ADAMSON IS7p Full-Range PA Speaker Cabinet User Manual

IS7P User Manual
Distrion Date: March 1st, 2021
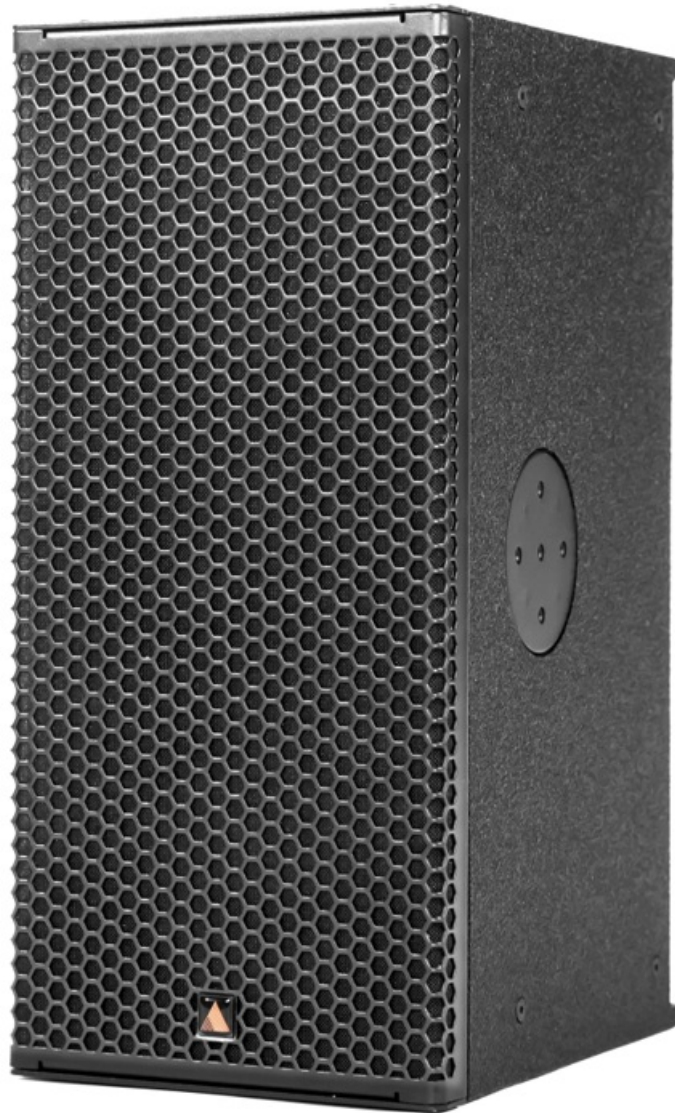
This manual must be accessible to the person operating this product. As such, the product owner must store it in a safe
place and make it available upon request to any operator. The resale of this product must include a copy of this manual. This manual can be downloaded from
https://www.adamsonsystems.com/en/support/downloads-directory/is-series/is7p

Contents

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/is7p

⚠️ Heed all warnings and follow all instructions.

⚠️ A qualifi ed 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.
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 specifi ed by Adamson, or sold with the loudspeaker system.
This speaker enclosure is capable of creating a strong magnetic fi eld. 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.

