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ADAMSON IS7c Light-Weight Passive 2 Way Coaxial Speaker User Manual

Contents

ADAMSON IS7c Light-Weight Passive 2 Way Coaxial Speaker

Product Information

The IS7c is a product manufactured by Adamson Systems Engineering Inc. It is a high-quality loudspeaker system designed for professional audio applications. The product is compliant with the relevant health and safety criteria of the applicable EC Directives, including Directive 2014/35/EU (Low Voltage Directive) and Directive 2006/42/EC (Machinery Directive).

The IS7c is equipped with advanced amplification technology and presets for optimized sound performance. It is weatherized, ensuring durability and reliability in various environmental conditions. The product comes with a comprehensive user manual that provides detailed instructions on safety, installation, wiring, amplification, presets, and technical specifications.

Product Usage Instructions

1. Ensure that you have read and understood all safety warnings and instructions provided in the user manual.
2. Store the user manual in a safe place and make it accessible to the person operating the product.
3. Download a copy of the user manual from **https://www.adamsonsystems.com/en/support/downloads-directory/is-series/is7c**.
4. During installation and use, have a qualified technician present to ensure proper setup and operation.
5. Adhere to local sound level regulations and exercise good judgement when using the product, as it can produce extremely high sound pressure levels.
6. Inspect the loudspeaker regularly for any visual or functionality irregularities. If any damage or abnormal operation is detected, servicing may be required.
7. Avoid walking on or pinching the cabling connected to the product to prevent damage.
8. Prior to installation, consult the IS-Series Rigging Manual for proper rigging instructions.
9. Follow the rigging instructions provided in both Blueprint AVTM and the IS-Series Rigging Manual.
10. Only use the rigging frames/accessories specified by Adamson or those sold with the loudspeaker system.

By following these usage instructions, you can ensure the safe and optimal operation of the IS7c loudspeaker system.

This manual can be downloaded from **https://www.adamsonsystems.com/en/support/downloads-directory/is-series/is7c**.

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
IS7c – 96X-000X, 96X-500X

Directive 2006/42/EC: Machinery Directive
IS7c Tilt Bracket – 934-00XX, 934-50XX

$$C\:E$$

Signed at Port Perry, ON. CA – June 12, 2023

Brock Adamson (President & CEO)

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- **T:** +1 905 982 0520, F: +1 905 982 0609
- **Email: info@adamsonsystems.com**
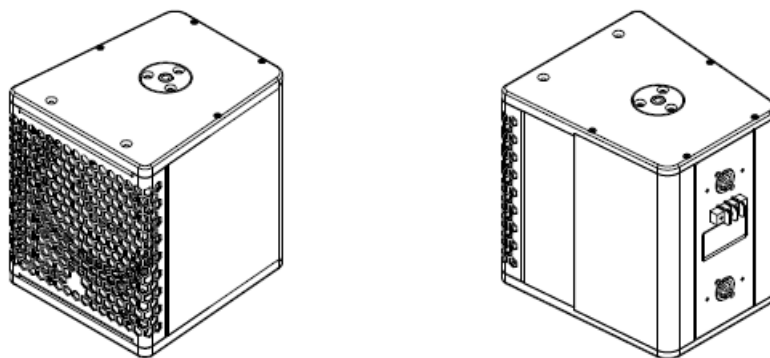- **Website: www.adamsonsystems.com**.

