

# IC 32 & IC 34

Best speech intelligibility through strong directivity

Extremely compact, surprisingly powerful

Pleasant, transparent sound even over long distances

Modular system for different structural and acoustic requirements

Tailor-made subwoofer for balanced music playback

Discreet, timeless design



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I-Line brochure v. 2021/04  
Design by pixelmaedchen.de | Renderings by www.redemann-media.de | Photos by www.annikaleuss.com  
All product specifications in this document are subject to change without notice.



## I-LINE FIXED INSTALLATIONS – CLEAR AND DISTINCT

www.se-audiotechnik.de

## I-LINE VERSATILE, COMPACT AND FOCUSED

For your message to reach your conversation partner and for it to be as clear and comprehensible as possible, you would ideally address them directly. The I-Line works on the same principle.

The design of the loudspeakers, which is aimed at maximum speech intelligibility, enables a strong directional effect. Wide horizontal dispersion angles cover a wide area, while slim vertical dispersion angles efficiently avoid unwanted reflections from the floor and ceiling. The overall sound experience is balanced and pleasant, while speech intelligibility is optimally guaranteed even under complex acoustic conditions.

Three individually designed column speakers with 2, 4 or 8 drivers and a specially tuned subwoofer are complemented by two powerful, tailor-made amplifiers with a DSP processor and corresponding accessories for maximum mounting flexibility. Depending on the size and configuration of the room, the flexible, modular system offers an optimum combination of components for every situation.

in a balanced way, while the directional design of the column speakers transmits speech clearly and distinctly even under challenging structural conditions.

The I-Line system allows the audience to effortlessly discern musical elements without having to listen too hard.

Whether conference or sales premises, churches, halls, boutiques, cafés, clubs or bars – the various elements of the I-Line provide the right solution for individual acoustic requirements. Crystal-clear, pleasant speech intelligibility as well as discreet background sound are easy to achieve. In combination with the optimally tuned subwoofer, an I-Line system plays back music

4  
YEARS  
WARRANTY

S 112i PRO

IC 32

IC 34

IC 38X NEW

IA 202D/IA 402D



## IC 32 / IC 34

### ULTRA-COMPACT, CLEAR AND DISCREET

Thanks to their extraordinarily compact dimensions and simple, elegant design, the IC 32 and IC 34 full-range speakers blend discreetly into any environment. Their high-quality aluminium housing perfectly conveys the demanding quality standards of speech intelligibility, directivity and durability. Two powerful 3.5" neodymium drivers are built into the IC 32, while four drivers in the IC 34 ensure crystal-clear sound.

Both models have been optimised for best possible speech intelligibility and cost efficiency. With a wide horizontal dispersion angle of 120°, large areas can be covered with few speakers thus saving you money. At the same time, the narrow horizontal dispersion angle of only 60° efficiently reduces unwanted reflections. No information is lost whilst all sound remains focused on the listeners.

The 3.5" driver, which we developed and produced in-house, delivers a consistently surprising performance considering the very compact dimensions of the speakers. Components produced in-house such as the innovative, high-performance cooling module and the high-quality membrane inside the ultra-compact IC 32 and the powerful IC 34 support the powerful sound and excellent speech intelligibility. The result is a performance that only significantly larger loudspeakers can otherwise offer. In combination with an S 112i PRO subwoofer, the result is an impressively rounded sound image for music playback, without interfering with the appearance and ambience of the room.

Both models use two 4-pin Phoenix connectors and a built-in 2-way switch to select between two signal channels, making wiring as simple and cost-effective as possible.