IS7p Ultra-Compact Point Source
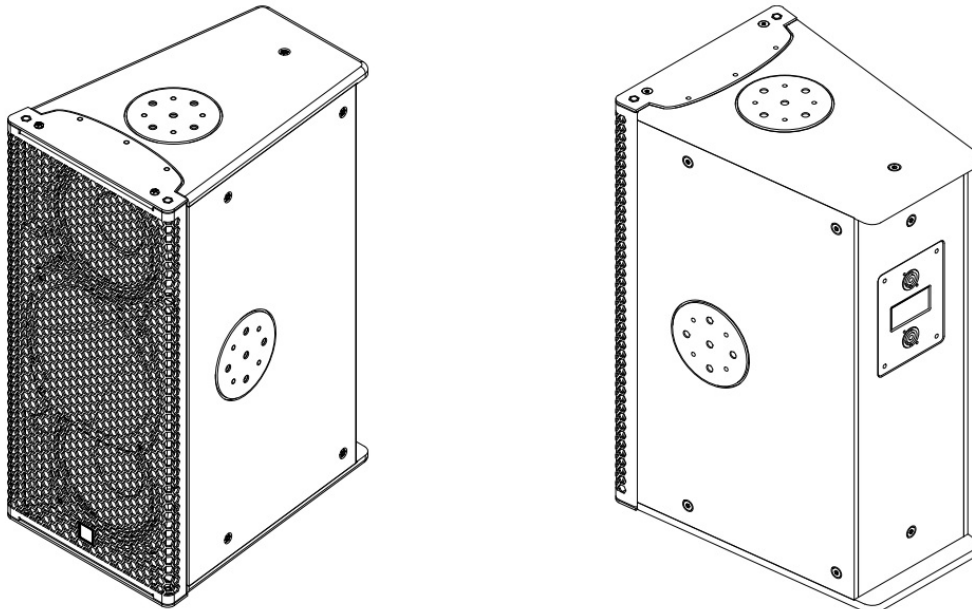
- The IS7p is an ultra-compact point source enclosure. It contains two symmetrically arrayed 7" LF transducers and a 3" HF compression driver mounted on an Adamson waveguide, available in two configurations; with dispersion patterns of either 70° x 40° (HxV) or 100° x 50° (HxV) each rotatable in increments of 90°.
- The operational frequency range of the IS7p is 80Hz to 18kHz. The use of proprietary technologies such as Advanced Cone Architecture allows a high maximum SPL of 136.5 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, bottom, and on each side, to be used with a

wide variety of rigging accessories. Without sacrificing low resonance to the composite material, the IS7p weighs only 15 kg / 33.1 lbs.

- The IS7p is intended to be used as either a standalone system or a fill enclosure in tandem with other IS-Series products. The IS7p is designed to pair easily and coherently with all IS-Series subwoofers.
- The IS7p is designed for use with Lab. Gruppen's D-Series line of installation amplifiers. The nominal impedance of the IS7p is 8 Ω per band, maximizing amplifier efficiency.
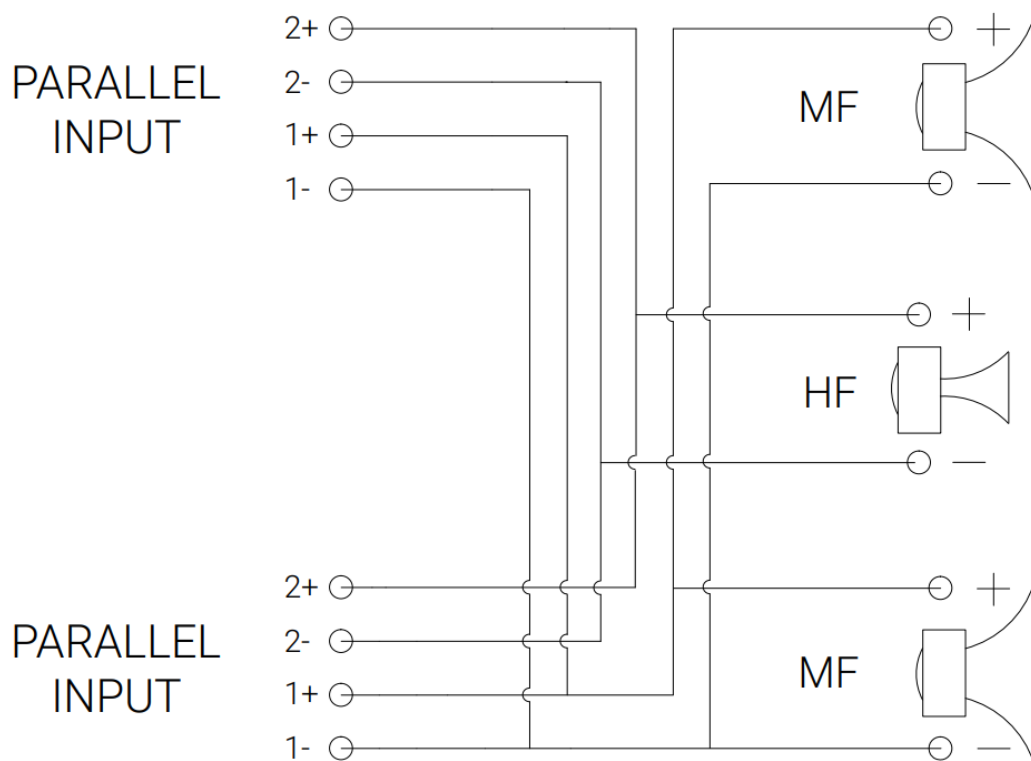
Wiring

