL4FX</b>	Neutrik Speakon® PLUG
<b>DHSS10M20</b>	Sub-Speaker ø35mm 1-1.7m Pole with Handle and M20 screw
<b>KP210S</b>	Sub-Speaker ø35mm 0.7-1.2m Pole with M20 screw

see <http://www.axiomproaudio.com/> for detailed description and other available accessories.

## SPARE PARTS

<b>AC103GS</b>	100 mm Swivel castor without brake
<b>98SW2100WZ4</b>	21" woofer - 4" VC - 4 ohm
<b>NL4MP</b>	Neutrik Speakon® panel socket

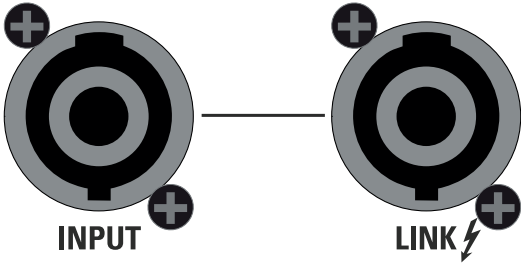




**REAR PANEL**

**INPUT** - Power input for the external amplifier. The SW2100P does not include a passive crossover for filtering the signal. The connections are the following:

INPUT - LINK	
NL4 pin number	internal connection
1+	LF+
1-	LF-
2+	+ pass thru
2-	- pass thru



**LINK** - Power output in parallel with the INPUT socket for connecting the unit to another speaker. The number of SW2100P cabinets that can be connected in parallel depends on the amplifier load capacity.



#### LIMITED WARRANTY

Proel warrants all materials, workmanship and proper operation of this product for a period of two years from the original date of purchase. If any defects are found in the materials or workmanship or if the product fails to function properly during the applicable warranty period, the owner should inform about these defects the dealer or the distributor, providing receipt or invoice of date of purchase and defect detailed description. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse. Proel S.p.A. will verify damage on returned units, and when the unit has been properly used and warranty is still valid, then the unit will be replaced or repaired. Proel S.p.A. is not responsible for any "direct damage" or "indirect damage" caused by product defectiveness.

- This unit package has been submitted to ISTA 1A integrity tests. We suggest you control the unit conditions immediately after unpacking it.
- If any damage is found, immediately advise the dealer. Keep all unit packaging parts to allow inspection.
- Proel is not responsible for any damage that occurs during shipment.
- Products are sold "delivered ex warehouse" and shipment is at charge and risk of the buyer.
- Possible damages to unit should be immediately notified to forwarder. Each complaint for package tampered with should be done within eight days from product receipt.

#### SAFETY INSTRUCTIONS

- To reduce the risk, close supervision is necessary when the product is used near children.
- Protect the apparatus from atmospheric agents and keep it away from water, rain and high humidity places.
- This product should be site away from heat sources such as radiators, lamps and any other device that generate heat.
- This product should be located so that its location or position does not interfere with its proper ventilation and heating dissipation.
- Care should be taken so that objects and liquids do not go inside the product.
- The product should be connected to a power supply mains line only of the type described on the operating instructions or as marked on the product. Connect the apparatus to a power supply using only power cord included making always sure it is in good conditions.
- WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
- Do not cancel the safety feature assured by means of a polarized line plug (one blade wider than the other) or with a earth connection.
- Make sure that power supply mains line has a proper earth connection.
- Power supply cord should be unplugged from the outlet during strong thunderstorm or when left unused for a long period of time.

#### CE CONFORMITY

Proel products comply with directive 2014/30/UE (EMC), as stated in EN 55103-1 and EN 55103-2 standards and with directive 2014/35/UE (LVD), as stated in EN 60065 standard.

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