## IC 38X

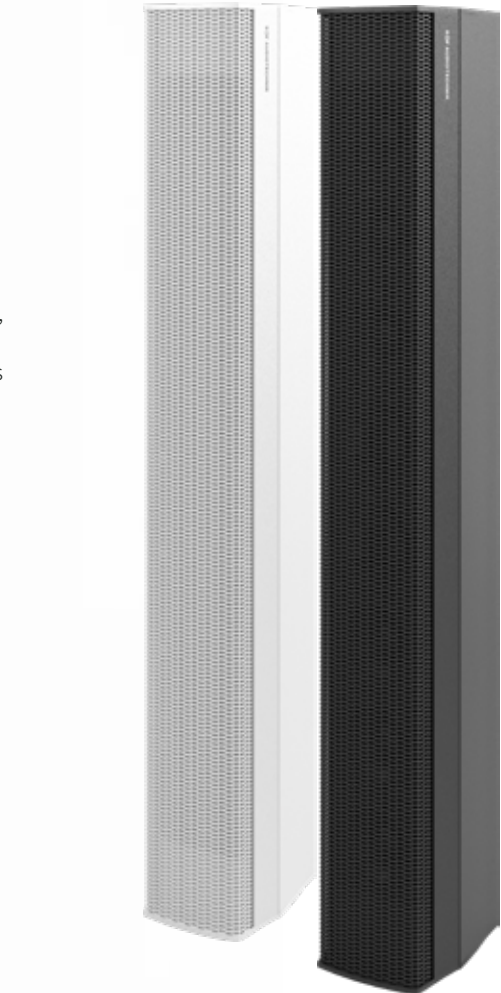
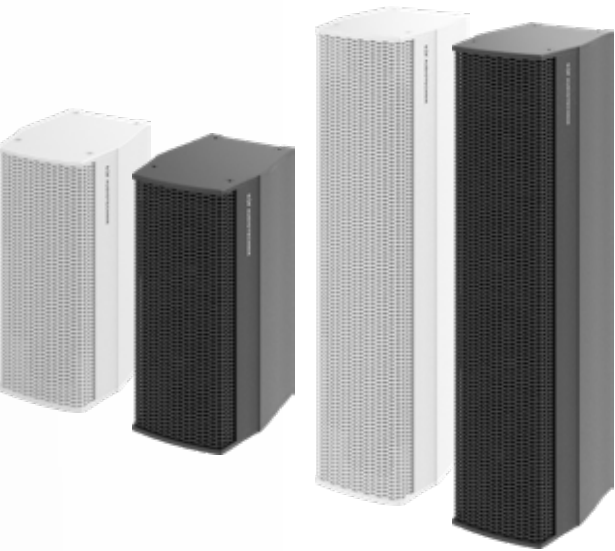
### EXCEPTIONALLY POWERFUL, UNUSUALLY LIGHT AND SPOT-ON

For complex rooms where sound diffusion is challenging, and to ensure that sound can be aimed as directly as possible at the audience without loss, the IC 38X features an extremely narrow beam angle; 120° wide horizontally but a super narrow 30° vertical angle. This makes it ideal for acoustically demanding, expansive architecture such as halls, churches, larger conference rooms and open rooms with high-ceilings. Even over long distances, the audience receives direct sound thanks to the extremely narrow beam angle, whilst reflections from the ceiling are optimally reduced and the energy loss is also minimised at a bigger distance. Pleasant, relaxed speech intelligibility is thus guaranteed.

The IC 38X is a real lightweight for its range. Equipped with eight 3.5" neodymium drivers, two of which are coaxial systems with 0.5" compression drivers, it weighs only 7.2 kg – but delivers an impressive 134 dB max. SPL with its 400 W RMS power handling capacity, if required. The low weight allows for flexible and easy mounting on a truss, a ceiling or walls. This means it can also be used on the side of large video screens or architecturally challenging areas, and ensures uncompromisingly good speech intelligibility. Especially when combined with an S 112i PRO subwoofer, the IC 38X produces a pleasantly round sound image.

The IC 38X uses Phoenix MSTB 4-pin input and link connectors for quick and easy connection.

Despite its low weight, the IC 38X is exceptionally durable and guarantees a long service life thanks to its indestructible die-cast aluminium housing. The choice of materials also supports the elegant, discreet and timeless design of the column speaker, which is available in white and black.



