

CATALOG 2009

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C O D A A U D I O



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Coda Audio
Boulevard der EU 6
30539 Hannover, Expo Park
Germany
Phone: +49 (0)511- 866 558 88
Fax: +49 (0)511- 866 558 87
E-Mail: contact@codaaudio.com
Website: www.codaaudio.com

Coda Audio - European designer and manufacturer of high quality speaker systems

Coda Audio is a leading designer and manufacturer of the highest quality pro-audio loudspeaker systems. We believe that developing a good loudspeaker system starts with designing the correct drivers. Due to our unique, patented driver design, Coda Audio loudspeaker systems are extremely transparent and detailed, providing outstanding dynamic results. Coda Audio's advanced transducer technology offers significant advantage over conventional drivers in precision and reliability. Almost all critical parts of the cabinets and the drivers are produced in Europe, in our own factories, to ensure exacting and extensive control of all results. Voice coil winding, diaphragm forming, CNC machining is all undertaken internally by highly qualified professionals.

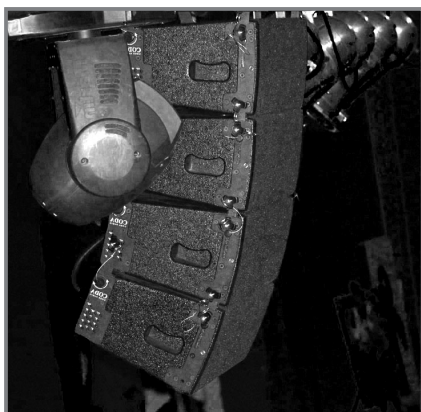
Durability and reliability are most important in all professional applications. Rugged construction, featuring Baltic birch plywood for the cabinets and a very intensive testing process ensure reliability and consistency. The fact that our entire manufacturing process takes place in our own factories has produced a substantial reduction in cost and a high degree of flexibility and efficiency. The wide product range is designed to offer excellent quality solutions which are able to satisfy the most discerning and complex of professional sound reinforcement applications. Coda Audio is represented via a global network of international distributors.

We believe that the best way to get to know us better is by listening to our loudspeakers because:

HEARING IS BELIEVING



Coda LA8, Harvest Festival Taiwan



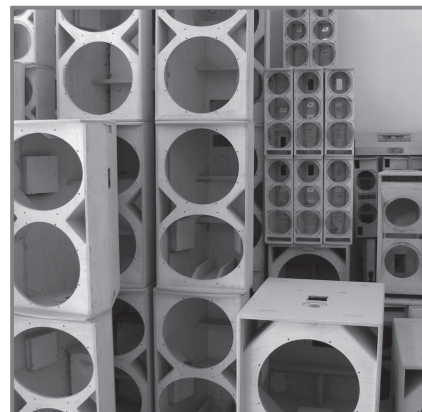
Coda LA8, Aids Gala Bonn, Germany



Coda LA8, Wacken Festival Germany

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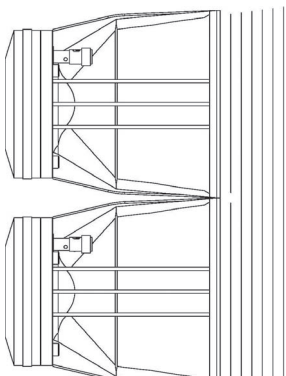
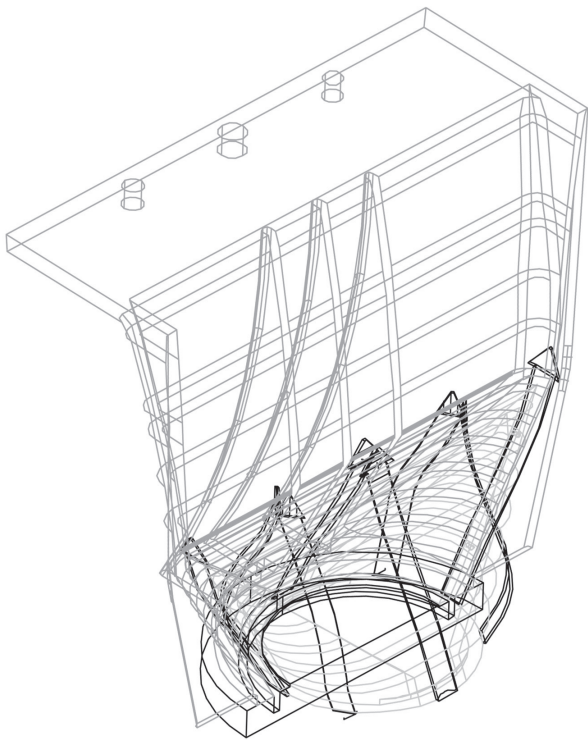
AIRLINE Line array systems

AIRLINE LA-series

Introduction:

The heart of the Coda Audio AIRLINE Line Arrays is the Coda Audio 4" planar wave driver. The driver contains a high energy neodymium magnet system and a unique annular ring diaphragm. The ring diaphragm works similarly to a wound 140 mm long ribbon diaphragm providing linear frequency response up to 20 kHz.

This unique driver technology radiates a coherent planar wave front from a rectangular piston without internal diffraction for superior dispersion control and high fidelity sound.



The advanced design of the planar wave driver allows perfect acoustical coupling of individual units to create a virtually continuous line source.



touring + installation

AIRLINE LA12

- Three Coda Audio 4" neodymium planar wave drivers (patent pending)
- Four Coda Audio 3.5" coil neodymium mid range drivers
- Twin Coda Audio 12" neodymium ultra low distortion woofers
- 100° horizontal coverage
- Variable curving 0° - 8°
- Outstanding SPL capability at very low power compression
- Highest output to size ratio
- Highest output to weight ratio
- Superior sound
- Integrated rigging system for flown or ground-stacked arrays

The **AIRLINE LA12** is a 3-way symmetrical high output line array module, designed for large venues where high fidelity sound and outstanding intelligibility is required.

STATE-OF-THE-ART DRIVERS

Low: The cabinet contains two 12" neodymium ultra low distortion cone drivers covering the 50 Hz - 400 Hz range. The double 12" long excursion drivers contain high flux linear motors with triple demodulation rings for ultra low distortion and increased power handling.

Mid: Our goal was to generate very high resolution and high dynamic range. To achieve this we developed a special transducer which works in the mid range as a pure piston without the breaking up modes typical for direct radiating small cone drivers. Another aim was to increase the sensitivity and get outstanding headroom in the very important middle range. The **AIRLINE LA12** contains four 3.5" voice coil neodymium mid range drivers with unique ring diaphragms covering the 350 Hz - 1700 Hz range. Loaded to advanced hyperbolic lenses they achieve very high sensitivity of 116 dB 1 W / 1 m above 300 Hz. This means that the drivers need less power to produce enormous high spl and work almost at less than 10% of their nominal power handling. Therefore the ability to reproduce peaks is unique and is practically only limited by the electronics. This patented design is a result of extensive dedicated research and development resulting in near zero power compression, dramatic improvement in dynamic response, clarity and transparency.

High: The three 4" HF planar wave drivers contain unique annular ring diaphragms to radiate a coherent planar wavefront without internal diffraction. This distinctive technology allows perfect acoustical coupling for superior dispersion control and high fidelity sound.

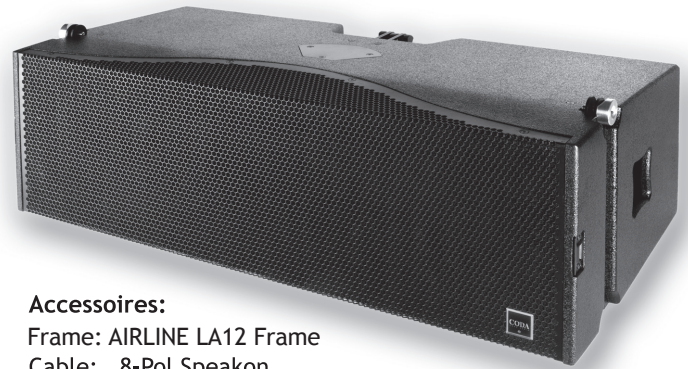
Coherent wavefront

The tri-axial V-arrangement of the low, mid and high frequency drivers ensures coherent coupling between all components. The high frequency planar wave drivers are mounted in the middle, close to the mid-range hyperbolic lenses. The twin 12" drivers are optimally placed to provide a constant horizontal directivity above 200 Hz.

This arrangement combines the energy produced from all 9 transducers to perform as a single source achieving a coherent and uniform wavefront.

Application:

The modules are designed to be used in multiples with a minimal configuration of four. Up to 24 units can be arrayed to achieve extreme high levels needed for the largest



Accessoires:

Frame: **AIRLINE LA12 Frame**
Cable: **8-Pol Speakon**
Dolly

venues. An optional SC8 subwoofer can be added for increased low frequency response.

The integrated rigging system allows quick and easy flying or ground stacking. Arrays may be built straight or curved in various angles to obtain the desired vertical coverage. The Coda EASE Focus simulation software allows you to calculate the perfect setup for every application.

Designed for large scale touring and installation applications the **AIRLINE LA12** is perfectly suited for open air, stadiums and large theatres where outstanding output capability and low power compression are needed.

Applications include sports venues, stadiums, large theatres and large houses of worship, touring and open air festivals.

System Components:

SC8 Subwoofer, DNC260, DC426, Coda C45 or Camco V8

TECHNICAL SPECIFICATIONS (single enclosure):

Type:	3-way high output line array module
Application:	Minimal 4, maximal 24 units line array
Frequency response:	50 Hz - 20 kHz (-3dB)
Power handling:	
Low AES/Peak:	2000 / 8000 W
Mid AES/Peak:	600 / 6000 W
High AES/Peak:	240 / 2400 W
Sensitivity Low 1 W / 1 m:	98 dB
Sensitivity Mid 1 W / 1 m:	116 dB
Sensitivity High 1 W / 1 m:	118 dB
Max. SPL peak Low:	137 dB
Max. SPL peak Mid:	153 dB
Max. SPL peak High:	152 dB
Dispersion Horizontal:	100°
Vertical:	Array dependent, 0° - 8° in 1° steps
Components:	
Low frequency:	2 x 12" neodymium woofers 4" voice coil, 1000 W (AES) each
Mid frequency:	4 x 2" neodymium drivers 3.5" voice coil, 150 W (AES) each
High frequency:	3 x 4" neodymium planar wave drivers 1.75" voice coil, 80 W (AES) each
Crossover point:	350 Hz, 1.600 Hz active
Input connectors:	Neutrik™ NL8MPR-BAG
Patch cable:	Included
Nominal impedance:	LF1: 16 Ohm (+1 / -1) LF2: 16 Ohm (+2 / -2) MF: 16 Ohm (+3 / -3) HF: 24 Ohm (+4 / -4)
Enclosure shape:	Horizontal trapezoid 2 x 4°
Enclosure material:	Baltic birch plywood
Finish:	Black textured Paint
Flying Hardware:	Included
Dimensions:	1108 x 339 x 495 mm
Net weight:	63 kg

System Performance:

Array	Horizontal Coverage	Vertical Coverage	Maximum Peak Output
1 Enclosure	100°	-	137 dB
2 Enclosures	100°	0 - 8° adjustable	143 dB
4 Enclosures	100°	0 - 32° adjustable	149 dB
8 Enclosures	100°	0 - 64° adjustable	155 dB

SC8

- 4 x Coda Audio 18" extreme high output subwoofer
- Velocity sensors for feedback loop control
- Extended frequency range down to 15 Hz
- Ultra low distortion
- Fast transient response, the upper bass and the ultra low frequency are time aligned
- Cardio, Hypercardio or Omni directional mode
- Optional rigging hardware for flown or ground-stacked arrays
- Reduced truck space for reduces labor and transport costs

SC8 key technologies:

The advanced design aligns several new technologies for outstanding performance.

- Feedback loop control - ultra low distortion
- Sealed enclosure - superior transient and phase response
- Versatile pattern control - Cardio or Omni mode in one cabinet
- Long excursion drivers with integrated velocity sensor

The SC8 subwoofer

Description: Sensor controlled subwoofer with versatile directional characteristic incorporating four 18" long-excursion woofers in sealed enclosure.

Main advantages of the Feedback Loop Comparator:

Total Harmonic Distortion is reduced significantly

About 20 dB less distortion at 20 Hz compared to the cabinet without velocity sensor.

Extended Frequency response

The SC8 subwoofer provides perfectly flat response down to 15 Hz and very high output and low distortion. No high pass filters or equalizers are required.

Reduced group delay

The upper bass and the very low frequency are time aligned resulting in extremely accurate and musical bass reproduction.

Transducers

The SC8 is equipped with four extremely long excursion 18" neodymium ultra low distortion woofers with integrated velocity sensor that measure, compare and control cone movements. The 4" voice coil is 50 mm high, ensuring ultra linear excursion of 40 mm / pp. State-of-the-art carbon-fiber cone guarantee maximum stiffness and low moving mass.

Directivity

The SC8 can be configured for different polar patterns: Cardio / Hypercardio or Omni directional when the cabinet is rotated at 90°.

Applications:

The SC8 subwoofer is perfect suited not only as a sub-extension for AIRLINE LA12, but for general use in arenas, houses of worship, theatres, clubs and open air.



