McCAULEY SOUND INC. | INSTALLATION CLASS PRODUCTS

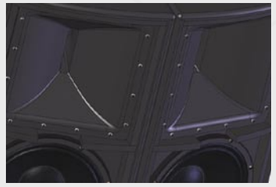
iDESIGN

- HIGH-OUTPUT MODULAR LOUDSPEAKER SYSTEMS FOR PERMANENT INSTALLATION
- OPTIONAL SELF-POWERED & PROCESSED

McCauley sound

SPECIFY SELF-POWERED, PASSIVELY FILTERED OR UNPROCESSED

INTEGRATED AMPLIFIER & DSP MODULES ARE OPTIONAL FOR EVERY iDESIGN CONFIGURATION



USER ROTATABLE WAVEGUIDES ARE OFFERED IN 60x40, 60x60, 90x60, 90x90 OR 120x60 PATTERNS

DEPLOY INDIVIDUALLY OR BUILD THE PERFECT ARRAY

EXTENSIVE RIGGING & MOUNTING SUPPORT BUILT-IN TO EVERY iDESIGN ENCLOSURE

what is iDESIGN?

A FAMILY OF MODULAR LOUDSPEAKERS FOR PERMANENT INSTALLATION

iDESIGN is a series of modular loudspeakers engineered exclusively for permanent installation.

A professional audio loudspeaker solution, iDESIGN offers the installer an easy to understand but vast selection of configurations and customizations. Choice is the cornerstone of the iDESIGN series; more options of how to mount, array and rig, and extensive choices of how to design coverage shape and overall system tonality.

Most significantly, the choice of integrated power and processing versus a traditional rack-mount solution is available for nearly every module in the series... deploy powered, unpowered, or a mix of both.

The optional iDESIGN integrated power and processing modules are based on ICEpower^{tm}, a proven energy-efficient, low-weight, high performance digital amplifier architecture.

Each iDESIGN power module also features an on-board DSP, programmed at the factory to optimize the system either for stand-alone operation or as a sub-component of a larger array. Every loudspeaker component benefits from a dedicated channel of the amplifier and a dedicated channel of signal processing.

All DSP voicings were personally developed by Tom McCauley. iDESIGN sounds like one unified system no matter how diverse or complex the installation.

Each 2-way module features an user-rotatable, beam-width optimized waveguide, which are offered in five nominal coverage patterns. The user-rotatable form factor allows installers to choose to orient modules as horizontal or vertical to accommodate the aesthetic and sonic needs of the physical space without sacrificing performance.

Beyond single iDESIGN modules, designers may choose to combine modules to form larger arrays; addressing the venue space with customized coverage built from any combination of the five available patterns. iDESIGN offers rotatable and arrayable waveguides in the 60°x40°, 60°x60°, 90°x60°, 90°x90° or 120°x60° nominal patterns.

While iDESIGN modules sound fantastic as stand-alone units, the entire line is designed to interoperate; iDESIGN modules are engineered to array seamlessly. Combining multiple modules to build ideal arrays is simple. Every iDESIGN module features steep trapezoidal angles to accommodate the widest range of array splays while a multitude of *ARRAY FRAMES* designed specifically are offered to support nearly any array combination.

In addition to the 2-way modules, a robust offering of complementary mid-low and subwoofer modules allows designers to augment the lower octaves. Customize iDESIGN for perfect impact, character and tonality of performance.

product **overview & definition**

modular **building blocks**

- Conceived as a family, one of iDESIGN's major strengths is it's modular approach. iDESIGN offers installers a sonic tool-box of dedicated 2-way, mid-low, and subwoofer loudspeaker modules to build from, all of which share common geometric definitions and a common mounting, rigging and array scheme. Sound designers can combine multiple modules to form 2-way, 3-way or 4-way systems.

  iDESIGN modules maintain a consistency in appearance and uniformity of sonic character across the entire series; providing installers the power and flexibility to specify systems to precisely match the venue's particular acoustic and aesthetic needs.

- iDESIGN HF modules are designed to array. Each offers designers a choice of a 60°x40°, 60°x60°, 90°x60°, 90°x90° or 120°x60° waveguide. The iDESIGN waveguides were developed as a family, engineered to maintain consistent directivity throughout the full spectrum of frequencies while compatibly interoperating with any other iDESIGN HF waveguide devices to form larger patterns.

  iDESIGN's interoperable and interchangeable waveguides offer sound designers the freedom to combine different patterns to form arrays and produce idealized coverage zones. Each individual waveguide is also user-rotatable; single modules may be oriented either horizontally or vertically.

- Deciding which modules to pair together is easy. iDESIGN modules are designated by an *ARRAY CLASS* prefix. This tells the designer which modules share common dimensions and matched tonality. Modules of the same *ARRAY CLASS* are sonically balanced to interoperate and are physically compatible; heights match, hole patterns and pick-points align, and tonality is engineered to be complementary.

  The ID1, ID2, ID3 & ID4 prefixes delineate each *ARRAY CLASS.* Each is progressively more powerful, scaling to meet the venue's needs for throw, punch and intensity. An additional prefix, (IDG) denotes complementary low frequency modules which are intended for installation on the "ground".

- Beyond array-building within any one *ARRAY CLASS*, iDESIGN modules of every class are voiced to be sonically similar. This allows installers to specify modules of any size, maintaining a clean, consistent aesthetic and matching acoustical characteristics throughout the installation. iDESIGN offers sound designers broad flexibility to realize the ideal acoustic solution for thier intended application.

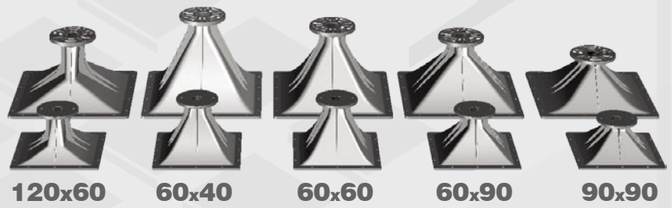
  Whether installed as individual modules, array groups, or as a combination of both, iDESIGN consistently delivers McCauley Sound's signature clarity, precision and punch thoughout the venue, and always presents the look, sound and feel of a polished, unified and integrated system.

COMBINE MODULES TO ACHIEVE IDEAL COVERAGE, INTENSITY AND FREQUENCY EMPHASIS

For example, a pair of ID2.208-96 3-way modules are arrayed with a single 1D2.115-LF to form a 180° wide 4-way full range system.

