

A black and white photograph of a grand piano and a stack of speakers in a room with a large window. The piano is on the left, and the stack of speakers is on the right. The room has a large window in the background, and the floor is made of dark wood. The overall scene is minimalist and elegant.

ADAMSON

IS-Series







Conceived, designed and manufactured at our facility in Port Perry, Canada, the IS-Series is the latest addition to the Adamson range of products. Tight control over all aspects of the process of bringing performance products to market is what sets an Adamson system apart. Instead of relying on industry norms and standards to construct our products, we focus on the perfect solution and create designs to make that solution a reality. Our 30 year history of following this doctrine has formed the building blocks of our company.

The IS-Series brings the rider acceptance and unmatched performance that brought Adamson to fame in the touring market to the world of integration. Leveraging proprietary technologies such as Controlled Summation Technology, Advanced Cone Architecture and intuitive rigging solutions while paying extra care to the industrial and mechanical design requirements of high performance products in the integration market.

Permanent installations present their own set of expectations, and architects and designers need a product which is purpose-built for them. Blending into the surrounding space, leaving the architectural design at the center of attention while still delivering the same dynamic properties that has become an Adamson hallmark.

Paired with Lab.gruppen D-Series amplifiers, the IS-Series offers industry-standard Lake™ control and monitoring, while ensuring consistent audio performance worldwide. D-Series amplifiers were developed for the integration market, offering Phoenix connectors as well as multiple price and power points to specifically tailor the amplifiers exactly to the application.

PURPOSE BUILT



CORE TECHNOLOGY

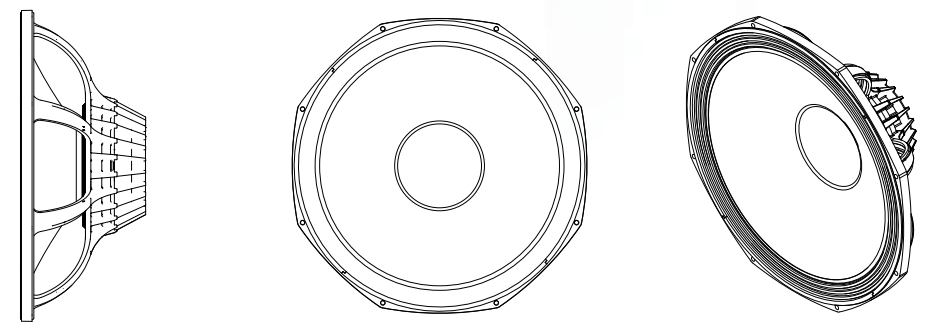
ADVANCED CONE ARCHITECTURE

Traditional cone architecture conforms to a design that makes compromises in order to maintain the stability of the paper material. These compromises often result in degradation of the sonic characteristics of the transducer.

Adamson's treated Kevlar exhibits high stiffness and low mass, which means we can form cone shapes that improve sonic performance without sacrificing stability. A major advantage is a lowered ripple effect, which occurs in paper cone drivers under high duress. Cone ripple causes soundwaves to be emitted in a non-linear manner, resulting in degraded transient behavior. Since our drivers maintain stability under high duress, the audience never experiences loss of fidelity, no matter the playback material or level.



Adamson drivers also employ unique basket designs in order to maximize the ratio of radiating cone surface area, as well as ingenious heat sink designs in the magnet assembly which serve to improve thermal dissipation.

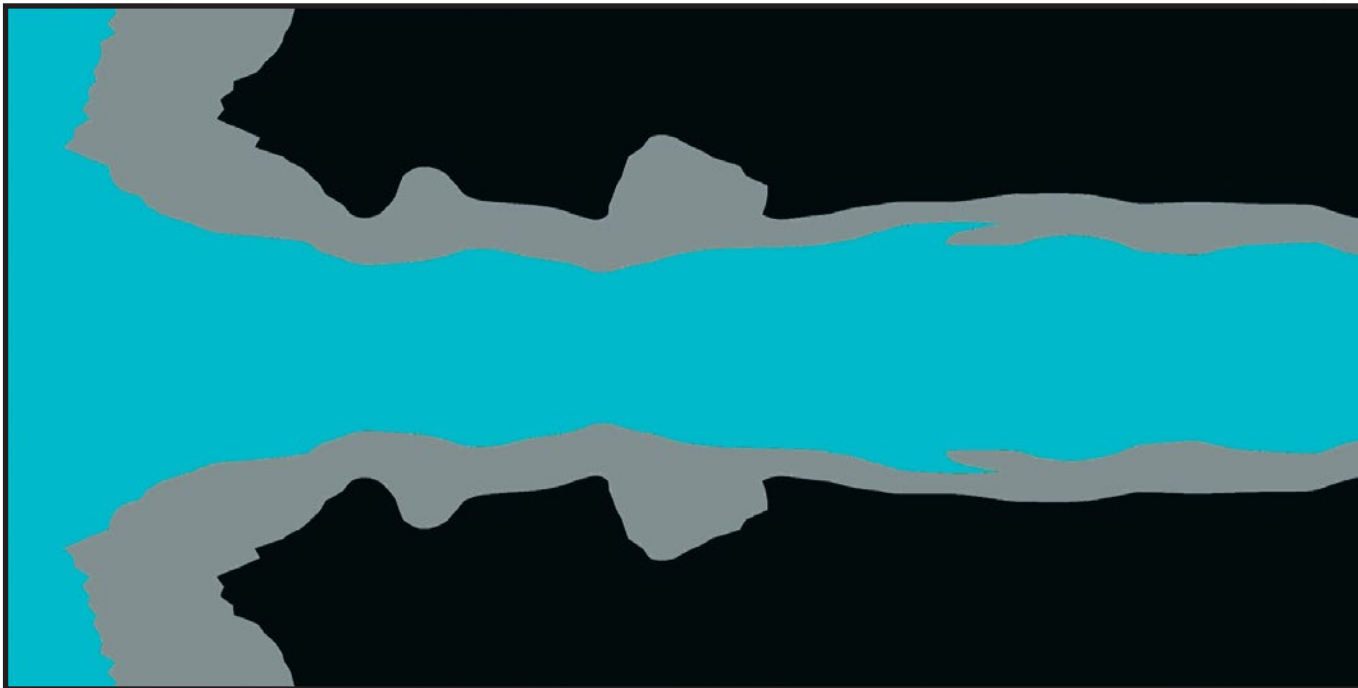


CORE TECHNOLOGY

CONTROLLED SUMMATION TECHNOLOGY

Low-mid frequency lobing is a common side-effect of traditional 2-way designs. To solve this problem, Adamson has introduced and patented its Controlled Summation Technology (CST). CST reduces the spacing between mid frequency sources by outwardly splaying the drivers and then using DSP overlap control between mid frequency and high frequency sources to eliminate the interference normally associated with this type of design. Doing this also allows the high frequency waveguide to maintain a preferential exit size, ensuring that it retains its superior directivity control.

