



ASCENDO

ELEVATE YOUR SOUND

2024

BROCHURE





WELCOME TO

ASCENDO IMMERSIVE AUDIO (AIA)

YOUR HOME THEATRE COMPANY

AIA is mirroring the virtual audio reality into your living room, man cave or home theatre. The spatial imaging, speech intelligibility, fine detail reproduction, and dynamics are breath-taking and leave you with a highly involving emotional experience.

Whether you intend to build a small 5.1 home theatre or a large immersive Dolby Atmos® or even a DCI digital cinema system, AIA offers the perfect solution with DSP room correction and a range of high-performance passive and active loudspeakers and subwoofers.

Family rooms, Yachts, Karaoke, Game rooms or multipurpose rooms are perfectly suited to take advantage of the neutral and precise characteristics of AIA speakers.

The last frontier in ultimate audio reproduction in home theatres is the lowest octaves below 20Hz, by definition "infrasonic." AIA offers an exciting category of infrasonic subwoofers that reproduce in-room frequencies down to 1Hz. Modern movies contain a lot of infrasonic LFE content well below the audible threshold simply left unheard or unfelt by other systems.

SPEAKERS

ASCENDO loudspeakers stands for high neutrality, true-to-detail precision, and nearly limitless dynamics.

PERFORMANCE FEATURES

- absolute signal fidelity and breath taking realistic cinematic experiences through the AIA Speaker Management technology
- time-coherent coaxial drivers with the lowest distortion for high neutrality, true-to-detail precision and limitless dynamic
- **ASCENDO** speaker drivers feature no shortcuts in design of our motor and cone technology featuring high tech materials such as Beryllium
- clear and articulated speech intelligibility with any program material
- state-of-the-art digital amplifier electronics with up to 1.900 watts of stable power output and very low power consumption
- extreme dynamic range and extremely high maximum volume level (Reference Level)
- shallow design for flexible user-friendly inwall or on-wall mounting
- central networked real-time control of all systems
- Dante and AES67 (optional)
- individual room correction of each active - subwoofer unit
- wide range of active and passive loudspeakers suitable for all room sizes and almost any budget.





Speaker type Loudspeaker	Time coherent 10" coax point-source Zeit-richtige 25.2 cm Coax-Einpunktschallquelle
Passive Active	Passive Passiv
Enclosure type Prinzip	Vented Reflex
Cont./peak output Dauer-/Spitzenleistung	120 dB cont. / 123 dB peak
Frequency Range Frequenzbereich	75 Hz - 20 kHz / -3 dB
Sensitivity Wirkungsgrad	97 dB / 1W/m
Power handling Belastbarkeit	500 W
Impedance Impedanz	8 Ω
Woofer Tieftöner	10" 252 mm
Tweeter Hochtöner	1" 25 mm Compression driver
Directivity horizontal x vertical in Deg° Abstrahlwinkel	85° x 85°
Speaker In Lautsprecher Eingang	Phoenix
Enclosure Gehäuse	Internally braced birch ply Innenverstrebtes Birkensterrholz

Width Breite	11.81" 300 mm
Hight Höhe	19.69" 500 mm
Depth without grill Tiefe	5.70" 145 mm
Weight Gewicht	37.48 lbs 17 kg
Finish Oberfläche	Black matt Schwarz matt
Custom colour options Farbvarianten	Piano lacquer (12 layers): colour of choice, matt or other finishes upon request, color of choice Echter Klavierlack (12 Schichten): Farbe nach Wahl, Mattlack: Farbe nach Wahl, weitere Oberflächen auf Anfrage
Shape customization Sondergröße	Upon request Auf Anfrage
Mounting Montage	3 x wall brackets for horizontal and vertical installation + optional VESA 100 mounting points 3 x Wandhalterungen für Längs- und Quermontage + VESA 100 Montagepunkte

All speakers are supplied with a front cover as standard | Alle Lautsprecher werden mit Abdeckung ausgeliefert



Speaker type	Time coherent 10" coax point-source
Principle	Vented
Passive Active	Passive
SPL	Calculated data 120 dB cont. / 123 dB peak
Frequency range	Calculated data 75 Hz - 20 kHz / -3 dB
Efficiency	98 dB / 1W/m
Power handling	500W
Impedance	8 Ω
Woofer	10"
Tweeter	1" Compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Input terminal	One 4-conductor Phoenix 12 AWG (3.3 mm²) push on binding post
Enclosure	MDF
Width	14.70" 360 mm vertical 14.7 0" 360 mm horizontal
Hight	15.04" 382 mm vertical 8.62" 219 mm horizontal
Depth (without grille)	8.62" 219 mm vertical 15.04" 382 mm horizontal
Weight	28.66 lbs 13 kg
Finish	Matte black

Custom colour options	Piano lacquer: colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Metal wall or ceiling mounting brackets that allows to angle the speaker further in two axes + 8 wall mount brackets, which allow to hang the speaker in multiple ways on the wall + VESA 200 x 100 mounting points

The THE10 PASSIVE WEDGE 30 is supplied with a front cover as standard



THE **12 Be PRO**
ACTIVE EXT
ON WALL



Speaker type Loudspeaker	Time coherent 12" coax Beryllium point-source with AIA Speaker Management Technology Zeitrichtige 30 cm Beryllium Coax-Punktschallquelle mit AIA Speaker Management Technologie
Passive Active	Active, 2Ch DSP + 2Ch Amplifier are required Aktiv, 2Ch DSP + 2Ch Verstärker werden benötigt
Recommended Amplifiers Empfohlene Verstärker	low-mid 85 Vrms, 120 Vpk, 10.6 A; high 44 Vrms, 62Vpk, 5.5 A; equivalent to LF 900W@8Ω, HF 240W@ 8Ω
Recommended ASCENDO Amplifiers	DNA 2250.2
Enclosure type Prinzip	Vented Reflex
Cont./peak output Dauer-/Spitzenleistung	127 dB cont. / 130 dB peak
Frequency Range Frequenzbereich	65 Hz - 21 kHz / -3 dB
Woofer Tieftöner	12" 302 mm
Tweeter Hochtöner	1,4" (Throat) Beryllium compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Speaker In Lautsprechereingang	Neutrik Speakon NL4
Enclosure Gehäuse	Internally braced birch ply and MDF Innenverstrebtes Birkensterrholz und MDF
Width Breite	17,48" 444 mm
Height Höhe	26,3" 668 mm
Depth with plug Tiefe mit Stecker	7,87" 200 mm
Depth grille Tiefe Abdeckung	0,39" 10 mm

Weight Gewicht	46,96 lbs 21,3 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Mounting Montage	4 x wall brackets for horizontal and vertical installation + VESA 200 mounting points 4 x Wandhalterungen für Längs- und Quermontage + VESA 200 Montagepunkte

All speakers are supplied with a front cover as standard |
Alle Lautsprecher werden mit Abdeckung ausgeliefert
Technical modifications subject to change without further notice |
Technische Änderungen vorbehalten



THE **12 Be PRO**
ACTIVE EXT
WEDGE



Speaker type Loudspeaker	Time coherent 12" coax Beryllium point-source with AIA Speaker Management Technology Zeitrichtige 30 cm Beryllium Coax-Punktschallquelle mit AIA Speaker Management Technologie
Passive Active	Active, 2Ch DSP + 2Ch Amplifier are required Aktiv, 2Ch DSP + 2Ch Verstärker werden benötigt
Recommended Amplifiers Empfohlene Verstärker	low-mid 85 Vrms, 120 Vpk, 10.6 A; high 44 Vrms, 62Vpk, 5.5 A; equivalent to LF 900W@8Ω, HF 240W@ 8Ω
Recommended ASCENDO Amplifiers	DNA 2250.2
Enclosure type Prinzip	Vented Reflex
Cont./peak output Dauer-/Spitzenleistung	127 dB cont. / 130 dB peak
Frequency Range Frequenzbereich	65 Hz - 21 kHz / -3 dB
Woofer Tieftöner	12" 302 mm
Tweeter Hochtöner	1,4" (Throat) Beryllium compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Speaker In Lautsprechereingang	Neutrik Speakon NL4
Enclosure Gehäuse	Internally braced birch ply and MDF Innenverstrebtes Birkensterrholz und MDF
Width Breite	19,69" 500 mm / Horizontal
Height Höhe	17,72" 450 mm / Horizontal
Depth with plug Tiefe mit Stecker	7,11 - 11,74" 180,61 - 298,17 mm Angle 15°
Depth grille Tiefe Abdeckung	0,39" 10 mm

Weight Gewicht	48,06 lbs 21,8 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Mounting Montage	4 x wall brackets for horizontal and vertical installation + VESA 200 mounting points 4 x Wandhalterungen für Längs- und Quermontage + VESA 200 Montagepunkte