Precision ARRAY FRAMES secure the cluster for rigging.

SELECT WAVEGUIDE BY COVERAGE PATTERN
COMBINE PATTERNS TO FORM WIDER DISPERSION



COMBINE MULTIPLE SYSTEMS INTO ARRAYS BY SELECTING MODULES FROM A SINGLE ARRAY CLASS

power & **processing** options

- Choice is more than shapes, sounds and sizes. iDESIGN allows you to make your own decisions about system convergence and signal chain topology, specifically amplification and processing.

  Nearly all iDESIGN loudspeaker modules are *optionally* available with an integrated power amplifier and digital signal processor solution. These optimized amplifier systems fit entirely inside the loudspeaker enclosure and are configured to precisely power and process the system.

  Each individual speaker component of an iDESIGN loudspeaker module is supported by a dedicated channel of amplification and processing.

- The iDESIGN integrated power and processing systems are built on the proven ICEpower^{tm} light-weight digital amplifier architecture. ICEpower^{tm} is a mature platform with a proven history of performance and durability, rivaling the best Class A/B amplifiers.

  ICEpower^{tm} offers superior audio quality compared to conventional technologies, employing *Balanced Phase Shifted Carrier Pulse Width Modulation* to create linear response. Due to the system's cool operation, engineered tolerance for power fluctuation, and rugged mechanical design, installers can expect long-term continuous performance and stable protection even under adverse conditions such as high-heat environments and power irregularities.

- Signal conditioning is provided by twin on-board digital signal processors. This parrallel processing solution preserves high-quality audio by employing 24-bit / 96kHz sampling. McCauley Sound's engineering group utilizes a full featured set of processing tools, including EQ, crossover, limiting, delay, volume control & polarity inversion to optimize individual component performance.

  This internal processing solution provides up to three discrete outputs of signal, accommodating 2-way, 3-way and mono configurations. Additional loudspeaker protection circuitry is present in each module which prevents further system damage in the event of a driver failure or short-circuit.

- Processing isn't just about a single setting for each loudspeaker module. While every iDESIGN DSP is factory-programmed for stand-alone operation; a robust library of alternate presets has also been developed to optimize a module's performance when they are arrayed or otherwise combined with other iDESIGN loudspeakers.

  These additional settings are loaded to order from the factory; each carefully tailored to optimize the performance of a system where multiple modules are being deployed together. Every DSP setting in this library was personally voiced by Tom McCauley to ensure a rich, musical tonality and superior vocal intelligibility across the entire iDESIGN family.