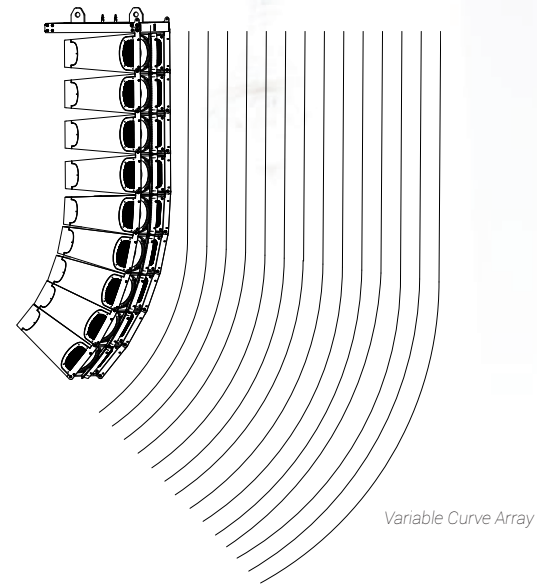
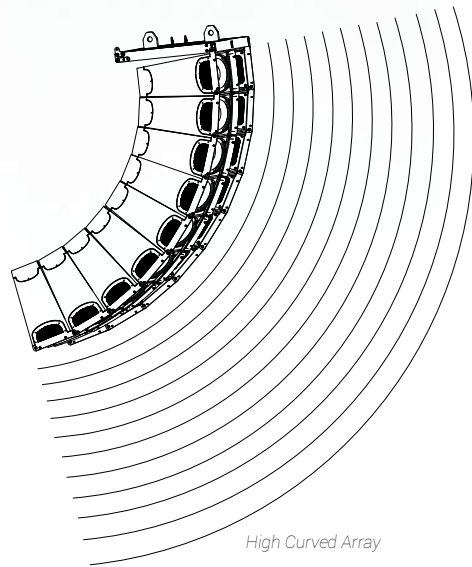
Horizontal pattern control depends in part on the distance between sources producing the same band of frequencies. Higher frequencies require less distance between acoustic sources for smooth responses. There is a physical limitation on how close two transducers can be placed, but by producing the same frequency range with both a compression driver and the low frequency transducers, the effective distance between sources is cut in half. Precisely adjusted DSP controlled overlap is required in order to apply this technology and create a smooth, broad-band horizontal pattern contained in a unified wavefront.



CORE TECHNOLOGY

AXIAL PROPAGATION TECHNOLOGY

Used in every line array product throughout Adamson's product line, Axial Propagation Technology refers to the method of controlling high frequency dispersion. A multi-channel sound chamber is employed which corrects the dispersion pattern of the high frequency compression driver along both the vertical and horizontal axes.



Creating a nearly cylindrical wavefront is crucial in order for a line array to maintain sonic stability over long distances. To create such a wavefront, the path correction that takes place within this sound chamber must be neither divergent nor diffractive, but rather convergent and additive. The creation of this type of wavefront allows for a variably curved array. The horizontal dispersion remains constant.

Adamson's years of research and development into this topic have yielded a wealth of experience and knowledge which goes towards every generation of Axial Propagation Technology designed and produced in our facility. We are constantly building on our knowledge base to improve the performance of our products in the field.

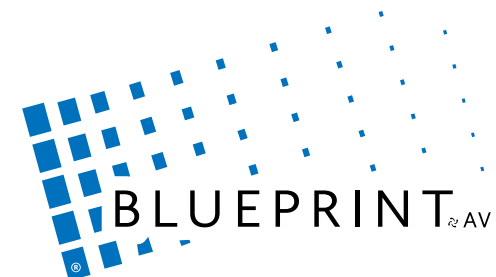
CORE TECHNOLOGY

DESIGN, SIMULATE, EVALUATE

Blueprint AV™ is Adamson's 2D and 3D modeling suite, which provides fast and precise simulations of all of our products in an environment created by you.

Room design is simple and efficient. With tools such as the 2D or 3D Room Calculator at your disposal, a detailed representation of the space you are working in is simple to create. Through the use of various geometric shapes, complex room-design becomes rudimentary, allowing you to spend more time perfecting your loudspeaker deployment.

Blueprint AV™ offers a wide variety of simulation options, from multi-weighted SPL measurements, to virtual microphone placement, to time and directivity simulations. Blueprint AV™ provides Adamson users all the tools necessary to refine the use of their system in a given space.

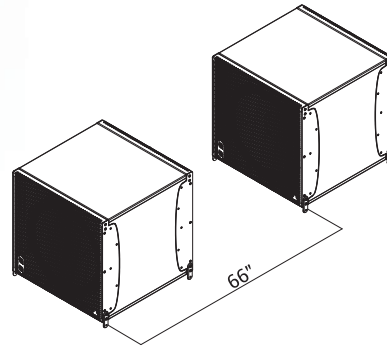
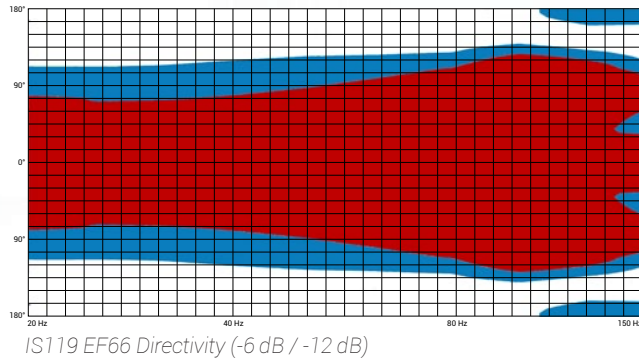