- The IS7p (70×40 – 967-0001/100×50 – 967-0003) comes with 2x Neutrik Speakon™ NL4 connections, wired in parallel.
- The IS7pb (70×40 – 967-0002/100×50 967-0005) comes with an external barrier strip.
- Pins 1+/- are connected to the 2x ND7-LM16 MF transducers, wired in parallel.
- Pins 2+/- are connected to the NH3-8 HF transducer.
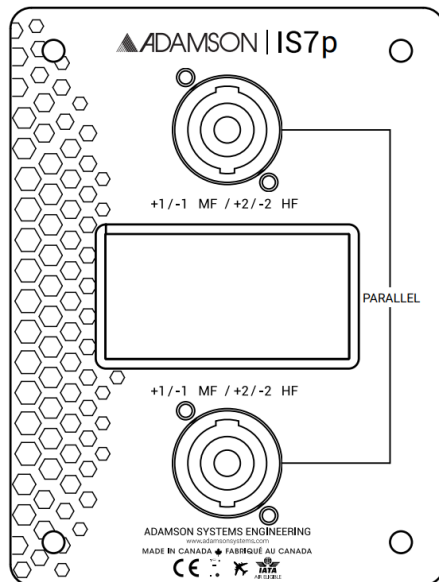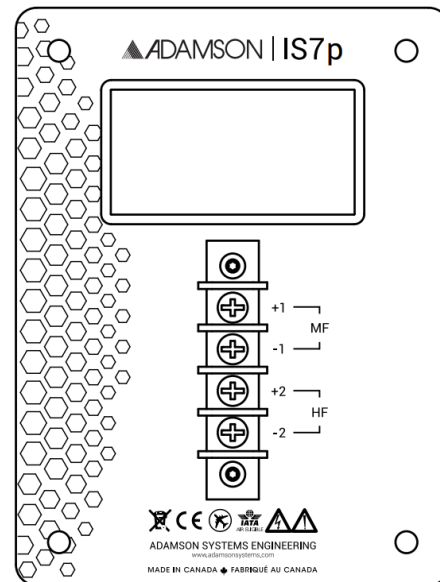
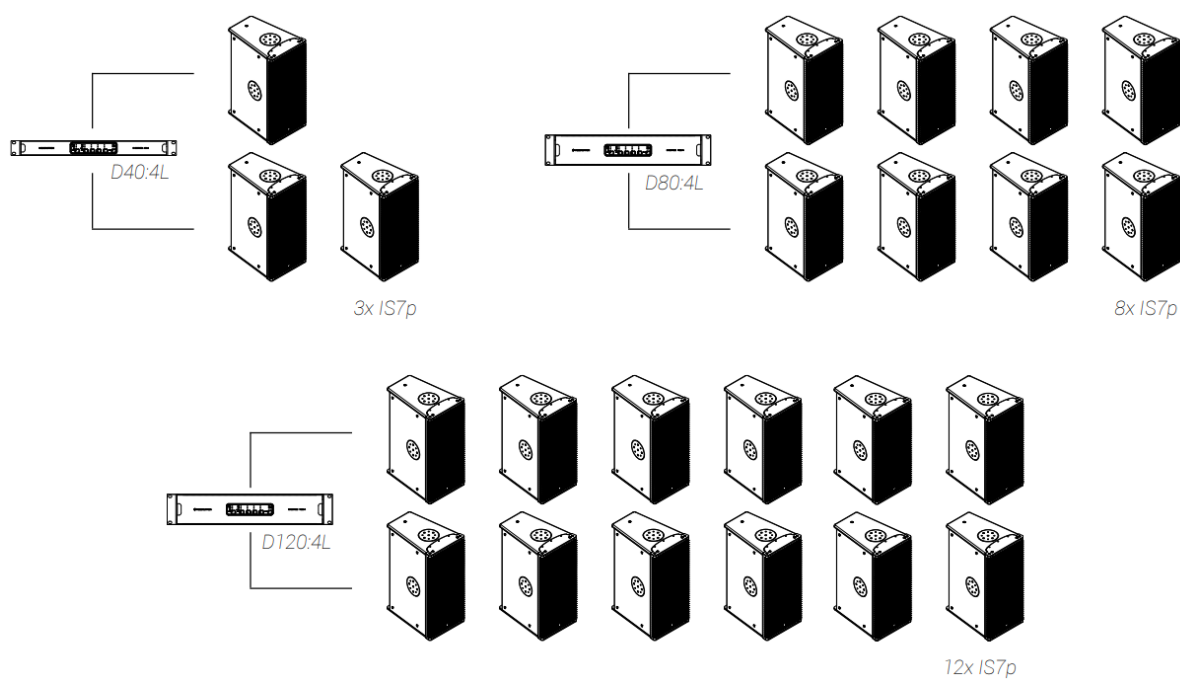*IS7p Jackplate*   *IS7pb Jackplate*