System Components:

C2 Comparator
AIRLINE LA12
DC426 Digital controller
DNC260 Digital controller
Amplifier 1 x 2100 W @ 4 Ohm (per channel)

Accessories (only SC8F):

Frame: AIRLINE LA12 Frame

TECHNICAL SPECIFICATIONS:

Type:	Sensor controlled Cardio / Omni subwoofer
Application:	High output subwoofer
Frequency response:	20 Hz (-3 dB) or 25 Hz (-6 dB) with the C2 Comparator
Power handling (AES / Peak):	6000 W / 24000 W
Sensitivity 1 W / 1m: ¹	106 dB @ 50 Hz
Maximum output peak: ²	150 dB
Components:	4 x 18" neodymium ultra low distortion woofers 4" (101.6 mm) voice coil, 1500 W (AES) each
Front:	2 x 18"
Rear:	2 x 18"
Nominal impedance:	Front: 4 Ohm +-1, Rear: 4 Ohm +-1
Input connectors:	2 x Neutrik™ NL4MP
Velocity sensors output:	1 x Neutrik™ NC5MDL1
Suspension:	optional flying hardware (compatible to AIRLINE LA12 Frame)
Enclosure material:	Baltic birch
Finish:	Textured black Paint
Dimensions:	1108 x 540 x 982 mm
Net weight SC8:	117 kg
Net weight SC8F:	129 kg

¹ Half-space loading

² Measured with pink noise 6 dB crest factor

AIRLINE LA8

- Compact size, low weight
- Coda Audio Dual 4" Neodymium planar wave drivers (patent pending)
- Coda Audio Twin 8" neodymium ultra low distortion woofers
- All four drivers are physically time aligned
- Variable horizontal coverage of 120° or 60°
- Vertical Curving 0° to 12° variable in 1°-steps
- High efficiency
- Integrated rigging system for flown or ground stacked arrays
- System integration with AIRLINE LA8-SUB

The AIRLINE LA8 is a compact, two-way full range line array module, designed for a wide range of applications where high fidelity sound and outstanding intelligibility is required. The cabinet contains two 8" neodymium ultra low distortion cone speakers and two 4" HF neodymium planar wave drivers.

The modules are designed to be used in multiples with a minimal configuration of three. Up to 20 units can be arrayed to achieve extreme high levels needed for larger venues. The built-in passive crossover allows multiple modules to be driven with a single amplifier channel (up to 6 enclosures at 3 Ohm). Bi-amplification is possible as well and is internally configurable. An optional AIRLINE LA8-SUB can be added for increased low frequency response.

The integrated rigging system allows quick and easy flying or ground stacking. Arrays may be built straight or curved in various angles to obtain the desired vertical coverage. The Coda EASE Focus simulation software allows you to calculate the perfect setup for every application.

When coupled with AIRLINE LA8-SUB the LA8 line array gives audio companies a flexible, plug and play system for a wide range of applications from the smallest venue up to full concert-system sound formats.

Applications include large clubs, convention centers, houses of worship, sport venues, stadiums, theatres, touring, open air, festivals and large scale corporate events.

Accessoires:

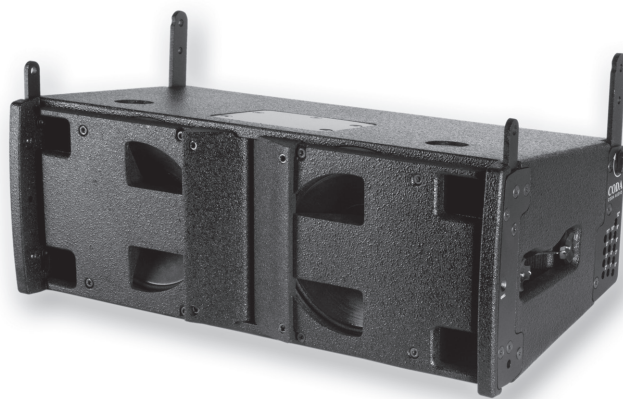
Frame: FR8
Flight Case: FC8
U-Bracket: CULA8

System components:

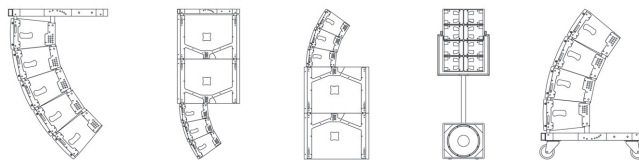
AIRLINE LA8-SUB
PW418v2
DC426 Digital Controller
DNC260 Digital Controller
C-Series Amplifiers

DC426

Digital Controller - see page 46 for further information.



Rigging possibilities:



TECHNICAL SPECIFICATIONS (single enclosure):			
Type:	2-way full range line array module		
Application:	Minimal 3, maximal 20 units line array		
Frequency response:	70 Hz - 20kHz (- 3dB)		
Power handling AES:			
Low:	500 W		
High:	160 W		
Sensitivity Low:	99 dB		
Max. SPL peak Low:	132 dB		
Sensitivity High:	115 dB		
Max. SPL peak High:	146 dB		
Dispersion Horizontal:	120° or 60°		
Vertical:	Array dependent, 0° - 12° in 1°-steps		
Components:			
Low frequency:	2 x 8" neodymium woofers, carbon-fibre diaphragm 2" (51 mm) voice coil, 250W (AES) each		
High frequency:	2 x 4" neodymium planar wave drivers 1.75" (44.4 mm) voice coil, 80W (AES) each		
Crossover point:	1300 Hz passive or bi-amp (internal connector)		
Input connectors:	2 x Neutrik™ NL4MP		
Nominal impedance Passive:	16 Ohm (+2/-2)		
2-way bi-amp operation:	LF: 16 Ohm (+1/-1) / HF: 16 Ohm (+2/-2)		
Enclosure shape:	Horizontal trapezoid 2 x 6°		
Enclosure material:	Baltic birch		
Finish:	Black textured Paint		
Flying Hardware:	Included		
Dimensions:	592 x 220 x 316 mm (incl. Hardware)		
Net weight:	18.3 kg		

System Performance:			
Array	Horizontal Coverage	Vertical Coverage	Maximum Peak Output
1 Enclosure	120° or 60°	-	132 dB
2 Enclosures	120° or 60°	0 - 12° adjustable	138 dB
4 Enclosures	120° or 60°	0 - 48° adjustable	144 dB
8 Enclosures	120° or 60°	0 - 96° adjustable	152 dB

AIRLINE LA8-SUB

- Coda Audio 18" neodymium ultra low distortion woofer
- Low power compression, superb quality sound
- Integrated rigging hardware for flown or ground stacked arrays
- System integration with AIRLINE LA8 line arrays

The AIRLINE LA8-SUB is an 18" system-subwoofer containing an extremely long excursion 18" neodymium ultra low distortion woofer in a ported cabinet. Equipped with the same rigging system as the AIRLINE LA8 it is ideal for easy flying or ground stacking in various combinations providing compact plug and play line array system solution.

Primarily designed for integration into an AIRLINE LA8 line array, the AIRLINE LA8-SUB is also suited to general purpose subwoofer applications. It gives audio companies a flexible, plug and play complete solution for a wide range of applications from the smallest venue up to full concert-system sound format

Applications include large clubs, convention centers, houses of worship, sport venues, stadiums, theatres, touring, open air, festivals and large scale corporate events.



touring + installation

passive

System components:
AIRLINE LA8
PW418v2
DC426 Digital Controller
DNC260 Digital Controller
C-Series Amplifiers

Accessories:
Frame: FR8
U-Bracket: CULA8

DC426

Digital Controller - see page 46 for further information.



TECHNICAL SPECIFICATIONS (single enclosure):	
TType:	System subwoofer
Application:	AIRLINE LA8 array integration
Frequency response:	30 Hz to 120 Hz
Power handling (AES):	1200 W
Maximum output long term:	128 dB
Maximum output peak:	134 dB
Components:	18" neodymium ultra low distortion woofer
	8 Ohm, 4" (101.6 mm) voice coil,
	1200 W (AES)
Nominal impedance:	8 Ohm
Input connectors:	2 x Neutrik™ NL4MP
Suspension:	included
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	592 x 503 x 700 mm
Net weight:	48 kg

LA5A

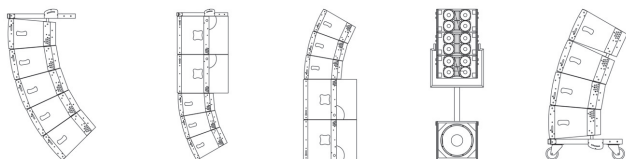
- Ultra compact self-powered line array system
- No need of external amplifier racks
- Two Coda Audio 4" neodymium planar wave driver (patent pending)
- Four Coda Audio 5" neodymium ultra low distortion woofers
- Wide horizontal coverage of 110°
- Vertical curving 0° to 10° in 1°-steps
- 500 W RMS class D amplifier for the low frequency plus a 180 W RMS MOSFET amplifier for the high frequency
- High SPL, superb sound quality
- Optical Limiters for state-of-the-art protection
- Integrated rigging system for flown or ground stacked arrays

The LA5A is an ultra compact, 2-way self-powered line array system, designed for a wide range of applications where high fidelity sound and outstanding intelligibility is required. The system contains four 5" neodymium ultra low distortion cone speakers and two 4" neodymium planar wave drivers. The use of high efficiency class D amplifier for the low frequency and MOSFET amp for the high frequency ensures small size, reduced weight and superb sonic performance. The integrated control electronic includes optical limiters for each channel, 24 dB phase-aligned asymmetrical crossovers, all pass filters and EQ to provide a perfect match between amplifiers and loudspeakers for optimum acoustic output and reliability. The systems are designed to be used in multiples with a minimal configuration of two. Up to 20 units can be used to achieve extreme high levels needed for larger venues.

An optional LA5A-SUB self-powered subwoofer can be added for increased low frequency response. The integrated rigging system allows quick and easy flying or ground stacking. Arrays may be built straight or curved in various angels to obtain the desired vertical coverage. The fact that the LA5A is ultra compact and light reduces manpower and transport. When coupled with the LA5A-SUB the LA5A gives audio companies a flexible, plug and play system for a wide range of applications from the smallest venue up to full concert-system sound formats.

Applications include arenas, convention centers, houses of worship, theatres, music pavilions and auditoriums.

Rigging possibilities:



Accessories:

Frame: FR5
Flight Case: FC5
U-Bracket: CULA5A
Cable: Speakon

System components:

LA5A-SUB, PW418Av², DC426

DC426

Digital Controller - see page 46 for further information.



TECHNICAL SPECIFICATIONS (single enclosure):

Type:	2-way self-powered full range system
Application:	Line Array
Frequency response:	60 Hz - 19 kHz (-3 dB)
Maximum output long term:	124 dB
Maximum output peak:	130 dB
Dispersion:	110° x 10°
Amplifiers low range:	Class D
Power output (RMS):	500 W / 4 Ohm
Peak output current:	> 45 A
THD+N:	< 0.02 % @ 500 W, 1 kHz, 4 Ohm
Amplifier high range:	MOSFET 180 W, 500 W Burst
THD+N:	< 0.02 %
Components:	
Low frequency:	4 x 5" neodymium woofers 1.5" (38 mm) voice coil, 125 W (AES) each
High frequency:	2 x 4" neodymium planar wave drivers 1.75" (44.4 mm) voice coil, 80 W (AES) each
Crossover:	1.3 kHz / 24 dB Active
High pass filter:	44 Hz / 18 dB
Input:	balanced
Connectors:	1 x female XLR / TRS Jack; 1 x male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
AC Connector:	2 x Neutrick™ PowerCon
AC Power requirement:	1000 W peak, 600 W continuous (max)
LED Indicators:	Power on, Signal, 0-dB, LF limit, HF limit, Overload
Gain:	-9 dB, +3 dB
Enclosure shape:	Horizontal trapezoid 5°
Suspension:	included
Enclosure material:	Baltic birch
Finish:	Textured black Paint
Dimensions:	502 x 270 x 420 mm (incl. Hardware)
Net weight:	24.5 kg

System Performance:

Array	Frequency Response (-3 dB)	Max. Coverage (-6 dB points)	Maximum Peak Output
1 Enclosure	60 - 20000 Hz	110° x 10°	130 dB
4 Enclosures	58 - 20000 Hz	110° x (10° - 40°)	142 dB
8 Enclosures	57 - 20000 Hz	110° x (10° - 80°)	148 dB

LA5A-SUB

- Compact self-powered high output subwoofer
- Coda Audio 15" neodymium ultra low distortion woofer
- 1000 W (RMS) Class D amplifier
- Low power compression, superb sound quality
- Optical limiter for state-of-the-art protection
- Integrated rigging hardware for flown or ground stacked arrays
- System integration with LA5A line arrays

The LA5A-SUB is a compact self-powered high output subwoofer incorporating a 1000 W high efficiency class D amplifier. The integrated control electronics include an optical limiter, 24 dB phase-aligned crossovers, subsonic filter and EQ to provide a perfect match between amplifier and loudspeaker for optimum acoustic output and reliability. The use of a high efficiency class D amplifier, together with the newly developed neodymium loudspeakers, ensures small size, low weight and superb sonic performance.

Complimenting the LA5A full range line array system, the LA5A-SUB extends the system response down to 38 Hz. An excellent transient response produces fast high impact bass that is able to reproduce detailed and accurate low frequency information.

The LA5A-SUB is equipped with a 15" neodymium ultra low distortion woofer in a ported cabinet and provides the same rigging system as the LA5A for easy flying or ground stacking in various combinations. Primarily designed for integration into an LA5A line arrays, the LA5A-SUB is also suited as a general use subwoofer giving audio companies a flexible, plug and play system for a wide range of applications from the smallest venue up to full concert-system sound formats.

Applications include arenas, convention centers, houses of worship, theatres, music pavilions and auditoriums.



touring + installation



DC426

Digital Controller - see page 46 for further information.