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Speaker type Loudspeaker	Time coherent 12" coax Beryllium point-source Zeitrichtige 30 cm Beryllium Coax-Punktschallquelle
Passive Active	PASSIVE PASSIV
Enclosure type Prinzip	Vented Reflex
Sensitivity Wirkungsgrad	97 dB / 1W/m
Impedance Impedanz	8 Ω
power handling Belastbarkeit	900 W
Cont./peak output Dauer-/Spitzenleistung	126 dB cont. / 129 dB peak
Frequency Range Frequenzbereich	75 Hz - 21 kHz / -3 dB
Woofer Tieftöner	12" 302 mm
Tweeter Hochtöner	1.4" (Throat) Beryllium compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Speaker In Lautsprechereingang	Neutrik Speakon NL4
Enclosure Gehäuse	Internally braced birch ply and MDF Innenverstrebtes Birkensterrholz und MDF
Width Breite	17.48" 444 mm
Height Höhe	26.3" 668 mm
Depth with plug Tiefe mit Stecker	7.87" 200 mm
Depth grille Tiefe Abdeckung	0.39" 10 mm

Weight Gewicht	49.60 lbs 22.5 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Mounting Montage	4 x wall brackets for horizontal and vertical installation + VESA 200 mounting points 4 x Wandhalterungen für Längs- und Quermontage + VESA 200 Montagepunkte

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Speaker type Loudspeaker	Time coherent 12" coax Beryllium point-source Zeitrichtige 30 cm Beryllium Coax-Punktschallquelle
Passive Active	PASSIVE PASSIV
Enclosure type Prinzip	Vented Reflex
Sensitivity Wirkungsgrad	97 dB / 1W/m
Impedance Impedanz	8 Ω
power handling Belastbarkeit	900 W
Cont./peak output Dauer-/Spitzenleistung	126 dB cont. / 129 dB peak
Frequency Range Frequenzbereich	75 Hz - 21 kHz / -3 dB
Woofer Tieftöner	12" 302 mm
Tweeter Hochtöner	1.4" (Throat) Beryllium compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Speaker In Lautsprechereingang	Neutrik Speakon NL4
Enclosure Gehäuse	Internally braced birch ply and MDF Innenverstrebtes Birkensterrholz und MDF
Width Breite	19.69" 500 mm / Horizontal
Height Höhe	17.72" 450 mm / Horizontal
Depth with plug Tiefe mit Stecker	7.11 - 11.74" 180.61 - 298.17 mm Angle 15°
Depth grille Tiefe Abdeckung	0.39" 10 mm

Weight Gewicht	50.70 lbs 23.0 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Mounting Montage	4 x wall brackets for horizontal and vertical installation + VESA 200 mounting points 4 x Wandhalterungen für Längs- und Quermontage + VESA 200 Montagepunkte

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Technische Änderungen vorbehalten





Speaker type Loudspeaker	Time coherent 12" coax point-source with AIA Speaker Management Technology Zeitrichtige 30 cm Coax-Punktschallquelle mit AIA Speaker Management Technologie
Passive Active	Active, 2Ch DSP + 2Ch amplifier are required Aktiv, 2Ch DSP + 2Ch Verstärker werden benötigt
Recommended Amplifiers Empfohlene Verstärker	low-mid 85 Vrms, 120 Vpk, 10.6 A; high 44 Vrms, 62Vpk, 5.5 A; equivalent to LF 900W@8Ω, HF 240W@ 8Ω
Recommended ASCENDO Amplifiers	DNA 2250.2
Enclosure type Prinzip	Vented Reflex
Cont./peak output Dauer-/Spitzenleistung	127 dB cont. / 130 dB peak
Frequency Range Frequenzbereich	65 Hz - 21 kHz / -3 dB
Woofer Tieftöner	12" 302 mm
Tweeter Hochtöner	1.4" (Throat) compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Speaker In Lautsprechereingang	Neutrík Speakon NL4
Enclosure Gehäuse	Internally braced birch ply and MDF Innenverstrebtes Birkensperholz und MDF
Width Breite	19.69" 500 mm / Horizontal
Height Höhe	17.72" 450 mm / Horizontal
Depth with plug Tiefe mit Stecker	7.11 - 11.74" 180.61 - 298.17 mm Angle 15°
Depth grille Tiefe Abdeckung	0.39" 10 mm

Weight Gewicht	48.06 lbs 21.8 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Mounting Montage	4 x wall brackets for horizontal and vertical installation + VESA 200 mounting points 4 x Wandhalterungen für Längs- und Quermontage + VESA 200 Montagepunkte

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Technical modifications subject to change without further notice |
Technische Änderungen vorbehalten



Speaker type Loudspeaker	Time coherent 12" coax point-source Zeitrichtige 30 cm Coax-Punktschallquelle
Passive Active	PASSIVE PASSIV
Enclosure type Prinzip	Vented Reflex
Sensitivity Wirkungsgrad	97 dB / 1W/m
Impedance Impedanz	8 Ω
power handling Belastbarkeit	900 W
Cont./peak output Dauer-/Spitzenleistung	126 dB cont. / 129 dB peak
Frequency Range Frequenzbereich	75 Hz - 21 kHz / -3 dB
Woofer Tieftöner	12" 302 mm
Tweeter Hochtöner	1.4" (Throat) compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Speaker In Lautsprechereingang	Neutrík Speakon NL4
Enclosure Gehäuse	Internally braced birch ply and MDF Innenverstrebtes Birkensperholz und MDF
Width Breite	17.48" 444 mm
Height Höhe	26.3" 668 mm
Depth with plug Tiefe mit Stecker	7.87" 200 mm
Depth grille Tiefe Abdeckung	0.39" 10 mm

Weight Gewicht	49.60 lbs 22.5 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Mounting Montage	4 x wall brackets for horizontal and vertical installation + VESA 200 mounting points 4 x Wandhalterungen für Längs- und Quermontage + VESA 200 Montagepunkte

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Technical modifications subject to change without further notice |
Technische Änderungen vorbehalten



THE **12 PRO**
PASSIVE
WEDGE



Speaker type Loudspeaker	Time coherent 12" coax point-source with AIA Speaker Management Technology Zeitrichtige 30 cm Coax-Punktschallquelle mit AIA Speaker Management Technologie
Passive Active	PASSIVE PASSIV
Enclosure type Prinzip	Vented Reflex
Sensitivity Wirkungsgrad	97 dB / 1W/m
Impedance Impedanz	8 Ω
power handling Belastbarkeit	900 W
Cont./peak output Dauer-/Spitzenleistung	126 dB cont. / 129 dB peak
Frequency Range Frequenzbereich	75 Hz - 21 kHz / -3 dB
Woofer Tieftöner	12" 302 mm
Tweeter Hochtöner	1,4" (Throat) compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Speaker In Lautsprechereingang	Neutrik Speakon NL4
Enclosure Gehäuse	Internally braced birch ply and MDF Innenverstrebt Birkenesperrholz und MDF
Width Breite	19,69" 500 mm / Horizontal
Height Höhe	17,72" 450 mm / Horizontal
Depth with plug Tiefe mit Stecker	7,11 - 11,74" 180,61 - 298,17 mm Angle 15°
Depth grille Tiefe Abdeckung	0,39" 10 mm

Weight Gewicht	50,70 lbs 23,0 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Mounting Montage	4 x wall brackets for horizontal and vertical installation + VESA 200 mounting points 4 x Wandhalterungen für Längs- und Quermontage + VESA 200 Montagepunkte

All speakers are supplied with a front cover as standard | Alle Lautsprecher werden mit Abdeckung ausgeliefert |
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THE **15 Be PRO**
ACTIVE EXT
ON WALL



Speaker type	Time coherent 15" Beryllium coax point-source
Principle	Vented
Passive Active	Active, 2Ch DSP + 2Ch amplifier are required
Recommended amplifiers	1 x low-mid amp channels with 85 Vrms, 120 Vpk, 10,6 A; high 44 Vrms, 62Vpk, 5,5 A; equivalent to LF 900W@8Ω, 1 x HF 240W@ 8Ω
SPL	Calculated data 128 dB cont. / 131 dB peak
Frequency range	Calculated data 65 Hz - 21 kHz / -3 dB
Woofer	15"
Tweeter	1,4" Beryllium (Throat) compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Input terminal	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	18,50" 470 mm
Height	34,25" 870 mm
Depth with plug	9,45" 240 mm
Depth without grill	9,45" 240 mm
Weight	69,45 lbs 31,5 kg
Finish	PU structural paint black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	3 x wall brackets for horizontal and vertical installation + VESA 200 mounting points

The 15 Be PRO ACTIVE EXT is supplied with a front cover as standard



Technical modifications subject to change without further notice | Technische Änderungen vorbehalten

THE **15 Be PRO**
PASSIVE
ON WALL



Speaker type	Time coherent 15" Beryllium coax point-source
Principle	Vented
Passive Active	Passive
SPL	Calculated data 127 dB cont. / 130 dB peak
Frequency range	Calculated data 75 Hz - 21 kHz / -3 dB
Sensitivity	99 dB / 1W/m
power handling	900 W
Impedance	8 Ω
Woofer	15"
Tweeter	1.4" (Throat) Beryllium compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Input terminal	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	18,50" 470 mm
Height	34,25" 870 mm
Depth with plug	9,45" 240 mm
Depth without grill	9,45" 240 mm
Weight	71,65 lbs 32,5 kg
Finish	PU structural paint black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	3 x wall brackets for horizontal and vertical installation + VESA 200 mounting points