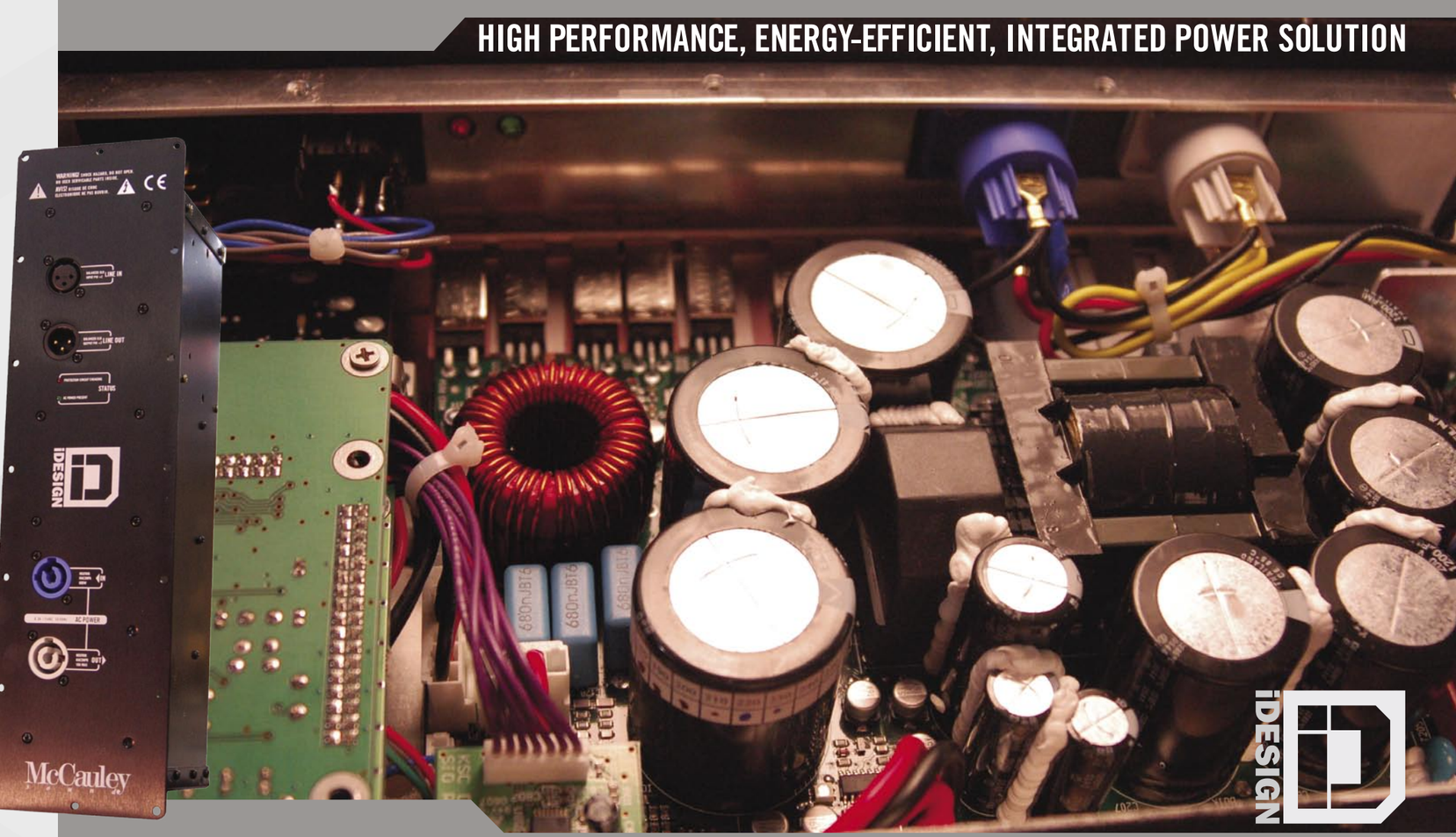
- **INTEGRATED POWER & PROCESSING IS OPTIONAL FOR MOST iDESIGN MODULES**

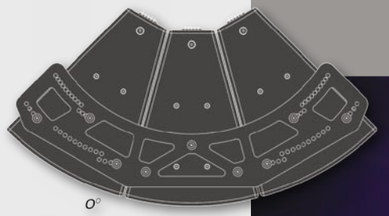
- **ROBUST LIBRARY OF DSP SETTINGS DEVELOPED FOR EVERY APPLICATION**

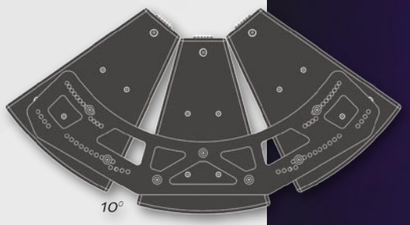
- **PROVEN LIGHT-WEIGHT, LOW-HEAT DIGITAL AMPLIFIER ARCHITECTURE**

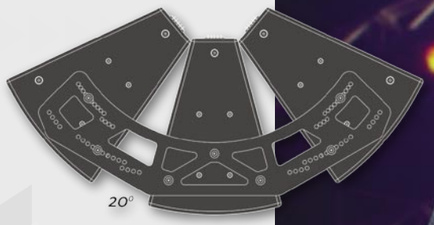
- **DISCRETE CHANNELS, EACH COMPONENT INDIVIDUALLY POWERED & PROCESSED**

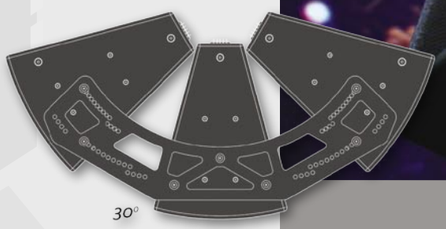
- **PERFORMANCE RIVALS BEST CLASS A/B DESIGNS**

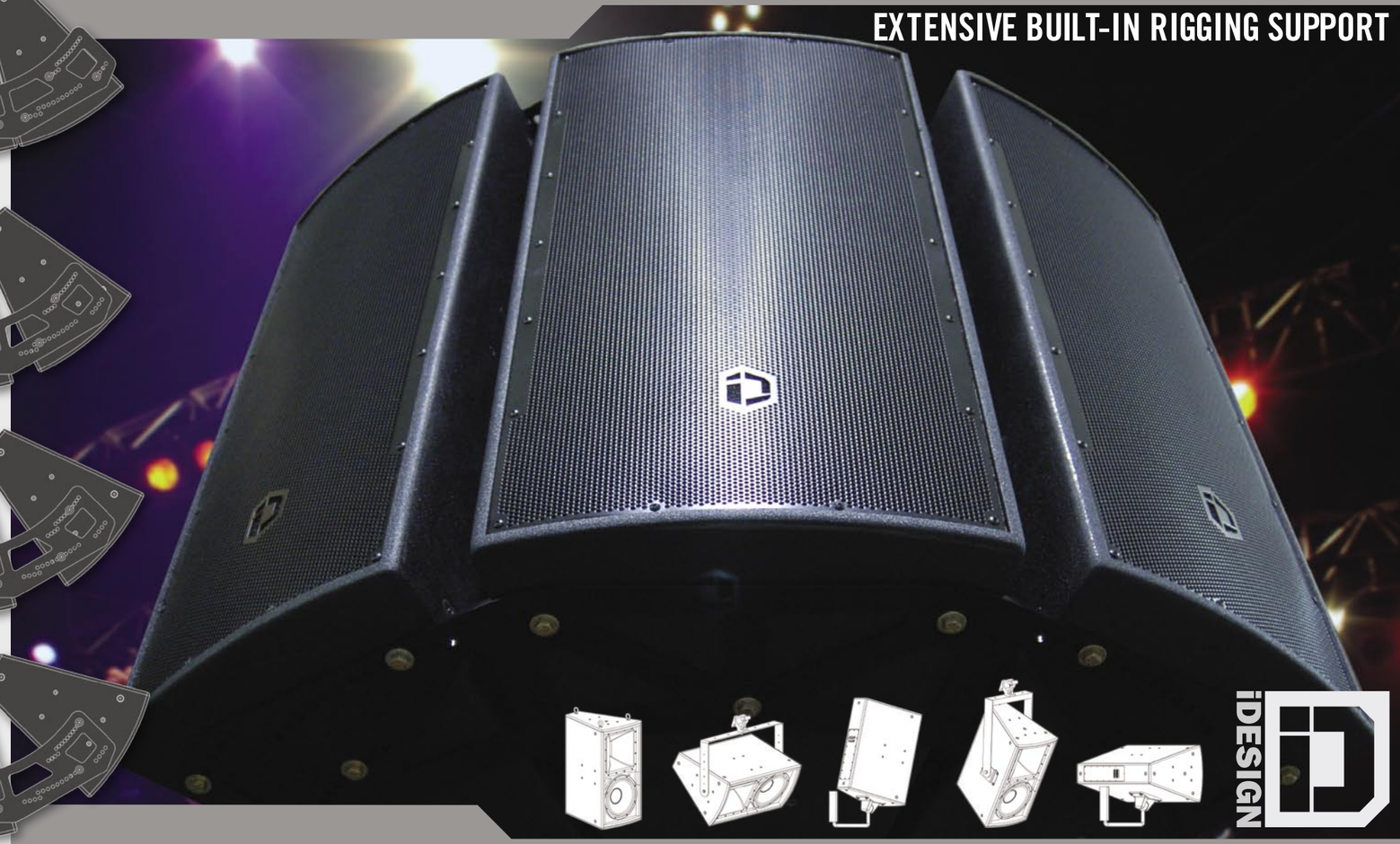












EXTENSIVE BUILT-IN RIGGING SUPPORT

- Difficult architectural features and awkward venue geometry is easy to overcome when choosing to install iDESIGN series enclosures. With the exception of the ground-stack subwoofer units (***IDG***), all iDESIGN series modules feature an incredible range of built-in support options for rigging and mounting individual units as well as arrays composed of multiple enclosures.

  Installers can have confidence that no matter what the unique requirements of the installation may be, iDESIGN modules are engineered to deploy quickly, safely and simply. Versatile hardware options allow iDESIGN to complement rather than compromise the aesthetic balance of any interior design.