System components:
LA5A, PW418A², DC426

Accessories:
Frame: FR5
Cable: Speakon
U-Bracket: CULA5A

TECHNICAL SPECIFICATIONS (single enclosure):	
Type:	Self-powered subwoofer
Application:	LA-series sub extension
Frequency response:	38 Hz to 125 Hz or 160 Hz (switchable)
Maximum output peak long term:	124 dB
Maximum output peak:	133 dB
Amplifiers:	Class D
Power output (RMS):	1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	< 0.04 % at 1000 W, 100 Hz, 4 Ohm
Components:	15" neodymium ultra low distortion woofer 4 Ohm, 4" (101.6 mm) voice coil, 1000 W (AES)
Crossover:	30Hz high pass 18dB, 125Hz or 160Hz low-pass 24dB, EQ
Input:	balanced
Connectors:	1 x female XLR / TRS Jack; 1 x male XLR loop; 1 x male XLR top-24 dB high pass qoutput @ 125 Hz or 160 Hz (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
AC Connector:	2 x Neutrick™ PowerCon
AC Power requiremenst:	2000 W peak, 1000 W continous (max)
LED Indicators:	Power on, Signal, 0- dB, LF limit, Overload
Gain:	-9 dB, +3 dB
Controls:	2 x High / Low Pass Filters
Suspension:	included
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	502 x 455 x 600 mm
Net weight:	38 kg

self-powered

LA4

- Ultra compact size, low weight
- Coda Audio 4" neodymium planar wave driver (patent pending)
- Two Coda Audio 5" neodymium ultra low distortion woofers
- Wide horizontal coverage of 110°
- Vertical curving 0° to 20° in 2°-steps
- High efficiency
- Full range capability
- Integrated rigging system for flown or ground stacked arrays

The LA4 is an ultra compact, 2-way full range line array system, designed for a wide range of applications where high fidelity sound and outstanding intelligibility are required. The system contains two 5" neodymium ultra low distortion cone speakers and a 4" neodymium planar wave driver. The system is designed to be used in multiples with a minimal configuration of four. Up to 40 units can be used to achieve the extreme high levels needed for larger venues. An optional LA4-SUB can be added for increased low frequency response.

The integrated rigging system allows quick and easy flying or ground stacking. Arrays may be built straight or curved in various angels to obtain the desired vertical coverage. The fact that the LA4 is ultra compact and light reduces manpower and transport. When coupled with LA4-SUB the LA4 gives audio companies a flexible plug and play system for a wide range of applications from the smallest venue up to full concert-system sound formats.

Applications include large clubs, convention centres, houses of worship, sport venues, arenas, theatres, musicals, ballrooms, auditoriums, club touring and corporate events.

System components:

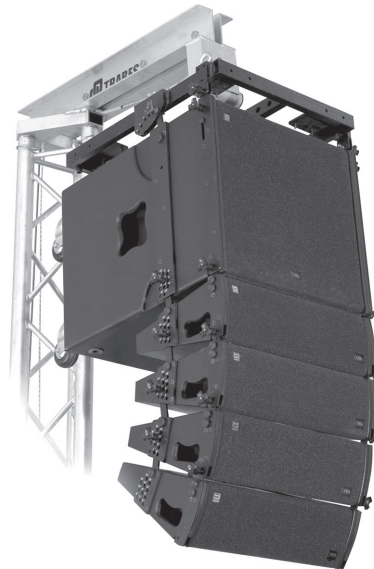
C-Series Amplifiers
LA4-SUB
PW418v2
DC426

Accessoires:

Frame: FR4
Flight Case: FC4
U-Bracket: CULA4
Cable: Speakon

DC426

Digital Controller - see page 46 for further information.



TECHNICAL SPECIFICATIONS (single enclosure):

Type:	2-way full range
Application:	Line Array
Frequency response:	60 Hz - 20 kHz (-3 dB)
Power handling AES:	250 W
Sensitivity Low:	94 dB
Max. SPL peak Low:	124 dB
Sensitivity High:	113 dB
Max. SPL peak High:	142 dB
Dispersion:	110° x 10°
Components:	
Low frequency:	2 x 5" neodymium woofers 1.5" (38 mm) voice coil, 125 W (AES) each
High frequency:	1 x 4" neodymium planar wave driver 1.75" (44.4 mm) voice coil, 80 W (AES)
Crossover point:	1300 Hz, passive
Nominal impedance:	16 Ohm
Input connectors:	2 x Neutrick™ NL4MP
Enclosure shape:	10° Horizontal trapezoid
Enclosure material:	Baltic birch
Finish:	Textured black Paint
Flying Hardware:	included
Dimensions:	500 x 178 x 320 mm (incl. Hardware)
Net weight:	9.65 kg

System Performance:

Array	Frequency Response (-3 dB)	Max. Coverage (-6 dB points)	Maximum Peak Output
1 Enclosure	60 - 20000 Hz	110° x 10°	124 dB
4 Enclosures	60 - 20000 Hz	110° x 40°	136 dB
8 Enclosures	58 - 20000 Hz	110° x 60°	142 dB

LA4-SUB

- Coda Audio 15" neodymium ultra low distortion woofer
- Low power compression, superb quality sound
- Integrated rigging hardware for flown or ground stacked arrays
- System integration with LA4 line arrays

The LA4-SUB is a 15" system subwoofer containing an extremely long excursion 15" neodymium ultra low distortion woofer in a ported cabinet. Equipped with the same rigging system as the LA4 it is ideal for easy flying or ground stacking in various combinations providing compact plug & play line array system solutions.

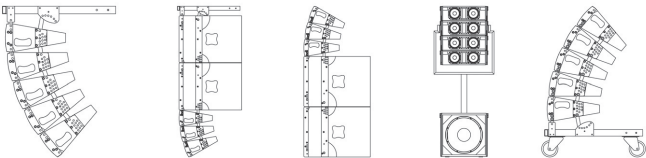
Specially designed for integration into an LA4 line array, the LA4-SUB is also suited to general purpose subwoofer applications. It gives audio companies a flexible, plug and play complete solution for a wide range of applications from the smallest venue to a concert-level sound.

Applications include large clubs, convention centres, houses of worship, sport venues, arenas, theatres, musicals, ballrooms, auditoriums, club touring and corporate events.

System components:
C-Series Amplifiers
LA4
PW418v²
DC426

Accessories:
Frame: FR4
U-Bracket: CULA4
Cable: Speakon

Rigging possibilities:



TECHNICAL SPECIFICATIONS (single enclosure):	
Type:	System subwoofer
Application:	LA4 array integration
Frequency response:	40 Hz to 160 Hz
Power handling (AES):	1000 W
Maximum output long term:	127 dB
Maximum output peak:	133 dB
Components:	15" neodymium ultra low distortion woofer
	8 Ohm, 4" (101.6 mm) voice coil,
	1200 W (AES)
Nominal impedance:	8 Ohm
Input connectors:	2 x Neutrik™ NL4MP
Suspension:	included
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	502 x 555 x 600 mm
Net weight:	32 kg

Coda EASE Focus Software

The Coda EASE Focus Aiming Software is a professional software application that allows the modeling of acoustic sources, in particular line arrays, in two dimensions. It only considers the direct field, created by the complex addition of the sound source of the individual loudspeakers or array components.

Great efforts have been made to create an intuitive and consistent interface. The purpose of EASE Focus is to provide both the end user, who needs to set up the array for a show, as well as the system developer, with a tool that allows for easy and quick prediction of the array performance in a given venue.

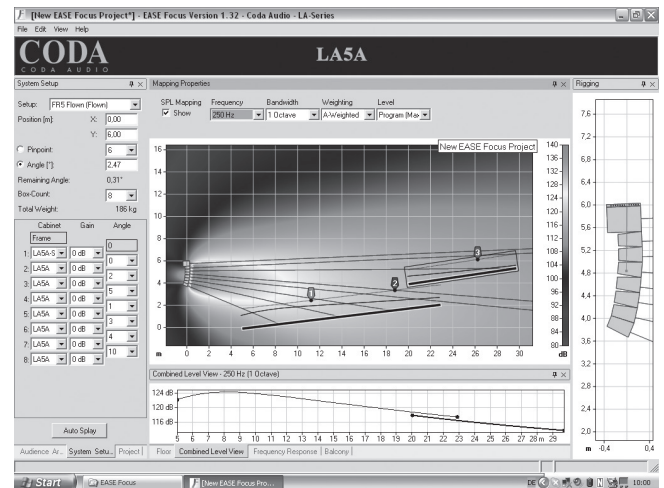
The software estimates the array position, pinpoint, angle, max SPL, the total weight of the system, the influence of temperature, air pressure and humidity considered according to ISO 9613 and much more.

The Auto Splay function allows you to automatically aim the cabinets of the system at the existing audience areas.

The applicability of Coda EASE Focus is quite extensive compared to conventional 2D aiming software tools.

The scientific base of Coda EASE Focus stems from EASE, the professional electro and room acoustic simulation software developed by ADA, Acoustic Design Ahnert, Berlin, Germany. Coda EASE Focus itself is software created by SDA, Software Design Ahnert GmbH, Berlin, Germany, the sister company of ADA.

The Coda EASE Focus Aiming Software supports all Coda Audio AIRLINE line array systems and is available to all users free of charge.





G-series *Compact versatile full-range systems*

Introduction

The new G-Series models are compact versatile full range systems that incorporate the best driver and waveguide technology available today.

Features:

Rotatable waveguides

The newly designed elliptical waveguides offer exceptional directivity control without internal diffraction and resonances. Going beyond the classical horn theory the new design significantly reduces horn resonances and audibly improves the sound quality.

Audiophile grade neodymium HF drivers

All compression drivers utilise patented annular diaphragm design and contain CuCup technology to reduce intermodulation distortion IMD.

Ultra low distortion neodymium cone drivers

The long excursion cone drivers contain high flux, linear motors with triple demodulation rings for ultra low distortion and increased power handling.

System integration

Although the G-Series loudspeakers incorporate dedicated passive crossovers ensuring linear frequency and phase response allowing them to work without additional processing, the use of the AC24 processor dramatically improves the overall system performance offering protection and frequency response optimization either in full range mode or in stage monitor applications or in combination with subwoofers.

Accessories and Hardware

Optimized for installation and touring the G-Series features M6 flying points for optional u-brackets to mount them to walls or ceilings as well as special hardware kits for almost every kind of installation or touring application.

Other Features:

- Best sound quality
- Maximum output and reliability in their class
- Competitive price

G500-Series - medium output 2-way full-range systems

- Superb quality patented annular diaphragm 1" neodymium HF drivers
- Ultra low distortion woofers with 3" VC and triple demodulation rings
- Rotatable elliptical waveguides
- M6 suspension points
- Versatile enclosures
- Extended accessories range for both touring and installation



These 2-way systems are rated at 600 W continuous power and are best suited for sound reinforcement applications where the best sound quality at moderate levels is required. The G500-Series incorporates 12" and 15" neodymium drivers with 3" voice coil and a 1" annular diaphragm compression driver mounted on an elliptical waveguide. Offering the very best performance / cost ratio the G500-Series is suited for installations, bands, stage monitoring, DJs and clubs.

G700-Series - High output 3-way full-range systems

- 3-way systems where the mid and high frequency are radiated from one point
- Unique patented 1.4" coaxial neodymium driver
- Ultra low distortion woofers with 4" VC and triple demodulation rings
- Internal selector for passive or bi-amp operation
- Rotatable elliptical waveguides
- M6 suspension points
- Versatile enclosures
- Extended accessories range for both touring and installation

The G700-Series incorporates 12" and 15" neodymium drivers with 4" voice coil and 1.4" neodymium coaxial compression drivers mounted on elliptical waveguides. Rated at 1000 W continuous power handling the 700-Series is suited for touring and installation applications where the highest output and outstanding sound quality are required. At the heart of the G700-Series is the patented 1.4" neodymium coaxial compression driver. An extremely wide and flat frequency response is achieved at high sensitivity due to the unique construction. The advanced design aligns the acoustical centers of the mid and high frequency range to produce a single point source. This unique loudspeaker technology provides a coherent wave front without hot spots. Precise directivity ensures uniform coverage with perfect time alignment between the components.

G308

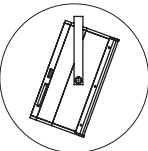
- Extreme compact multidesign enclosure
- Wide coverage angles
- 1" patented compression driver
- Multiple fly-points for easy hanging
- 8 Ohms or 16 Ohms versions
- Extended accessories range for both touring and installation

The Coda Audio G308 is a compact versatile full range 2-way loudspeaker system that features an 8" ultra low distortion low frequency driver and a 1" compression driver coupled to a 90° conical wood waveguide.

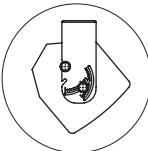
The G308 incorporates a multidesign enclosure fitted with M6 flying points enabling it to be used horizontal, vertical or as a floor monitor.

