ADAMSON

IS10p

USER MANUAL
Distribution Date: May 1st, 2021

IS10p User Manual

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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/is10p

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
IS10p - 70 x 40 - 963-0004, 963-0005, 963-0012, 963-5004, 963-5005, 963-5012
IS10p - 100 x 50 - 963-0006, 963-0007, 963-0012, 963-5006, 963-5007, 963-5012

Directive 2006/42/EC: Machinery Directive
IS10p Horizontal Bracket - 934-0029, 934-0042, 934-5029
IS10p Vertical Bracket - 934-0030, 934-5030
IS7p & IS10p Fill Plate - 930-0031, 930-5031
Bracket C-Clamp - 932-0006, 932-5006
IS-Series Sight Mount - 934-0026, 934-5026
IS-Series Pole Mount Adapter - 932-0039
IS-Series C-Clamp - 932-0040
IS-Series Point H-Clamp - 932-0041
IS-Series Tilt Adapter - 932-0042
IS-Series Sight Mount Link - 932-0044
IS-Series Super Sight Mount - 934-0031, 934-5031
IS-Series Articulator - 934-0032, 934-5032

Signed at Port Perry, ON. CA - May 1st, 2021

Brock Adamson (President & CEO)

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ADAMSON
IS-Series

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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/is10p

⚠ 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 judgement. 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.
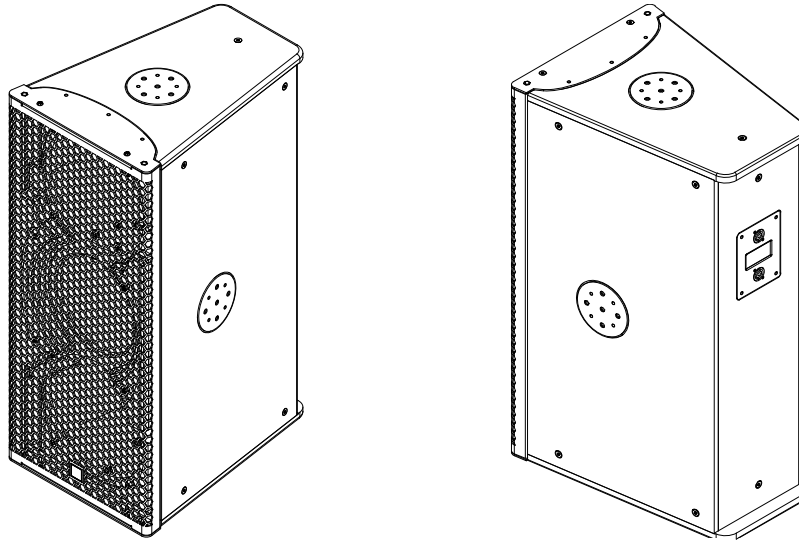
Use only with the rigging frames/accessories specified by Adamson, or sold with the loudspeaker system.

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.**

IS10p

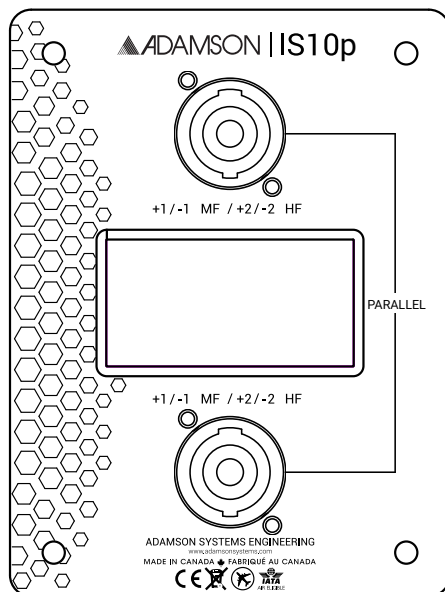## IS10p Sub-Compact Point Source

- The IS10p is a sub-compact point source enclosure. It contains two symmetrically arrayed 10" LF transducers and a 3" HF compression driver mounted on an Adamson waveguide, available in two configurations; with dispersion patterns of either 70° x 40° (HxV) or 100° x 50° (HxV) each rotatable in increments of 90°.