- Every iDESIGN module features eighteen 3/8th threaded pick points for creating cable hangs, facilitating virtually any rigging configuration.

- For circumstances where multiple iDESIGN modules are to be deployed as a single array, specialized *ARRAY FRAMES* are available to accommodate nearly any configuration. iDESIGN *ARRAY FRAMES* are engineered specifically to interconnect, secure and suspend clusters of iDESIGN modules, supporting splay angles between enclosures from a 0° tight-pack to +/- 45°. Considered as a component of the interoperating acoustic performance engineered into the series, iDESIGN's *ARRAY FRAMES* create reliable rigging support for any coverage configuration specified.

- iDESIGN features robust support for Omni-Mount™ compatible hardware. These industry-standard ball-lock mounting systems allow installers to place wall-mount plates during pre-wire, then later attach the loudspeaker once construction permits. Once readied, these rotating mounts allow a for wide range of angles to be set and secured.

  Every iDESIGN module is tapped to accept this four-point mounting pattern on the top, the bottom, and both sides of the enclosure. Having insertion points on four sides allows the installer to mount single iDESIGN modules in either the horizontal or the vertical, even mirroring waveguide and driver orientations where needed.

- iDESIGN offers 2 different U-bracket choices for each enclosure, specifically engineered to support the weight of each module under a variety of loading conditions.

  The horizontal U-bracket attaches to the top and bottom of the loudspeaker, and allows for wall-mounting of iDESIGN modules either horizontally or vertically, as well as accommodating an under-balcony style, horizontal mounting from a ceiling or beam.

- The vertical U-Bracket attaches to the module's trapezoidal sides; this hardware is best suited to applications where the module needs to stay up-right while being tilted forward, yet still be secured directly to a wall, ceiling, beam or truss.

rigging, **mounting & array** support

versatility & **applications**

- Modular by design; the iDESIGN series will scale to meet the needs of most permanent installation applications, both large and small.

  iDESIGN's wide selection of form-factors and precisely tuned voicings make the series ideal as the primary sound reinforcement for small to medium size venues including houses of worship, auditoriums, theaters, night clubs and other similar scale high-output applications.

  Additionally, the iDESIGN series serves as a superior solution for building distributed systems, appropriate for many larger applications such as stadiums, arenas, and other major venues.

- Houses of worship benefit from iDESIGN's focus on arrayability and consistency. Arrays can be created to precisely match coverage to sanctuary seating no matter how wide or deep. Every horn design was engineered to deliver total consistency throughout the full spectrum of frequencies while special attention was paid to optimizing vocal intelligibility; worshippers will feel closer to the message when they can hear every word and experience every moment of the choir, band or orchestra's presentation.

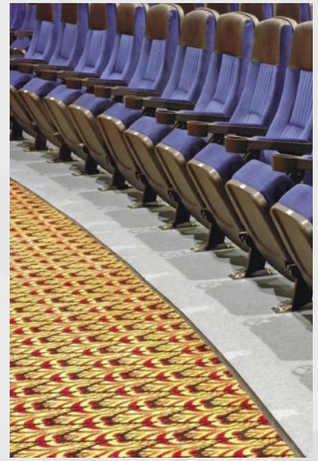
- For areas like a balcony, individual iDESIGN modules can be used independently to augment areas otherwise occluded from the primary system sound system by architectural features.

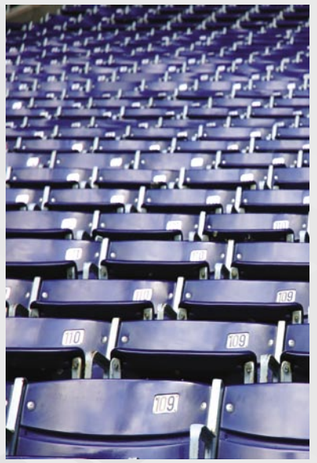
- Live music clubs, dance clubs and discotheques will benefit from the over-built and powerful performance characteristics of iDESIGN loudspeakers, as well as the nearly unlimited wealth of rigging and mounting options.

  Thunderous super-subwoofers enhance dedicated high frequency, mid range and low frequency modules; iDESIGN systems can be built to accommodate a broad range of musical genres or taken further to specifically reinforce a particular sound. Dialing in the perfect intensity and tonality is easy. Considering the complementary and interoperating nature of iDESIGN's many modules and the many ways to integrate the loudspeakers into the club's decor, specifing iDESIGN is a pleasure rather than a chore.

- Restaurants and bars, where music is an important part of the atmosphere, will appreciate how the ultra-compact ID1 class can be employed to form a high-fidelity distributed system which scales to both background and foreground playback.

  Venues and performances are as varied as the audiences who fill their seats, stands and dance floors. All are demanding, but iDESIGN meets this challenge by offering designers the most flexibility to build coverage patterns, specify frequency emphasis and match interior aesthetics.





- **HOUSES OF WORSHIP**
- **LIVE MUSIC**
- **AUDITORIUMS**
- **RESTAURANTS**
- **STADIUMS**
- **ARENAS**
- **LIVE THEATER**
- **DISCOTHEQUES**