SYSTEM COMPONENTS:
AC24 Analogue Controller
C25 Amplifier
PW112
PW118
GSB15

ACCESSORIES:



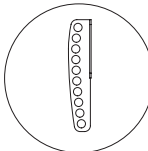
A8VG
Vertical
U-bracket



A8HG
Horizontal
U-Bracket



24481
Wall Mount



Flying
Adapter



M6 Safety
eyebolt



A68620
Truss Clamp



TECHNICAL SPECIFICATIONS	
Type:	2-way full range system, multidesign enclosure
Application:	High quality short throw
Frequency response:	70 Hz - 30 kHz (-3 dB)
Power handling AES:	220 W
Program power:	440 W
Peak power:	880 W
Sensitivity:	94.5 dB
Max. SPL peak:	124 dB
Dispersion:	90 ° conical
Components:	
Low frequency:	8" ultra low distortion cone driver, 2" voice coil
High frequency:	1" compression driver, 1.5" voice coil
Crossover point:	1900 Hz
Nominal impedance:	8 Ω or 16 Ω
Input connectors:	2x Neutrik™ NL4MP
Enclosure material:	Birch plywood
Suspension:	2x M6 threaded points
Dimensions (WxHxD):	230x470x265 mm
Net weight:	9.5 kg
	Human EQ-switch

installation + portable

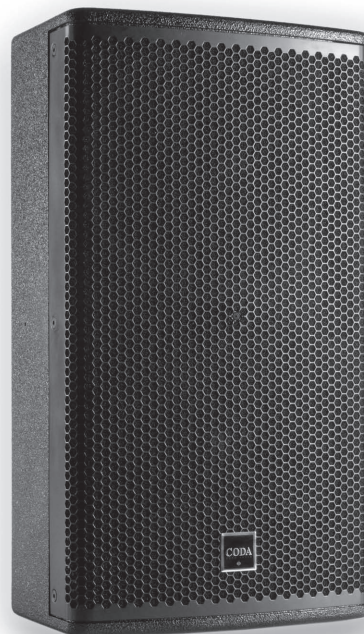
passive

G512-96

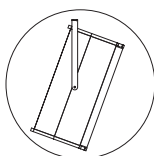
- 2-way compact versatile full range system
- High power handling of 600 W
- Neodymium drivers for light weight
- 90° x 60° rotatable elliptical waveguide
- Designed for both PA and stage monitoring

The G512-96 is a versatile full range two-way loudspeaker system that features ultra low distortion 12" neodymium woofer and a 1" neodymium compression driver coupled to a 90° x 60° rotatable elliptical waveguide. The G512 incorporates a multi design enclosure fitted with M6 threaded points for use with an optional U-bracket and includes an integral top hat.

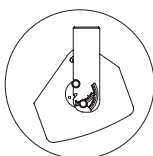
Applications include clubs, corporate events, FOH, stage monitor and band PA.



ACCESSORIES:



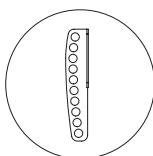
A12VG
Vertical
U-bracket



A12HG
Horizontal
U-bracket



24481
Wall mount



Flying
adapter



M6 Safety
eyebolt

SYSTEM COMPONENTS:

DNC260 Digital Controller
AC24 Analogue Controller
C25 Amplifier
PW118

TECHNICAL SPECIFICATIONS

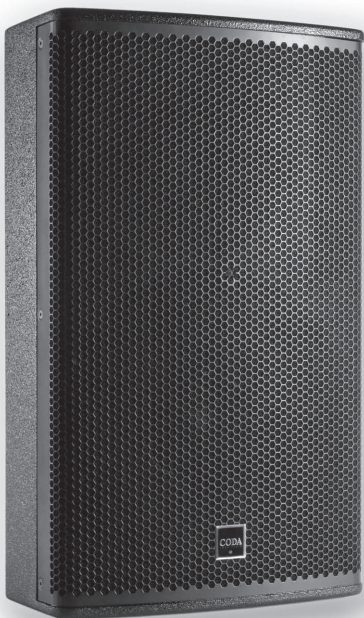
Type:	2-way full range system, multidesign enclosure
Application:	High quality short throw or stage monitor
Frequency response:	60 Hz - 21 kHz (-3 dB)
Power handling AES:	600 W
Peak power:	2400 W
Sensitivity:	98 dB
Max. SPL peak:	132 dB
Dispersion:	90° x 60°
Components:	
Low frequency:	12" neodymium woofer, 3" (77 mm) voice coil, 600 W (AES)
High frequency:	1" neodymium compression driver, 1.75" (44.4 mm) VC, 80 W (AES)
Crossover point:	1300 Hz passive
Nominal impedance:	8 Ω
Input connectors:	2 x Neutrik™ NL4MP
Suspension:	M6 threaded points for use of optional U-bracket
Enclosure material:	15/18 mm birch plywood
Finish:	Textured black paint
Dimensions (WxHxD):	348 x 630 x 320 mm
Net weight:	16 kg
Weatherproof version:	Optional

G515-96

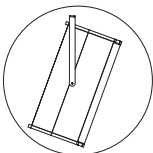
- 2-way compact versatile full range system
- High power handling of 600 W
- Neodymium drivers for light weight
- 90° x 60° rotatable elliptical waveguide
- Designed for both PA and stage monitoring

The G515-96 is a versatile full range two-way loudspeaker system that features ultra low distortion 15" neodymium woofer and a 1" neodymium compression driver coupled to a 90° x 60° rotatable elliptical waveguide. The G515 incorporates a multidesign enclosure fitted with M6 threaded points for use with an optional U-bracket and includes an integral top hat.

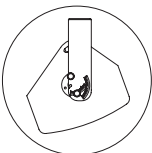
Applications include clubs, corporate events, FOH, stage monitor and band PA.



ACCESSORIES:



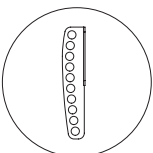
A15VG
Vertical
U-bracket



A15HG
Horizontal
U-bracket



24481
Wall mount



Flying
adapter



M6 Safety
eyebolt

SYSTEM COMPONENTS:

DNC260 Digital Controller
AC24 Analogue Controller
C25 Amplifier
PW118

TECHNICAL SPECIFICATIONS	
Type:	2-way full range system, multidesign enclosure
Application:	High quality short throw or stage monitor
Frequency response:	50 Hz - 21 kHz (-3dB)
Power handling AES:	600 W
Peak power:	2400 W
Sensitivity:	98 dB
Max. SPL peak:	132 dB
Dispersion:	90° x 60°
Components:	
Low frequency:	15" neodymium woofer, 3" (77 mm) voice coil, 600W (AES)
High frequency:	1" neodymium compression driver, 1.75" (44.4 mm) voice coil, 80W (AES)
Crossover point:	1200 Hz passive
Nominal impedance:	8 Ω
Input connectors:	2 x Neutrik™ NL4MP
Suspension:	M6 threaded points for use of optional U-bracket
Enclosure material:	15 mm birch plywood
Finish:	Textured black paint
Dimensions (WxHxD):	420 x 700 x 380 mm
Net weight:	17.5 kg
Weatherproof version:	Optional

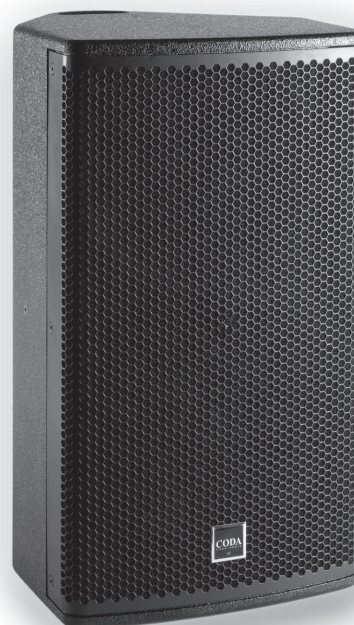
installation + portable

passive

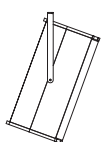
G712-96

- 3-way high output versatile full range system
- Unique 1,4" coaxial neodymium driver
- 90° x 60° rotatable elliptical waveguide
- 12" neodymium ultra low distortion woofer
- Passive or bi-amplified operation
- Designed for fixed installation, touring and stage monitoring

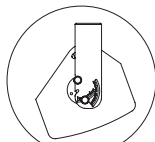
The Coda Audio G712-96 is a versatile full range 3-way loudspeaker system that features a high power 12" neodymium woofer and a 1.4" coaxial neodymium driver coupled to a rotatable 90° x 60° elliptical waveguide. As a 3-way system the G712-96 may be driven passively or with bi-amplification to provide extremely high acoustic output. The Coda Audio G712-96 is a powerful solution for front of house touring, installed PA for theatres, clubs and corporate events or as a stage monitor.



ACCESSORIES:



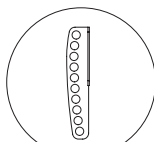
A12VG
Vertical
U-bracket



A12HG
Horizontal
U-bracket



24481
Wall mount



Flying
adapter



M6 Safety
eyebolt

SYSTEM COMPONENTS:

DNC260 Digital Controller
AC24 Analogue Controller
C25 Amplifier
PW118
PW418

TECHNICAL SPECIFICATIONS

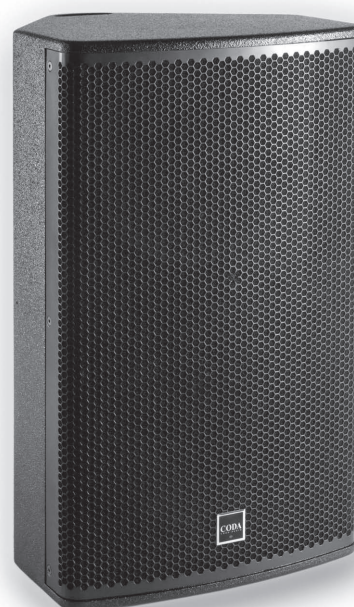
Type:	3-way high power full range system, multidesign enclosure
Application:	High output short/medium throw or stage monitor
Frequency response:	60 Hz - 21 kHz (-3 dB)
Power handling AES:	1000 W
Peak power:	4000 W
Sensitivity:	98 dB
Max. SPL peak:	134 dB
Dispersion:	90° x 60°
Components:	
Low frequency:	12" neodymium woofer, 4" (101.6 mm) voice coil, 1000 W (AES)
High frequency:	1.4" neodymium coaxial driver, 3.5" (90 mm) + 1.75" (44.4 mm) voice coil, 150 W + 80 W (AES)
Crossover point:	750 Hz, 6.3 kHz passive
Nominal impedance:	8 Ω
Input connectors:	2 x Neutrik™ NL4MP
Suspension:	6 x M6 threaded points
Enclosure material:	15 / 18 mm Baltic birch plywood
Finish:	Textured black paint (all RAL-colours optional)
Dimensions (WxHxD):	348 x 630 x 320 mm
Net weight:	21.5 kg
Weatherproof version:	Optional

G715-96

- 3-way high output versatile full range system
- Unique 1.4" coaxial neodymium driver
- 90° x 60° rotatable elliptical waveguide
- 15" neodymium ultra low distortion woofer
- Passive or bi-amplified operation
- Designed for fixed installation, touring and stage monitoring

The Coda Audio G715-96 is a versatile full range 3-way loudspeaker system that features a high power 15" neodymium woofer and a 1.4" coaxial neodymium driver coupled to a rotatable 90° x 60° elliptical waveguide. As a 3-way system the G715-96 may be driven passively or with bi-amplification to provide extremely high acoustic output.

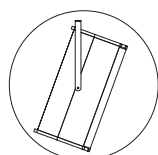
The Audio G715-96 is a powerful solution for front of house touring, installed PA for theatres, clubs and corporate events or as a stage monitor.



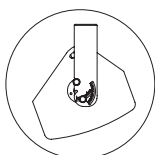
installation + portable

passive

ACCESSORIES:



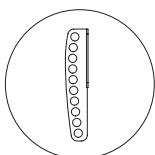
A15VG
Vertical
U-bracket



A15HG
Horizontal
U-bracket



24481
Wall mount



Flying
adapter



M6 Safety
eyebolt

SYSTEM COMPONENTS:

DNC260 Digital Controller
AC24 Analogue Controller
C25 Amplifier
PW118
PW418

TECHNICAL SPECIFICATIONS

Type:	3-way high power full range system, multi design enclosure
Application:	High output short/medium throw or stage monitor
Frequency response:	50 Hz - 21 kHz (-3 dB)
Power handling AES:	1000 W
Peak power:	4000 W
Sensitivity:	98 dB
Max. SPL peak:	134 dB
Dispersion:	90° x 60°
Components:	
Low frequency:	15" neodymium woofer, 4" (101.6 mm) voice coil, 1000 W (AES)
High frequency:	1.4" neodymium coaxial driver, 3.5" (90 mm) + 1.75" (44.4 mm) voice coil, 150 W + 80 W (AES)
Crossover point:	750 Hz, 6.3 kHz passive
Nominal impedance:	8 Ω
Input connectors:	2 x Neutrik™ NL4MP
Suspension:	6 x M6 threaded points
Enclosure material:	15 / 18 mm Baltic birch plywood
Finish:	Textured black paint (all RAL-colours optional)
Dimensions (WxHxD):	420x700x380 mm
Net weight:	24.5 kg
Weatherproof version:	Optional

D5-Cube

- Ultra compact 2-way coaxial system
- Coda Audio 5"/1" coaxial loudspeaker
- Attractive solid aluminium design
- Single point source system providing coherent wave front
- Superb quality sound

The Coda D5-Cube is a passive 2-way 5" / 1" coaxial loudspeaker system designed without compromise to provide a true one point source in an ultra compact package. The cabinet contains a high power 5" woofer and a coaxially mounted driver with 44.4 mm voice coil. The advanced design aligns the acoustical centres of the transducers to produce a single point source. This unique loudspeaker technology provides a coherent wave front without hot spots. Precise directivity of 90° conical ensures uniform coverage with perfect time alignment between the components. Supported with a full range of mounting and flying accessories the D5-Cube sets a state-of-the-art solution for almost any high quality, near field installed sound reinforcement applications.

Applications include conferences, restaurants, pubs, shopping centres, clubs, convention centres, houses of worship, airports and 5.1 surround.

System components:

AC24
C-Series Amplifiers
PW112
PW12A

Accessories:



CU5DC
U-bracket



3/8" Thread
for mic. stand



24185
Wall mount

AC24

Analog Signal Processor - see page 45 for further information.