IS7p & IS7pb Internal Wiring (IS7pb only has one input)

Amplification

The IS7p is paired with Lab.Gruppen D-Series amplifiers. Maximum quantities of the IS7p 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/is-series/is7p/327-max-enclosures-peramplifier-v5-0-1-7-1-1

D40:4L

3x IS7p

D80:4L

8x IS7p

D120:4L

12x IS7p

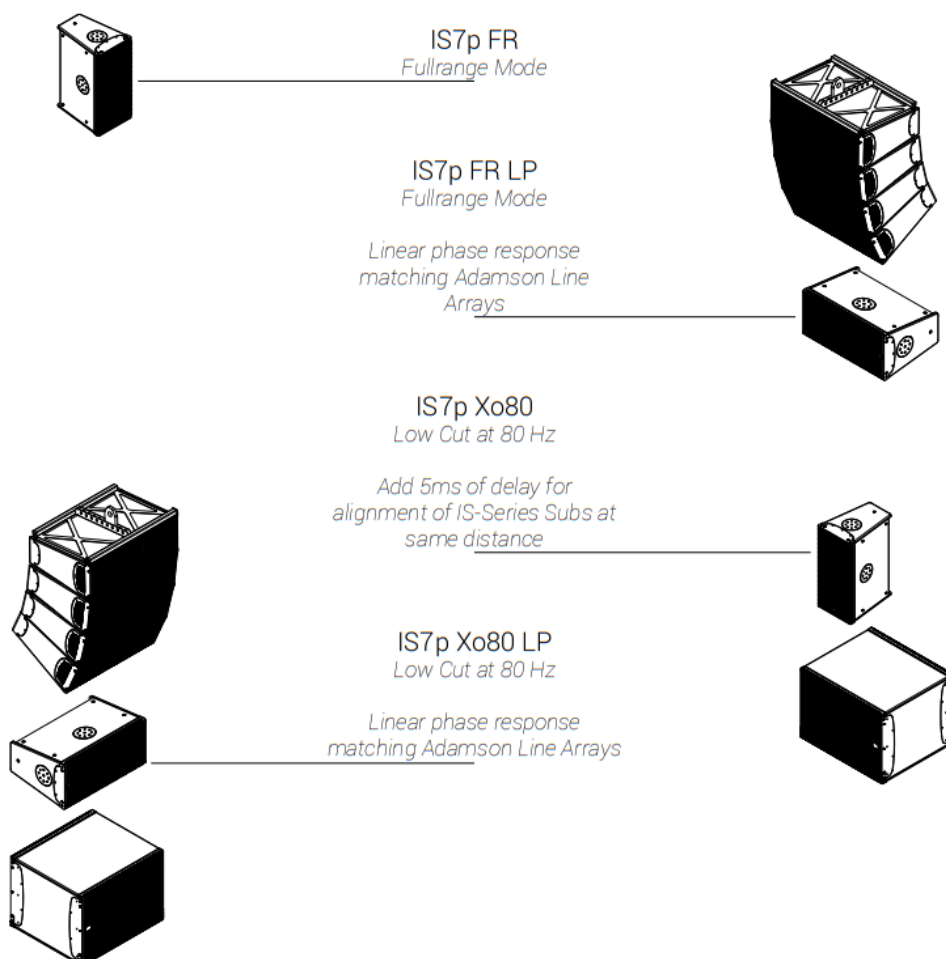| Enclosure	Frequency Band	Output Channel	Cable
IS7p #1	LF	1	#1 (Pin 1, +/-)
	HF	2	#1 (Pin 2, +/-)
IS7p #2	LF	3	#2 (Pin 1, +/-)
	HF	4	#2 (Pin 2, +/-)

Presets

The Adamson Load Library, found on the Adamson website, contains presets designed for a variety of