	ID1.108-xx	ID1.208-ML	ID1.112-SB
	 *Variations:* *ID1.108-64* *ID1.108-66* *ID1.108-96* *ID1.108-99* *ID1.108-26*		
system type	2-way / full-range	2-way / processor dependent	subwoofer
waveguides offered	60°x40°, 60°x60°, 60°x90°, 90°x90°, 120°x60°		
frequency response			
-10dB	55Hz - 20kHZ	60Hz - 5.5 kHZ	35Hz - 1.5 kHZ
+/- 3dB	60Hz - 18kHz	processor dependent	50Hz - 800HZ
sensitivity (dB 2.83V 1 meter)			
LF	96dB	96dB *(per driver)*	95dB
HF	109dB	n/a	n/a
passive	96dB	96dB	95dB
maximum SPL (continuous / peak)			
LF	121dB / 127dB	127dB / 133dB *(per driver)*	124dB / 130dB
HF	129dB / 135dB	na / na	na / na
passive	121dB / 127dB	na / na	na / na
minimum highpass filter	1800Hz (24dB per octave)	application dependent	na
power ratings			
LF - RMS	200w @ 8Ω	200w @ 8Ω *(per driver)*	400w @ 8Ω
HF - RMS	50w @ 16Ω	na	na
passive - RMS	200w @ 8Ω	na	na
LF - AES	300w @ 8Ω	300w @ 8Ω *(per driver)*	800w @ 8Ω
HF - AES	100w @ 16Ω	na	na
passive - AES	300w @ 8Ω	na	na
weight	31lbs / 14kgs	34 lbs / 15.4 kgs	53 lbs / 24 kgs
dimensions			
inches	19.1 H x 10.9 W x 11.5 D x 5.3 T	19.1 H x 10.9 W x 11.5 D x 5.3 T	19.1 H x 15.1 W x 19.9 D x 5.1 T
centimeters	48.5 H x 27.6 W x 29.2 D x 13.4 T	48.5 H x 27.6 W x 29.2 D x 13.4 T	48.5 H x 38.3 W x 50.5 D x 12 T
finish	ProCoat™ Weatherproof	ProCoat™ Weatherproof	ProCoat™ Weatherproof
enclosure material	5/8" 12-ply	5/8" 12-ply	5/8" 12-ply
suspension	(12) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap	(12) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap	(12) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap
connectors	Barrier terminal strip (XLR when self-powered)	Barrier terminal strip	Barrier terminal strip (XLR when self-powered)
transducers	(1) 8.8" LF Transducer (1) 2" Diaphragm HF Driver	(2) 8.8" LF Transducer (individually chambered)	(1) 12" LF Transducer
compatible iDESIGN amplifier (with onboard DSP)	IDP.500-2W	IDP.500-2W	IDP.1000-1W
compatible array frames (for building clusters)	IDB.88-AF, IDB.828-AF, IDB.888-AF	IDB.88-AF, IDB.888-AF, IDB.828-AF	IDB.22-AF, IDB.222-AF, IDB.252-AF, IDB.828-AF
compatible U-brackets (for deploying individually)	IDB.108-HU, IDB.108-VU	IDB.108-HU, IDB.208-VU	IDB.112-HU, IDB.112-VU

- High frequency waveguides employ beamwidth-constant dispersion designs sourced from Tom McCauley's 25 years of research into high frequency propagation, diffraction and decay. No one else in the industry can match McCauley Sound's status as a R&D leader.

  iDESIGN waveguides were created from the ground up to deliver total consistency throughout the full spectrum of frequencies; while special attention was paid to optimizing vocal intelligibility.

  Every waveguide was conceived from a proprietary mathematical model and then rigorously evaluated under a number of criteria. Extensive sets of data were collected in-house; results were then analyzed and validated by outside laboratories, verifying our design goals for clarity, coverage and intensity.

CONSISTENT SONIC CHARACTER

EVERY iDESIGN MODULE WAS PERSONALLY VOICED BY TOM McCAULEY TO BE ACOUSTICALLY COMPLEMENTARY ACROSS THE ENTIRE SERIES

ID2

ID2.208-xx

Variations:
ID2.208-64
ID2.208-66
ID2.208-96
ID2.208-99
ID2.208-26

ID2.112-xx

Variations:
ID2.112-64
ID2.112-66
ID2.112-96
ID2.112-99
ID2.112-26

ID2.308-ML

	ID2.208-xx	ID2.112-xx	ID2.308-ML
system type	3-way / full range	2-way / full range	processor dependent
waveguides offered	60°x40°, 60°x60°, 60°x90°, 90°x90°, 120°x60°	60°x40°, 60°x60°, 60°x90°, 90°x90°, 120°x60°	
frequency response			
-10dB	50Hz - 20kHZ	47Hz - 20kHZ	60Hz - 5.5 kHZ
+/- 3dB	55Hz-18kHz	50Hz-18kHz	processor dependent
sensitivity (dB 2.83V 1 meter)			
LF	99dB	97dB	96dB *(per driver)*
HF	109dB	110dB	na
passive	99dB	97dB	96dB
maximum SPL (continuous / peak)			
LF	127dB / 133dB	125dB / 131dB	130 dB / 131dB *(per driver)*
HF	129dB / 135dB	132dB / 138dB	na / na
passive	127dB / 133dB	125dB / 131dB	na / na
minimum highpass filter	1800Hz (24dB per octave)	1100Hz (24dB per octave)	application dependent
power ratings			
LF - RMS	200w @ 8Ω *(per driver)*	350w @ 8Ω	200w @ 8Ω *(per driver)*
HF - RMS	50w @ 16Ω	75w @ 16Ω	na
passive - RMS	400w @ 8Ω	350w @ 8Ω	na
LF - AES	300w @ 8Ω *(per driver)*	600w @ 8Ω	300w @ 8Ω *(per driver)*
HF - AES	100w @ 16Ω	150w @ 16Ω	na
passive - AES	600w @ 8Ω	600w @ 8Ω	na
weight	45lbs / 20.4 kgs	71lbs / 32kgs	49 lbs / 22.2 kgs
dimensions			
inches	27.5 H x 10.9 W x 11.5 D x 5.3 T	27.5 H x 15.1 W x 19.9 D x 5.1 T	27.5 H x 10.9 W x 11.5 D x 5.3 T
centimeters	69.8 H x 27.6 W x 29.2 D x 13.4 T	69.9 H x 38.3 W x 50.5 D x 12.9 T	69.7 H x 27.6 W x 29.2 D x 13.4 T
finish	ProCoat™ Weatherproof	ProCoat™ Weatherproof	ProCoat™ Weatherproof
enclosure material	5/8" 12-ply	5/8" 12-ply	5/8" 12-ply
suspension	(14) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap	(14) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap	(14) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap
connectors	Barrier terminal strip (XLR when self-powered)	Barrier terminal strip (XLR when self-powered)	Barrier terminal strip
transducers	(2) 8.8" LF Transducer (1) 2" Diaphragm HF Driver	(1) 12" LF Transducer (1) 3" Diaphragm HF Driver	(3) 8.8" LF Transducers (individually chambered)
compatible iDESIGN amplifier (with onboard DSP)	IDP.1250-3C	IDP.1500-2C	na
compatible array frames (for building clusters)	IDB.88-AF, IDB.888-AF, IDB.828-AF, IDB.858-AF	IDB.22-AF, IDB.222-AF, IDB.252-AF, IDB.828-AF	IDB.88-AF, IDB.888-AF, IDB.828-AF, IDB.858-AF
compatible U-brackets (for deploying individually)	IDB.112-HU, IDB.208-VU	IDB.112-HU, IDB.112-VU	IDB.112-HU, IDB.208-VU