## IA 202D / IA 402D

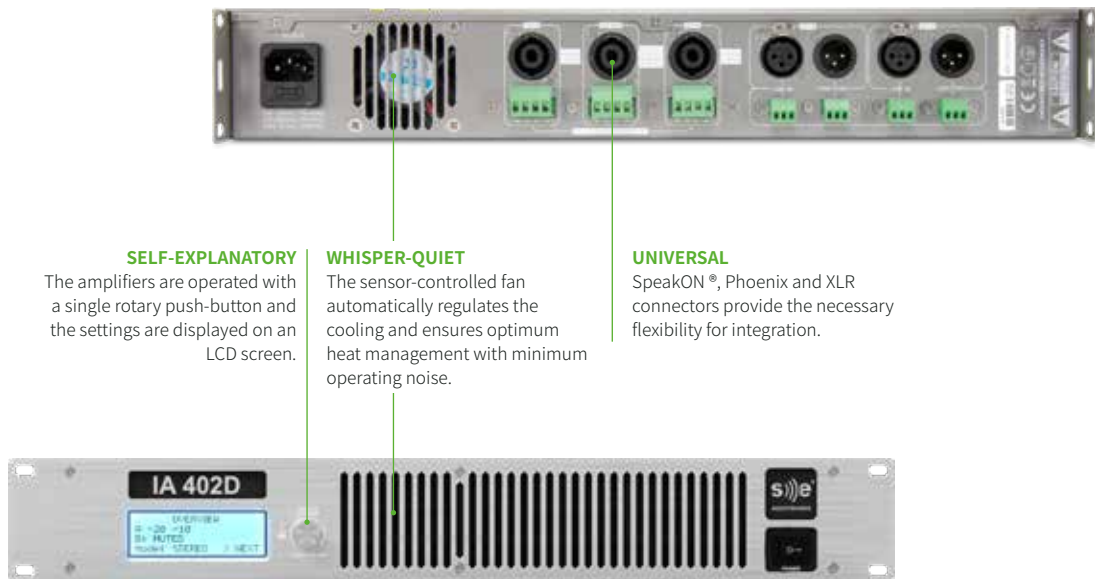
### WHISPER-QUIET, EFFICIENT AND EASY TO USE

The necessary power is provided by two 2-channel Class D power amplifiers optimally tuned to the I-Line column speakers – the IA 202D with 2x 250 W at 8 Ω and the IA 402D with either 2x 200 W at 8 Ω or 2x 400 W at 4 Ω.

The built-in 24bit/48kHz DSP processor supplies all I-Line speakers with customised and precise filter, EQ and limiter settings. A rotary push-button on the front panel conveniently controls pre-set speaker presets, delay and other functions. This ensures fast, uncomplicated and carefree system setup and tuning.

Both amplifiers operate the speakers remarkably quietly – made possible by a sensor-controlled fan, an aerodynamically optimised front to back airflow, and a very low idle power. Ideal for quiet environments!

The I-Line amplifiers are equipped with the three most common analogue input and output connectors. 2-channel XLR inputs with link outputs in conjunction with Phoenix MSTB 3-pin inputs cover the majority of all input requirements. Maximum flexibility at the outputs is provided by 3x Neutrik SpeakON® connectors in parallel to 4-pin Phoenix MSTB connectors.



## S 112i PRO

### COMPACT SIGNAL EXTENSION IN THE BASS RANGE

The S 112i PRO subwoofer is the perfect addition when crystal-clear speech intelligibility and pleasantly balanced music playback are required. The S 112i PRO has been specially developed for maximum flexibility thanks to its small size and minimal weight, and therefore fits perfectly into the I-Line. With a 400 W Class-D power amplifier module, it is the right choice in almost every location to round off the sound experience of an I-Line system in the bass range.

The 24bit/48kHz DSP processor, specially tailored to the I-Line speakers, provides additional signal filtering and maximum driver protection. With its compact, elegant design, the S 112i PRO can be easily integrated into any bar, café or conference room.