The 15 Be PRO PASSIVE is supplied with a front cover as standard



THE **15 PRO**
ACTIVE EXT
ON WALL



Speaker type	Time coherent 15" coax point-source
Principle	Vented
Passive Active	Active, 2Ch DSP + 2Ch amplifier are required
Recommended amplifiers	1 x low-mid amp channels with 85 Vrms, 120 Vpk, 10,6 A; high 44 Vrms, 62Vpk, 5,5 A; equivalent to LF 900W@8Ω, 1 x HF 240W@ 8Ω
SPL	Calculated data 128 dB cont. / 131 dB peak
Frequency range	Calculated data 65 Hz - 21 kHz / -3 dB
Woofer	15"
Tweeter	1.4" (Throat) compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Input terminal	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	18,50" 470 mm
Height	34,25" 870 mm
Depth with plug	9,45" 240 mm
Depth without grill	9,45" 240 mm
Weight	69,45 lbs 31,5 kg
Finish	PU structural paint black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	3 x wall brackets for horizontal and vertical installation + VESA 200 mounting points

The 15 PRO ACTIVE EXT is supplied with a front cover as standard





Speaker type	Time coherent 15" coax point-source
Principle	Vented
Passive Active	Passive
SPL	Calculated data 127 dB cont. / 130 dB peak
Frequency range	Calculated data 75 Hz - 21 kHz / -3 dB
Sensitivity	99 dB / 1W/m
power handling	900 W
Impedance	8 Ω
Woofer	15"
Tweeter	1.4" (Throat) compression driver
Directivity horizontal x vertical in Deg°	85° x 85°
Input terminal	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	18.50" 470 mm
Height	34.25" 870 mm
Depth with plug	9.45" 240 mm
Depth without grill	9.45" 240 mm
Weight	71.65 lbs 32.5 kg
Finish	PU structural paint black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	3 x wall brackets for horizontal and vertical installation + VESA 200 mounting points

The 15 PRO PASSIVE is supplied with a front cover as standard



Speaker type Loudspeaker	Time coherent 5 1/4" coax pointsource Zeit-richtige 13 cm Coax-Punktschallquelle
Passive Active	Passive Passiv
Enclosure type Prinzip	Vented Reflex
Cont./peak output Dauer-/Spitzenleistung	105 dB cont. / 108 dB peak
Frequency Range Frequenzbereich	85Hz - 20 kHz / -3 dB
Sensitivity Wirkungsgrad	88 dB / 1W/m
Power handling Belastbarkeit	200W
Impedance Impedanz	8 Ω
Woofer Tieftöner	5 1/4" 130 mm
Tweeter Hochtöner	1" 25 mm soft dome
Directivity horizontal x vertical in Deg° Abstrahlwinkel	90° x 90°
Speaker In Lautsprecher Eingang	Phoenix
Enclosure Gehäuse	MDF

Width Breite	9.84" 250 mm
Height Höhe	115.75" 400 mm
Depth without grill Tiefe	2.95" 75 mm
Weight Gewicht	8.82 lbs 4 kg
Finish Oberfläche	Black matt Schwarz matt
Custom colour options Farbvarianten	Piano lacquer (12 layers): colour of choice, matt or other finishes upon request, color of choice Echter Klavierlack (12 Schichten): Farbe nach Wahl, Mattlack: Farbe nach Wahl, weitere Oberflächen auf Anfrage
Shape customization Sondergröße	Upon request Auf Anfrage
Mounting Montage	wall bracket + VESA 100 mounting points + 2 through holes for direct wall or ceiling mounting Wandhalterungen + VESA 100 + 2 durchgängige Schraubenführungen für die direkte Wand- oder Deckenmontage von vorn

All speakers are supplied with a front cover as standard | Alle Lautsprecher werden mit Abdeckung ausgeliefert

THE **6**
PASSIVE
ON WALL



Speaker type Loudspeaker	Time coherent 6.5" coax point-source Zeit-richtige 16 cm Coax- Einpunktschallquelle
Passive Active	Passive Passiv
Enclosure type Prinzip	Vented Reflex
Cont./peak output Dauer-/Spitzenleistung	113 dB cont. / 117 dB peak
Frequency Range Frequenzbereich	80 Hz - 20 kHz / -3 dB
Sensitivity Wirkungsgrad	93 dB / 1W/m
Power handling Belastbarkeit	200W
Impedance Impedanz	8 Ω
Woofer Tieftöner	6.5" 165 mm
Tweeter Hochtöner	1" 25 mm soft dome
Directivity horizontal x vertical in Deg° Abstrahlwinkel	90° x 90°
Speaker In Lautsprecher Eingang	Phoenix
Enclosure Gehäuse	MDF

Width Breite	10.24" 260 mm
Hight Höhe	17.32" 440 mm
Depth without grill Tiefe	3.46" 88 mm
Weight Gewicht	9.92 lbs 4.5 kg
Finish Oberfläche	Black matt Schwarz matt
Custom colour options Farbvarianten	Piano lacquer (12 layers): colour of choice, matt or other finishes upon request, color of choice Echter Klavierlack (12 Schichten): Farbe nach Wahl, Mattlack: Farbe nach Wahl, weitere Oberflächen auf Anfrage
Shape customization Sondergröße	Upon request Auf Anfrage
Mounting Montage	3 x wall brackets for horizontal and vertical installation + VESA 100 mounting points + 4 through holes for direct wall or ceiling mounting 3 x Wandhalterungen für Längs- und Quermontage + VESA 100 + 4 durchgängige Schraubenführungen für die direkte Wand- oder Deckenmontage von vorn

All speakers are supplied with a front cover as standard |
Alle Lautsprecher werden mit Abdeckung ausgeliefert

THE **6**
PASSIVE
NARROW



Speaker type	Time coherent 6.5" coax point-source
Principle	Vented
Passive Active	Passive
SPL	113 dB cont. / 117 dB peak
Frequency Range	80 Hz - 20 kHz / -3 dB
Sensitivity	93 dB / 1W/m
Power handling	200W
Impedance Impedanz	8 Ω
Woofer Tieftöner	6.5" 165 mm
Tweeter Hochtöner	1" 25 mm soft dome
Directivity horizontal x vertical in Deg°	90° x 90°
Input terminal	One 4-conductor Phoenix 12 AWG (3.3 mm²) push on binding post
Enclosure Gehäuse	MDF

Width	19.49" 495 mm
Hight	7.09" 180 mm
Depth with plug	3.46" 88 mm
Depth with grille	3.7" 94 mm
Depth grille	0.24" 6 mm
Weight	10.58 lbs 4.8 kg
Finish	Matte black white glossy
Custom colour options	Piano lacquer: colour of choice, matt or other finishes upon request, color of choice
Shape customization	possible, upon request
Mounting	4 x wall brackets for horizontal and vertical installation + 2 through holes for direct wall or ceiling mounting

All speakers are supplied with a front cover as standard |
Alle Lautsprecher werden mit Abdeckung ausgeliefert



**THE 6 PRO
PASSIVE
ON WALL**



Speaker type	6.5" Time coherent point-source coaxial
Passive Active	Passive
Enclosure type	Vented
SPL	Calculated data 112 dB cont. / 122 dB peak
Frequency Range	Calculated data 100 Hz - 20 kHz / -3dB
Sensitivity	94 dB / 1W/m
Power handling	200 W
Impedance	8 Ω
Woofer	6.5" woofer, cone from graphene carbon non woven mix
Tweeter Hochtöner	1" soft dome tweeter with presence EQ switch 0dB +3dB
Directivity horizontal x vertical in Deg°	85° x 85°
Input Terminal	One 4-conductor Phoenix 12 AWG (3,3 mm ²) push on binding post
Enclosure Gehäuse	Aluminum MDF damped sandwich

Width	10,49" 266,5 mm
Height	17,58" 446,5 mm
Depth (with grille)	3,94" 100 mm
Depth (without grille)	3,66" 93 mm
Depth grille	0,28" 7 mm
Weight	16,53 lbs 7,5 kg
Finish	Brushed aluminum black anodized
Mounting	4 x wall brackets for horizontal and vertical installation + VESA 200 x 100 mounting points

The THE6 PRO PASSIVE ON WALL is supplied with a front cover as standard



**THE 6 PRO
PASSIVE
CEILING**



Speaker type	6.5" Time coherent point-source coaxial
Passive Active	Passive
Use case	In ceiling
SPL	Measurement Data 109 dB peak
Frequency Range	Measurement Data 75 Hz - 20 kHz / -3dB
Sensitivity	87 dB / 1W/m
Power handling	200 W
Impedance	4 Ω
Motor	Woofer and tweeter: Neodymium
Woofer	6.5" woofer
Tweeter	1,1" soft dome
Dispersion pattern in degrees	120°
Input Terminal	Push on terminals up to AWG14 (2,5mm)

Diameter	8,86" 255 mm
Cut out diameter	8,07" 205 mm
Depth with plug	6,89" 175 mm
Mounting depth	1,69" 42,9 mm
Grille 1 diameter	8,94" 227 mm
Grille 2 (width x height)	(8,94 x 8,94)" (227 x 227) mm
Weight	2,2 lbs 1 kg
Grille mounting	Magnetic
Grille finish	White, can be overpainted
Mounting	Dogfeet clamps