Safety & Warnings

- Read these instructions, and keep them available for reference. This manual can be downloaded from
  https://www.adamsonsystems.com/en/support/downloads-directory/is-series/is7c.
- 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 specifi ed 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.
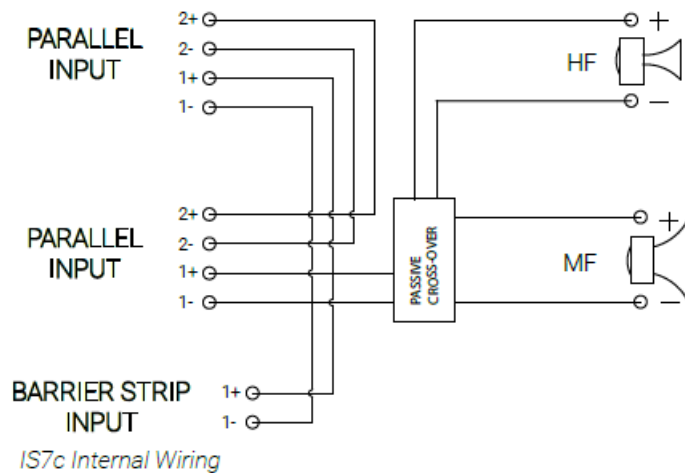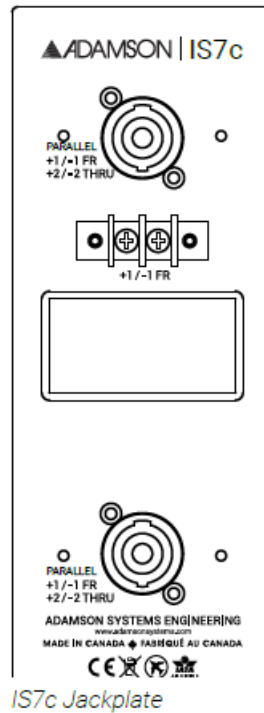
IS7c Ultra Compact Point Source

- The IS7c is an ultra-compact, lightweight, point source enclosure with a 90° conical dispersion pattern. Within the enclosure is a passive crossover and Adamson's ND7-C, a coaxial transducer that contains both a 7" low-frequency section and a dome compression driver.
- The operational frequency range of the IS7c is 80Hz to 20kHz. A high maximum SPL of 130 dB.
- The enclosure has an unobtrusive visual design that 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 the composite material, the IS5c weighs only 5.44 kg / 12 lbs.
- The IS7c is intended to be used as either a standalone system or a fill enclosure in tandem with other IS-Series products. The IS7c is designed to pair easily and coherently with all IS-Series subwoofers.
- The IS7c is designed for use with Lab. Gruppen's D-Series line of installation amplifiers. The nominal impedance of the IS7c is 16 Ω, maximizing amplifier efficiency.