ID2

ID2.112-SB

ID2.212-LF

ID2.115-SB

	ID2.112-SB	ID2.212-LF	ID2.115-SB
system type	subwoofer	processor dependent	subwoofer
waveguides offered			
frequency response			
-10dB	35Hz - 1.5 kHZ	50Hz - 3 kHZ	30Hz - 1 kHZ
+/- 3dB	45Hz - 800HZ	processor dependent	40Hz - 750HZ
sensitivity (dB 2.83V 1 meter)			
LF	95dB	97dB	96dB
HF	n/a	n/a	n/a
passive	95dB	97dB	95dB
maximum SPL (continuous / peak)			
LF	124dB / 130dB	131dB / 137dB *(per driver)*	126dB / 132dB
HF	na / na	na / na	na / na
passive	na / na	na / na	na / na
minimum highpass filter	na	application dependent	na
power ratings			
LF - RMS	450w @ 8Ω	350w @ 8Ω *(per driver)*	550w @ 8Ω
HF - RMS	na	na	na
passive - RMS	na	na	na
LF - AES	800w @ 8Ω	600w @ 8Ω *(per driver)*	1000w @ 8Ω
HF - AES	na	na	na
passive - AES	na	na	na
weight	53 lbs / 24 kgs	85 lbs / 39 kgs	74 lbs / 34 kgs
dimensions			
inches	27.5 H x 15.1 W x 19.9 D x 5.6 T	27.5 H x 15.1 W x 19.9 D x 5.6 T	27.5 H x 18.5 W x 23.1 D x 7 T
centimeters	69.9 H x 38.4 W x 50.5 D x 14.2 T	69.9 H x 38.4 W x 50.5 D x 14.2 T	69.9 H x 47 W x 58.7 D x 17.8 T
finish	ProCoat™ Weatherproof	ProCoat™ Weatherproof	ProCoat™ Weatherproof
enclosure material	5/8" 12-ply	5/8" 12-ply	5/8" 12-ply
suspension	(14) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap	(14) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap	(14) 3/8" reinforced pick points (4) Omni-Mount™ compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap
connectors	Barrier terminal strip (XLR when self-powered)	Barrier terminal strip	Barrier terminal strip (XLR when self-powered)
transducers	(1) 12" LF Transducer	(2) 12" LF Transducer (individually chambered)	(1) 15" LF Transducer
compatible iDESIGN amplifier (with onboard DSP)	IDP.1000-1C	na	IDP.1000-1C
compatible array frames (for building clusters)	IDB.22-AF, IDB.222-AF, IDB.252-AF, IDB.828-AF	IDB.22-AF, IDB.222-AF, IDB.252-AF, IDB.828-AF	IDB.55-AF, IDB.555-AF, IDB.252-AF
compatible U-brackets (for deploying individually)	IDB.112-Hu, IDB.112-VU	IDB.112-HU, IDB.112-VU	IDB.112-HU, IDB.115-VU

iDESIGN is CHOICE.

iDESIGN provides professional quality audio reproduction while offering the installer an unprecedented number of choices, configurations and customizations... yet is amazingly simple and easy to specify, configure, deploy and maintain.

ID3

ID3.115-xx

Variations:
ID3.115-64
ID3.115-66
ID3.115-96
ID3.115-99
ID3.115-26

system type	**2-way / full range**
waveguides offered	**60°x40°, 60°x60°, 60°x90°, 90°x90°, 120°x60°**
frequency response	
-10dB	**43Hz - 20kHZ**
+/- 3dB	**45Hz-18kHz**
sensitivity (dB 2.83V 1 meter)	
LF	**98dB**
HF	**110dB**
passive	**98dB**
maximum SPL (continuous / peak)	
LF	**127dB / 133dB**
HF	**132dB / 138dB**
passive	**127dB / 133dB**
minimum highpass filter	**1100Hz** (24dB per octave)
power ratings	
LF - RMS	**450w @ 8Ω**
HF - RMS	**75w @ 16Ω**
passive - RMS	**450w @ 8Ω**
LF - AES	**800w @ 8Ω**
HF - AES	**150w @ 16Ω**
passive - AES	**800w @ 8Ω**
weight	**75lbs / 34 kgs**
dimensions	
inches	**30.2 H x 18.5 W x 23.1 D x 7 T**
centimeters	**76.7 H x 47 W x 58.7 D x 17.8 T**
finish	**ProCoat^{tm} Weatherproof**
enclosure material	**5/8" 12-ply**
suspension	**(14) 3/8" reinforced pick points (4) Omni-Mount^{tm} compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap**
connectors	**Barrier terminal strip** (XLR when self-powered)
transducers	**(1) 15" LF Transducer (1) 3" Diaphragm HF Driver**
compatible iDESIGN amplifier (with onboard DSP)	**IDP.1500-2C**
compatible array frames (for building clusters)	**IDB.55-AF, IDB.555-AF, IDB.252-AF**
compatible U-brackets (for deploying individually)	**IDB.115-HU, IDB.115-VU**

ID4

ID4.212-xx

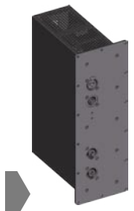
Variations:
ID4.212-64
ID4.212-66
ID4.212-96
ID4.212-99
ID4.212-26