CORE TECHNOLOGY

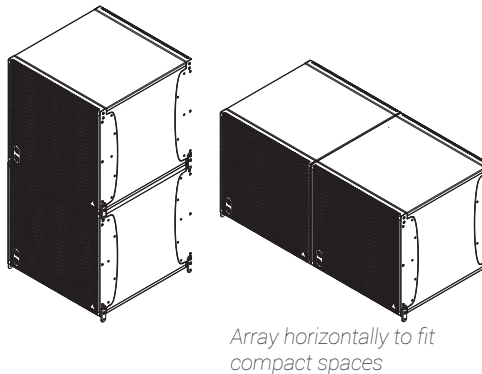
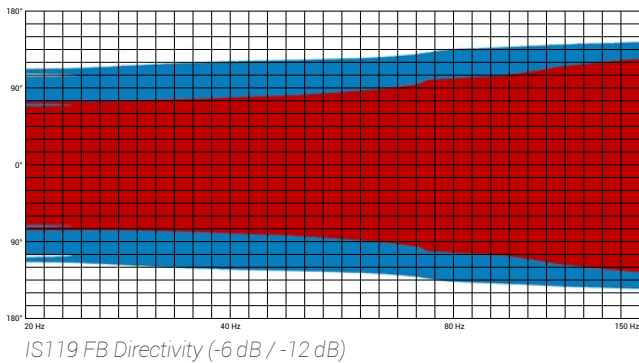
CARDIOID MADE EASY

Adamson offers specifically designed cardioid presets for each of its subwoofer options, greatly reducing the rearward radiated audio energy. The three different configurations vary in number and placement of individual cabinets and are optimized for different aspects, ie. minimal footprint or maximum efficiency.

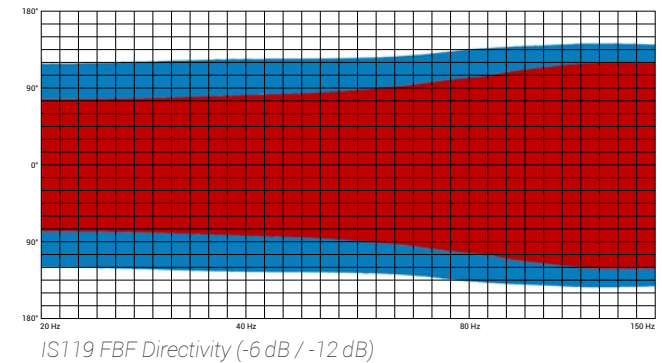
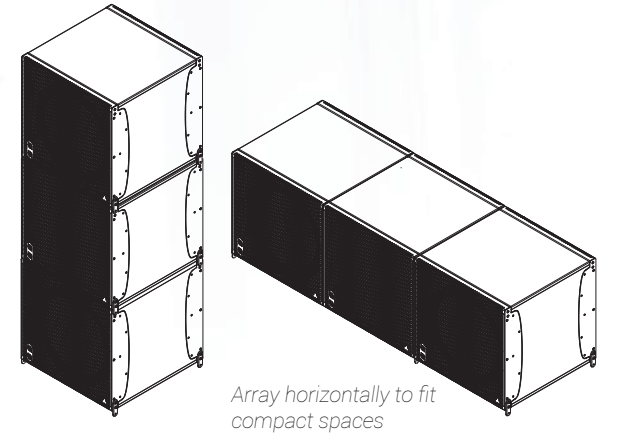
End Fire (EF66)



Front-Back (FB)



Front-Back-Front (FBF)



CONNECTED & SECURE

AMPLIFICATION, PROCESSING & AUDIO NETWORKING

The D-series range is Lab.gruppen's install-dedicated powered loudspeaker management platform, seamlessly integrating four channels of class TD+ amplification, on board 4-in/4-out Lake® Processing, redundant Dante, load verification and real-time, real world, performance monitoring.

Engineered as a unified system, D-series amplifiers offer significant advantages in sonic performance, user functionality, inventory utilization, and long-term cost savings, especially when compared to conventional approaches using separate components. Incorporating several new advancements to maintain reliable, sustained output at unprecedented power levels, the Regulated Switch Mode Power Supply (R.SMPS) is a new universal design that connects to any AC power source in the world. The design also incorporates power factor correction (PFC) to more effectively use the available power service. Rational Power Management allows the user true flexibility in allocating available power across all output channels.

Digital media distribution significantly reduces implementation anxiety by separating the logical and physical connection attributes of the system. This approach can offer costs saving in time and money, while providing better performance than analog wiring. Digital audio distribution eliminates masses of bulky, heavy, expensive, copper wires. Installation is simplified; a single lightweight, inexpensive CAT5e cable can carry all the required inputs and outputs as digital audio data. Dante also offers integrators the ability to integrate existing networks using industry standard IT hardware.



D SERIES 40:4

D SERIES 20:4

D SERIES 10:4

D SERIES 10:4



POWER
TEMP
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POWER
TEMP
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LOAD
AMP
SIGNAL
MUTE
1
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4
SELECT

