ADAMSON IS5C 2-Way Coaxial Loudspeaker User Manual

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ADAMSON IS5C 2-Way Coaxial Loudspeaker

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Copyright 2022 by Adamson Systems Engineering Inc.; all rights reserved
This manual must be accessible to the person operating this product. As such, the product owner must store it in a safe place and make it available upon request to any operator.
Resale of this product must include a copy of this manual.
This manual can be downloaded from **https://www.adamsonsystems.com/en/support/downloads-directory/is-series/is5c**

Declarations
EU Declaration of Conformity

Adamson Systems Engineering declares that the products stated below are in conformance with the relevant fundamental health and safety criteria of the applicable EC Directive(s), in particular:
Directive 2014/35/EU: Low Voltage Directive
IS5c – 968-0003, 968-5003
Directive 2006/42/EC: Machinery Directive
IS5c Tilt Bracket – 934-0046, 934-5046

Signed at Port Perry, ON. CA – May 10, 2022

Brock Adamson (President & CEO)

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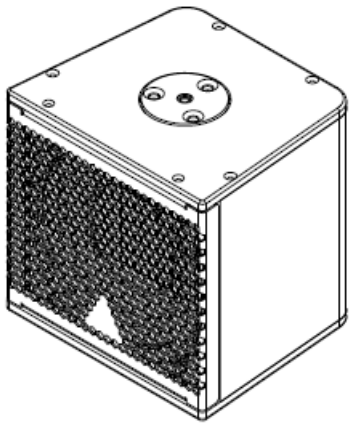
Safety & Warnings

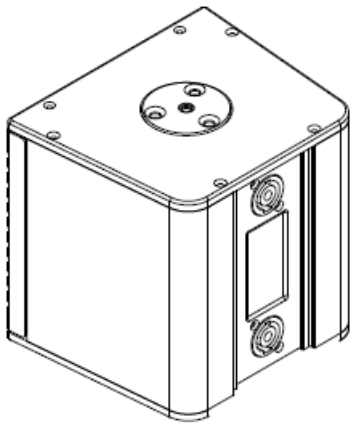
Read these instructions, keep them available for reference.
This manual can be downloaded from **https://www.adamsonsystems.com/en/support/downloads-directory/is-series/is5c**

- Heed all warnings and follow all instructions.
- A qualified technician must be present during the installation and use of this product. This product is capable of producing extremely high sound pressure levels and should be used according to the specified local sound level regulations and good judgment. Adamson Systems Engineering will not be liable for damages caused by any possible misuse of this product.
- Servicing is required when the loudspeaker has been damaged in any way, such as when the loudspeaker has been dropped; or when for undetermined reasons the loudspeaker does not operate normally. Inspect your products regularly for any visual or functionality irregularities.
- Protect the cabling from being walked on or pinched.
- Read the appropriate IS-Series Rigging Manual before installing the product.
- Pay attention to rigging instructions included in both Blueprint AV™ and the IS-Series Rigging Manual.
- Use only with the rigging frames/accessories specified by Adamson, or sold with the loudspeaker system.
- This speaker enclosure is capable of creating a strong magnetic field. Please use caution around the enclosure with data storage devices such as hard drives.

In an effort to continuously improve its products, Adamson releases updated accompanying software, presets and standards for its products. Adamson reserves the right to change the specifications of its products and the content of its documents with no prior notice.