IS7p applications. Furthermore, 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 on our website.
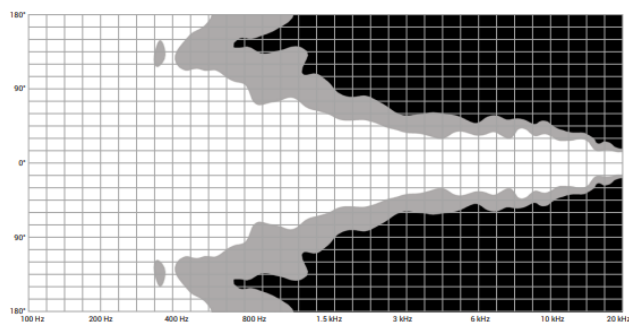https://adamsonsystems.com/support/downloads-directory/design-and-control/e-rack/205-adamson-plm-lakehandbook

Cabinet Configuration | Applicable Preset | Cabinet Configuration

IS7p FR
Fullrange Mode

IS7p FR LP
Fullrange Mode

Linear phase response matching Adamson Line Arrays

IS7p Xo80
Low Cut at 80 Hz

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

IS7p Xo80 LP
Low Cut at 80 Hz
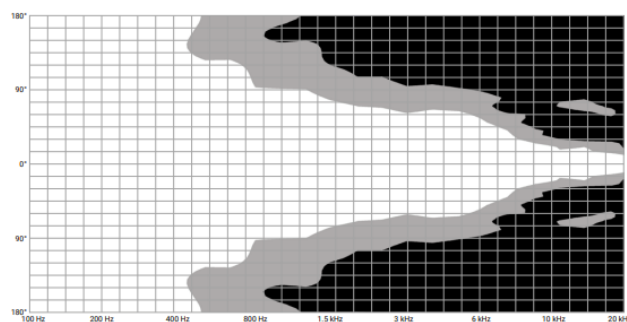
Linear phase response matching Adamson Line Arrays