SYSTEM SPECIFICATIONS

ULTRA COMPACT

IS7

IS7p/IS7px

IS118

Frequency Range (+/- 3dB)	80 Hz - 18 kHz	Frequency Range (+/- 3dB)	80 Hz - 18 kHz	Frequency Range (+/- 3dB)	35 Hz - 80 Hz
Nominal Directivity (-6 dB) H x V	100° x 12.5°	Nominal Directivity (-6 dB) H x V	70° x 40°	Nominal Directivity (-6 dB) H x V	N/A
Maximum Peak SPL	138 dB*	Maximum Peak SPL	135	Maximum Peak SPL	133 dB**
Components LF	2x ND7-LM-8 7" Kevlar Neodymium Driver	Components LF	2x ND7-16 7" Kevlar Neodymium Driver	Components LF	ND18-S 18" Kevlar Neodymium Driver
Components HF	NH3-16 3" Diaphragm / 1.4" Exit Compression Driver	Components HF	NH3-8 3" Diaphragm / 1.4" Exit Compression Driver	Components HF	N/A
Nominal Impedance LF	16 Ω (2 x 8 Ω in series)	Nominal Impedance LF/Passive	8 Ω (2 x 16 Ω in parallel) / 6 Ω	Nominal Impedance LF	8 Ω
Nominal Impedance HF	16 Ω	Nominal Impedance HF	8 Ω	Nominal Impedance HF	N/A
Power Handling (AES / Peak) LF	500 / 2000 W	Power Handling (AES / Peak) LF/Passive	500 / 2000 W	Power Handling (AES / Peak) LF	500 / 2000 W
Power Handling (AES / Peak) HF	110 / 440 W	Power Handling (AES / Peak) HF	110 / 440 W	Power Handling (AES / Peak) HF	N/A
Rigging	Integrated Rigging System	Rigging	Integrated Rigging System	Rigging	Integrated Rigging System
Connection	2x Speakon™ NL4 or Barrier Strips	Connection	2x Speakon™ NL4 or Barrier Strips	Connection	4x Speakon™ NL4 (2x Front, 2x Rear), or Barrier Strips
Height Front (mm / in)	236 / 9.3	Height (mm / in)	527 / 20.75	Height Front (mm / in)	528 / 20.8
Height Back (mm / in)	122 / 4.8	Width Front (mm / in)	251.5 / 9.9	Height Back (mm / in)	N/A
Width (mm / in)	527 / 20.75	Width Rear (mm / in)	170 / 6.7	Width (mm / in)	527 / 20.75
Depth (mm / in)	401 / 15.8	Depth (mm / in)	356 / 14	Depth (mm / in)	495 / 19.5
Weight (kg / lbs)	13.2 / 29	Weight (kg / lbs)	14.6 / 32.2 (15 / 33 with IS7px)	Weight (kg / lbs)	39 / 85
Colour	Black & White (Standard), RAL Colours (On Demand)	Colour	Black & White (Standard), RAL Colours (On Demand)	Colour	Black & White (Standard), RAL Colours (On Demand)
Processing	Lake (2-way FIR Module)	Processing	Lake (2-way Module)	Processing	Lake (1-way Module)

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