## SPECIFICATIONS

	IC 32	IC 34	IC 38X
<b>ACOUSTICAL</b>			
Frequency range (-3 dB)	150 Hz - 17 kHz	150 Hz - 17 kHz	240 Hz - 18 kHz
Frequency range (-10 dB)	100 Hz - 20 kHz	100 Hz - 20 kHz	110 Hz - 20 kHz
Coverage (-6 dB) [H x V]	120° - 60°	120° - 40°	120° - 30°
Nominal impedance	16 Ω	8 Ω	4 Ω
Sensitivity¹	91 dB	94 dB	96 dB
Peak power	400 W	800 W	1600 W
Continuous power²	100 W	200 W	400 W
Maximum Peak SPL³	123 dB	129 dB	134 dB
System type	1-way passive system	1-way passive system	2-way passive system
Crossover frequency	-	-	3 kHz
Transducers	2 x 3.5" neodymium drivers (1" voice coil)	4 x 3.5" neodymium drivers (1" voice coil)	MF: 8 x 3.5" neodymium drivers (1" voice coil) HF: 2 x 0.5" exit compression drivers (1" voice coil)
Enclosure type	Vented box	Vented box	Closed box
Connectors	Input / Link: Phoenix contact MSTB 4-pins	Input / Link: Phoenix contact MSTB 4-pins	Input signal: Phoenix contact MSTB 4-pins
User controls	2-positions input selection switch	2-positions input selection switch	2-positions input selection switch
Wiring	Pins 1+/1- or 2+/2- (switchable)	Pins 1+/1- or 2+/2- (switchable)	Pins 1+/1- or 2+/2- (switchable)
<b>MECHANICAL</b>			
Product dimensions [H x W x D] (including rigging)	247 x 116 x 150 mm	462 x 116 x 150 mm	924 x 116 x 150 mm
Net Weight	2 kg	4 kg	8.3 kg
Packaging dimensions [H x W x D]	405 x 268 x 375 mm	620 x 268 x 375 mm	975 x 233 x 255 mm
Total Weight	6.35 kg	10.1 kg	9.75 kg
Cabinet	Die-cast aluminium housing, plastic.	Die-cast aluminium housing, plastic.	Die-cast aluminium housing, plastic.
Cabinet finishing	Black or white powder coating	Black or white powder coating	Black or white powder coating
Grille	Powder coated perforated steel	Powder coated perforated steel	Powder coated perforated steel
Mounting	Centered mounting point for SMB bracket. Vertical and horizontal orientation. Safety wire fixing point.	Center and bottom mounting points for SMB bracket. Safety wire fixing point.	Center and bottom mounting points for SMBX bracket. Safety wire fixing point.
<b>ACCESSORIES</b>			
Smart Mounting Bracket	SMB	SMB	SMBX
Ceiling Mounting Bracket	-	-	IC38X CMB