ID4.312-LF

ID4.215-SB

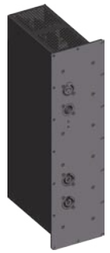
system type	**3-way / full range**	**processor dependent**	**subwoofer**
waveguides offered	**60°x40°, 60°x60°, 60°x90°, 90°x90°, 120°x60°**		
frequency response			
-10dB	**45Hz - 20kHZ**	**50Hz - 3 kHZ**	**28Hz - 1 kHZ**
+/- 3dB	**50Hz-18kHz**	**processor dependent**	**40Hz - 700HZ**
sensitivity (dB 2.83V 1 meter)			
LF	**100dB** *(per driver)*	**99dB** *(per driver)*	**99dB**
HF	**110dB**	**n/a**	**n/a**
passive	**100dB**	**98dB**	**99dB**
maximum SPL (continuous / peak)			
LF	**131dB / 137dB** *(per driver)*	**132dB / 138dB** *(per driver)*	**132dB / 138dB** *(per driver)*
HF	**132dB / 138dB**	**na / na**	**na / na**
passive	**131dB / 137dB**	**na / na**	**na / na**
minimum highpass filter	**1100Hz** (24dB per octave)	**application dependent** (24dB per octave)	**na**
power ratings			
LF - RMS	**350w @ 8Ω** *(per driver)*	**350w @ 8Ω** *(per driver)*	**550w @ 8Ω** *(per driver)*
HF - RMS	**75w @ 16Ω**	**na**	**na**
passive - RMS	**700w @ 8Ω**	**na**	**na**
LF - AES	**600w @ 8Ω** *(per driver)*	**600w @ 8Ω** *(per driver)*	**1000w @ 8Ω** *(per driver)*
HF - AES	**150w @ 16Ω**	**na**	**na**
passive - AES	**1200w @ 8Ω**	**na**	**na**
weight	**106lbs / 48 kgs**	**115 lbs / 52.2 kgs**	**111 lbs / 50.3 kgs**
dimensions			
inches	**40 H x 15.1 W x 19.9 D x 5.1 T**	**40 H x 15.1 W x 19.9 D x 5.1 T**	**40 H x 18.5 W x 23.1 D x 7 T**
centimeters	**101.6 H x 38.3 W x 149 D x 13 T**	**101.6 H x 38.4 W x 50.5 D x 13 T**	**101.6 H x 47 W x 58.7 D x 17.8 T**
finish	**ProCoat^{tm} Weatherproof**	**ProCoat^{tm} Weatherproof**	**ProCoat^{tm} Weatherproof**
enclosure material	**5/8" 12-ply**	**5/8" 12-ply**	**5/8" 12-ply**
suspension	**(14) 3/8" reinforced pick points (4) Omni-Mount^{tm} compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap**	**(14) 3/8" reinforced pick points (4) Omni-Mount^{tm} compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap**	**(14) 3/8" reinforced pick points (4) Omni-Mount^{tm} compatible taps (1) Horizontal U-Bracket tap (1) Vertical U-Bracket tap**
connectors	**Barrier terminal strip** (XLR when self-powered)	**Barrier terminal strip**	**Barrier terminal strip** (XLR when self-powered)
transducers	**(2) 12" LF Transducer (1) 3" Diaphragm HF Driver**	**(3) 12" LF Transducer,** (individually chambered)	**(2) 15" LF Transducer**
compatible iDESIGN amplifier (with onboard DSP)	**IDP.2500-3C**	**n/a**	**IDP.2000-2C**
compatible array frames (for building clusters)	**IDB.22-AF, IDB.222-AF, IDB.252-AF**	**IDB.22-AF, IDB.222-AF, IDB.252-AF**	**IDB.55-AF, IDB.555-AF, IDB.252-AF**
compatible U-brackets (for deploying individually)	**IDB.212-HU, IDB.212-VU**	**IDB.212-HU, IDB.212-VU**	**IDB.212-HU**

IDP



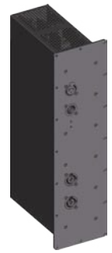
IDP.500-2C

system type	**2-channel digital amplifier**
power ratings	
CHANNEL 1	**250w**
CHANNEL 2	**250w**
CHANNEL 3	**na**
weight	**5lbs /2.2kgs**
connectors	
POWER IN	**Neutrik NAC3MPA**
POWER THRU	**Neutrik NAC3MPB**
LINE IN	**Balanced XLR**
LINE OUT	**Balanced XLR**
compatible with	**ID1.108-xx, ID1.208-ML**



IDP.1250-3C

system type	**3-channel digital amplifier**
power ratings	
CHANNEL 1	**500w**
CHANNEL 2	**500w**
CHANNEL 3	**250w**
weight	**7.3lbs /3.3kgs**
connectors	
POWER IN	**Neutrik NAC3MPA**
POWER THRU	**Neutrik NAC3MPB**
LINE IN	**Balanced XLR**
LINE OUT	**Balanced XLR**
compatible with	**ID2.208-xx**



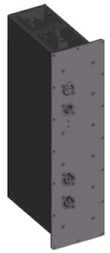
IDP.1000-1C

system type	**1-channel digital amplifier**
power ratings	
CHANNEL 1	**1000w**
CHANNEL 2	**na**
CHANNEL 3	**na**
weight	**7lbs /3.1kgs**
connectors	
POWER IN	**Neutrik NAC3MPA**
POWER THRU	**Neutrik NAC3MPB**
LINE IN	**Balanced XLR**
LINE OUT	**Balanced XLR**
compatible with	**ID1.112-SB, ID2.112-SB, ID2.115-SB**

IDP

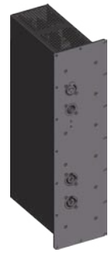
IDP.1500-2C

system type	**2-channel digital amplifier**
power ratings	
CHANNEL 1	**1000w**
CHANNEL 2	**500w**
CHANNEL 3	**na**
weight	**7.5lbs /3.4kgs**
connectors	
POWER IN	**Neutrik NAC3MPA**
POWER THRU	**Neutrik NAC3MPB**
LINE IN	**Balanced XLR**
LINE OUT	**Balanced XLR**
compatible with	**ID2.112-xx, ID3.115-xx**



IDP.2500-3C

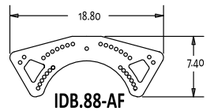
system type	**3-channel digital amplifier**
power ratings	
CHANNEL 1	**1000w**
CHANNEL 2	**1000w**
CHANNEL 3	**500w**
weight	**8.2lbs /3.7kgs**
connectors	
POWER IN	**Neutrik NAC3MPA**
POWER THRU	**Neutrik NAC3MPB**
LINE IN	**Balanced XLR**
LINE OUT	**Balanced XLR**
compatible with	**ID4.212-xx**



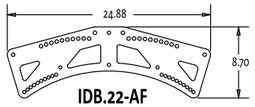
IDP.2000-2C

system type	**2-channel digital amplifier**
power ratings	
CHANNEL 1	**1000w**
CHANNEL 2	**1000w**
CHANNEL 3	**na**
weight	**7.7lbs /3.5kgs**
connectors	
POWER IN	**Neutrik NAC3MPA**
POWER THRU	**Neutrik NAC3MPB**
LINE IN	**Balanced XLR**
LINE OUT	**Balanced XLR**
compatible with	**ID4.215-SB**