The THE6 PRO PASSIVE ON WALL is supplied with 2 front covers as standard



THE **6**
PASSIVE
WEDGE 30



Speaker type Loudspeaker	Time coherent 6.5" coax point-source Zeit-richtige 16 cm Coax- Einpunktschallquelle
Passive Active	Passive Passiv
Enclosure type Prinzip	Vented Reflex
Cont./peak output Dauer-/Spitzenleistung	113 dB cont. / 117 dB peak
Frequency Range Frequenzbereich	80 Hz - 20 kHz / -3 dB
Sensitivity Wirkungsgrad	93 dB / 1W/m
Power handling Belastbarkeit	200W
Impedance Impedanz	8 Ω
Woofer Tieftöner	6.5" 165 mm
Tweeter Hochtöner	1" 25 mm soft dome
Directivity horizontal x vertical in Deg° Abstrahlwinkel	90° x 90°
Speaker In Lautsprecher Eingang	Phoenix
Enclosure Gehäuse	MDF

Width Breite	9.44" 240 mm
Height Höhe	6.10" 155 mm
Depth without grill Tiefe	10.04" 255 mm
Weight Gewicht	9.92 lbs 4.5 kg
Finish Oberfläche	Black matt Schwarz matt
Custom colour options Farbvarianten	Piano lacquer (12 layers): colour of choice, matt or other finishes upon request, color of choice Echter Klavierlack (12 Schichten): Farbe nach Wahl, Mattlack: Farbe nach Wahl, weitere Oberflächen auf Anfrage
Shape customization Sondergröße	Upon request Auf Anfrage
Mounting Montage	Metal wall or ceiling mounting brackets that allows to angle the speaker further in two axes + 6 wall mount brackets, which allow to hang the speaker in multiple ways on the wall + VESA100 mounting points

All speakers are supplied with a front cover as standard |
Alle Lautsprecher werden mit Abdeckung ausgeliefert

THE **BLACK SWAN Be**
PRO-ACTIVE EXT



Speaker type	4" pure beryllium compression driver with proprietary elliptical horn and 1 x custom built 15" midwoofer
Principle	Vented
Passive Active	Active, 2Ch DSP + 2Ch amplifier are required
Recommended amplifiers	1 x low-mid amp channels with 85 Vrms, 120 Vpk, 10.6 A; high 44 Vrms, 62Vpk, 5.5 A; equivalent to 1 x LF 900W@8Ω, 1 x HF 240W@ 8Ω
SPL	Calculated data 129 dB cont. / 132 dB peak
Frequency range	Calculated data 55 Hz - 25 kHz
Woofer	Custom built 15"
Mid / High	4" pure Beryllium dome, with ultra high precision diaphragm centering system and BEM optimized 4-slot phaseplug design (horn)
Directivity horizontal x vertical in Deg°	90° x 45°
Output terminal horn	Neutrik Speakon
Input terminal horn	Neutrik Speakon
Input terminal woofer	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	35.43" 900 mm
Height	53.54" 1360 mm
Height with feet	54.53" 1385 mm
Depth with plug	22.83" 580 mm
Depth without grill	22.83" 580 mm
Weight	144.4 lbs 65.5 kg
Finish	Woofer unit: PU structural paint black, horn: black matte
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request

The Black SWAN Be woofer unit is supplied with a front cover as standard





Speaker type	4" pure beryllium compression driver with proprietary elliptical horn and 2 x custom built 15" midwoofer
Principle	Vented
Passive Active	Active, 3Ch DSP + 3Ch amplifier are required
Recommended amplifiers	2 x low-mid amp channels with 85 Vrms, 120 Vpk, 10.6 A; high 44 Vrms, 62Vpk, 5.5 A; equivalent to 2 x LF 900W@8Ω, 1 x HF 240W@ 8Ω
SPL	Calculated data 137 dB cont. / 140 dB peak
Frequency range	Calculated data 55 Hz - 25 kHz
Woofer	2 x Custom built 15"
Mid / High	4" pure Beryllium dome, with ultra high precision diaphragm centering system and BEM optimized 4-slot phaseplug design (horn)
Directivity horizontal x vertical in Deg°	90° x 45°
Output terminal horn	Neutrik Speakon
Input terminal horn	Neutrik Speakon
Input terminal woofer 1	Neutrik Speakon
Input terminal woofer 2	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	35.43" 900 mm
Height	53.54" 1360 mm
Height with feet	54.53" 1385 mm
Depth with plug	22.83" 580 mm
Depth without grill	22.83" 580 mm
Weight	252.43 lbs 114.5 kg
Finish	Woofer unit: PU structural paint black, horn: black matte
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request

The Black SWAN Be woofer unit is supplied with a front cover as standard



Speaker type	4" compression driver with proprietary elliptical horn and 1 x custom built 15" midwoofer
Principle	Vented
Passive Active	Active, 2Ch DSP + 2Ch amplifier are required
Recommended amplifiers	1 x low-mid amp channels with 85 Vrms, 120 Vpk, 10.6 A; high 44 Vrms, 62Vpk, 5.5 A; equivalent to 1x LF 900W@8Ω, 1 x HF 240W@ 8Ω
SPL	Calculated data 129 dB cont. / 132 dB peak
Frequency range	Calculated data 55 Hz - 25 kHz
Woofer	Custom built 15"
Mid / High	4" dome, with ultra high precision diaphragm centering system and BEM optimized 4-slot phaseplug design (horn)
Directivity horizontal x vertical in Deg°	90° x 45°
Output terminal horn	Neutrik Speakon
Input terminal horn	Neutrik Speakon
Input terminal woofer 1	Neutrik Speakon
Input terminal woofer 2	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	35.43" 900 mm
Height	53.54" 1360 mm
Height with feet	54.53" 1385 mm
Depth with plug	22.83" 580 mm
Depth without grill	22.83" 580 mm
Weight	144.4 lbs 65.5 kg
Finish	Woofer unit: PU structural paint black, horn: black matte
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request

The Black SWAN woofer unit is supplied with a front cover as standard



THE **BLACK SWAN**
PRO-ACTIVE EXT
REFERENCE CINEMA



Speaker type	4" compression driver with proprietary elliptical horn and 2 x custom built 15" midwoofer
Principle	Vented
Passive Active	Active, 3Ch DSP + 3Ch Amplifier are required
Recommended amplifiers	2 x low-mid amp channels with 85 Vrms, 120 Vpk, 10.6 A; high 44 Vrms, 62Vpk, 5.5 A; equivalent to 2 x LF 900W@8Ω, 1 x HF 240W@ 8Ω
SPL	Calculated data 137 dB cont. / 140 dB peak
Frequency range	Calculated data 55 Hz - 25 kHz
Woofer	2 x Custom built 15"
Mid / High	4" dome, with ultra high precision diaphragm centering system and BEM optimized 4-slot phaseplug design (horn)
Directivity horizontal x vertical in Deg°	90° x 45°
Output terminal horn	Neutrik Speakon
Input terminal horn	Neutrik Speakon
Input terminal woofer 1	Neutrik Speakon
Input terminal woofer 2	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	35.43" 900 mm
Height	53.54" 1360 mm
Height with feet	54.53" 1385 mm
Depth with plug	22.83" 580 mm
Depth without grill	22.83" 580 mm
Weight	252.43 lbs 114.5 kg
Finish	Woofer unit: PU structural paint black, horn: black matte
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request

The Black SWAN Be woofer unit is supplied with a front cover as standard



Technical modifications subject to change without further notice | Technische Änderungen vorbehalten

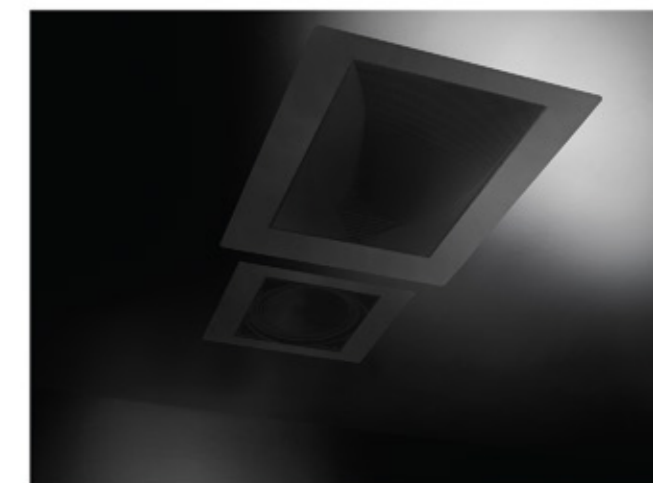
THE **DIRECTOR PRO**
ACTIVE EXT
FLUSH



Speaker type Loudspeaker	Asymmetrical Waveguide Design with 8" AMT and a single or double 10" mid woofer Asymmetrische Schallführung mit 200 mm AMT und einem oder zwei 254 mm Tiefmitteltöner
Passive Active	Active, 2Ch DSP + 2Ch Amplifier are required Aktiv, 2Ch DSP + 2Ch Verstärker werden benötigt
Recommended Amplifiers Empfohlene Verstärker	low-mid 71 Vrms, 100 Vpk, 8.9 A; high 62 Vrms, 88 Vpk, 3.9 A; equivalent to LF 630W@8Ω, HF 240W@ 16Ω
Recommended ASCENDO Amplifiers	DNA 2250.2
Enclosure type Prinzip	Vented Reflex
Peak output Spitzenleistung	127 dB peak / 1 x Director sub 130 dB peak / 2 x Director sub 105 dB peak / AMT Waveguide
Frequency Range Frequenzbereich	78 Hz - 21 kHz / -3 dB
Woofer Tieftöner	10" 254 mm
Tweeter Hochtöner	8" AMT
Speaker In Waveguide	Neutrik Speakon NL4
Speaker In Director Sub	Neutrik Speakon NL4
Enclosure Gehäuse	Internally braced birch ply and MDF Innenverstrebtes Birkensterrholz und MDF
Waveguide Width	17.25" 438.8 mm
Waveguide Height	8.81" 223.8 mm
Waveguide Depth	21.91" 556.5 mm
Waveguide Weight	23.15 lbs 10.5 kg