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

SYSTEM SPECIFICATIONS

ULTRA COMPACT

IS10/IS10n

IS10p

IS119

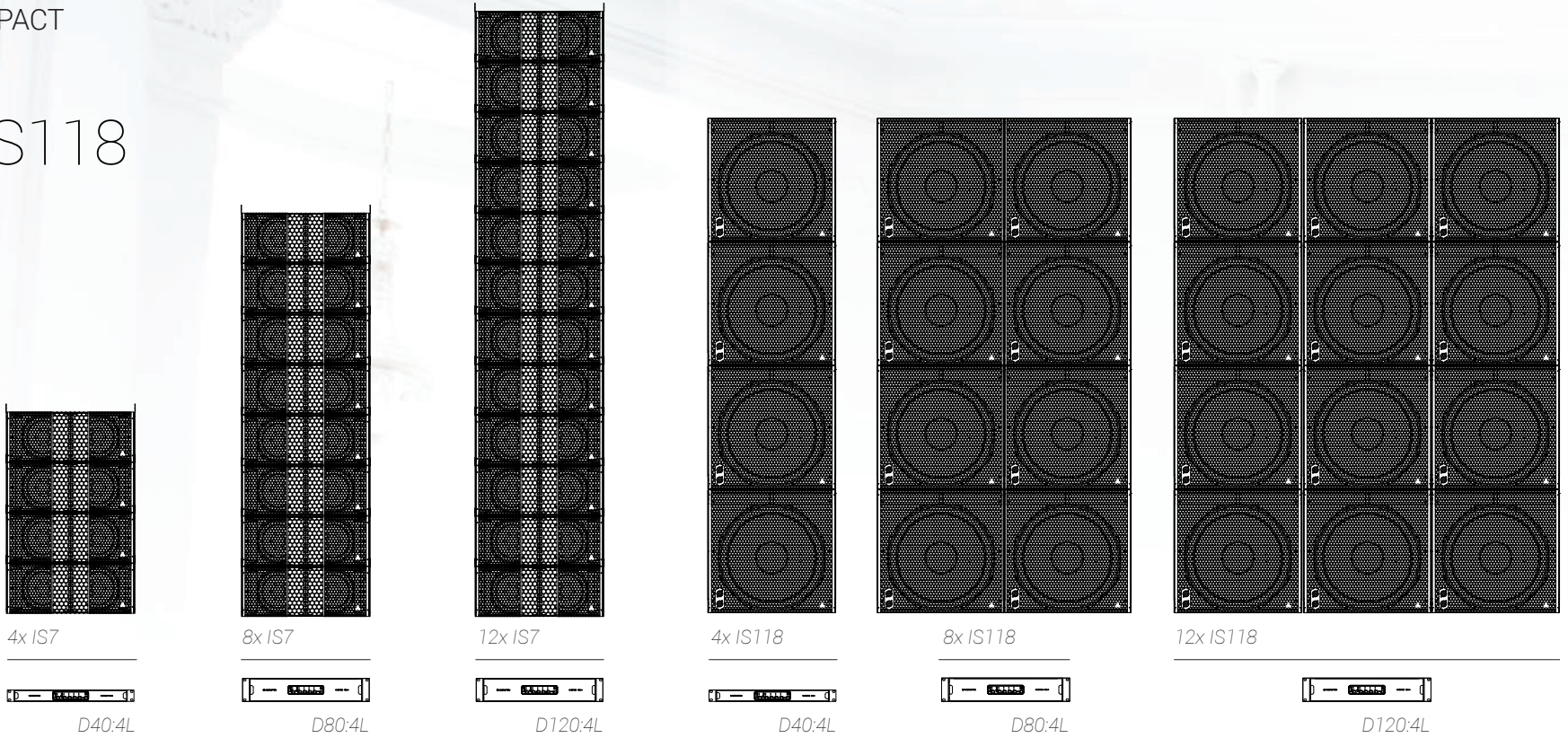
Frequency Range (+/- 3dB)	60 Hz - 18 kHz	Frequency Range (+/- 3dB)	60 Hz - 18 kHz	Frequency Range (+/- 3dB)	30 Hz - 80 Hz
Nominal Directivity (-6 dB) H x V	110° x 10° (80° x 10° with IS10n)	Nominal Directivity (-6 dB) H x V	70° x 40° or 100° x 50°	Nominal Directivity (-6 dB) H x V	N/A
Maximum Peak SPL	141.3 dB*	Maximum Peak SPL	141	Maximum Peak SPL	138 dB**
Components LF	2x ND10-LM 10" Kevlar Neodymium Driver	Components LF	2x ND10-LM 10" Kevlar Neodymium Driver	Components LF	ND19 19" Kevlar Neodymium Driver
Components HF	NH4TA2 4" Diaphragm / 1.5" Exit Compression Driver	Components HF	NH3-8 3" Diaphragm / 1.4" Exit Compression Driver	Components HF	N/A
Nominal Impedance LF	8 Ω (2 x 16 Ω in parallel)	Nominal Impedance LF	8 Ω (2 x 16 Ω in parallel)	Nominal Impedance LF	8 Ω
Nominal Impedance HF	8 Ω	Nominal Impedance HF	8 Ω	Nominal Impedance HF	N/A
Power Handling (AES / Peak) LF	700 / 2800 W	Power Handling (AES / Peak) LF	700 / 2800 W	Power Handling (AES / Peak) LF	1200 / 4800 W
Power Handling (AES / Peak) HF	160 / 640 W	Power Handling (AES / Peak) HF	110 / 440 W	Power Handling (AES / Peak) HF	N/A
Rigging	Integrated Rigging System	Rigging	Integrated Rigging System	Rigging	Integrated Rigging System
Connection	2x Speakon™ NL4 or Barrier Strips	Connection	2x Speakon™ NL4 or Barrier Strips	Connection	4x Speakon™ NL4 (2x Front, 2x Rear), or Barrier Strips
Height Front (mm / in)	300 / 11.8	Height (mm / in)	737 / 29	Height Front (mm / in)	544 / 21.4
Height Back (mm / in)	175 / 6.9	Width Front (mm / in)	326.4 / 12.85	Height Back (mm / in)	737 / 29
Width (mm / in)	737 / 29	Width Rear (mm / in)	203 / 8	Width (mm / in)	645 / 25.4
Depth (mm / in)	518 / 20.4	Depth (mm / in)	442 / 17.4	Depth (mm / in)	44.5 / 98
Weight (kg / lbs)	25.6 / 56.5	Weight (kg / lbs)	21 / 46.3	Weight (kg / lbs)	Black & White (Standard), RAL Colours (On Demand)
Colour	Black & White (Standard), RAL Colours (On Demand)	Colour	Black & White (Standard), RAL Colours (On Demand)	Colour	Lake (1-way Module)
Processing	Lake (2-way FIR Module)	Processing	Lake (2-way Module)	Processing	Lake (1-way Module)