- The operational frequency range of the IS10p is 60Hz to 18kHz. The use of proprietary techologies such as Advanced Cone Architecture allows high maximum SPL level of 139 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, bottom, and on each side, to be used with a wide variety of rigging accessories. Without sacrificing low resonance to composite material, the IS10p weighs only 21 kg / 46.3 lbs.

- The IS10p is intended to be used as either a standalone system, or a fill enclosure in tandem with other IS-Series products. The IS10p is designed to pair easily and coherently with IS-Series subwoofers.

- The IS10p is designed for use with Lab.gruppen's D-Series line of installation amplifiers. The nominal impedance of the IS10p is 8 Ω per band, maximizing amplifier efficiency.
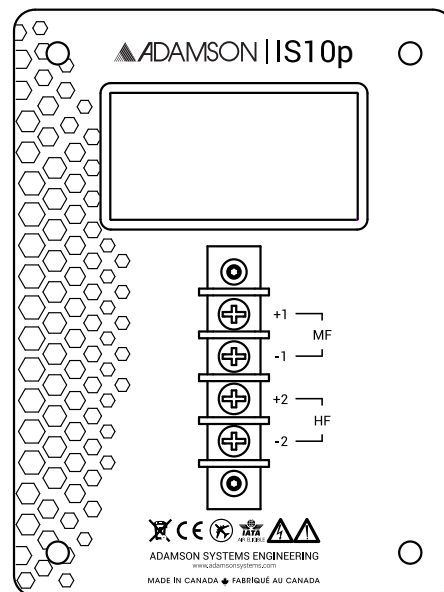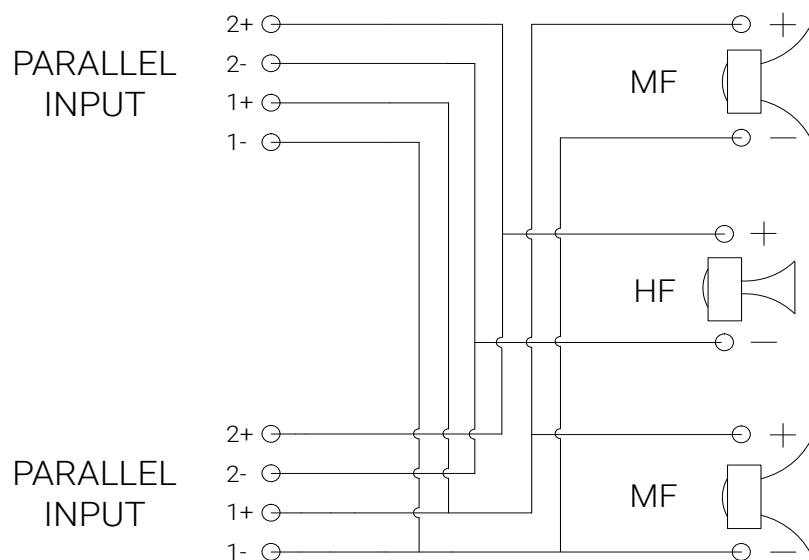
IS10p

- The **IS10p** (963-0004, 963-0007, 963-5004, 963-5007) comes with 2x Neutrik Speakon™ NL4 connections, wired in parallel.
- The **IS10pb** (963-0005, 963-0006, 963-5005, 963-5006) comes with an external barrier strip.
- Pins 1+/- are connected to the 2x ND10-LM MF transducers, wired in parallel.
- Pins 2+/- are connected to the NH3-8 HF transducer.