Director Sub Width	12.2" 310 mm
Director Sub Height	12.6" 320 mm
Director Sub Depth	13.39" 340 mm
Director Sub Weight	18.74 lbs 8.5 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Mounting Waveguide Montage Waveguide	2 x metal mounting brackets
Mounting Director Sub Montage Director Sub	2 x metal mounting brackets

Technical modifications subject to change without further notice | Technische Änderungen vorbehalten





SUBWOOFERS

ASCENDO subwoofers stands for extremely fast, controlled and abyssal bass response and offer the lowest distortion bass to reproduce the finest details with the highest dynamic range to meet the content transients without compression.

PERFORMANCE FEATURES

- absolute signal fidelity and breath taking realistic cinematic experiences through the AIA Speaker Management technology
- custom-built high-performance high-tech woofers for extremely fast, controlled and abyssal bass response
- extremely low distortion to reproduce the finest details with the highest dynamic range to meet the content transients without compression
- infrasonic subwoofers, that transmit even frequencies in the single-digit Hz range with high resolution
- **ASCENDO** speaker drivers feature no shortcuts in design of our motor and cone technology
- state-of-the-art digital amplifier electronics with up to 9.000 watts of stable power output and very low power consumption
- extreme dynamic range and extremely high maximum volume level (Reference Level)
- central networked real-time control of all systems
- Dante and AES67 (optional)
- individual room correction of each active - subwoofer unit
- wide range of active and passive subwoofers suitable for all room sizes and almost any budget.



SMS12-P
PASSIVE SUBWOOFER



Speaker type Loudspeaker	Custom-built 12" woofer, 10 cm voice coil, 32 mm linear excursion Spezial gefertigter 30 cm Treiber, 32 mm linearer Hub, 10 cm Schwingspule
Passive Active	Passive Passiv
Enclosure type Prinzip	Vented Reflex
SPL Schalldruck	118 dB cont. / 120 dB peak
Frequency Range Frequenzbereich	25 Hz - 200 Hz / -10 dB
Efficiency Wirkungsgrad	90 dB / 1W/m
Power handling Belastbarkeit	750 W
Impedance Impedanz	8 Ω
Air volume displacement Bewege Luft in Litern	0,82 L / in comparison 12" standard cinema subwoofer 0,4 L 0,82 L / zum Vergleich Standard 12" Kinobasswoofer 0,4 L
Directivity horizontal x vertical in Deg°	360°
Speaker In Lautsprecher- Eingang	Neutrik Speakon
Enclosure Gehäuse	Internally braced birch ply Innenverstrebt Birkenstammholz

Width Breite	19,68" 500 mm
Hight Höhe	31,50" 800 mm
Hight with feet Höhe	32,48" 825 mm
Depth with plug Tiefe mit Stecker	10,24" 260 mm
Depth without grill Tiefe ohne Abdeckung	10,24" 260 mm
Weight Gewicht	66,14 lbs 30,0 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Custom colour options Farbvarianten	Piano lacquer (12 layers): colour of choice, matt or other finishes upon request, color of choice Echter Klavierlack (12 Schichten): Farbe nach Wahl, Mattlack: Farbe nach Wahl, weitere Oberflächen auf Anfrage
Shape customization Sondergröße	Upon request Auf Anfrage
Mounting Montage	Floor standing with feet

All speakers are supplied with a front cover as standard |
Alle Lautsprecher werden mit Abdeckung ausgeliefert

THE 12 SUB
PRO-PASSIVE
SEALED SHALLOW



Speaker type	12" forward-firing, advanced carbon nomex pulp mix cones, neodymium motor with 4" ultra-high-temperature voice-coil and triple shorting rings.
Xmax	20 mm excursion each direction (40 mm linear), voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Passive
Recommended amplifiers	1 Ch DSP + amplifier are required. Min. recommended amplifier: 70 Vrms, 99 Vpk, 17,5 A; equivalent to 1200W@ 4Ω with correct RMS & Peak limiting & compression settings.
Recommended ASCENDO amplifiers	(With additional external 1CH DSP: AIA2-1404 bridged, AIA2-2704, AIA4-2404 bridged, AIA4-6004, AIA8-6004 bridged) DSP4-6K2, DSP4-10K2
Prinzip	Sealed
SPL	Calculated data 122 dB @ 100 Hz
Frequency range	Calculated data 44 Hz - 400 Hz / -3 dB 22 Hz - 400 Hz / -15 dB
Efficiency	88 dB / 1W/m
Power handling	1200 W
Impedance	4 Ω per woofer
Air volume displacement	1,02 L / in comparison 12" standard cinema subwoofer 0,4 L
Directivity horizontal x vertical in Deg°	360°
Input Terminal	One 4-conductor Phoenix 12 AWG (3,3 mm ²) push on binding post

Enclosure	Internally braced MDF
Width	17,22" 450 mm
Hight	23,62" 600 mm
Hight with feet	24,24" 615 mm
Depth without grille	8,27" 210 mm
Depth with grille	8,78" 223 mm
Weight	48,5 lbs 22 kg
Finish	Matte black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Floor standing with feet

All speakers are supplied with a front cover as standard



THE **15 SUB**
PRO-PASSIVE
SEALED



Speaker type	15" custom-built forward-firing woofer, 4" voice-coil, neodymium motor
Xmax	18mm excursion each direction (36 mm linear), voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Passive
Recommended amplifiers	1Ch DSP + 1 Amplifier are required. Recommended Amplifier: 70 Vrms, 99 Vpk, 17,5 A; equivalent to 1200W@4 Ohms with correct RMS & Peak limiting & compression settings.
Recommended ASCENDO amplifiers	(With additional external 1Ch DSP: AIA2-1404, AIA2-2704, AIA2-6004, AIA4-6004), DSP4-10K2
Principle	Sealed
SPL (Peak / half space 2 pi)	Measurement data 130 dB @ 63 Hz peak
Frequency range	Measurement data 55 Hz - 500 Hz / -3 dB 27 Hz - 500 Hz / -15 dB
Efficiency	93 dB / 1W/m
Power handling	1500 W
Impedance	8 Ω
Air volume displacement	1,4 L / in comparison 15" standard cinema subwoofer 0,62 L
Directivity horizontal x vertical in Deg°	360°
Input terminal	Neutrik Speakon

Enclosure	Internally braced birch ply and MDF
Width	16,73" 425 mm
Height	18,50" 470 mm
Height with feet	19,49" 495 mm
Depth without grill	18,11" 460 mm
Depth with plug	21,26" 540 mm
Weight	62,83 lbs 28,5 kg
Finish	PU structural paint
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Floor standing with feet

The 15 Sub PRO PS is supplied with a front cover as standard

THE **16 SUB**
ACTIVE
SEALED



Speaker type	16" forward-firing composite cone woofer, 3" voice coil
Xmax	20 mm excursion each direction (40 mm linear), voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Active, Amplifier (Class D)
Principle	SEALED
SPL (Peak / half space 2pi)	Measurement Data 125 dB
Frequency range	Measurement Data CEA2010B 20 Hz - 150 Hz
Directivity horizontal x vertical in Deg°	360°
Output power	1000 W
Power voltage range	110 V or 220 V / switchable
Input sensitivity: RCA	100 mV / 22 KΩ
Input sensitivity: XLR balanced	150 mV / 47KΩ
LFE input	1 x XLR balanced, full range, no crossover applied
Line level input	2 x RCA summing / unbalanced
LFE output	1 x XLR balanced
Line level output	2 x RCA / unbalanced
Features	LP crossover 50 Hz to 150 Hz variable, phase 0° - 180°, volume control, auto turn on/off
Protection features	Thermal protection

Enclosure	Internally braced medium density fiber-board (MDF)
Width	20,47" 520 mm
Height	18,50" 470 mm
Height with feet	19,09" 485 mm
Depth without grille	16,54" 420 mm
Depth with plug	18,90" 480 mm
Weight	102,51 lbs 46,5 kg
Grille	Black acoustic fabric
Finish	Black ash
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Floor standing with feet