	IA 202D AMPLIFIER	IA 402D AMPLIFIER
<b>ELECTRICAL</b>		
Type	Class-D, Switched Mode Power Supply	Class-D, Switched Mode Power Supply
Channels	Two	Two
Rated Output Power (1kHz, THD: <1%)⁴	2 x 250 W @ 8 Ω, 2 x 150 W @ 16 Ω	2 x 400 W @ 4 Ω, 2 x 200 W @ 8 Ω, 2 x 100 W @ 16 Ω
Minimum load impedance	8 Ω	4 Ω
Damping factor	> 200	> 200
Input impedance	10 kΩ balanced/unbalanced	10 kΩ balanced/unbalanced
Maximum input level	+20 dBu	+20 dBu
SNR Line in to Spk out	90 dB	90 dB
Noise Floor	-52 dBu (A-weighted) @4 dBu sensitivity, 0 dB master attenuation	-52 dBu (A-weighted) @4 dBu sensitivity, 0 dB master attenuation
Channel crosstalk	64 dB	62 dB
THD+N	<0.1% @ 1 W, 1 kHz; <0.3% @ 1 dB below rated power	<0.1% @ 1 W, 1 kHz; <0.3% @ 1 dB below rated power
DSP	48 kHz/24 bit DSP processor, Processing latency: 1.1 ms	48 kHz/24 bit DSP processor, Processing latency: 1.1 ms
Protection	Short circuit, overheating, overcurrent	Short circuit, overheating, overcurrent
Cooling	Sensor controlled fan, Front-to-back air flow	Sensor controlled fan, Front-to-back air flow
Power efficiency	Up to 76%	Up to 83%
Power consumption	Idle: 29 W, Full power: 600 W	Idle: 30 W, Full power: 1000 W
Operating voltage range	100 – 240 VAC 50/60 Hz	100 – 240 VAC 50/60 Hz
<b>HARDWARE</b>		
Screen	LCD, 4x20 symbol alpha-numeric	LCD, 4x20 symbol alpha-numeric
User controls	Control encoder with push-button, Power On	Control encoder with push-button, Power On
Input signal connectors	XLR-3 female line-level inputs, XLR-3 male link outputs, Phoenix MSTP 3-pin inputs and link outputs	XLR-3 female line-level inputs, XLR-3 male link outputs, Phoenix MSTP 3-pin inputs and link outputs
Output signal connectors	Neutrik SpeakON® NL4 outputs, Phoenix Contact MSTB 4-pin outputs	Neutrik SpeakON® NL4 outputs, Phoenix Contact MSTB 4-pin outputs
Power connector	IEC C14	IEC C14
<b>SOFTWARE</b>		
DSP Features	Levels, Parametric EQ, Delay, Phase, Input Sensitivity, RMS Limiter, Peak Limiter, IIR/FIR Filtering	Levels, Parametric EQ, Delay, Phase, Input Sensitivity, RMS Limiter, Peak Limiter, IIR/FIR Filtering
Configuration handling	Loading of factory presets provided by SE, Saving and recalling of user presets	Loading of factory presets provided by SE, Saving and recalling of user presets
Monitoring	Temperatures	Temperatures
<b>MECHANICAL</b>		
Product dimensions [H x W x D]	66 x 483 x 256 / 1.5 RU	66 x 483 x 256 / 1.5 RU
Net weight	4.7 kg	5.1 kg
Packaging dimensions [H x W x D]	143 x 588 x 380 mm	143 x 588 x 380 mm
Total weight	7.25 kg	7.65 kg
Cabinet	Aluminium front panel, steel body	Aluminium front panel, steel body
Rack mounting	Four frontal 6 mm holes at both sides	Four frontal 6 mm holes at both sides
Operating temperature range	[0°C, 40°C]	[0°C, 40°C]
Storage temperature range	[-40°C, 70°C]	[-40°C, 70°C]

	S 112i PRO SELF-POWERED SUBWOOFER	
<b>ACOUSTICAL</b>		<b>MECHANICAL</b>
Frequency range (-3 dB)⁵	42 Hz - 250 Hz	Product dimensions [H x W x D]
Frequency range (-10 dB)⁵	36 Hz - 300 kHz	Net weight
Coverage (-6dB) [H x V]	Omnidirectional	Packaging dimensions [H x W x D]
Maximum Peak SPL⁴	132 dB	Total weight
System type	1-way active system	Cabinet
Transducers	1 x 12" driver (3" voice coil)	Cabinet finishing
Enclosure type	Vented box	Grille
<b>AMPLIFICATION</b>		Hardware
Type	Single channel, class-D with SMPS	
Output power	800 W	
Protection	Short circuit, overheating, overcurrent	
Connectors	Input signal: balanced XLR 3-pin female Link output: balanced XLR 3-pin male Power input: powerCON® 20A Power link output: powerCON® 20A	
Power wiring	0 dBu	
Input sensitivity	0 dBu	
DSP	48 kHz/24 bit DSP Processor with extended dynamics Processing latency: 1.1 ms	
Processing	Factory and user presets, directivity control, EQ, delay, phase inversion, input sensitivity	
User controls	Power: ON/OFF switch DSP: display with digital encoder	

¹ Whole space, 1W / 1m, on axis. With dedicated IA 402D amplifier's preset.

² According to EIA-426B Standard (based on RMS Voltage)

³ Max Peak SPL = Sensitivity + 10log<sub>10</sub> (Continuous Power) + 12 dB Crest Factor

⁴ According to IHF-A-202

⁵ Measured with GENERAL preset with 6<sup>th</sup>-order Butterworth low-pass filter applied at 240 Hz

⁶ Measured with 12 dB Crest factor Pink Noise, half space

## SMB

### SIMPLE, FLEXIBLE MOUNTING

The SMB – Smart Mounting Bracket – was developed for uncomplicated, time-saving installation and the greatest possible flexibility in alignment; the intelligent wall bracket. With this bracket, the speakers can be installed quickly and easily almost anywhere and at an ideal angle in order to optimise directivity.

