ADAMSON IS-Series IS7px Ultra Compact Point Source Cabinet User Manual
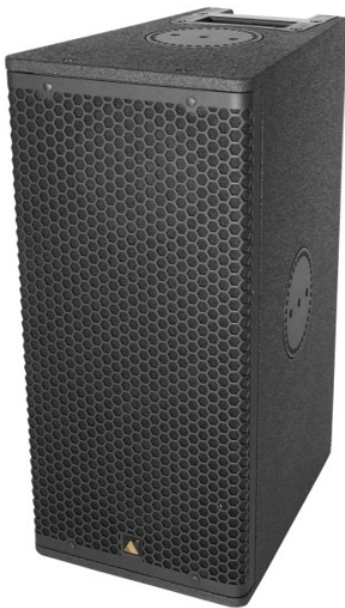
IS7px User Manual
Distribution Date: May 1st, 2021
Copyright 2021 by Adamson Systems Engineering Inc.; all rights reserved
This manual must be accessible to the person operating this product. As such, the product owner must store it in a safe place and make it available upon request to any operator.
The 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/is7px**

Contents **hide**

Safety & Warnings

⚠️ Read these instructions, keep them available for reference. This manual can be downloaded from

⚠️ 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 AVTM 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.
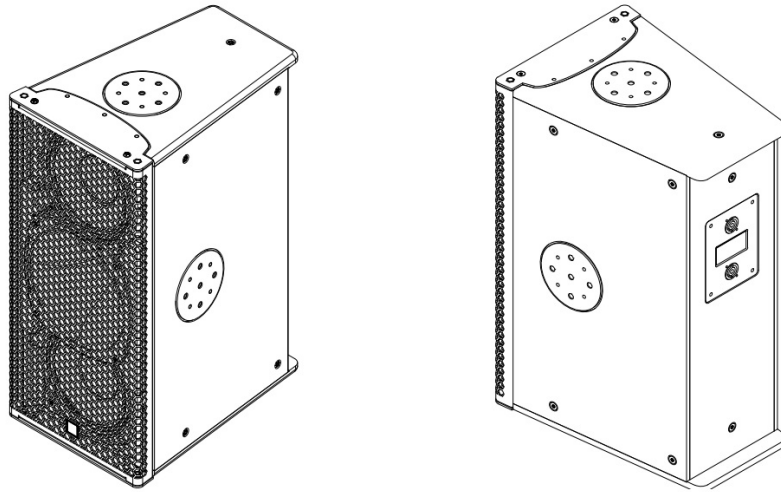

### IS7px Ultra-Compact Point Source

- The IS7px is an ultra-compact point source enclosure. It contains internal passive crossover, two symmetrically arrayed 7″ 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 IS7px is 80Hz to 18kHz. The use of proprietary technologies such as Advanced Cone Architecture allows high maximum SPL.
- 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, bottom, and on each side, to be used with a wide variety of rigging accessories. Without sacrificing low resonance to the composite material, the IS7px weighs only 15 kg / 33 lbs.
- The IS7px is intended to be used as either a standalone system or a fill enclosure in tandem with other IS-Series products.
- The IS7px is designed for use with Lab. gruppen's D-Series line of installation amplifiers. The IS7px is designed to pair easily and coherently with IS-Series subwoofers.
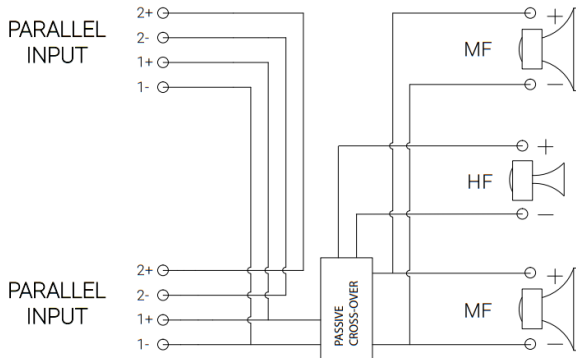
Wiring