Wiring

- The IS7c (96X-000X, 96X-500X) comes with 2x Neutrik Speakon™ NL4 connections, wired in parallel, as well
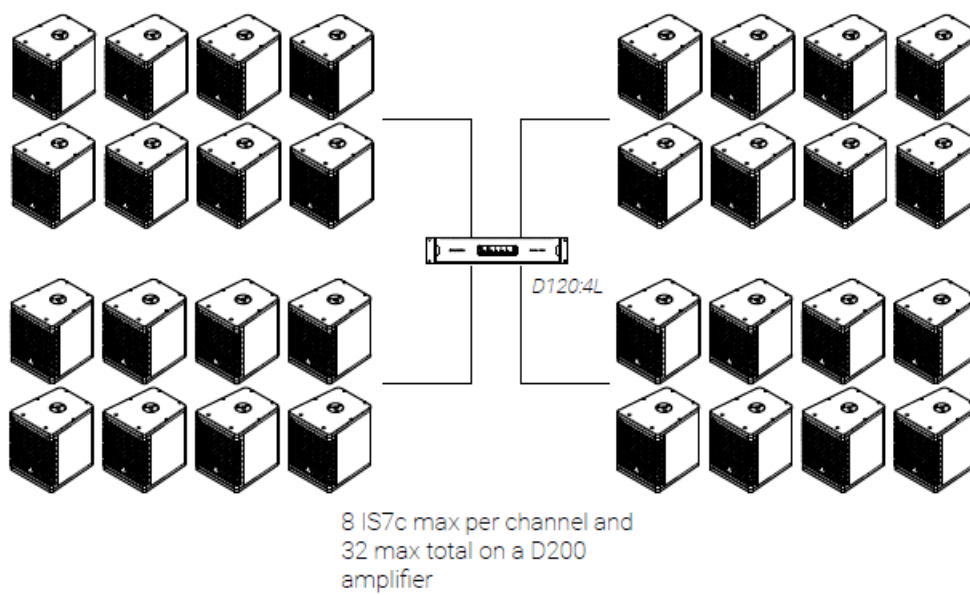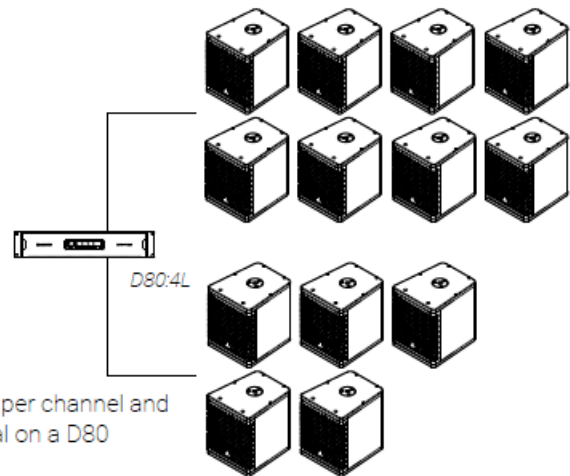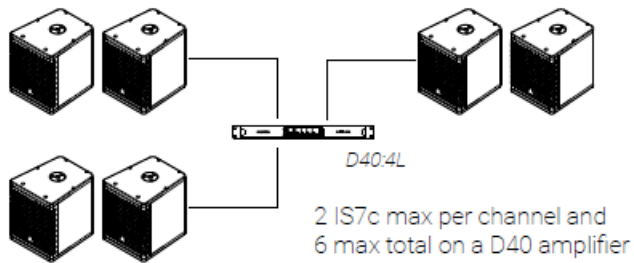
as an external barrier strip.

- Pins 1+/- are connected to the internal crossover.
- Pins 2+/- are not connected.

IS7c Jackplate
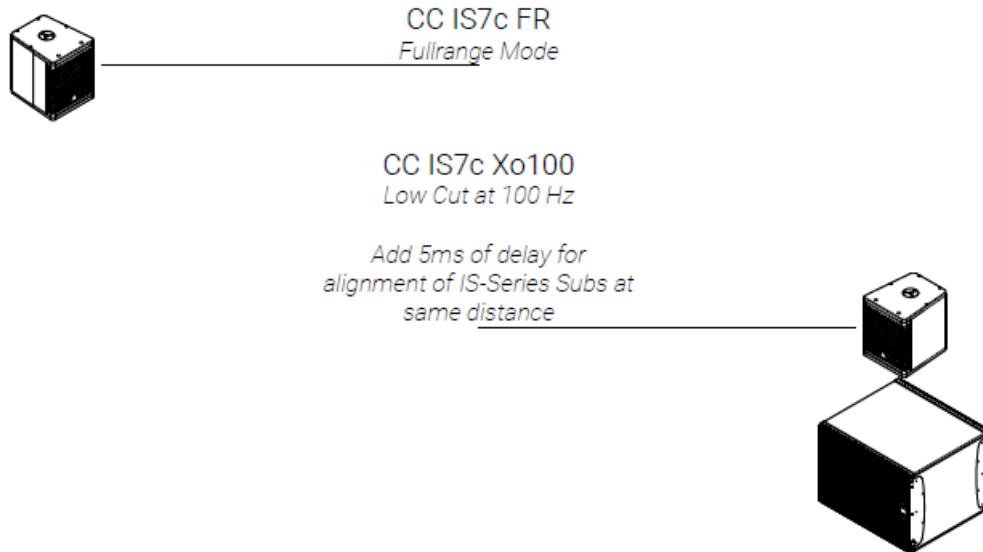

IS7c Internal Wiring

Amplification

- The IS7c is paired with Lab Gruppen D-Series amplifiers.
- Maximum quantities of the IS7c per amplifier model are shown below.