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

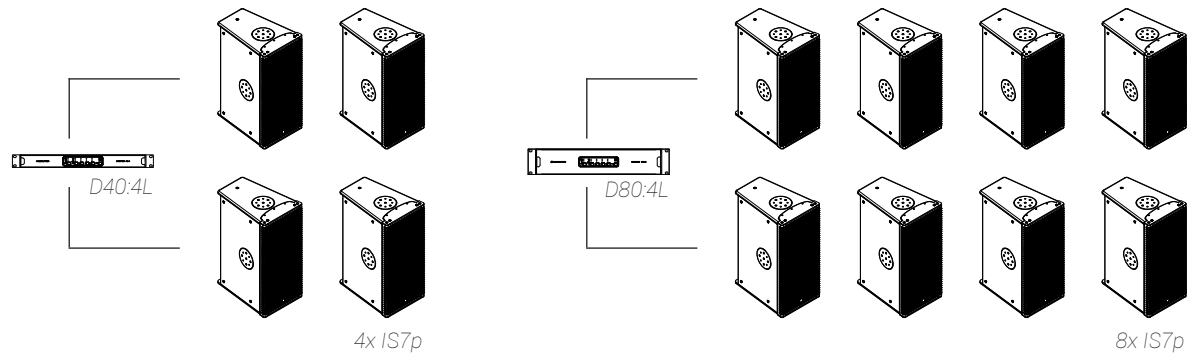
SYSTEM CONFIGURATIONS

ULTRA COMPACT

IS7 & IS118



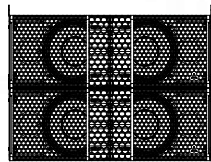
IS7p



SYSTEM CONFIGURATIONS

SUB COMPACT

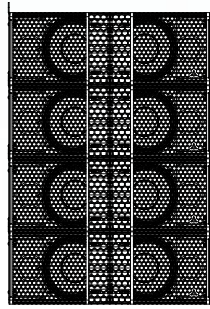
IS10 & IS119



2x IS10



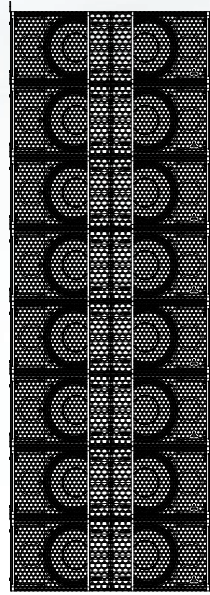
D40:4L



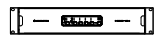
4x IS10



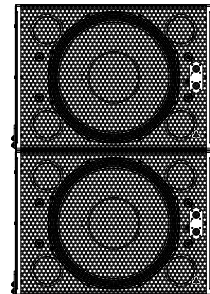
D80:4L



8x IS10



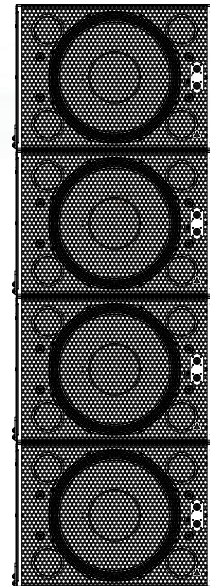
D120:4L



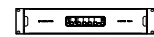
2x IS119



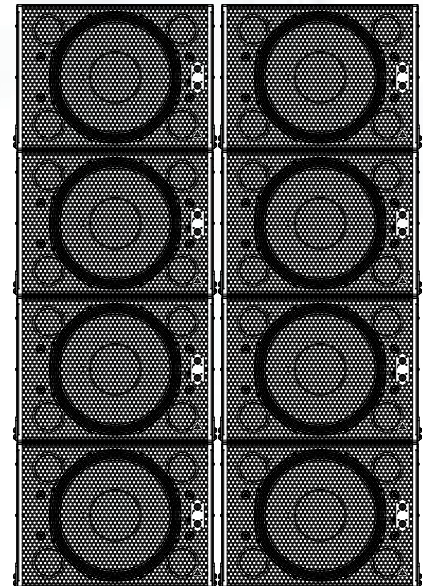
D80:4L



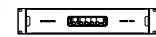
4x IS119



D120:4L

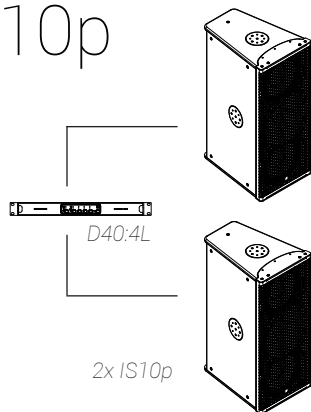


8x IS119

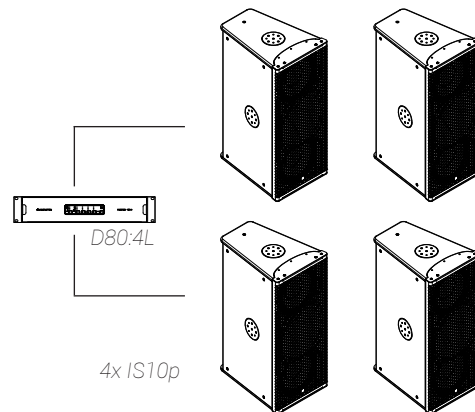


D200:4L

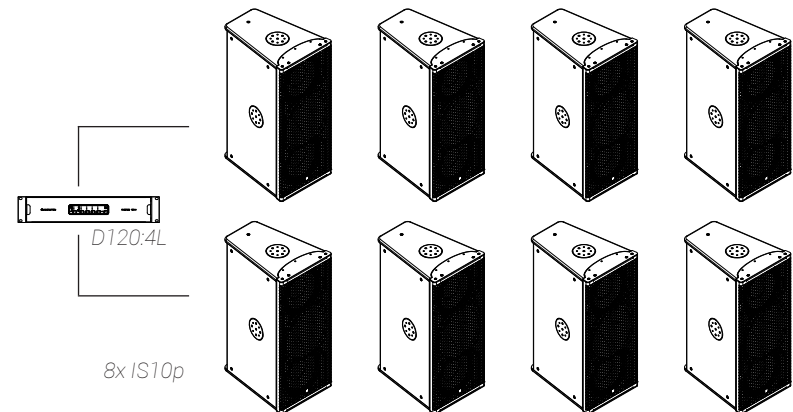
IS10p



2x IS10p



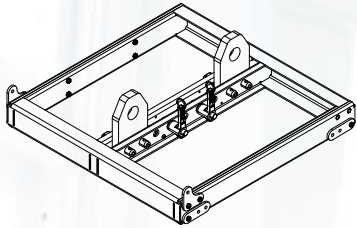
4x IS10p



8x IS10p

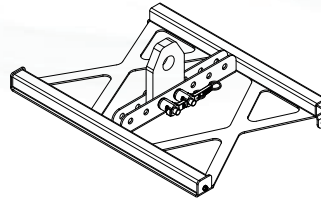
RIGGING ACCESSORIES

LINE ARRAY



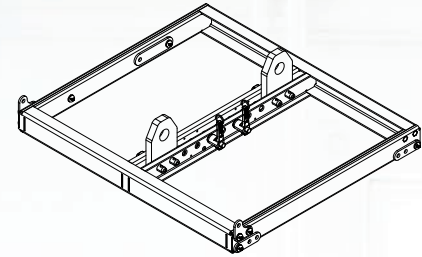
IS7 & IS118 Support Frame

Suspension, stacking and transition frame for IS7 & IS118 enclosures



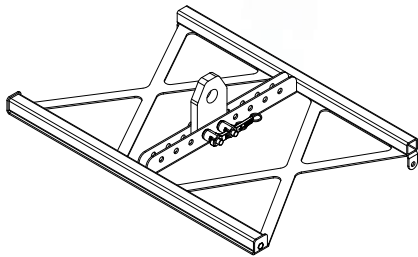
IS7 Micro Frame

Suspension frame to hang up to 8x IS7 enclosures



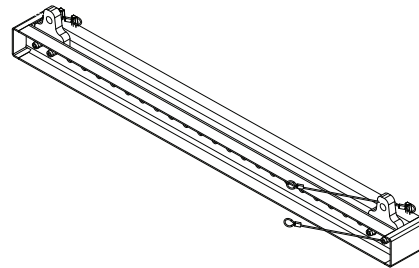
IS10 & IS119 Support Frame

Suspension, stacking and transition frame for IS10 & IS119 enclosures



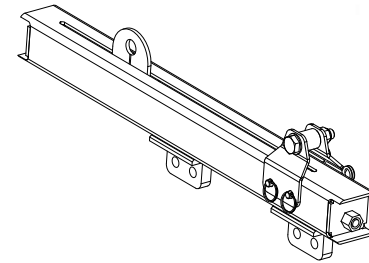
IS10 Micro Frame

Suspension frame to hang up to 4x IS10 enclosures



S-Series Extended Beam

Extension beam for larger angles

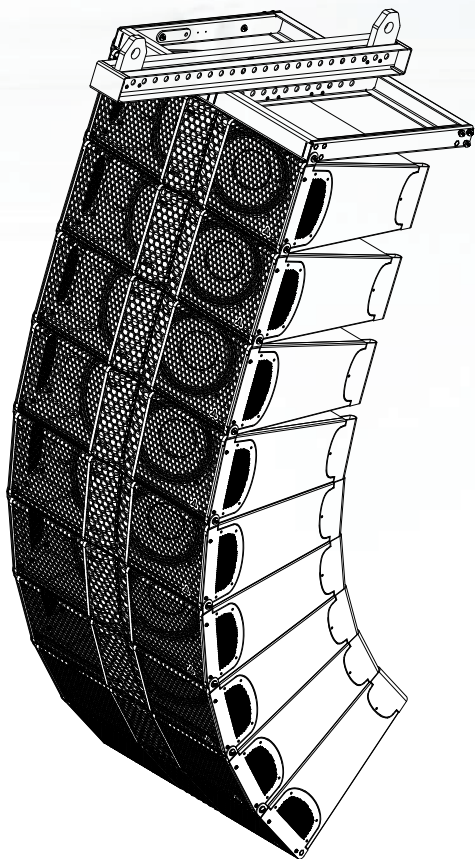


S-Series Moving Point Extended Beam