IS10p Jackplate

IS10pb Jackplate

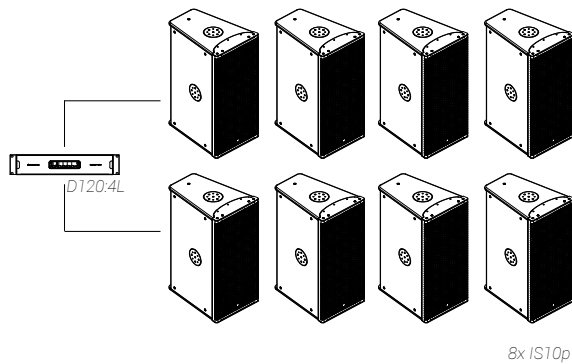IS10p & IS10pb Internal Wiring (IS10pb only has one input)
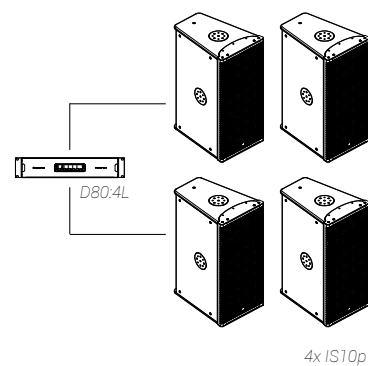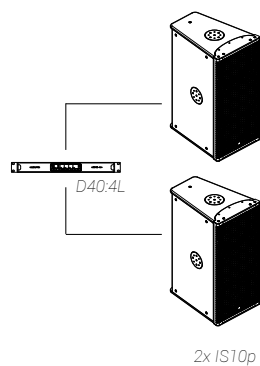
IS10p

Amplification

The IS10p is paired with Lab.gruppen **D-Series** amplifiers.

Maximum quantities per amplifier are shown below.

For a master list, please refer to the Adamson Amplification Chart, found on the Adamson website.
https://adamsonsystems.com/support/downloads-directory/design-and-control/e-rack/283-amplification-chart-9/file

D40:4L

2x IS10p

D80:4L

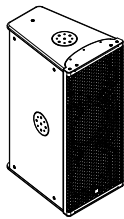4x IS10p

D120:4L

8x IS10p

IS10p

Presets

The Adamson Load Library (https://www.adamsonsystems.com/support/downloads-directory/design-and-control/e-rack/245-adamson-load-library-5-0-1/file) contains presets designed for a variety of IS10p applications. Furthermore, 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 on our website.
https://adamsonsystems.com/support/downloads-directory/design-and-control/e-rack/205-adamson-plm-lake-handbook/file
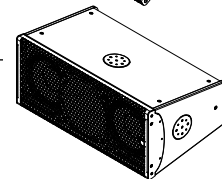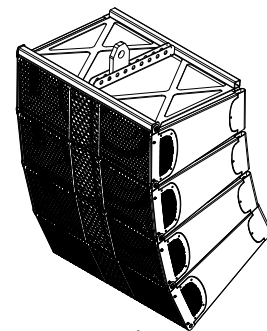
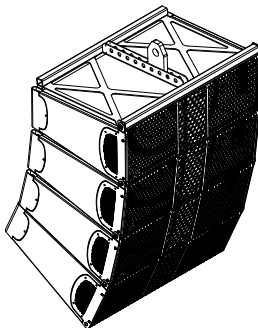| Cabinet Configuration	Applicable Preset	Cabinet Configuration

IS10p FR
Fullrange Mode

IS10p FR LP
Fullrange Mode

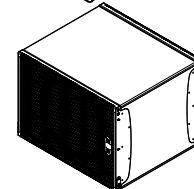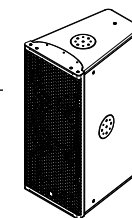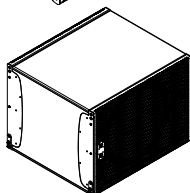*Linear Phase response matching Adamson line arrays including linear phase latency*

IS10p Xo80
Low cut at 80 Hz

Add 5ms of delay for alignment with S-Series subwoofers at the same distance

IS10p Xo80 LP
Low cut at 80 Hz

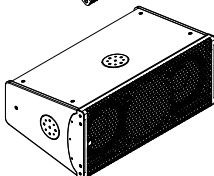*Linear Phase response matching Adamson line arrays including linear phase latency*