IS5c Ultra Compact Point Source



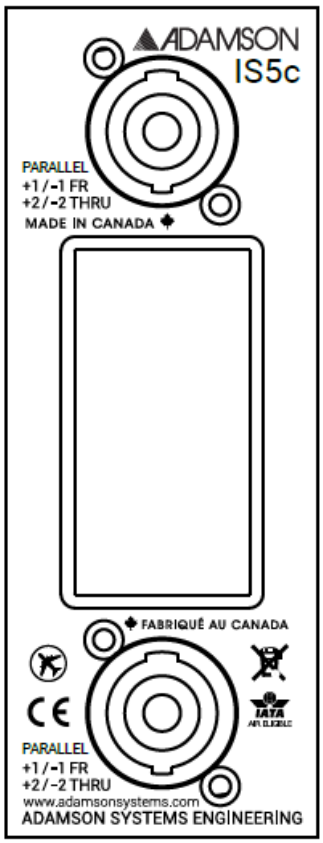


- The IS5c is an ultra-compact, light-weight, point source enclosure with a 100° conical dispersion pattern. It contains a passive crossover with a 1.4” dome compression driver coaxially combined with a 5” low frequency transducer.
- The operational frequency range of the IS5c is 95Hz to 20kHz. A high maximum SPL of 123 dB.
- The enclosure has an unobtrusive visual design which blends seamlessly into the surrounding space, is made of marine grade birch plywood, and has steel rigging discs on the top and bottom, to be used with rigging accessories. Without sacrificing low resonance to composite material, the IS5c weighs only 2.25 kg / 5 lbs.
- The IS5c is intended to be used as either a standalone system, or a fill enclosure in tandem with other IS-Series products. The IS5c is designed to pair easily and coherently with all IS-Series subwoofers.
- The IS5c is designed for use with Lab.gruppen’s D-Series line of installation amplifiers. The nominal

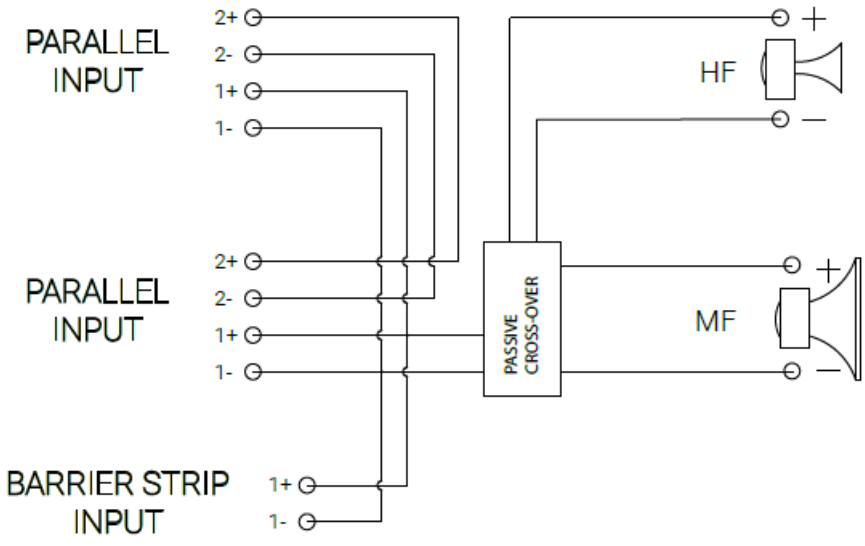
impedance of the IS5c is 16 Ω, maximizing amplifier efficiency.

Wiring

- The IS5c (968-0003, 968-5003) comes with 2x Neutrik Speakon™ NL4 connections, wired in parallel, as well as an external barrier strip.
- Pins 1+/- are connected to the internal crossover.
- Pins 2+/- are not connected.