- The IS7px (967-0006, 967-0009, 967-5006, 967-5009) comes with 2x Neutrik SpeakonTM NL4 connections, wired in parallel.
- The IS7pbx (967-0007, 967-0010, 967-5007, 967-5010) comes with an external barrier strip.
- Pins 1+/- are connected to the internal passive crossover.
- Pins 2+/- are not connected.
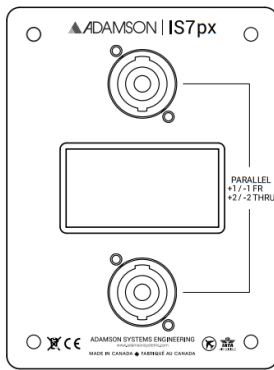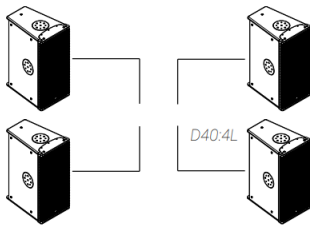
IS7px Jackplate
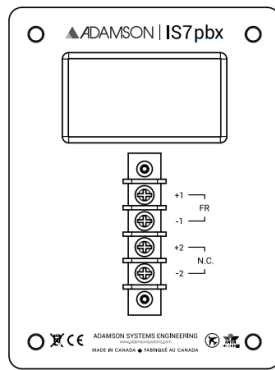
IS7pbx Jackplate

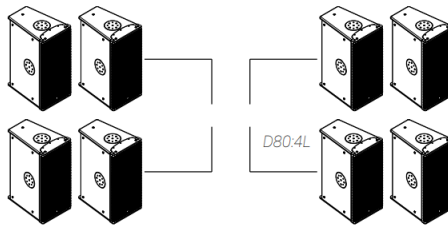*IS7px & IS7pbx Internal Wiring (IS7pbx only has one input)*

Amplification

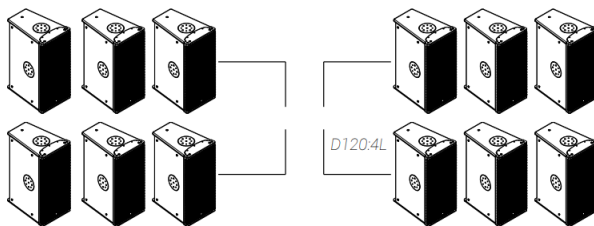The IS7px is paired with Lab.Gruppen D-Series amplifiers.

Maximum quantities of the IS7px per amplifier model 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**
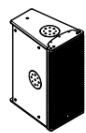

4 IS7px max on a D40 amplifier.

8 IS7px max on a D80 amplifier.


12 IS7px max on a D120 amplifier.

Presets

The Adamson Load Library (**https://www.adamsonsystems.com/support/downloads-directory/design-and-control/erack/245-adamson-load-library-5-0-1/file**) contains presets designed for a variety of IS7px 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-lakehandbook/file**

Cabinet Configuration	Applicable Preset	Cabinet Configuration

IS7px FR
Fullrange Mode

IS7px Xo80
Low cut at 80Hz

Add 5ms of delay for alignment of IS-Series subs at same distance
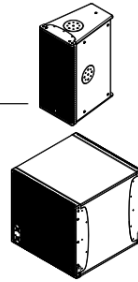
Weatherized

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 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, saltwater, 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
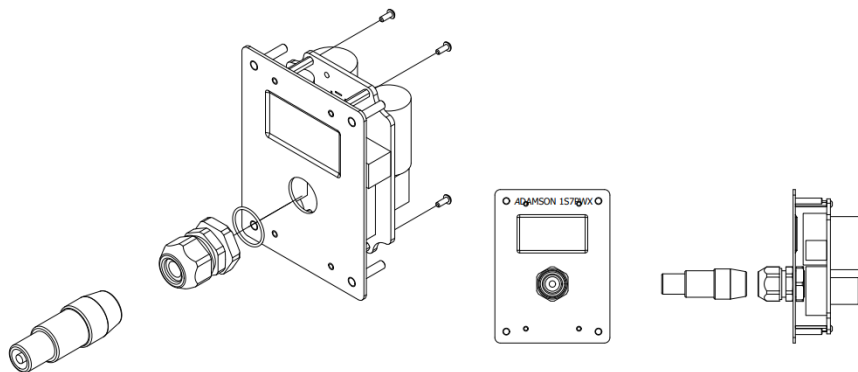
seal the connection points.