The THE16 SUB ACTIVE SEALED is supplied with a front cover as standard



THE 18 SUB PRO-PASSIVE SEALED SHALLOW



Speaker type	18" forward-firing, advanced carbon rohacell composite sandwich cones, neodymium motor with 4" ultra-high-temperature Voice-coil
Xmax	23 mm excursion each direction (46 mm linear), voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Passive
Recommended amplifiers	1Ch DSP + Amplifier are required. Min. recommended amplifier: 89 Vrms, 126 Vpk, 22.5 A; equivalent to 2000W@4Ω, with correct RMS & Peak limiting & compression settings
Recommended ASCENDO amplifiers	(With additional external 1CH DSP: AIA2-6004), DSP4-10K2
Prinziple	Sealed
SPL peak	Measurement Data 130 dB @60 Hz and up 117 dB @24 Hz
Frequency range	Measurement Data (without ext. DSP) 38 Hz - 400 Hz / -3 dB 24 Hz - 400 Hz / -15 dB
Efficiency	87 dB/ 1W/m 4 pi and 93dB/ 1W/m 2 pi
Power handling	2500 W
Impedance	4 Ω
Air volume displacement	2.66 L / in comparison 18" standard cinema subwoofer 1.1 L
Directivity horizontal x vertical in Deg°	360°
Input Terminal	One 4-conductor Phoenix 12 AWG (3.3 mm ²) push on binding post

Enclosure	Internally braced birch ply
Width	21.14" 537 mm
Height	26.65" 677 mm
Height with feet	27.24" 692 mm
Depth without grille	10.43" 265 mm
Depth with plug	10.43" 265 mm
Weight	79.37 lbs 36 kg
Finish	Satin matte black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Floor standing with feet

The 18 SUB PRO PS SH is supplied with a front cover as standard



THE 18-2 SUB PRO-PASSIVE SEALED SHALLOW



Speaker type	2 x 18" forward-firing, advanced carbon rohacell composite sandwich cones, neodymium motor with 4" ultra-high-temperature Voice-coil
Xmax	23 mm excursion each direction (46 mm linear), voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Passive
Recommended amplifiers	1Ch DSP + 1 or 2Ch Amplifier are required. Min. recommended amplifier: 89 Vrms, 126 Vpk, 45 A; equivalent to 4000W@4Ω, with correct RMS & Peak limiting & compression settings
Recommended ASCENDO amplifiers	(With additional external 1CH DSP: AIA2-6004), DSP4-6K2, DSP4-10K2
Prinziple	Sealed
SPL	Calculated data 139 dB @ 63 Hz peak
Frequency range	Calculated data 33 Hz - 400 Hz / -3 dB 22 Hz - 400 Hz / -15 dB
Efficiency	88 dB / 1W/m, 94 dB / 1W/m system
Power handling	5000 W
Impedance	4 Ω per woofer
Air volume displacement	5.32 L / in comparison 18" standard cinema subwoofer 1.1 L
Directivity horizontal x vertical in Deg°	360°
Input terminal	One 4-conductor Phoenix 12 AWG (3.3 mm ²) push on binding post

Enclosure	Internally braced birch ply
Width	23.62" 600 mm
Height	47.24" 1200 mm
Height with feet	47.83" 1215 mm
Depth without grill	10.43" 265 mm
Depth with plug	10.43" 265 mm
Weight	147.71 lbs 67 kg
Finish	Matte black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Floor standing with feet

All speakers are supplied with a front cover as standard





Speaker type Loudspeaker	Custom built 18" woofer, dual gap motor structure with 2 inner and 2 outer voice coils, with AIA Speaker Management Technology Spezial gefertigter 18" Treiber, Doppelspalt Motorstruktur mit 4 Schwingspulen und AIA Speaker Management Technologie
Passive Active	Passive Passiv
Amplifier Verstärker	Powerful DSP Amplifier is needed Leistungsstarker DSP und Verstärker wird benötigt
Enclosure type Prinzip	Sealed Geschlossen
Cont./peak output Dauer-/Spitzenleistung	127 dB cont. / 130 dB peak
Frequency Range Frequenzbereich	18Hz - 200Hz / -10dB
Efficiency Wirkungsgrad	94dB / 1W/m
Power handling Belastbarkeit	4000 W
Impedance Impedanz	4 Ω
Air volume displacement Bewege Luft in Litern	2,2 L / in comparison 18" standard cinema subwoofer 1,1 L 2,2 L / zum Vergleich Standard 18" Kinosubwoofer 1,1 L
Directivity horizontal x vertical in Deg° Abstrahlwinkel	360°
Speaker In Lautsprecher Eingang	Neutrik Speakon

Width Breite	20,87 " 530 mm
Hight Höhe	43,31 " 1100 mm
Hight with feet	44,29 " 1125 mm
Depth without grill Tiefe	14,96 " 380 mm
Depth with plug Tiefe	14,96 " 380 mm
Weight Gewicht	110 lbs 50 kg
Finish Oberfläche	PU structural paint Robuster Strukturlack schwarz
Custom colour options Farbvarianten	Piano lacquer (12 layers): colour of choice, matt or other finishes upon request, color of choice Echter Klavierlack (12 Schichten): Farbe nach Wahl, Mattlack: Farbe nach Wahl, weitere Oberflächen auf Anfrage
Shape customization Sondergröße	Upon request Auf Anfrage
Mounting Montage	Floor standing with feet

All speakers are supplied with a front cover as standard | Alle Lautsprecher werden mit Abdeckung ausgeliefert

Speaker type	21" forward-firing, dual gap motor structure with 2 inner and 2 outer voice coils, neodymium motor.
Xmax	18 mm excursion each direction (36 mm linear), voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Active, built in DSP Amplifier
Prinzip	Sealed
SPL (peak / half space 2 pi)	Measurement Data 139 dB @63 Hz
Frequency range	Measurement data (without DSP) 55 Hz - 500 Hz / -3 dB 28 Hz - 500 Hz / -15 dB
Air volume displacement	2,88 L / in comparison 21" standard cinema subwoofer 1,76 L
Directivity horizontal x vertical in Deg°	360°
Output power	3.000 W
Power voltage range	85 V - 265 V
Input sensivity, balanced input impedance	2.7V (with gain 32dB), 10k
Damping factor (20-500 Hz @8Ω)	> 400
Converter	High Performance 96kHz/24 bits AD/DA converters, 64 bit double-precision 96kHz DSP process
Input IIR EQ section	Gain, Mute, Phase inversion, Delay (up to 116ms, 40m), 10 EQ filters (Parametric, Shelving, LP, HP, BP, SB, AP)
Analog Input Amplifier	1 x XLR balanced
Analog Output Amplifier	1 x XLR balanced
Power connector	Neutrik powerCON True 1 in-out

Protection features	Turn-on transients, Over-heating, DC, RF, Short-circuit, mismatched loads, ICL™, PM5™
Automatic power off	Trigger
Network Switch	2ports Ethernet switch for daisy chain
Controlling	OCS software control
Enclosure	Internally braced birch ply and MDF
Width	23,62 " 600 mm
Hight	43,31 " 1100 mm
Hight with feet	44,29 " 1125 mm
Depth	14,57 " 370 mm
Depth with plug	14,96 " 380 mm
Weight	125,66 lbs 57 kg
Finish	Structural paint black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Floor standing with feet

The21 SUB PRO AS is supplied with a front cover as standard



THE **24 SUB**
PRO-PASSIVE
SEALED



Speaker type	24" forward-firing woofer, with dual 5" voice coil
Xmax	45 mm excursion each direction (90 mm linear), voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Passive
Recommended amplifiers	1Ch DSP + 2 Amp. channels are required. Min. recommended amplifiers: 2 x 99 Vrms, 140 Vpk, 25 A; equivalent to 2500W@4Ω per channel, total 5000W with correct RMS & Peak limiting & compression settings.
Recommended ASCENDO amplifiers	DSP4-10K2
Principle	Sealed
SPL peak	Measurement data 134 dB @40 Hz 120 dB @20 Hz 104 dB @10 Hz
Frequency range	Measurement data (without ext. DSP) 28 Hz - 500 Hz / -3 dB 20 Hz - 500 Hz / -15 dB
Efficiency	90 dB / 1W/m
Power handling	2 x 2500 W
Impedance	Dual voice coil, 4 Ω each
Air volume displacement	9.9 L / in comparison 18" standard cinema subwoofer 1,1 L
Directivity horizontal x vertical in Deg°	360°
Input Terminal	Neutrik

Enclosure	Internally braced birch ply and MDF
Width	29.53" 750 mm
Height	43.31" 1100 mm
Height with feet	44.29" 1125 mm
Depth	19.69" 500 mm
Depth with plug	19.69" 500 mm
Weight	255.74 lbs 116 kg
Finish	Structural paint black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Floor standing with feet

Technical modifications subject to change without further notice | Technische Änderungen vorbehalten