IS5c Jackplate

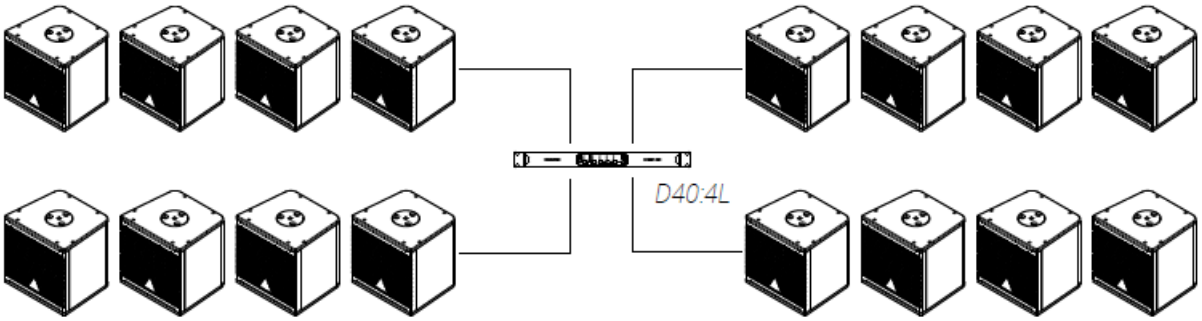


IS5c Internal Wiring

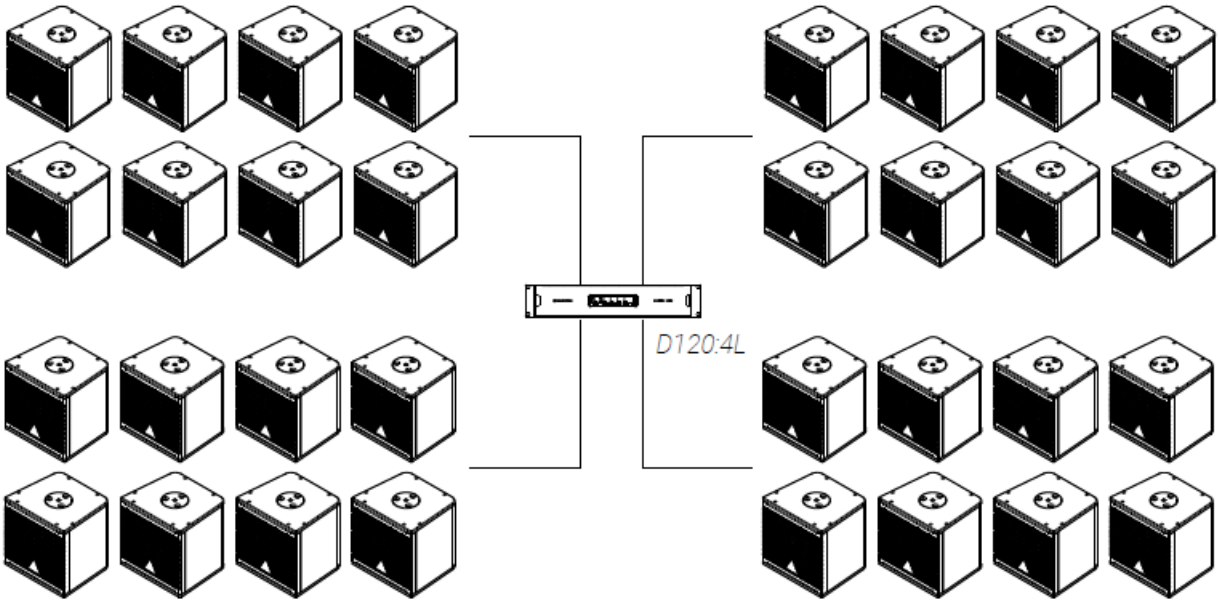
Amplification

- The IS5c is paired with Lab.Gruppen D-Series amplifiers.

- Maximum quantities of the IS5c per amplitier model are shown below.
- For a master list, please refer to the Adamson Amplification Chart, found here, on the Adamson website.



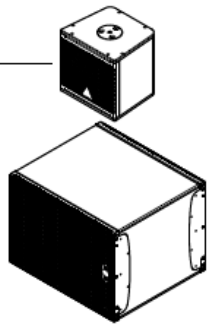
4 IS5c max per channel and
16 max total on a D40 amplifier



8 IS5c max per channel and
32 max total on a D80, D120,
or D200 amplifier

Presets

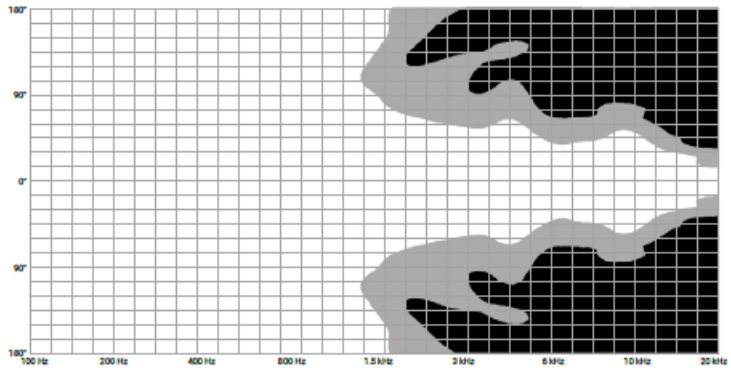
The **Adamson Load Library** contains presets designed for the deployment of the IS5c.
There are presets designed to pair with either Adamson subs, or Adamson Line Arrays.
For a master list, please refer the Adamson PLM & Lake Handbook, found here, on our website.