TECHNICAL SPECIFICATIONS:

Type:	2-way coaxial ultra compact
Application:	Superior quality short throw
Frequency response:	90 Hz - 30 kHz (-3 dB)
Power handling AES:	125 W
Program power:	250 W
Peak power:	500 W
Sensitivity:	91 dB
Max. SPL peak:	117 dB
Dispersion:	90° conical
Components:	
Low frequency:	5" woofer, 1.5" (38 mm) voice coil, 120 W (AES)
High frequency:	1" coaxially mounted driver, 1.75" (44.4 mm) voice coil, 80 W (AES)
Crossover point:	1600 Hz Passive
Nominal impedance:	16 Ohm
100V version (optional):	100 VA
Input connectors:	Push buttons
Enclosure material:	12/15 mm Birch multiplex
Finish:	Black Paint (all RAL-colours optional)
Weatherproof version:	Optional
Flying Hardware:	M6 threaded points
Dimensions:	160 x 160 x 160 mm
Net weight:	3.5 kg

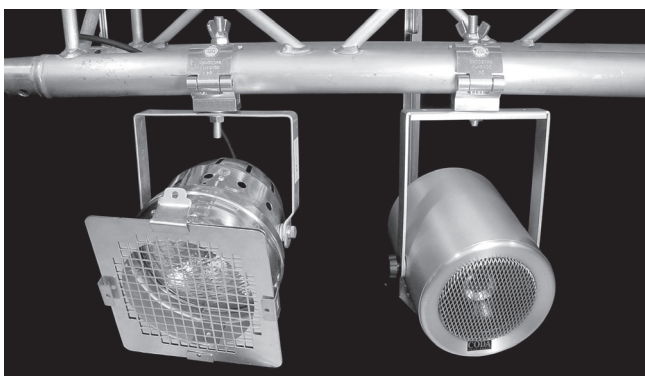
D5-Tube

- Ultra compact 2-way coaxial system
- Coda Audio 5"/1" coaxial loudspeaker
- Attractive solid aluminium design
- Single point source system providing coherent wave front
- Superb quality sound

The Coda D5-Tube is a passive 2-way 5" / 1" coaxial loudspeaker system designed without compromise to provide a true one point source in an ultra compact package.

The D5-Tube incorporates an attractive cylindrical solid aluminium enclosure supplied with a U-bracket. The cabinet contains a high power 5" woofer and a coaxially mounted driver with 44.4 mm voice coil. The advanced design aligns the acoustical centres of the transducers to produce a single point source. This unique loudspeaker technology provides a coherent wave front without hot spots. Precise directivity of 90° conical ensures uniform coverage with perfect time alignment between the components.

Applications include conference, restaurants, pubs, shopping centres, clubs, convention centres, houses of worship, airports and 5.1 surround.



AC24

Analog Signal Processor - see page 45 for further information.



System components:

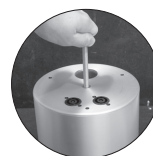
AC24
C-Series Amplifiers
PW112
PW12A



Accessories:



CUV200
U-bracket



M8-Thread



100 V Trafo, 100 VA

TECHNICAL SPECIFICATIONS:

Type:	2-way coaxial ultra compact
Application:	Superior quality short throw
Frequency response:	90 Hz - 30 kHz (- 3 dB)
Power handling AES:	125 W
Program power:	250 W
Peak power:	500 W
Sensitivity:	91 dB
Max. SPL peak:	117 dB
Dispersion:	90° conical
Components:	
Low frequency:	5" woofer, 1.5" (38 mm) voice coil, 120 W (AES)
High frequency:	1" coaxially mounted driver, 1.75" (44.4 mm) voice coil, 80 W (AES)
Crossover point:	1600 Hz Passive
Nominal impedance:	16 Ohm
100V version (optional):	100 VA
Input connectors:	2 x Neutrik
Enclosure material:	Solid Aluminium
Finish:	Metal (all RAL-colours optional available)
Weatherproof version:	Optional
Flying Hardware:	M8 thread
Dimensions:	170 x 170 x 193 mm
Net weight:	4 kg

D 5-Ceiling

- Ultra compact 2-way coaxial system
- Coda Audio 5" / 1" coaxial loudspeaker
- Attractive solid aluminium design
- Single point source system providing coherent wave front
- Superb quality sound
- Impedance 16 Ohm for easy daisy chaining

The Coda D5-Ceiling is a passive 2-way 5" / 1" coaxial loudspeaker system designed without compromise to provide a true one point source in an ultra compact package.

The cabinet contains a high power 5" woofer and a coaxially mounted driver with 44.4 mm voice coil. The advanced design aligns the acoustical centres of the transducers to produce a single point source. This unique loudspeaker technology provides a coherent wave front without hot spots. Precise directivity of 90° conical ensures uniform coverage with perfect time alignment between the components.

Applications include conference, restaurants, pubs, shopping centres, clubs, convention centres, houses of worship and airports.

System components:

AC24

C-Series Amplifiers

PW112

PW12A



TECHNICAL SPECIFICATIONS

Type:	2-way coaxial ultra compact
Application:	Superior quality short throw
Frequency response:	90 Hz - 30 kHz (-3 dB)
Power handling AES:	125 W
Program power:	250 W
Peak power:	500 W
Sensitivity:	91 dB
Max. SPL peak:	117 dB
Dispersion:	90° conical
Components:	
Low frequency:	5" Woofer, 1.5" (38 mm) voice coil, 120 W
High frequency:	1" coaxially mounted driver, 1.75" (44.4 mm) voice coil, 80 W
Crossover point:	1600 Hz passive
Nominal impedance:	16 Ω
100 V version (optional):	100 VA
Input connectors:	Push buttons
Enclosure material D5-Ceiling:	Solid aluminium
Finish D5-Ceiling:	Metal (all RAL-colours optional available)
Weatherproof version:	Optional
Flying hardware:	Threaded points M6, M8
Dimensions (ØxD):	170 x193 mm, ceiling cutout Ø160 mm
Net weight:	4 kg

D 8

- Ultra compact 2-way coaxial system
- Coda Audio 8"/1" coaxial loudspeaker
- Single point source system providing coherent wave front
- Superb quality sound
- M6 flying points
- Improved transient response

The Coda D8 is a 2-way coaxial loudspeaker system designed without compromise to provide a true one point source in an ultra compact package. The cabinet contains a high power 8" woofer and a coaxially mounted driver with 44.4 mm voice coil. The advanced design aligns the acoustical centres of the transducers to produce a single point source. This unique loudspeaker technology provides a coherent wave front without hot spots. Precise directivity of 90° conical ensures uniform coverage with perfect time alignment between the components.

Supported with a full range of mounting and flying accessories the D8 delivers a state-of-the-art solution for almost any high quality, near field installed sound reinforcement applications.

Applications include conference, theatres, clubs, convention centres, airports and 5.1 surround.

System components:

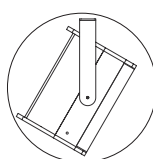
AC24
C-Series Amplifiers
PW118
PW18A



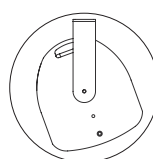
100 V Trafo, 150 VA



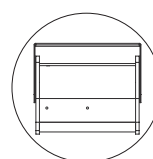
Accessories:



CU8DV
U-bracket
vertical



CU8DH
U-bracket
horizontal



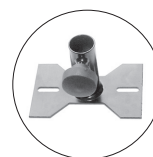
195/8
Stand fitting



24185
Wall mount



M6 ring



AC24

Analog Signal Processor - see page 45 for further information.



TECHNICAL SPECIFICATIONS:	
Type:	2-way coaxial ultra compact
Application:	Superior quality short throw
Frequency response:	70 Hz - 20 kHz (- 3 dB)
Power handling AES:	250 W
Program power:	500 W
Peak power:	1000 W
Sensitivity:	95 dB
Max. SPL peak:	124 dB
Dispersion:	90° conical
Components:	
Low frequency:	8" woofer, 2" (52 mm) voice coil, 250 W (AES)
High frequency:	1" driver, 1.75" (44.4 mm) voice coil, 80 W (AES)
Crossover point:	1500 Hz Passive
Nominal impedance:	16 Ohm
100V version (optional):	150 VA
Input connectors:	2 x Neutrick™ NL4MP
Enclosure material:	12/15 mm Baltic birch
Finish:	Textured black Paint (all RAL-colours optional)
Weatherproof version:	Optional
Flying Hardware:	M6 treaded points
Dimensions:	230 x 348 x 263 mm
Net weight:	7 kg

PW12A/PW12

- Active tri-amp subwoofer with amplifier outlets for stereo tops
- Coda Audio 12" neodymium ultra low distortion woofer
- 1000 W plus 2 x 500 W class D amplifiers
- Low power compression, superb sound quality
- Optical Limiters for state-of-the-art protection
- Optimized to power the Coda G-, K- and D-Series passive cabinets
- Capable to drive an additional passive woofer PW12

PW12A is an active tri-amp system subwoofer with amplifier outlets for passive tops containing 2000 W amplification and processing for a complete stereo sub / satellite system.

The electronics: integrates one 1000 W for the low frequency and 2 x 500 W high efficiency class D amplifiers for the top cabinets. The advanced analogue processor includes optical limiters for each channel, 24 dB phase-aligned crossovers, subsonic filters and EQ to provide a perfect match between amplifiers and loudspeakers for optimum acoustic output and reliability. The use of high efficiency class D amplifier for the subwoofer and for the tops ensures small size, reduced weight and superb sonic performance

The loudspeaker: 12" high power, long excursion neodymium ultra low distortion woofer providing powerful and extended low frequency response down to 30 Hz.

System integration: Optimized to work together with the G-, K- and D-Series full range passive cabinets, the PW12A can be connected to diverse mid-high loudspeakers for different applications to build a complete stereo sub / satellite system. An integrated speaker output enables an additional passive subwoofer (PW12) to be used increasing the system low frequency output by 6 dB without the need for additional processing and amplifier racks.

Applications: Used in a wide variety of configurations they provide compact and economical plug and play solution for bands, small PA-systems, mobile DJ 's or permanent installations.

System components:

G308
K289i
D5-Cube
D5-Tube



TECHNICAL SPECIFICATIONS PW 12:	
Power handling RMS:	600 W
Program power:	1200 W
Peak power:	4800 W
Sensitivity:	96 dB, 1 W / 1 m
Nominal impedance:	8 Ohm
Input connectors:	2 x Neutrick™ NL4MP
Dimensions:	398 x 454 x 465 mm
Net weight:	21 kg

Same as the PW12A without the amplifier.



PW12A



PW12

TECHNICAL SPECIFICATIONS PW 12A:

Type:	Self-powered subwoofer cabinet and satellite amps
Application:	Small / medium venues subwoofer
Frequency response:	30 Hz to 110 Hz
Maximum SPL peak:	127 dB single cabinet, 133 dB (PW12A + PW12 as slave)
Amplifier Sub:	Class D
Max. power output (RMS):	1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	0.04 % @1000 W, 100 Hz, 4 Ohm
Amplifiers Top:	2 x 500 W Class D, 8 Ohm continuous 2 x 600 W burst
Components:	12" neodymium high excursion woofer 8 Ohm, 3" (77 mm) voice coil, 600 W (AES)
Crossover:	20 Hz high pass 18 dB, 100 Hz low-pass 24 dB, EQ
Input:	Balanced
Connectors:	L+R female XLR / TRS Jack; L+R male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
External speaker outputs:	L, R, Sub, 3 x Neutrick™ NL4MP (8 Ohm only)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	2800 W peak, 1400 W continuous (max)
LED Indicators:	Power on, Signal, 0- dB, LF Limit, Overload
Gain:	-9 dB, +3 dB
Controls:	Volume: Sub, Top-L, Top-R
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	398 x 454 x 590 mm
Net weight:	37 kg

D-Core 2

D-Core2.7 is an ultra compact active sub / sat system for solo-entertainers, duos, unplugged, mobile DJ 's and corporate AV events, 2000 W amplification, incl. PW12A, 2 x G308.

D-Core2.8 is an ultra compact active sub / sat system for solo-entertainers, duos, unplugged, mobile DJ 's or corporate AV events, 2000 W amplification, incl. PW12A, PW12, 2 x K289i.

D-Core2.9 is a distributed installation system for bistros, restaurants, pubs, shopping centres, multimedia, houses of worship, conferences or corporate AV events, 2000 W amplification, incl. PW12A, 4 - 6 x D5-Cube or D5-Tube.

D-Core2.10 is a distributed installation system for bistros, restaurants, pubs, shopping centres, convention centres, multimedia, houses of worship, conferences or corporate AV events, 2000 W amplification, incl. PW12A, PW12, 6 - 8 x D5-Cube or D5-Tube.

D-core 2.7



D-core 2.9



D-core 2.8



D-core 2.10



PW15A-Pro

- Active tri-amp subwoofer including
Amplifier outlets for stereo tops
- Coda Audio 15" neodymium ultra low distortion woofer
- 1000 W plus 2 x 500 W class D amplifiers
- Low power compression, superb sound quality
- Optical Limiters for state-of-the-art protection
- Optimized to power the Coda G-, K- and D-Series passive cabinets

PW15A is an active tri-amp system subwoofer with amplifier outlets for passive tops containing 2000 W amplification and processing for a complete stereo sub / satellite system.

The electronics: integrates one 1000 W for the low frequency and 2 x 500 W high efficiency class D amplifiers for the top cabinets. The advanced analogue processor includes optical limiters for each channel, 24 dB phase-aligned crossovers, subsonic filters and EQ to provide a perfect match between amplifiers and loudspeakers for optimum acoustic output and reliability.