For a master list, please refer to the Adamson Amplification Chart, found here, on the Adamson website.

D40:4L

2 IS7c max per channel and
6 max total on a D40 amplifier

D80:4L

8 IS7c max per channel and
13 max total on a D80

D120:4L

8 IS7c max per channel and
32 max total on a D200
amplifier

Presets

- The Adamson Load Library contains presets designed for the deployment of the IS7c.
- There are presets designed to pair with either Adamson subs or Adamson Line Arrays.
- For a master list, please refer to the Adamson PLM & Lake Handbook, found here, on our website.

Cabinet Configuration	Applicable Preset	Cabinet Configuration

CC IS7c FR
Fullrange Mode

CC IS7c 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.
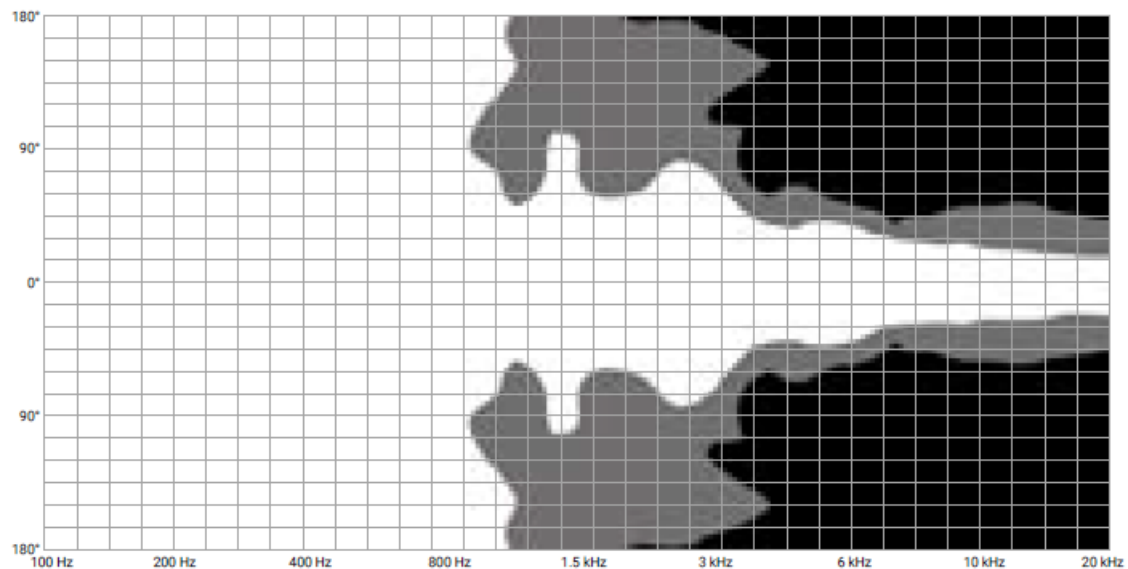
- All structural steel elements of Adamson weatherized cabinets – including rigging and rigging links – are made of a high-yield strength stainless steel alloy that offers 100% corrosion resistance.
- Cabinet hardware is made of non-plated stainless steel, designed to provide exceptional rust and corrosion 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.
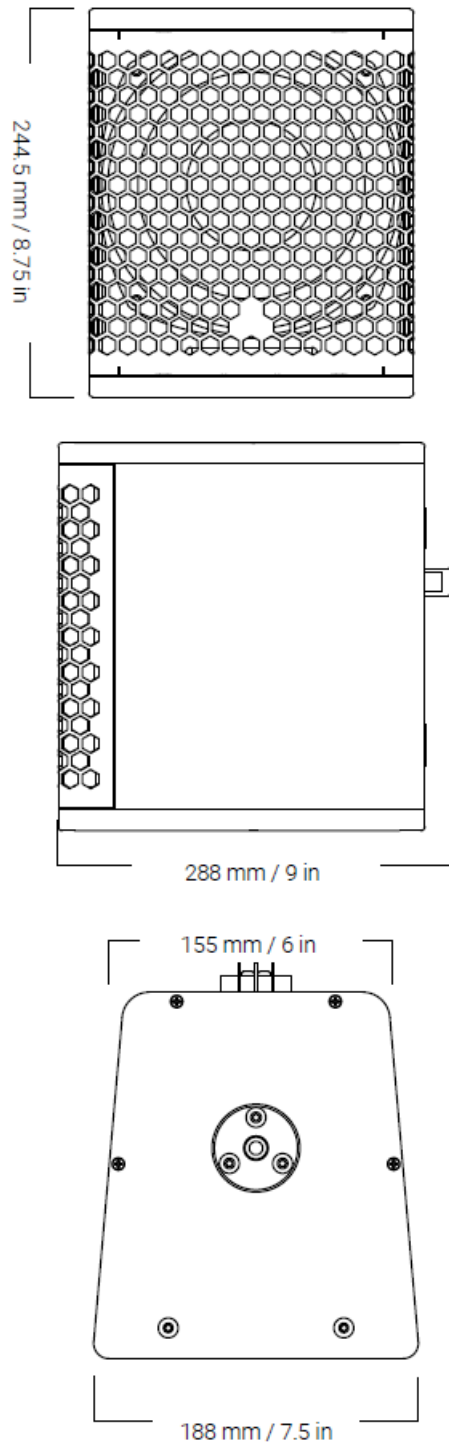
- To guard against water and particle intrusion, the same two-part polyurea coating that gives Adamson cabinets their life-extending exterior protection is applied to the interior of the enclosure, creating a complete seal. Weatherized models feature an exterior coating with a distinctively smooth finish that allows for easy cleaning and removal of contaminants like dirt, grime, salt water or sand.
- To protect against dust and other particles, a fine 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 jack plate, with gland nuts in place to seal the connection points.
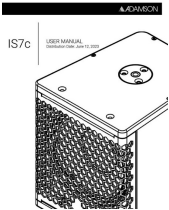
Technical Specifications