Cabinet Configuration	Applicable Preset	Cabinet Configuration
	CC IS5c FR *Fullrange Mode*	
	CC IS5c Xo100 *Low Cut at 100 Hz* *Add 5ms of delay for alignment of IS-Series Subs at same distance*	

Weatherized

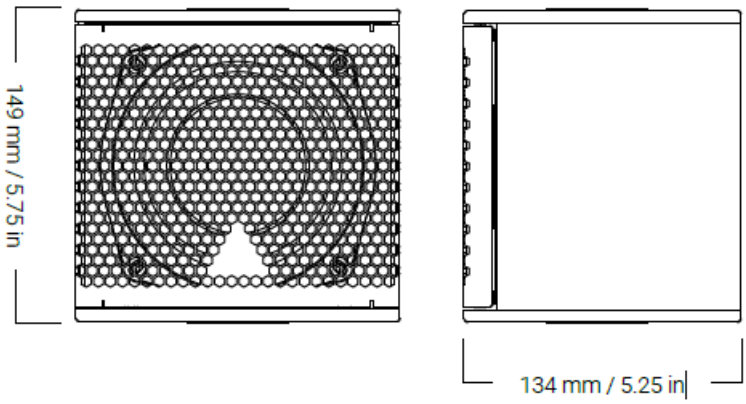
- IS-Series weatherized models add an additional layer of environmental and corrosion protection to Adamson's already durable cabinet design. Weatherized enclosures are ideal for marine and coastal venues, outdoor stadiums, open-air performance spaces, and other permanent outdoor installations.
- IS-Series weatherized cabinets are rated IP55 and feature the following additional protective features.
- **Corrosion resistance**
  - Corrosion resistance extends the lifetime performance of your system in outdoor venues where water, salt and acidity can impact durability and function.
  - All structural steel elements of Adamson weatherized cabinets – including rigging and rigging links – are made of a high yield strength stainless steel alloy that offers 100% corrosion resistance.
  - Cabinet hardware is made of non-plated stainless steel, designed to provide exceptional rust and corrosion resistance, particularly in high-saline environments.
- **Environmental sealing**
  - Additional protection of the cabinet helps ensure that loudspeaker performance isn't impeded by the harsh environments in which your system is deployed.
  - To guard against water and particle intrusion, the same two-part polyurea coating that gives Adamson cabinets their life-extending exterior protection is applied to the interior of the enclosure, creating a complete seal. Weatherized models feature an exterior coating with a distinctive smooth fi nish that allows for easy cleaning and removal of contaminants like dirt, grime, salt water or sand.
  - To protect against dust and other particles, a fi ne stainless steel mesh has been added to all points of entry including behind the front grille screens.
  - Cabling for the IS-Series weatherized cabinets is pre-wired and protected inside a gasket-sealed jackplate, with gland nuts in place to seal the connection points.

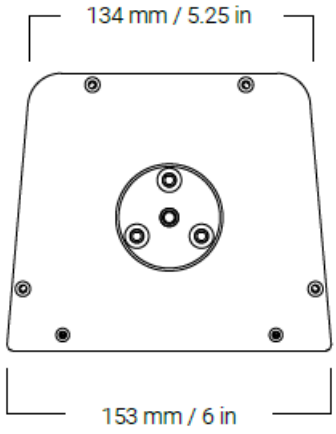
Technical Specifications



IS5c Dispersion Pattern (Conical)

Dimensions





Frequency Range (- 6 dB) 95 Hz – 20 kHz	
Nominal Directivity (-6 dB) H x V 100° Conical	
Maximum Peak SPL**	123 dB
Coaxial Component 5” LF / 1.4” Dome Compression Driver	
Nominal Impedance 16 Ω	
Power Handling (AES / Peak) LF 125 / 500 W	
Rigging	Top and Bottom mini-SLR discs, each containing 3/8” threa ded insert
Connection 2x Speakon™ NL4 and 2-Point Barrier Strip	
Height (mm / in) 149 / 5.75	
Width Front (mm / in) 153 / 6	
Width Rear (mm / in)	134 / 5.25
Depth (mm / in) 134 / 5.25	
Weight (kg / lbs)	2.25 / 5
Colour Black & White (Standard), RAL Colours (On Demand)	
Processing Lake	

**12 dB crest factor pink noise at 1m, free field, using specified processing and amplification

Documents / Resources

	ADAMSON IS5C 2-Way Coaxial Loudspeaker [pdf] User Manual IS5C, 2-Way Coaxial Loudspeaker, IS5C 2-Way Coaxial Loudspeaker

References

- Adamson Systems Engineering - Pro Audio & Live Sound Reinforcement

Manuals+.