The use of high efficiency class D amplifier for the subwoofer and for the tops ensures small size, reduced weight and superb sonic performance.

The loudspeaker: 15" high power, long excursion neodymium ultra low distortion woofer providing powerful and extended low frequency response down to 38 Hz. The loudspeaker is 4 Ohm, consuming the whole power of 1000 W from the class D amplifier and therefore can not drive an additional passive subwoofer. The cabinet incorporates extremely long excursion and a state-of-the-art 15" neodymium driver found only in top of the range concert systems. Optimal output v / s volume.

System integration: Optimized to work together with the G-, K- and D-Series full range passive cabinets, the PW15A-Pro can be connected to diverse mid-high loudspeakers for different applications to build a complete stereo sub / satellite system without the need for additional processing and amplifier racks. The system can not drive an additional passive subwoofer. Optimal output v / s volume.

Applications: Used in a wide variety of configurations they provide compact and economical plug and play solution for bands, small PA-systems, mobile DJ's or permanent installations.

System components:

G308
K289i



TECHNICAL SPECIFICATIONS:

Type:	Active tri-amp subwoofer with amp. outlets for tops
Application:	Small / medium venues
Frequency response:	38 Hz to 100Hz
Maximum SPL peak:	132dB
Amplifier Sub:	Class D
Max. power output (RMS):	1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	0.04 % @ 1000 W, 100 Hz, 4 Ohm
Amplifiers Top:	2 x 500 W Class D, 8 Ohm continuous, 2 x 600 W burst
THD+N	< 0,001 %
Components:	15" neodymium high excursion woofer 4 Ohm, 4" (101 mm) voice coil, 1200W (AES)
Crossover:	28 Hz high pass 18 dB, 100 Hz low-pass 24 dB, EQ
Input:	Balanced
Connectors:	L+R female XLR / TRS Jacks; L+R male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0,775V (RMS)
External speaker outputs:	L, R, Sub, 3 x Neutrick™ NL4MP (8 Ohm only)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	2800 W peak, 1400 W continuous (max)
LED Indicators:	Power on, Signal, 0-dB, LF Limit, HF Limit, Overload
Controls:	Volume: Sub, Top-L, Top-R, Gain: -9dB, +3dB
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	510 x 454 x 650 mm
Net weight:	46 kg

D-Core 5

D-Core5.5 is a compact sub / sat system for bands, mobile DJ 's as well as general PA applications, 2000 W amplification, incl. PW15a-Pro, 2 x G308.



D-Core5.6 is a compact sub / sat system for bands, mobile DJ 's as well as general PA applications, 2000 W amplification, incl. PW15A-Pro, 2 x K289i.



PW18A-Pro

- Active tri-amp subwoofer including amplifier outlets for stereo tops
- Coda Audio 18" Neodymium ultra low distortion woofer
- 1000 W plus 2 x 500 W class D amplifiers
- Low power compression, superb sound quality
- Optical Limiters for state-of-the-art protection
- Optimized to power the Coda G-, K- and D-Series passive cabinets

PW18A-Pro is an active tri-amp subwoofer with amplifier outlets for passive tops containing 2000 W amplification and processing for a complete stereo Sub / Sat system.

The electronic: integrates one 1000 W high efficiency class D amplifier for the low frequency and 2 x 500 W class D amplifiers for the top cabinets. The advanced analogue processor includes optical limiters for each channel, 24 dB phase-aligned crossovers, subsonic filters, EQ's etc to provide a perfect match between amplifiers and loudspeakers for optimum acoustic output and reliability.

The use of high efficiency class D amplifiers for the subwoofer and for the tops ensures small size, reduced weight and superb sonic performance.

The loudspeaker components: high power high excursion neodymium ultra low distortion woofers provide powerful and extended low frequency response.

The incorporated 18" loudspeaker is 4 Ohm, consuming the whole power of 1000 W from the class D amplifier and therefore can not drive additional passive subwoofers. The cabinet incorporates extremely high excursion, state of the art 18" neodymium driver found only in top of the range concert systems. Optimal output v / s volume.

System integration: Optimized to work together with the G-, K- and D-series full range passive cabinets, the PW18A-Pro active subwoofer can be connected to diverse mid-high loudspeakers for different applications to build a complete stereo Sub/Sat system while replacing multiple 19" audio gear and eliminate the need of external racks.

Applications: Used in a wide variety of configurations they provide compact and economical plug and play solution for bands, small touring PA-systems, mobile DJ's or permanent installations.



System components:
G512-96
G308

TECHNICAL SPECIFICATIONS:	
Type:	Self-powered subwoofer cabinet and satellite amps
Application:	Small / medium venues subwoofer
Frequency response:	30 Hz to 80 Hz
Maximum SPL peak:	131 dB
Amplifier Sub:	Class D
Max. power output (RMS):	1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	0.04 % @ 1000 W, 100 Hz, 4 Ohm
Amplifiers Top:	2 x 500 W Class D, 8 Ohm continuous 2 x 600 W burst
Components	18" high excursion woofer 4 Ohm, 4" (101.6 mm) voice coil, 1200 W (AES)
Crossover:	20 Hz high pass 18 dB, 100 Hz low-pass 24 dB, EQ
Input:	Balanced
Connectors:	L+R female XLR / TRS Jack; L+R male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
External speaker outputs:	L, R, Sub, 3x Neutrick™ NL4MP (8 Ohm only)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	2800 W peak, 1400 W continuous (max)
LED Indicators:	Power on, Signal, 0- dB, LF Limit, Overload
Gain:	-9 dB, +3 dB
Controls:	Volume: Sub, Top-L, Top-R
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	580 x 690 x 624 mm
Net weight:	59 kg

D-core 8

D-Core8.6 is an active compact sub / sat system for bands, mobile DJ 's as well as general PA applications, 2000 W amplification, incl. PW18A-Pro, 2 x G512-96.

D-core 8.6



D-Core8.7 is a distributed four point system for small clubs, theatres, shopping centres or corporate AV events, 2000 W amplification, incl. PW18A-Pro, 4 x G308.

D-core 8.7



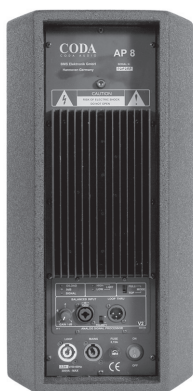
AP8

- Compact self-powered, bi-amped full range System
- Coda Audio 1" compression driver
- Conical waveguide for better directivity and less distortion
- High SPL, superb quality sound
- Optical limiters for state-of-the-art protection
- Vertical or horizontal use
- M6 suspension points and air cargo flying track

The AP8 is a compact two-way self-powered full range system incorporating two high performance MOSFET amplifiers. The integrated control electronics includes optical limiters for each channel, 24 dB phase-aligned asymmetrical crossover, EQ etc and provides a perfect match between amplifiers and loudspeakers for optimum acoustic output and reliability.

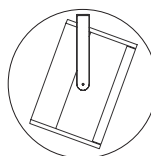
The system contains an 8" long excursion woofer and a 1" high frequency driver mounted on a 90° conical waveguide. The AP8 has been engineered to produce powerful low frequency response and very clear high-end with a linear phase and frequency response up to 30 kHz.

Applications include convention centers, theatres, corporate events, television, nightclubs, band PA and under balcony fills.

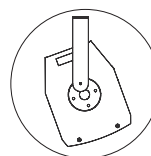


System components:
PW112A/PW112

Accessories:



CU88V
U-bracket
vertical



CU8AH
U-bracket
horizontal



5740
Cargo stud
with ring

TECHNICAL SPECIFICATIONS:	
Type:	2-way self-powered full range system
Application:	Superior quality short throw
Frequency response:	60 Hz - 30 kHz (-3 dB)
Max. SPL peak:	122 dB
Dispersion:	90° Conical
Amplifiers:	MOSFET
low:	150 W Continuous, 300 W Burst
high:	70 W Continuous, 140 W Burst
THD, IM, TIM:	< 0.1 %
Components:	
Low frequency:	8" / 2" VC
High frequency:	1" driver on symmetric waveguide
Crossover:	1900 Hz / 24 dB
Input:	Balanced
connectors:	1 x female XLR, 1 x male XLR loop (Pin 2+;3-;1Gnd)
impedance:	10 kOhm
AC connector:	1 x Neutrick™ PowerCon
ACpow. req.:	450 W peak, 230 W continuous (max)
LED indicators:	Power on, Signal, 0-dB, LF Limit, HF Limit, Overload
Controls:	2 x High Pass Filter (Full-range / Top)
Suspension:	1 x air cargo truck and 4 x M6 threaded points
Enclosure material:	Baltic birch
Finish:	Textured black Paint
Dimensions:	250 x 480 x 305 mm
Net weight:	17 kg



AP12

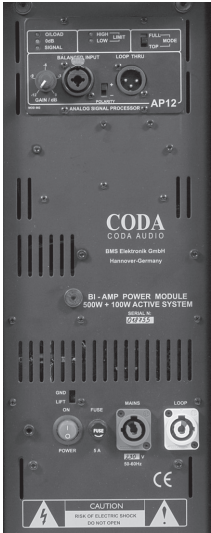
- 2-way coaxial self-powered, versatile full range system
- Coda Audio Neodymium 12" coaxial loudspeaker, 80° x 60° waveguide
- 500 W RMS class D amplifier for the low frequency and a 100 W RMS MOSFET amplifier for the high frequency
- Single point source system providing coherent wave front
- Improved transient response
- Very high SPL, superb quality sound
- Smaller size, reduced weight
- M6 suspension points and air cargo flying track

The Coda Audio AP12 is a coaxial 2-way self-powered bi-amped full range loudspeaker system designed without compromise to provide a true one point source in a small package.

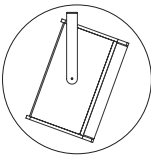
The cabinet contains an extremely high power 12" neodymium woofer and a coaxially mounted neodymium driver with an 80° x 60° elliptical waveguide. The advanced design aligns the acoustical centres of the transducers to produce a single point source. This unique loudspeaker technology provides a coherent wave front without hot spots. Precise directivity ensures uniform coverage with perfect time alignment between the components. The use of a high efficiency class D amplifier for the low frequency and MOSFET amplifier for the high frequency ensure small size, reduced weight and superb sonic performance. The AP12 incorporates a multi design enclosure enabling it to be used as a front of house full range unit or as a floor monitor. The addition of an integral top hat and flying hardware as standard allows for multipurpose applications and placement.

Applications include convention centers, theatres, corporate events, nightclubs, stage monitor and band PA.

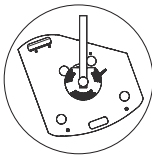
- System components:
- PW115A/PW115
 - PW118A/PW118



Accessories:



CU12AV
U-bracket
vertical



CU12AH
U-bracket
horizontal



5740
Cargo stud
with ring

TECHNICAL SPECIFICATIONS:	
Type:	2-way coaxial self-powered full range system
Application:	High level short to medium throw
Frequency response:	64 Hz - 20 kHz (- 3dB)
Maximum output long term:	125 dB
Maximum output peak:	131 dB
Dispersion:	80° x 60°
Amplifiers low range:	Class D
Power output (RMS):	500 W / 4 Ohm
Peak output current:	> 45 A
THD+N:	< 0.02 % @ 500 W, 1 kHz, 4 Ohm
Amplifier high range:	Mosfet 180 W (RMS), 500 W Burst
THD+N:	< 0.02 %
Components:	
Low frequency:	12" neodymium woofer 3" (77 mm) voice coil, 500 W (AES)
High frequency:	neodymium driver 1.75" (44.4 mm) voice coil, 80 W (AES)
Crossover:	1.3 kHz / Active
High pass filter:	46 Hz / 18 dB
Input:	Balanced
Connectors:	1x female XLR/ TRS Jack; 1x male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	1000 W peak, 600 W continuous (max)
LED Indicators:	Power on, Signal, 0-dB, LF limit, HF limit, Overload
Gain:	-9 dB, +3 dB
Controls:	Bass EQ +6 dB @ 46 Hz on/off
Enclosure shape:	Multi-design
Suspension:	1 x air cargo tracks and 8xM6 treaded points
Enclosure material:	15 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	348 x 543 x 348 mm
Net weight:	23 kg

AP15

- 2-way coaxial self-powered, versatile full range system
- Coda Audio Neodymium 15" coaxial loudspeaker, 80° x 60° waveguide
- 500 W RMS class D amplifier for the low frequency plus 100 W RMS MOSFET amplifier for the high frequency
- Single point source system providing coherent wave front
- Improved transient response
- Very high SPL, superb quality sound
- Smaller size, reduced weight
- M6 suspension points and air cargo flying track

The Coda Audio AP15 is a coaxial 2-way self-powered bi-amped full range loudspeaker system designed without compromise to provide a true one point source in a small package. The cabinet contains an extremely high power 15" neodymium woofer and a coaxially mounted neodymium driver with an 80° x 60° elliptical waveguide.

The advanced design aligns the acoustical centres of the transducers to produce a single point source. This unique loudspeaker technology provides a coherent wave front without hot spots. Precise directivity ensures uniform coverage with perfect time alignment between the components.

The use of a high efficiency class D amplifier for the low frequency and MOSFET amplifier for the high frequency ensure small size, reduced weight and superb sonic performance.

The AP15 incorporates a multi design enclosure enabling it to be used as a front of house full range unit or as a floor monitor. The addition of an integral top hat and flying hardware as standard allows multipurpose applications and placement.