IS7c Dispersion Pattern (Conical)

Frequency Range (- 10 dB) 80 Hz – 20 kHz	
Nominal Directivity (-6 dB) H x V 90° Conical	
Maximum Peak SPL**	130 dB
Coaxial Component 7" LF / 1.7" Dome Compression Driver	
Nominal Impedance 16 Ω	
Power Handling (AES / Peak) LF 250 / 1000 W	
Rigging	Top and Bottom mini-SLR discs, each containing 3/8" threaded insert
Connection 2x Speakon™ NL4 and 2-Point Barrier Strip	
Height (mm / in) 244.5 / 8.75	
Width Front (mm / in) 188 / 7.5	
Width Rear (mm / in)	155 / 6
Depth (mm / in) 228 / 9	
Weight (kg / lbs)	5.44 / 12
Colour Black & White (Standard), RAL Colours (On Demand)	
Processing Lake	

244.5 mm / 8.75 in

288 mm / 9 in

155 mm / 6 in

188 mm / 7.5 in

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

Documents / Resources

ADAMSON IS7c Light-Weight Passive 2 Way Coaxial Speaker [pdf] User Manual
96X-000X, 96X-500X, 934-00XX, 934-50XX, IS7c, IS7c Light-Weight Passive 2 Way Coaxial Speaker, Light-Weight Passive 2 Way Coaxial Speaker, Passive 2 Way Coaxial Speaker, 2 Way Coaxial Speaker, Coaxial Speaker, Speaker

References

- [Adamson Systems Engineering - Pro Audio & Live Sound Reinforcement](#)
- [Adamson PLM & Lake Handbook V5.2](#)