Moving point beam to achieve exact angles with a single pick point

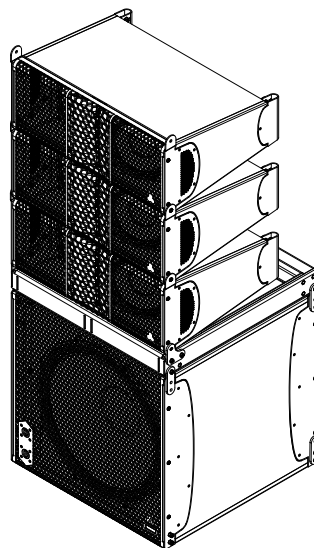
RIGGING EXAMPLES

LINE ARRAY



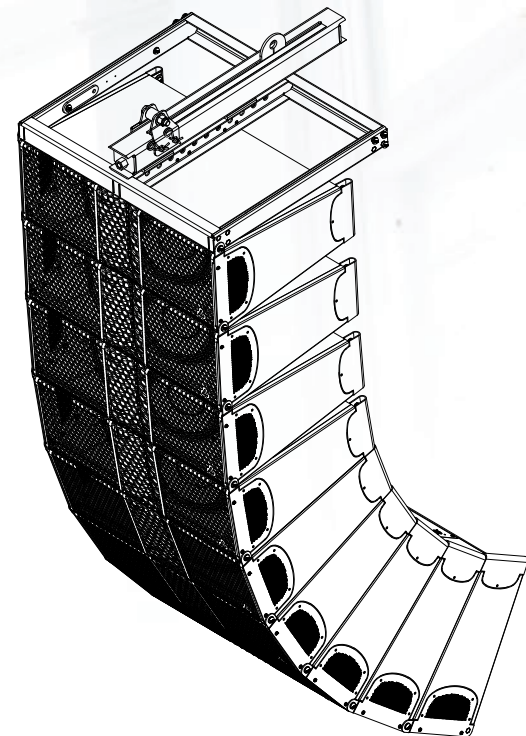
9x IS10 with IS10 & IS119
Support Frame and S-Series
Extended Beam

Use the S-Series Extended Beam
to increase the allowable rigging
angle



3x IS7 stacked on 1x IS118
using the IS7 & IS118 Support
Frame

The IS7 & IS118 Support Frame
ships with ground stack adaptors
included

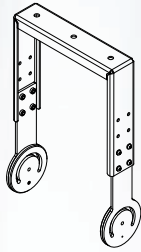


9x IS10 with IS10 & IS119
Support Frame and S-Series
Moving Point Extended Beam

Single point hangs can utilize the
S-Series Moving Point Extended
Beam to reach exact vertical angles

RIGGING ACCESSORIES

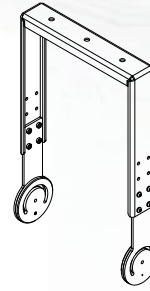
POINT SOURCE



IS7p Vertical Bracket



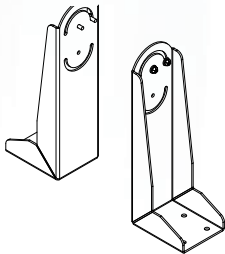
IS7p Horizontal Bracket



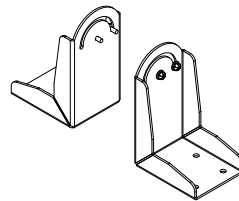
IS10p Vertical Bracket



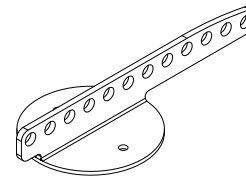
IS10p Horizontal Bracket



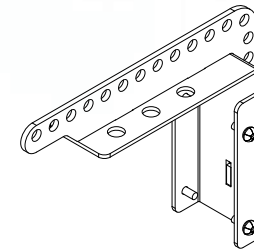
IS7p/IS10p Fill Plate



IS7p Short Fill Plate



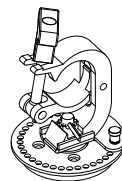
IS-Series Sight Mount



IS-Series Super Sight Mount



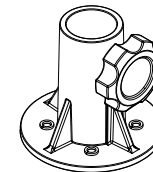
IS-Series Articulator



IS-Series Point
H-Clamp



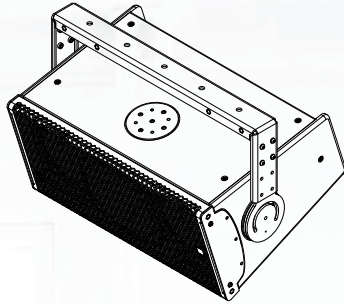
IS-Series Tilt Adapter



IS-Point Pole Mount
Adapter

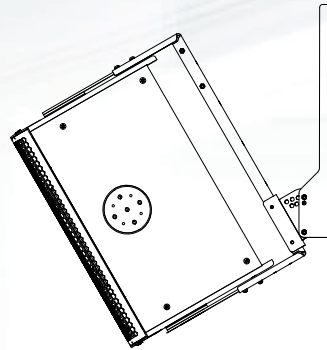
RIGGING EXAMPLES

POINT SOURCE



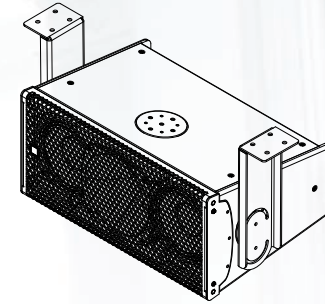
IS7p with IS7p Horizontal Bracket

When flown horizontally, the arms of the IS7p Horizontal Bracket can be shortened