THE **32 SUB**
PRO-PASSIVE
SEALED



Speaker type	32" forward-firing woofer, with dual 6.5" voice coil
Xmax	45 mm excursion each direction (90 mm linear), voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Passive
Recommended amplifiers	1Ch DSP + 2 Amp. channels are required. Min. recommended amplifiers: 2 x 109 Vrms, 154 Vpk, 27.3 A; equivalent to 3000W@4Ω per channel, total 6000W with correct RMS & Peak limiting & compression
Recommended ASCENDO amplifiers	DSP4-10K2, DSP4-20K2
Principle	Sealed
SPL peak	Measurement Data 140 dB @32 Hz and up 125 dB @20 Hz 109 dB @10 Hz
Frequency range	Measurement Data (without ext. DSP) 28 Hz - 500 Hz / -3 dB 20 Hz - 500 Hz / -15 dB
Efficiency	92 dB/ 1W/m 4 pi and 98 dB/ 1W/m 2 pi
Power handling	2 x 3000 W up to 2 x 10kW peak
Impedance	Dual voice coil, 4 Ω each
Air volume displacement	16.6 L / in comparison 18" standard cinema subwoofer 1,1 L
Directivity horizontal x vertical in Deg°	360°
Input Terminal	Neutrik

Enclosure	Internally braced birch ply and MDF
Width	37.40" 950 mm
Height	47.24" 1200 mm
Height with feet	48.23" 1225 mm
Depth	21.65" 550 mm
Depth with plug	21.65" 550 mm
Weight	339.51 lbs 154 kg
Finish	Structural paint black
Custom colour options	Piano lacquer, colour of choice, matt or other finishes upon request
Shape customization	Upon request
Mounting	Floor standing with feet

Technical modifications subject to change without further notice | Technische Änderungen vorbehalten

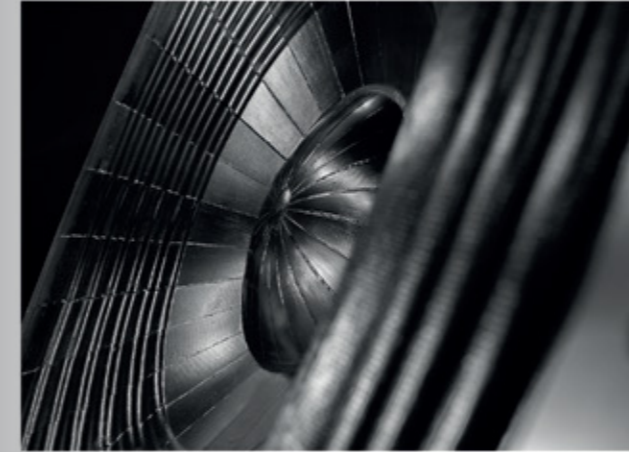
THE 50 SUB
PRO-PASSIVE
SEALED



Speaker type Loudspeaker	Custom-built 50" woofer with dual 13,5" voice coil
Xmax	35 mm excursion each direction, voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Passive, rack mount 2 x 10.000 Watt AES67 DSP/Amplifier included
Principle	Sealed
SPL	Calculated data example, custom enclosure dependent 136 dB cont. / 140 dB peak 125 dB @20 Hz 105 dB @5 Hz
Frequency Range	Calculated data example, custom enclosure dependent 5 Hz - 100 Hz
Efficiency	101 dB / 1W/m
Power handling	20.000 W
Impedance	Dual voice coil, 4 Ω each
Air volume displacement	47,2 L / in comparison 21" standard cinema subwoofer 1,76 L 172 L
Dimension	Complete custom design of enclosure for desired installation, for dealer/contractor build locally, minimum 2 m³
Weight 80" Woofer	360 lbs 163 kg

Technical modifications subject to change without further notice | Technische Änderungen vorbehalten

THE 80 SUB
PRO-PASSIVE
SEALED



Speaker type Loudspeaker	Custom-built 80" woofer with dual 21" voice coil
Xmax	35 mm excursion each direction, voice coil remaining in homogeneous magnetic field, linear and lowest distortion
Passive Active	Passive, rack mount 2 x 5000 Watt AES67 DSP/Amplifier included
Principle	Sealed
SPL	Calculated data example, custom enclosure dependent 145 dB cont. / 148 dB peak 138 dB @ 20 Hz 114 dB @ 5 Hz
Frequency Range	Calculated data example, custom enclosure dependent 1 Hz - 100 Hz
Efficiency	105 dB / 1W/m
Power handling	20.000 W
Impedance Impedanz	Dual voice coil, 8 Ω each
Air volume displacement Bewege Luft in Litern	172 L / in comparison 21" standard cinema subwoofer 1,76 L 172 L / zum Vergleich Standard 21" Kinosubwoofer 1,76 L
Dimension	Complete custom design of enclosure for desired installation, for dealer/contractor build locally, minimum 10 m³
Weight 80" Woofer	573 lbs 260 kg

Technical modifications subject to change without further notice | Technische Änderungen vorbehalten

AMPLIFIERS

ASCENDO partners with leading amplifier and DSP vendors around the world in delivering a range of options best suited for the specific requirements of an application.

YOU WILL FIND IN THIS MIX:

- High channel density models with some of the most versatile DSP capability and incredibly efficient power supplies available for distributed music and multi-way active speaker installations.
- Extremely high output models for use with our subwoofers and infrasonic subwoofers - critically, high power that is sustained for longer than many professional amps are designed for - we design for home theatre, and the demands are different
- A range of models without DSP capability, used primarily with our passive speakers. These models deliver more output per channel than many alternatives. We're fans of plenty of headroom, keeping distortion low and the result dynamic and effortless.



AMPLIFIERS: AIA SERIES & DSP SERIES

This powerful amplifier range from ASCENDO features state-of-the-art amplification technology, utilizing a very efficient and green design, without diminishing the quality of sound and dynamics that ASCENDO amplifiers are known for. This new generation of power supplies use Power Factor Correction (PFC) to improve efficiency, with the design also featuring high-efficiency audio modules in class D, and a very high capacity for instantaneous power.

- Ultra-compact and lightweight 2-U high
- Temperature controlled, front to back cooling fan, upside-down design to avoid fan dust accumulation
- Temperature and signal dependent, intelligent cooling system for minimal noise
- Highly oversized thermal dissipation design for maximum reliability
- Detented sealed potentiometers for easy recall of volume settings
- Protections include Soft-start, Turn-on Turn-off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads. ICL clip-limiters
- 70V/100V Line Direct/Drive Output
- Neutrik® XLR and Speakon® connectors, see models with DANTE input option
- No 12V trigger included. External 12V



AIA SERIES

This range does not include DSP. These models are intended for use with ASCENDO passive speaker models:

AIA-Series	AIA 2-1404	AIA 2-2704	AIA 2-6004	AIA 4-2404	AIA 4-6004	AIA 8-2704	AIA 8-6004
DSP Channels	0	0	0	0	0	0	0
Channels	2	2	2	4	4	8	8
Output Power 230V @4Ω	2 x 700 W	2 x 1.350 W	2 x 3.000 W	4 x 610 W	4 x 1.500 W	8 x 340 W	8 x 750 W
Output Power 230V @8Ω	2 x 375 W	2 x 900 W	2 x 1.500 W	4 x 350 W	4 x 800 W	8 x 225 W	8 x 400 W
Bridged: Output Power 230V @8Ω	1 x 1.400 W			2 x 1.220 W		4 x 680 W	4 x 1.500 W
Required AC Mains VAC (50Hz-60Hz)	170-265 90-140 (opt.)	170-265 90-140 (opt.)	90-265	170-265 90-140 (opt.)	90-265	170-265 90-140(opt.)	90-265
Power On Idling (@230V)	0,5A	0,5A	0-5A	0,5A	0,5A	0,5A	0,5A
1/8 Rated Power (@230V, 4Ω)	1,8A	4A	4,5A	3,2A	4,5A	4A	4,5A
W x H x D (mm)	483 x 89 x 321	483 x 89 x 321	483 x 89 x 321	483 x 89 x 416	483 x 89 x 416	483 x 89 x 416	483 x 89 x 416
W x H x D (inch)	19 x 3,5 x 12,64	19 x 3,5 x 12,64	19 x 3,5 x 12,64	19 x 3,5 x 16,38	19 x 3,5 x 16,38	19 x 3,5 x 16,38	19 x 3,5 x 16,38
Weight (kg)	5	5	6	5	7,5	7,5	8
Weight (lbs)	11	11	13,2	11	16,5	16,5	17,6
Speaker Output	Neutrik	Neutrik	Neutrik	Neutrik	Neutrik	Neutrik	Neutrik
Input	XLR	XLR	XLR	XLR	XLR	XLR	XLR
Input Optional				DANTE AES67	DANTE AES67	DANTE AES67	DANTE AES67
Voltage Gain	32 dB	32 dB	32 dB	32 dB	32 dB	32 dB	32 dB
Sensitivity	1,4V	2,1V	2,8V	1,3V	2V	1,1V	1,4V
Signal-to-Noise Ratio	101 dBA	103 dBA	104 dBA	105 dBA	101 dBA	104 dBA	104 dBA
Frequency Response	20Hz - 20kHz						
Total Harmonic Distortion	<0,05%						
Intermodulation Distortion	<0,05%						
Damping Factor	>400						
Crosstalk 20Hz-1kHz	>75dB						
Protections	Soft-start, Turn-on Turn-off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, ICL™, PMS™						
Technical modifications subjects to change without further notice							



DSP SERIES

These models include DSP and are intended for use with ASCENDO passive subwoofer models:

DSP-Series (New)	DSP4-10K2 MKII	DSP4-20K2
DSP Channels	4	4
Channels	4	4
Total Output Power	10.000W	20.000W
Output Power 230V @2Ω	4 x 2.500W	4 x 5.000W
Output Power 230V @4Ω	4 x 2.500W	4 x 5.000W
Output Power 230V @8Ω	4 x 1.205W	4 x 2.500W
Bridged: Output Power 230V @4Ω	2 x 5.000W	2 x 10.000W
Max output voltage	150 V _{peak}	235 V _{peak}
Max output current	50 A _{peak}	71 A _{peak}
Required AC Mains Operating Voltage (50Hz-60Hz) 1/8 Rated Power (@230V, 4Ω)	90V-265V AC 7,3A	90V-265V AC 14A
W x H x D (mm)	483 x 89 x 335	483 x 89 x 335
W x H x D (inch)	19x3,5 x 14	19x3,5 x 14
Weight (kg)	7	9
Weight (lbs)	15,4	19,8
Converter	High Performance 96kHz/24 bits AD/DA converters, 64 bit double-precision 96 kHz DSP process	
Process latency time	0,85 ms minimum	
Input IR EQ section (4x)	Gain, Mute, Phase inversion, Delay (up to 333ms, 114m), 16 EQfilters (Parametric, Shelving LP, HP, BP, SB, AP)	
Output IIR EQ section (4x)	Crossover Filters: (up to 48dB/oct, Butterw./LR/Bessel), 20 filters per channel (Param., Shel, LP, HP, BP, SB, AP) or Custom, Up to 1000 taps	
Output FIR EQ section (4x)	Crossover Filters: (up to 48dB/oct, Butterw./LR/Besel), 20 Filters per channel (Param., Shel, LP, HP, BP, SB, AP) or Custom. Up to 1000 taps	
Output Delay	Output Delay: 0 to 31 meters (90ms) per channel	
Output Limiter	RMS and Peak limiter per channel	
Network Switch	2ports Ethernet switch for daisy chain connection	
Controlling	Software via Ethernet or USB	
Speaker Output	Neutrik	
Input	XLR	
Input Optional	Dante AES67	
Voltage Gain	26 dB to 44 dB (1 dB Step)	
Signal-to-Noise Ratio	111 dBA	115 dBA
Total Harmonic Distortion	<0,05%	
Crosstalk 20Hz-1kHz, typical	>70dB	
Protections	Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, ICL™, PMS™	
Technical modifications subjects to change without further notice		

GAN SERIES

The GAN Series is ASCENDO's comprehensive series of multichannel amplifiers for high-performance audio applications in markets where high channel count is required. Energy conservation is a major design goal for this range of products, which directly impacts CO2 emissions.

The power amplifiers are cutting edge multi-channel devices combining FPGA-based signal processing with advanced Class D power stages and universal power supply for global use.

The use of a Power Factor Correction (PFC) results in a sinusoidal current consumption from the mains. The reduced mains harmonics no longer burden the power grid. Another effect is a much-improved power delivery from unstable mains.

These amplifiers diagnose themselves and provide information about channel and device status. The output current of all channels is measured and feed to a 20kHz detector. By using a pilot tone via the internal generator, the connection and voice coil of the speakers can be monitored. Inputs are DANTE AES67, and outputs are Phoenix connections.

Their DSP sections:

- Adjustable limiter options. Limit the channel by current, voltage or power.
- FIR Filters are included to equalize the speakers or the acoustics of your listening room to a phase linear response. (Unlike IIR-Filters, you have the choice to adjust the phase response of the system.)
- To achieve simple and easy-to-use filtering, we also offer 32 IIR Filters per channel. These filters can be used to build crossovers and equalize the system.
- To adjust the time shift in your speaker system or the acoustic circumstances, every channel can be delayed up to 48000 samples, allowing more than 1 sec of delay time (approximately 330m of physical offset).
- Build read and write protected presets for specific speakers. Import, export and share them.

Extensive web-based user-interface:

- Control your ASCENDO GAN device with the shipped software. NO installation required.
- Use the overview page to watch and control every channel state.
- Create mute groups to mute multiple channels at once.
- Manage the input patching. Patch multiple inputs on each channel.
- Control device configurations, from network up to fan speed settings.
- Monitor channel events, peaks, level and more.
- Save, load, modify and import or export channel and device presets.
- Control the device from everywhere within the device network.
- Discover all GAN devices in the network, even across subnet boundaries.
- Configure network settings for each device.
- Identify individual devices and assign meaningful names.
- Easy firmware updater for multiple devices.
- Firmware manager which keeps you up to date.

Software integration:

- ASCENDO GAN devices provide an interface based on the REST standard to programmatically access and control all their settings and features. To simplify integration, an OPEN API documentation is provided which can be found on the devices webpage or on Github.
- Partnership: We offer planning and implementation of automation solutions with LOXONE hard- and software. Integrate GAN devices seamlessly into a LOXONE environment. Control power, volume, mute, preset changes and many more settings.

GAN-Series	GAN16/ 16-4504	GAN32/ 16-4504	GAN24/ 24-6704	GAN32/ 24-6704	GAN24/ 24-6704 ²	GAN32/ 24-6704 ²	GAN32/ 32-6704	GAN32/ 32-6704 ²
DSP Channels	16	32	24	32	24	32	32	32
Channels	16	16	24	24	24	24	32	32
Output Power 230V @4Ω	16 x 280 W	16 x 280 W	24 x 280 W	24 x 280 W	24 x 280 W	32 x 280 W	32 x 280 W	32 x 280 W
Output Power 230V @8Ω	16 x 140 W	16 x 140 W	24 x 140 W	24 x 140 W	4 x 140 W	24 x 140 W	32 x 140 W	32 x 140 W
Bridged: Output Power 230V @8Ω	8 x 500 W	8 x 500 W	12 x 500 W	12 x 500 W	12 x 500 W	12 x 500 W	16 x 500 W	16 x 500 W
W x H x D (mm)	483x87,5x421	483x87,5x421	483x87,5x421	483x87,5x421	483x132,6x431	483x132,6x431	483x87,5x421	483x132,6x431
W x H x D (inch)	19x3,5x16,6	19x3,5x16,6	19x3,5x16,6	19x3,5x16,6	19x5,2x17	19x5,2x17	19x3,5x16,6	19x5,2x17
Weight (kg)	11,2	11,2	12,9	12,9	17,5	17,5	13,4	18
Weight (lbs)	24,59	24,69	28,44	28,44	38,58	38,58	29,54	39,68
Speaker Output	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix
Input	16 x input matrix per channel (Dante AE67 / MADI)	32 x input matrix per channel (Dante AE67 / MADI)	24 x input matrix per channel (Dante AE67 / MADI)	32 x input matrix per channel (Dante AE67 / MADI)	24 x input matrix per channel (Dante AE67 / MADI)	32 x input matrix per channel (Dante AE67 / MADI)	32 x input matrix per channel (Dante AE67 / MADI)	32 x input matrix per channel (Dante AE67 / MADI)
Filter per channel	32 x EQ / Highpass / Lowpass / bell, notch, highshelf, lowshelf, 6-48 dB / Oct. Besser, Butterworth, Linkwitz / Riley, Variable Q							
FIR Filter	2047 Tabs, ACII file import							
Delay	48000 Samples / 330 m / 1000 ms per channel							
THD+N @ 4Ω	1W < 0,05% / 10W < 0,05% / 280W < 1% / 300W < 2%							
Analog Gain	Software Adjustable, 0dBFS on any Input Interface → 20Vp - 60Vp (default: 60Vp)							
Protection	Overtemperature / DC / Overcurrent							
Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)	Universal, regulated switch mode with PFC (Power Factor Correction)	Universal, regulated switch mode with PFC (Power Factor Correction)	Universal, regulated switch mode with PFC (Power Factor Correction)	Two Universal, regulated switch mode with PFC (Power Factor Correction)	Two Universal, regulated switch mode with PFC (Power Factor Correction)	Universal, regulated switch mode with PFC (Power Factor Correction)	Two Universal, regulated switch mode with PFC (Power Factor Correction)
Required AC Mains VAC (50Hz-60Hz)	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264	90 - 264
Inrush current	50A max.	50A max.	50A max.	50A max.	60A max.	60A max.	50A max.	60A max.
Amps power off @ 230V	31 kcal/h - 123 BTU/h		31 kcal/h - 123 BTU/h			31 kcal/h - 123 BTU/h		
Idle @ 230V	58 kcl/h - 230 BTU/h		71 kcl/h - 282 BTU/h			84 kcl/h - 333 BTU/h		
1/8 power @ 4Ω @ 230V	150 kcl/h - 595 BTU/h		210 kcl/h - 833 BTU/h			269 kcl/h - 1066 BTU/h		
Amps power off @ 110V	31 kcl/h - 123 BTU/h		31 kcl/h - 123 BTU/h			31 kcl/h - 123 BTU/h		
Idle @ 110V	58 kcl/h - 230 BTU/h		72 kcl/h - 286 BTU/h			88 kcl/h - 349 BTU/h		
1/8 power @ 4Ω @ 110V	152 kcl/h - 603 BTU/h		212 kcl/h - 840 BTU/h			270 kcl/h - 1071 BTU/h		

Technical modifications subjects to change without further notice







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