Technical Specifications

IS7p 70x40 Horizontal Pattern

IS7p 100x50 Horizontal Pattern

Frequency Range (- 6 dB)	80 Hz – 18 kHz
Nominal Directivity (-6 dB) H x V	70° x 40° / 100° x 50°
Maximum Peak SPL**	136.5
Components LF	2x ND7-LM16 7′ Neodymium Driver
Components HF	NH3-83′ Diaphragm / 1.4″ Exit Compression Driver
Nominal Impedance LF	8 0 (2x 16 0)
Nominal Impedance HF	8 0
Power Handling (AES / Peak) LF	500 / 2000 W
Power Handling (AES / Peak) HF	110 / 440 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 / 33.1
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

527 mm / 20.75 in

251.5 mm / 9.9 in

170 mm / 6.7 in

356 mm / 14 in
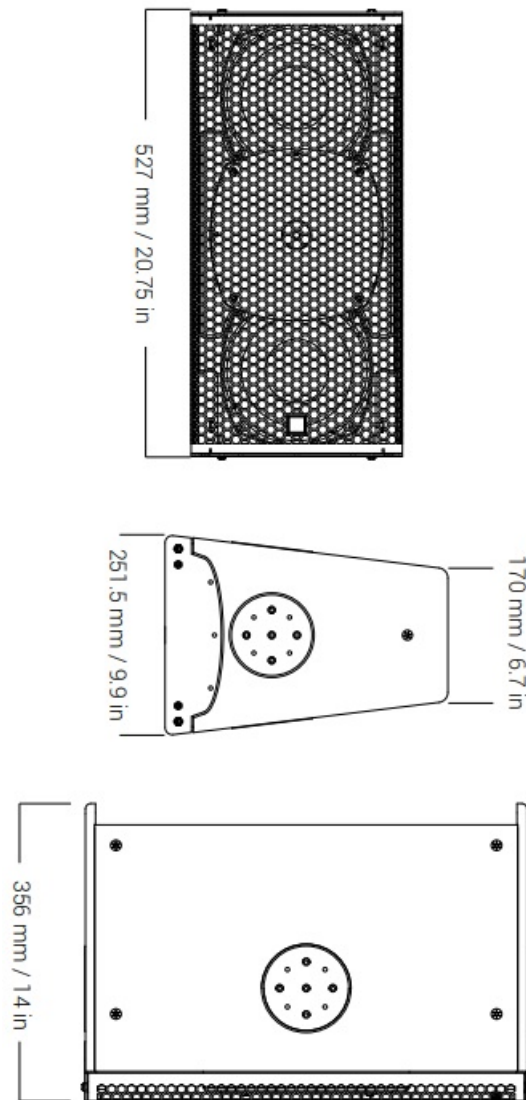
Declarations

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
967-0001 IS7p – 70 x 40
967-0002 IS7pb – 70 x 40
967-0003 IS7p – 100 x 50
967-0004 IS7pb – 100 x 50

Directive 2006/42/EC: Machinery Directive
930-0031 IS7p & IS10p Fill Plate
930-0032 IS7p Short Fill Plate
934-0027 IS7p Horizontal Bracket
934-0028 IS7p Vertical Bracket
934-0026 IS-Series Sight Mount
932-0006 Bracket C-Clamp
932-0039 IS-Series Pole Mount Adapter
932-0040 IS-Series C-Clamp
932-0041 IS-Series Point H-Clamp
932-0042 IS-Series Tilt Adaptor
932-0044 IS-Series Sight Mount LInk

934-0031 IS-Series Super Sight Mount
934-0032 IS-Series Articulator

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

Brock Adamson (President & CEO)
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Documents / Resources
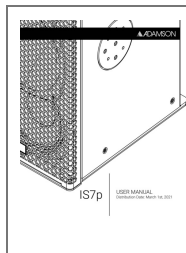
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IS7p, Full-Range PA Speaker Cabinet, IS7p Full-Range PA Speaker Cabinet, PA Speaker Cabinet, Speaker Cabinet, Cabinet

References

- **Adamson Systems Engineering - Pro Audio & Live Sound Reinforcement**
- **IS7p**