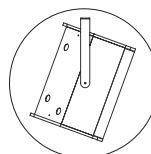
Applications include convention centers, theatres, corporate events, nightclubs, stage monitor and band PA.

System components:

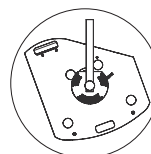
PW115A/PW115
PW118A/PW118



Accessories:



CU15AV
U-bracket
vertical



CU15AH
U-bracket
horizontal



5740
Cargo stud
with ring

TECHNICAL SPECIFICATIONS:

Type:	2-way coaxial self-powered full range system
Application:	High level short to medium throw
Frequency response:	49 Hz - 20 kHz (-3dB)
Maximum output long term:	125 dB
Maximum output peak:	131 dB
Dispersion:	80° x 60°
Amplifiers low range:	Class D
Power output (RMS):	500 W / 4 Ohm
Peak output current:	> 45 A
THD+N:	< 0.02 % @ 500 W, 1 kHz, 4 Ohm
Amplifier high range:	Mosfet 180 W (RMS), 500 W Burst
THD+N:	< 0.02 %
Components:	
Low frequency:	15" neodymium woofer 3" (77 mm) voice coil, 500 W (AES)
High frequency:	neodymium driver 1.75" (44.4 mm) voice coil, 80 W (AES)
Crossover:	1.3 kHz / Active
High pass filter:	36 Hz / 18 dB
Input:	Balanced
Connectors:	1x female XLR/ TRS Jack; 1x male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	1000 W peak, 600 W continuous (max)
LED Indicators:	Power on, Signal, 0-dB, LF limit, HF limit, Overload
Gain:	-9 dB, +3 dB
Controls:	Bass EQ +6 dB at 46 Hz on/off
Enclosure shape:	Multi-design
Suspension:	1 x air cargo track and 8xM6 threaded points
Enclosure material:	15 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	420 x 584 x 450 mm
Net weight:	27 kg

AP20

- 3-way self-powered, bi-amped versatile full range system
- Unique Coda Audio 2" coaxial neodymium driver
- Coda Audio Neodymium 12" ultra low distortion woofer
- 500 W RMS (1100 W burst) class D amplifier for the low frequency plus 100 W RMS (250 W burst) MOSFET amplifier for the high frequency
- Very high SPL, superb quality sound
- Smaller size, reduced weight
- M6 suspension points and air cargo flying track

The Coda Audio AP20 is a versatile 3-way self-powered bi-amped full range loudspeaker system incorporating a 500 W high efficiency class D amplifier for the low frequency and a 100 W MOSFET amplifier for the high frequency range.

The system contains a high power 12" neodymium woofer and a 2" coaxial neodymium driver coupled to a 90° x 55° wave-guide.

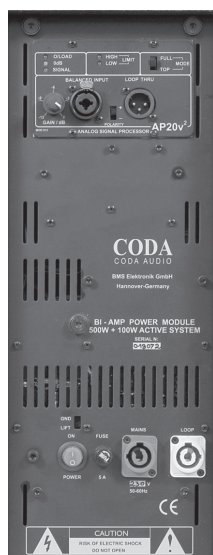
The AP20 incorporates a multi design enclosure enabling it to be used as a front of house full range unit or as a floor monitor. The addition of an integral top hat and flying hardware as standard allows multipurpose applications and placement.

Applications include convention centers, theatres, corporate events, nightclubs, stage monitor and band PA.

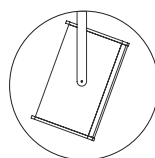
System components:

PW118A/PW118

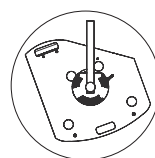
PW215A



Accessories:



CU12AV
U-bracket
vertical



CU20AH
U-bracket
horizontal



5740
Cargo stud
with ring



TECHNICAL SPECIFICATIONS:

Type:	3-way self-powered full range multidesign system
Application:	High level short throw or stage monitor
Frequency response:	60 Hz - 20 kHz (-3 dB)
Maximum output long term:	125 dB
Maximum output peak:	131 dB
Dispersion:	90° x 55°
Amplifiers low range:	Class D
Power output (RMS):	500 W / 4 Ohm
Peak output current:	> 45 A
THD+N:	< 0.02 % @ 500 W, 1 kHz, 4 Ohm
Amplifier high range:	Mosfet 100 W (RMS), 250 W Burst
THD+N:	< 0.02 %
Components:	
Low frequency:	12" neodymium woofer
	3" (77 mm) voice coil, 500 W (AES)
High frequency:	2" neodymium coaxial driver
	3.5" (90 mm) +1.75" (44.4 mm) VC, 150+ 80 W
Crossover:	700 Hz /24 dB Active, 6.3 kHz 18 db Passive
High pass filter:	44 Hz / 18 dB
Input:	Balanced
Connectors:	1 x female XLR / TRS Jack;
	1 x male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	1000 W peak, 600 W continuous (max)
LED Indicators:	Power on, Signal, 0-dB, LF limit, HF limit, Overload
Gain:	-9 dB, +3 dB
Controls:	Full range / Top
Enclosure shape:	Multi-design
Suspension:	1 x air cargo track and 8 x M6 threaded points
Enclosure material:	15 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	348 x 594 x 390 mm
Net weight:	25 kg

AP24

- 3-way self-powered, bi-amped versatile full range system
- Unique Coda Audio 2" coaxial neodymium driver
- Coda Audio Neodymium 15" ultra low distortion woofer
- Rotatable waveguide for vertical or horizontal use
- 500 W RMS class D amplifier for the low frequency plus 100 W RMS MOSFET amplifier for the high frequency
- Very high SPL, superb quality sound
- Smaller size, reduced weight
- M6 suspension points and air cargo flying track

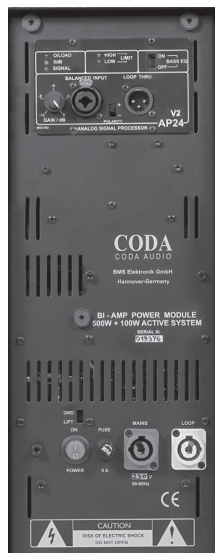
The Coda Audio AP24 is a versatile 3-way self-powered bi-amped full range loudspeaker system incorporating a 500 W high efficiency class D amplifier for the low frequency and one 100 W MOSFET amplifier for the high frequency range.

The system contains an extremely high power 15" neodymium woofer and a 2" coaxial neodymium driver mounted on a rotatable waveguide.

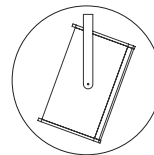
The AP24 incorporates a multi design enclosure enabling it to be used as a front of house full range unit or as a floor monitor. The addition of an integral top hat and flying hardware as standard together with the ability to rotate the elliptical waveguide allows multipurpose applications and placement.

Applications include convention centers, theatres, corporate events, nightclubs, stage monitor and band PA.

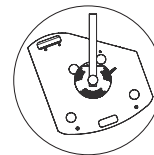
System components:
PW118A/PW118
PW215A



Accessories:



CU15AV
U-bracket
vertical



CU24AH
U-bracket
horizontal



5740
Cargo stud
with ring

TECHNICAL SPECIFICATIONS:

Type:	3-way self-powered full range multidesign system
Application:	High level short to medium throw
Frequency response:	49 Hz - 21 kHz (-3 dB)
Maximum output long term:	125 dB
Maximum output peak:	131 dB
Dispersion:	70° x 50°
Amplifiers low range:	Class D
Power output (RMS):	500 W / 4 Ohm
Peak output current:	> 45 A
THD+N:	< 0.02 % @ 500 W, 1 kHz, 4 Ohm
Amplifier high range:	Mosfet 180 W (RMS), 500 W Burst
THD+N:	< 0.02 %
Components:	
Low frequency:	15" neodymium woofer 3" (77 mm) voice coil, 500 W (AES)
High frequency:	2" neodymium coaxial driver 3.5" (90 mm) +1.75", 150 W + 80 W
Crossover:	500 Hz / 24 dB Active, 6.3 kHz 18 dB Passive
High pass filter:	36 Hz / 18 dB
Input:	Balanced
Connectors:	1x female XLR/ TRS Jack; 1x male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	1000 W peak, 600 W continuous (max)
LED Indicators:	Power on, Signal, 0-dB, LF limit, HF limit, Overload
Gain:	-9 dB, +3 dB
Controls:	Bass EQ +6 dB at 46 Hz on/off
Enclosure shape:	Multidesign
Suspension:	1 x air cargo track and 8 x M6 threaded points
Enclosure material:	15 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	420 x 744 x 450 mm
Net weight:	30.5 kg

AP25

- 3-way self-powered bi-amped full range system
- Unique Coda Audio 2" coaxial neodymium driver
- Coda Audio Neodymium 15" ultra low distortion woofer
- Elliptical waveguide
- 500 W RMS class D amplifier for the low frequency plus 100 W RMS MOSFET amplifier for the high frequency
- Very high SPL with extended low frequency response
- Air cargo flying tracks

The AP25 is an extremely high output, 3-way self-powered bi-amped full range system, engineered to deliver high fidelity sound in medium to long throw applications. The unique 2" neodymium coaxial driver mounted on a 60° x 40° elliptical waveguide produces an unparalleled clean mid / high range from 400 Hz.

The high power, long excursion 15" neodymium woofer provides powerful and extended low frequency response with immense headroom.

The use of a high efficiency class D amplifier for the low frequency and MOSFET amplifier for the high frequency ensures small size, reduced weight and superb sonic performance. The extremely high output and precise directivity of the AP25 are ideal for indoor or outdoor medium to long throw applications.

In a large array the AP25 will provide a coherent wave front and increased low frequency response. The system is very well suited for concert sound, theatres and clubs.

Applications include convention centers, concert sound, theatres, corporate events, television, nightclubs and band PA.

Accessories:



uni frame



5740
Cargo stud
with ring

System components:

PW118A
PW118
PW215A



TECHNICAL SPECIFICATIONS:

Type:	3-way self-powered full range multidesign system
Application:	High level medium to long throw
Frequency response:	46 Hz - 21 kHz (- 3dB)
Maximum output long term:	125 dB
Maximum output peak:	131 dB
Dispersion:	60° x 40°
Amplifiers low range:	Class D
Power output (RMS):	500 W / 4 Ohm
Peak output current:	> 45A
THD+N:	< 0.02 % @ 500 W, 1 kHz, 4 Ohm
Amplifier high range:	Mosfet 180 W (RMS), 500 W Burst
THD+N:	< 0.02 %
Components:	
Low frequency:	15" neodymium woofer 3" (77 mm) voice coil, 500 W (AES)
High frequency:	2" Neodymium coaxial driver 3.5" (90 mm) +1.75", 150 W + 80 W
Crossover:	500 Hz /24 dB Active, 6.3 kHz 18 db Passive
High pass filter:	36 Hz / 18 dB
Input:	Balanced
Connectors:	1x female XLR / TRS Jack; 1x male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	1000 W peak, 600 W continuous (max)
LED Indicators:	Power on, Signal, 0-dB, LF limit, HF limit, Overload
Gain:	-9 dB, +3 dB
Controls:	Bass EQ +6 dB at 46 Hz on/off
Enclosure shape:	Multidesign
Suspension:	3 x air cargo tracks and 8 x M6 treaded points
Enclosure material:	15 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	450 x 814 x 560 mm
Net weight:	37.6 kg

PW112A/PW112

- Self-powered high output subwoofer
- Coda Audio 12" neodymium ultra low distortion woofer
- 1000 W RMS (2000 W burst) at 4 Ohm Class D amplifier
- Capable to driving an additional passive woofer (PW112)
- Low power compression, superb quality sound
- Optical Limiter for state-of-the-art protection
- Integrated 24 dB high pass crossover output for mid / high bands

The PW112A is a compact self-powered high output subwoofer incorporating a 1000 W high efficiency class D amplifier. The integrated control electronics include an optical limiter, 24 dB phase-aligned crossovers and EQ to provide a perfect match between amplifier and loudspeaker for optimum acoustic output and reliability. The incorporated high pass crossover output (80 Hz or 125 Hz) enables easy integration of top cabinets without additional external processing.

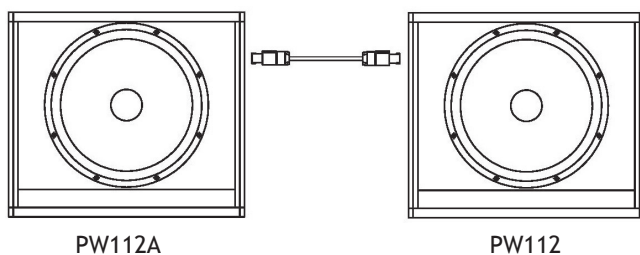
The high power 12" neodymium woofer provides powerful and extended low frequency response with immense head-room. An integrated speaker output enables the use of an additional passive subwoofer (PW112), providing an economical solution to increase the system maximal level to 135 dB / peak. The use of high efficiency class D amplifier together with the newly developed neodymium ultra low distortion woofer ensures small size, reduced weight and superb sonic performance.

Applications include small touring PA-systems or permanent installations.



Amp - PW112A

Sub+Sub System



PW112A

PW112

TECHNICAL SPECIFICATIONS PW 112:	
Power handling RMS:	600 W
Program power:	1200 W
Peak power:	2400 W
Sensitivity:	96 dB, 1 W / 1 m
Nominal impedance:	8 Ohm
Input connectors:	2 x Neutrick™ NL4MP
Dimensions:	450 x 394 x 530 mm
Net weight:	23 kg

Same as the PW112A without the amplifier.