The SMB, designed in Germany, is included with every I-Line speaker and was specially designed for use with our column speakers. An SMB mounted column speaker can be adjusted on both axes by up to ± 90° in 10° steps.

The SMB has a maximum load-bearing capacity of 10 kg and is supplied together with a 20 cm long steel cable for securing in accordance with international guidelines.

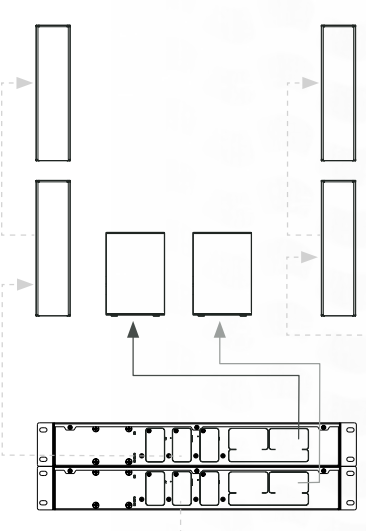


## APPLICATION EXAMPLES

### CONFERENCE ROOM

For medium audiences

- 4 x IC 34 Column speakers
- 4 x SMB Smart Mounting Brackets
- 2 x S 112i PRO Installation Subwoofers
- 2 x IA 202D System Amplifier

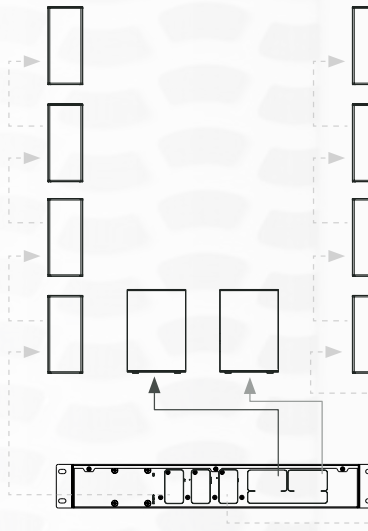


**Universal medium system**  
Conference rooms, Mini multipurpose halls, Small cafés and bars

### BAR OR RESTAURANT

For larger audiences

- 8 x IC 32 Column speakers
- 8 x SMB Smart Mounting Brackets
- 2 x S 112i PRO Installation Subwoofers
- 1 x IA 402D System Amplifier

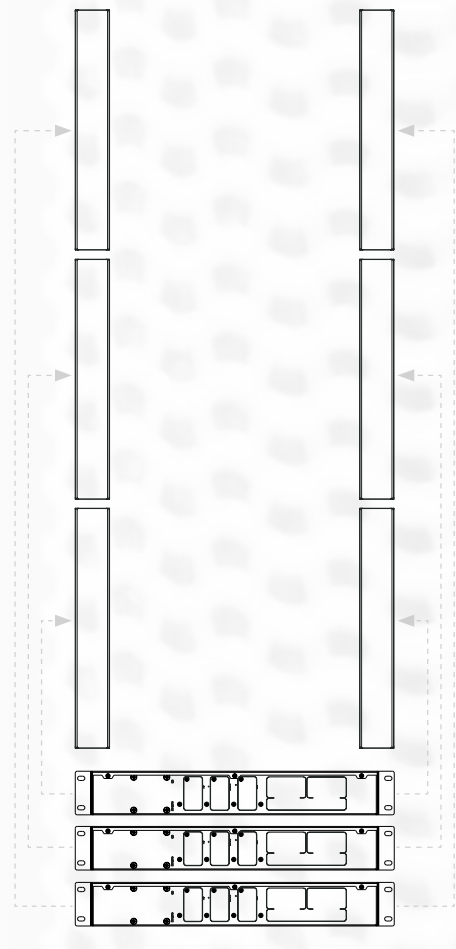


**Small size, big sound**  
Bars, restaurants, small clubs, exhibition halls

### HOUSES OF WORSHIP

For demanding architecture

- 6 x IC 38X Column speakers
- 3 x IA 402D System Amplifier



**Minimal reflection**  
Churches, large halls, train stations, large foyers, large multi-purpose rooms, trade shows