IS10p

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 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.
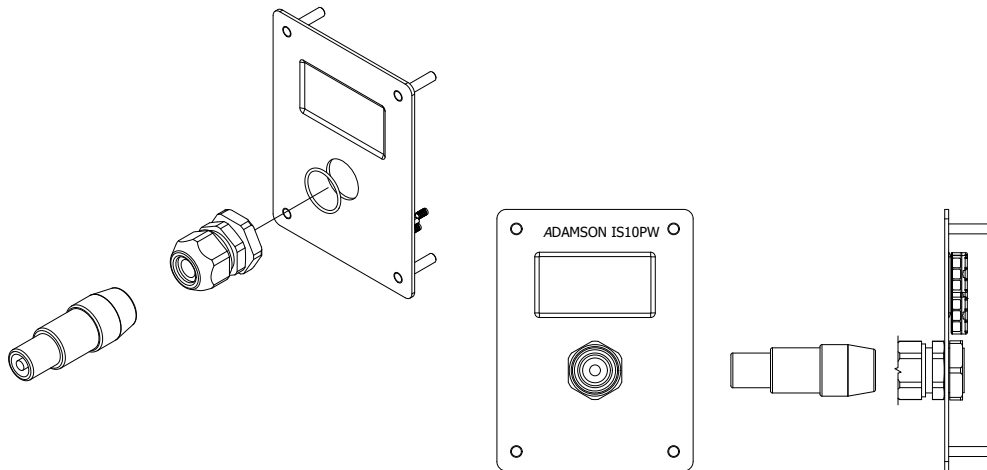
Environmental sealing
Additional protection of the cabinet helps ensure that loudspeaker performance isn't impeded by the harsh environments in which your system is deployed.

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 finish that allows for easy cleaning and removal of contaminants like dirt, grime, salt water or sand.
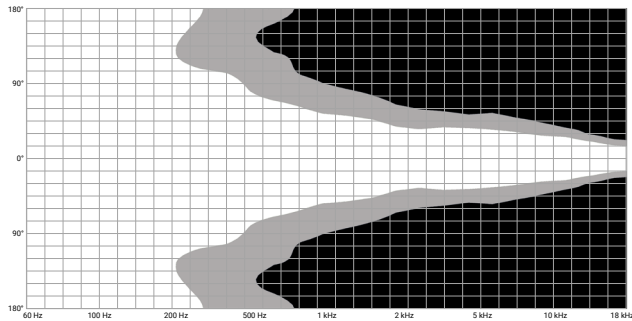
To protect against dust and other particles, a fine stainless steel mesh has been added to all points of entry including behind the front grille screens.

Cabling for the IS-Series weatherized cabinets is pre-wired and protected inside a gasket-sealed jackplate, with gland nuts in place to seal the connection points.
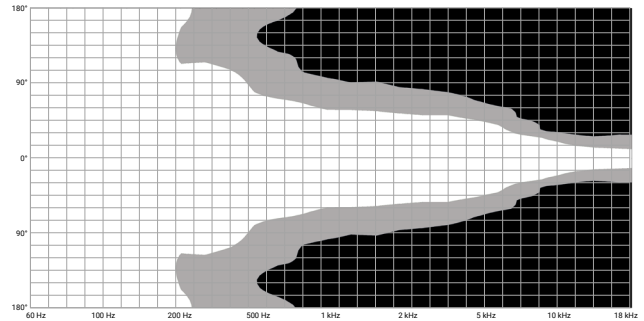
IS10p

IS10p (70x40) Horizontal Pattern

IS10p (100x50) Horizontal Pattern

Frequency Range (+/- 3dB)	60 Hz - 18 kHz
Nominal Directivity (-6 dB) H x V	70° x 40° (optional 100° x 50° available)
Maximum Peak SPL**	139 dB
Components LF	2x ND10-LM 10" Neodymium Driver
Components HF	Adamson NH3-8 3" Diaphragm / 1.4" Exit Compression Driver
Nominal Impedance LF	8 Ω (2x 16 Ω)
Nominal Impedance HF	8 Ω
Power Handling (AES / Peak) LF	700 / 2800 W
Power Handling (AES / Peak) HF	110 / 440 W
Rigging	Integrated Rigging System
Connection	2x Speakon™ NL4 or Barrier Strips
Height (mm / in)	737 / 29
Width Front (mm / in)	326.4 / 12.85
Width Rear (mm / in)	203 / 8
Depth (mm / in)	442 / 17.4
Weight (kg / lbs)	21 / 46.3
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