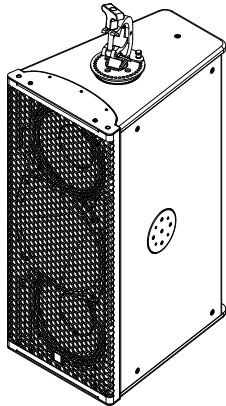
IS7p with IS7p Horizontal Bracket and IS-Series Tilt Adapter

The IS-Series Tilt Adapter pairs with all IS-Series Vertical or Horizontal brackets to add a third axis of rotation



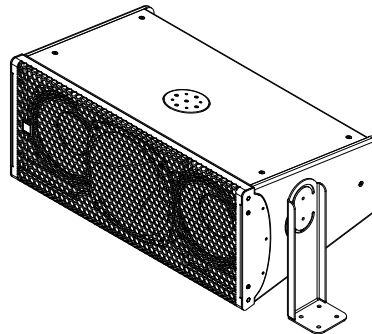
IS7p with IS7p/IS10p Fill Plates

The IS7p/IS10p Fill Plates allow the IS7p to be suspended or stacked in tight spaces and when brackets aren't needed



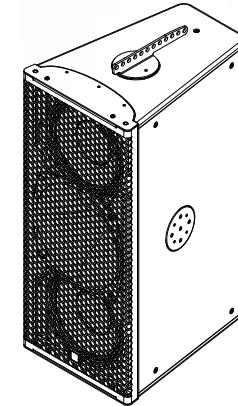
IS10p with IS-Series H-Clamp

The IS-Series H-Clamp attaches directly to the IS7p or IS10p and suspends the enclosures from a pipe with 360° of horizontal rotation in 10° increments



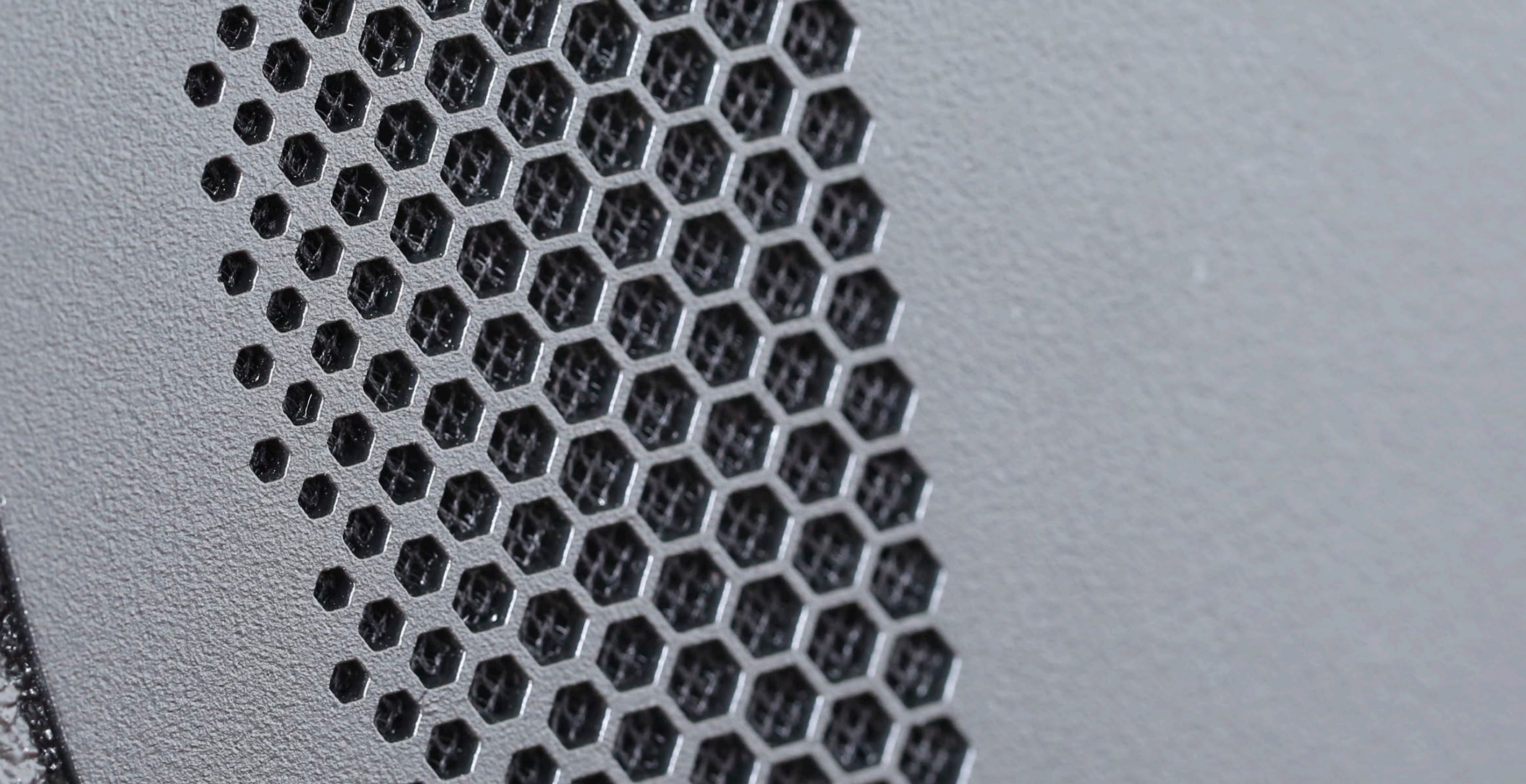
IS10p with IS7p/IS10p Fill Plates

The IS7p/IS10p Fill Plates allow the IS10p to be suspended or stacked in tight spaces and when brackets aren't needed



IS10p with IS-Series Sight Mount

The IS-Series Sight Mount allows for tilt in specific increments, depending on the enclosure used



WWW.ADAMSONSYSTEMS.COM
AMER: +1 905-982-0520
EMEA & APAC: +49 40 7699 9959 0