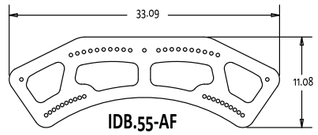
ARRAY FRAMES



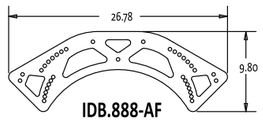
IDB.88-AF



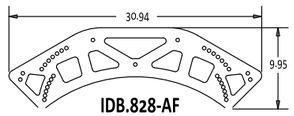
IDB.22-AF



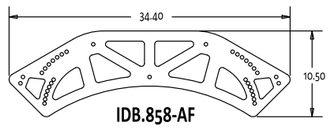
IDB.55-AF



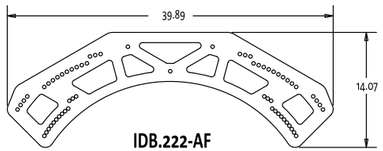
IDB.888-AF



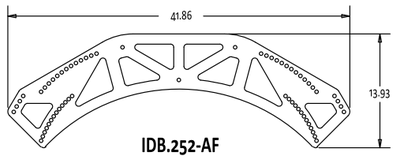
IDB.828-AF



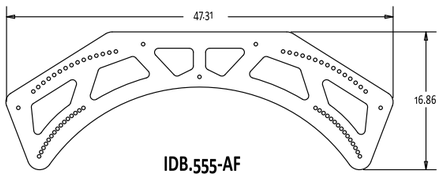
IDB.858-AF



IDB.222-AF



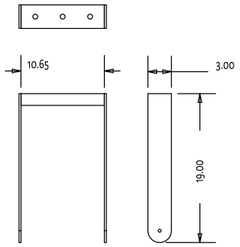
IDB.252-AF



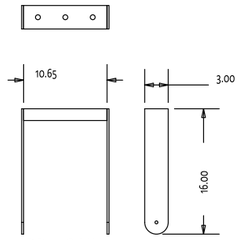
IDB.555-AF

VERTICAL ORIENTATION U-BRACKETS

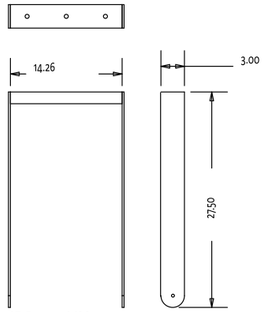
Brackets in this class attach to the sidewalls of the module.



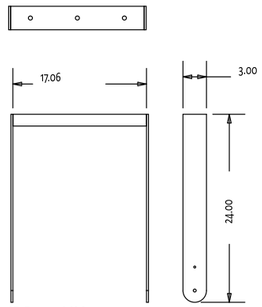
IDB.208-VU



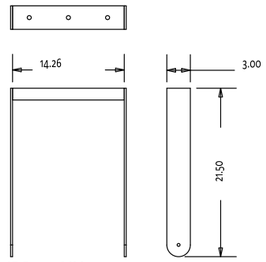
IDB.108-VU



IDB.212-VU



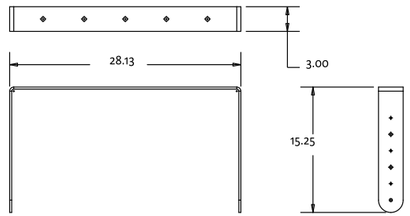
IDB.115-VU



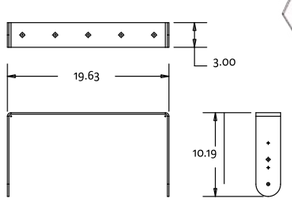
IDB.112-VU

HORIZONTAL ORIENTATION U-BRACKETS

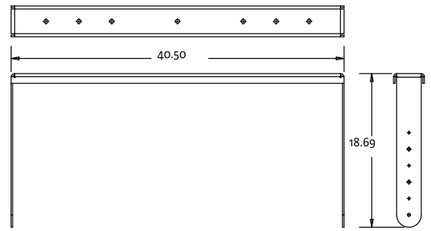
Brackets in this class attach to the top and bottom of a module.



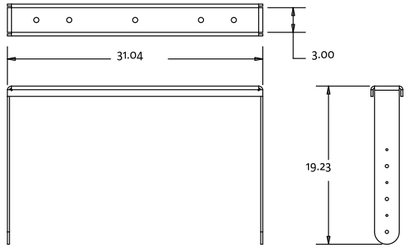
IDB.112-HU



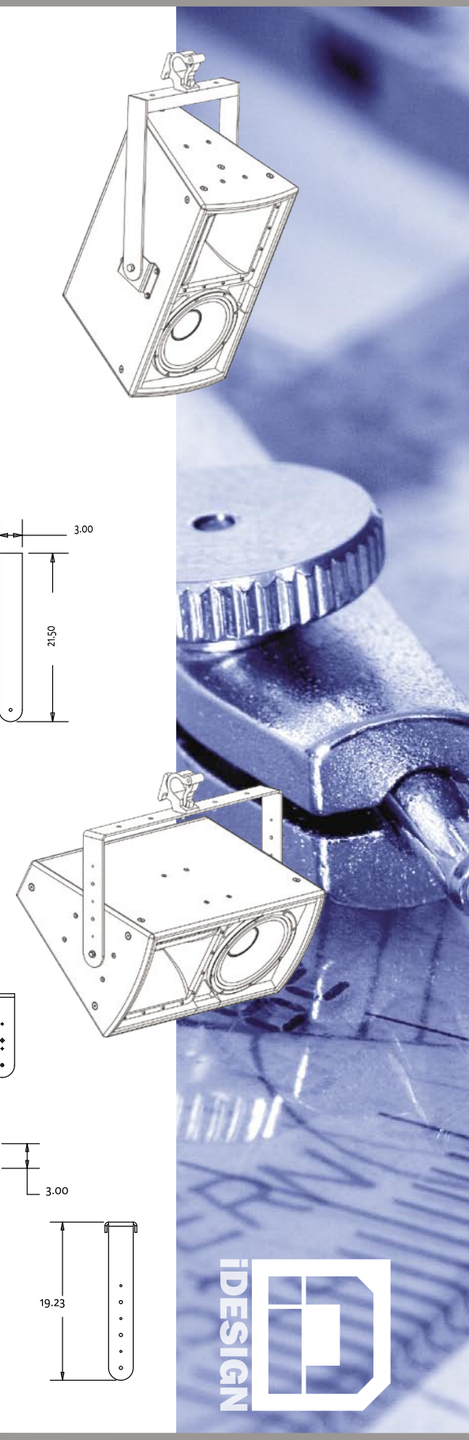
IDB.108-HU



IDB.212-HU



IDB.115-HU



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