Technical Specifications

IS7px 70x40 Horizontal Pattern

IS7px 100x50 Horizontal Pattern
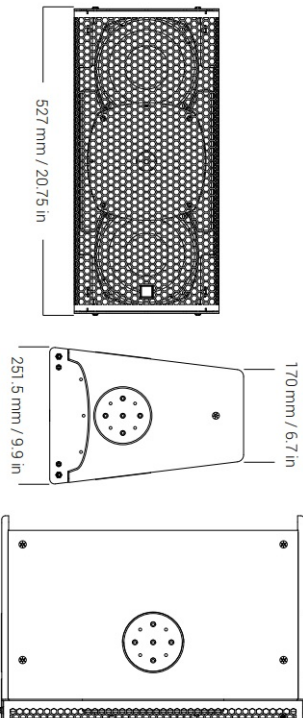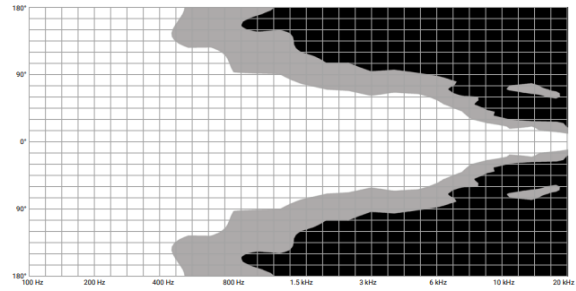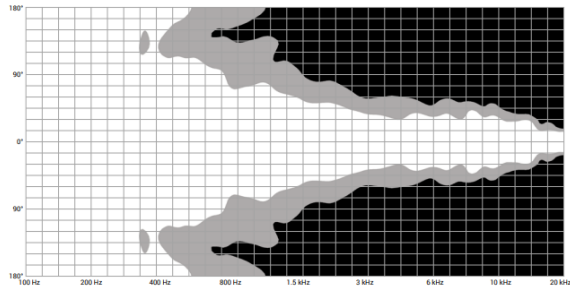
Frequency Range (- 6dB)	80 Hz – 18 kHz
Nominal Directivity (-6 dB) H x V	70° x 40° or 100° x 50° – Rotatable
Maximum Peak SPL	135
Components LF	2x ND7-LM16 7" Neodymium Driver
Components HF	NH3-8 3" Diaphragm / 1.4" Exit Compression Driver
Nominal Impedance Passive	6 Ω
Power Handling (AES / Peak) Passive	500 / 2000 W
Rigging	Integrated Rigging System
Connection	2x Speakon™ NL4 or Barrier Strips
Height (mm / in)	527 / 20.75
Width Front (mm / in)	251.5 / 9.9
Width Rear (mm / in)	170 / 6.7
Depth (mm / in)	356 / 14
Weight (kg / lbs)	15.5 / 34.2
Colour	Black & White (Standard), RAL Colours (On-Demand)
Processing	Lake

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

IS7px – 70 x 40 – 967-0006, 967-0007, 967-0015, 967-5006, 967-5007, 967-5015

IS7px – 100 x 50 – 967-0009, 967-0010, 967-0016, 967-5009, 967-5010, 967-5016

Directive 2006/42/EC: Machinery Directive

IS7p & IS10p Fill Plate – 930-0031, 930-5031

IS7p Short Fill Plate – 930-0032

IS7p Horizontal Bracket – 934-0027, 934-5027

IS7p Vertical Bracket – 934-0028, 934-5028
IS-Series Sight Mount – 934-0026, 934-5026
Bracket C-Clamp – 932-0006, 932-5006
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
IS-Series Articulator – 934-0032, 934-5032

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

Brock Adamson (President & CEO)
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Documents / Resources
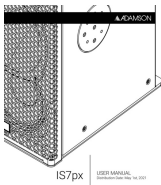
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IS-Series, IS7px, Ultra Compact Point Source Cabinet, IS-Series IS7px Ultra Compact Point Source Cabinet

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