TECHNICAL SPECIFICATIONS PW 112A:	
Type:	Self-powered subwoofer
Application:	Small / medium venues subwoofer
Frequency response:	35 Hz to 80 Hz or 125 Hz (switchable)
Maximum SPL peak:	129 dB single cabinet, 135 dB (PW112A + PW112 as a slave)
Amplifier:	Class D
Max. power output (RMS):	1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	0.04 % @ 1000 W, 100 Hz, 4 Ohm
Components:	12" neodymium ultra low 8 Ohm, 3" (77 mm) voice coil, 600 W (AES)
Crossover:	30 Hz high pass 18 dB, 80 Hz or 150 Hz low-pass 24 dB, EQ
Input:	Balanced
Connectors:	1x female XLR/ TRS Jack; 1x male XLR loop; 1x male XLR top-24dB high pass output at 80Hz or 125 Hz (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
External speaker output:	Neutrick™ NL4MP (8 Ohm only)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	2000 W peak, 1000 W continuous (max)
LED Indicators:	Power on, Signal, 0- dB, LF Limit, Overload
Gain:	-9 dB, +3 dB
Controls:	2 x High / Low Pass Filters
Suspension:	Optional
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	450 x 394 x 530 mm
Net weight:	31 kg

PW115A/PW115

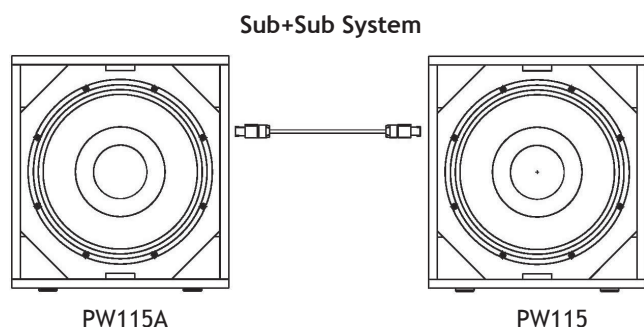
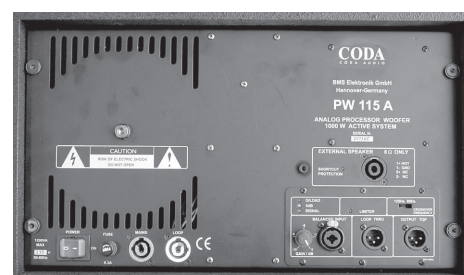
- Self-powered high output subwoofer
- Coda Audio 15" neodymium ultra low distortion woofer
- 1000 W RMS (2000 W burst) at 4 Ohm Class D amplifier
- Capable of driving an additional passive woofer (PW115)
- Low power compression, superb sound quality
- Optical Limiter for state-of-the-art protection
- Improved transient response
- Integrated 24 dB high pass crossover output for mid / high bands

The PW115A is a compact self-powered high output subwoofer incorporating a 1000 W high efficiency class D amplifier. The integrated control electronics include an optical limiter, 24 dB phase-aligned crossovers and EQ to provide a perfect match between amplifier and loudspeaker for optimum acoustic output and reliability. The incorporated high pass crossover output (80 Hz or 125 Hz) enables easy integration of top cabinets without additional external processing.

The high power 15" neodymium woofer provides powerful and extended low frequency response with immense headroom. An integrated speaker output enables the use of an additional passive subwoofer (PW115) providing an economical solution to increase the system maximal level to 137 dB / peak.

The use of high efficiency class D amplifier together with the newly developed neodymium ultra low distortion woofer ensures small size, reduced weight and superb sonic performance.

Applications include small touring PA-systems or permanent installations.



TECHNICAL SPECIFICATIONS PW 115:	
Power handling RMS:	600 W
Program power:	1200 W
Peak power:	2400 W
Sensitivity:	98 dB, 1 W / 1 m
Nominal impedance:	8 Ohm
Input connectors:	2 x Neutrick™ NL4MP
Dimensions:	450 x 484 x 600 mm
Net weight:	24 kg

Same as the PW115A without the amplifier.

TECHNICAL SPECIFICATIONS PW 115A:	
Type:	Self-powered subwoofer
Application:	Small / medium venues subwoofer
Frequency response:	38 Hz to 80 Hz or 125 Hz (switchable)
Maximum SPL peak:	131 dB single cabinet 137 dB (PW115A + PW115 as a slave)
Amplifier:	Class D
Max. power output (RMS):	1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	0.04 % @ 1000 W, 100 Hz, 4 Ohm
Components:	15" neodymium ultra low distortion woofer 8 Ohm, 3" (77 mm) voice coil, 600 W (AES)
Crossover:	30 Hz high pass 18 dB, 80 Hz or 150 Hz low-pass 24 dB, EQ
Input:	Balanced
Connectors:	1 x female XLR / TRS Jack; 1 x male XLR loop; 1 x male XLR top-24 dB high pass output at 80 Hz or 125 Hz (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
External speaker output:	Neutrick™ NL4MP (8 Ohm only)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	2000 W peak, 1000 W continuous (max)
LED Indicators:	Power on, Signal, 0- dB, LF Limit, Overload
Gain:	-9 dB, +3 dB
Controls:	2 x High / Low Pass Filters
Suspension:	Optional
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	450 x 484 x 600 mm
Net weight:	34 kg

installation + portable

passive

self-powered

PW118A/PW118

- Self-powered high output subwoofer
- Coda Audio 18" high excursion woofer
- 1000 W RMS (2000 W burst) at 4 Ohm Class D amplifier
- Capable of driving an additional passive woofer (PW118)
- Low power compression, superb sound quality
- Optical Limiter for state-of-the-art protection
- Integrated 24 dB high pass crossover output for mid / high bands

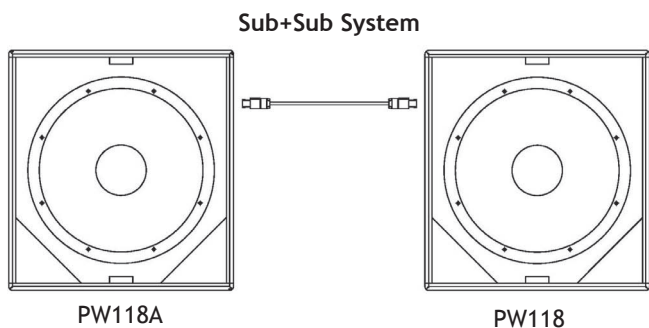
The PW118A is a compact self-powered high output subwoofer incorporating a 1000 W high efficiency class D amplifier. The integrated control electronics include an optical limiter, 24 dB phase-aligned crossovers and EQ to provide a perfect match between amplifier and loudspeaker for optimum acoustic output and reliability. The incorporated high pass crossover output (80 Hz or 125 Hz) enables easy integration of top cabinets without additional external processing.

The high power long excursion 18" woofer provides powerful and extended low frequency response with immense headroom. An integrated speaker output enables the use of an additional passive subwoofer providing an economical solution to increase the system maximal level to 137 dB / peak. The use of high efficiency class D amplifier ensures small size, reduced weight and superb sonic performance.

Applications include small touring PA-systems or permanent installations.



Amp - PW118A



TECHNICAL SPECIFICATIONS PW 118:	
Power handling RMS:	1000 W
Program power:	2000 W
Peak power:	4000 W
Sensitivity:	98 dB, 1 W / 1 m
Nominal impedance:	8 Ohm
Input connectors:	2 x Neutrick™ NL4MP
Dimensions:	580 x 624 x 690 mm
Net weight:	39 kg

Same as the PW118A without the amplifier.

TECHNICAL SPECIFICATIONS PW 118A:	
Type:	Self-powered subwoofer
Application:	Medium / large venues subwoofer
Frequency response:	38 Hz to 80 Hz or 125 Hz (switchable)
Maximum SPL peak:	131 dB single cabinet, 137 dB (PW118A + PW118 as a slave)
Amplifier:	Class D
Max. power output (RMS):	1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	0.04 % @ 1000 W, 100 Hz, 4 Ohm
Components:	18" high excursion woofer 8 Ohm, 4" (101.6 mm) voice coil, 700 W (AES)
Crossover:	30 Hz high pass 18 dB, 80 Hz or 125 Hz low-pass 24 dB, EQ
Input:	Balanced
Connectors:	1 x female XL R / TRS Jack; 1 x male XLR loop; 1 x male XLR top-24dB high pass output at 80 Hz or 125 Hz (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
External speaker output:	Neutrick™ NL4MP (8 Ohm only)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	2000 W peak, 1000 W continuous (max)
LED Indicators:	Power on, Signal, 0- dB, LF Limit, Overload
Gain:	-9 dB, +3 dB
Controls:	2 x High / Low Pass Filters
Suspension:	Optional
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	580 x 624 x 690 mm
Net weight:	46 kg

PW215A/PW215

- Self-powered high output subwoofer
- Coda Audio Double 15" ultra low distortion woofer
- 1000 W RMS (2000 W burst) Class D amplifier
- Low power compression, superb sound quality
- Optical Limiter for state-of-the-art protection
- Improved transient response
- Integrated 24 dB high pass crossover output for mid / high bands

The PW215A is a compact self-powered high output subwoofer incorporating a 1000 W high efficiency class D amplifier. The integrated control electronics include an optical limiter, 24 dB phase-aligned crossovers and EQ to provide a perfect match between amplifier and loudspeakers for optimum acoustic output and reliability.

The incorporated high pass crossover output (80 Hz or 125 Hz) enables easy integration of the top cabinets without additional external processing. The high power long excursion dual 15" woofers provide powerful and extended low frequency response with immense headroom.

The use of high efficiency class D amplifier ensures small size, reduced weight and superb sonic performance. Low port compression and optimized enclosure design give a tight, accurate bass response that is ideally suited to supplementing all Coda Audio full range enclosures.

Applications include bands, touring PA-systems or permanent installations.



Amp - PW215A only

TECHNICAL SPECIFICATIONS PW 215:	
Power handling RMS:	1200 W
Program power:	2400 W
Peak power:	4800 W
Sensitivity:	101 dB, 1 W / 1 m
Nominal impedance:	4 Ohm
Input connectors:	2 x Neutrick™ NL4MP
Dimensions:	450 x 944 x 690 mm
Net weight:	50.5 kg

Same as the PW215A without the amplifier.

TECHNICAL SPECIFICATIONS PW 215A:	
Type:	Self-powered subwoofer
Application:	Medium / large venues subwoofer
Frequency response:	40 Hz to 80 Hz or 125 Hz (switchable)
Maximum SPL peak:	137 dB
Amplifier:	Class D
Max. power output (RMS):	1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	0.04 % @ 1000 W, 100 Hz, 4 Ohm
Components:	2 x 15" ultra low distortion woofers 8 Ohm, 3" (77 mm) voice coil, 600 W (AES) each
Crossover:	30 Hz high pass 18 dB, 80 Hz or 150 Hz low-pass 24 dB, EQ
Input:	Balanced
Connectors:	1 x female XLR / TRS Jack; 1 x male XLR loop; 1 x male XLR top-24 dB high pass output at 80 Hz or 125 Hz (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
External speaker output:	Neutrick™ NL4MP (8 Ohm only)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	2000 W peak, 1000 W continuous (max)
LED Indicators:	Power on, Signal, 0- dB, LF Limit, Overload
Gain:	-9 dB, +3 dB
Controls:	2 x High / Low Pass Filters
Suspension:	Optional
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	450 x 944 x 690 mm
Net weight:	53 kg

PW418Av²/PW418v²

- High output subwoofer
- Double Coda Audio 18" neodymium ultra low distortion woofers
- Linear frequency response down to 28 Hz
- Maximum SPL 145 dB (peak)
- Low power compression

The **PW418** is a double 18" high output subwoofer that provides powerful and extended low frequency response with immense head-room. Low port compression and optimized enclosure design give a tight, accurate bass response that is ideally suited for touring, dance clubs and large installations.

State of the art drivers

The PW418 is equipped with twin extremely long excursion 18" neodymium ultra low distortion woofers. The neodymium motor delivers extreme high magnetic flux for increased efficiency. The 4" voice coil is 38 mm high, ensuring ultra linear excursion of 26 mm / pp at consistent magnetic force. State-of-the-art carbon-fiber cone ensures maximum stiffness and low moving mass. Three aluminum shorting rings reduce intermodulation distortion, minimize induction variation while reducing thermal compression. This design dramatically reduces the distortion of a typical subwoofer at longer excursion levels, and improves the overall sound quality and performance characteristics of the cabinet.

Applications:

The PW418 is perfect suited as a sub-extension for AIRLINE LA8 and G700-Series systems and can be used in arenas, houses of worship, theatres, club and open air.

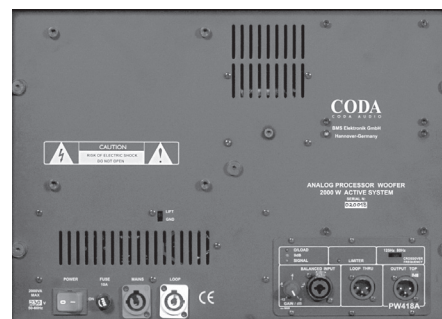
System Components:

Top: AIRLINE LA8 or G700 Systems
 Analogue Controller: AC24
 DSP Controller: DC426 or DNC260
 Amplifier: 2 x 3000 W @ 40hm
 (minimum 2 x 2200 W @ 4 Ohm)
 Cable: Speakon 2 x 4 mm²

TECHNICAL SPECIFICATIONS PW418v ² :	
Type:	2 x 18" subwoofer
Application:	High output subwoofer
Frequency response (-6 dB):	28 Hz to 120 Hz
Power handling (AES / Peak):	2500 W / 10000 W
Sensitivity 1 W / 1 m: ¹	105 dB
Maximum output peak: ²	145 dB
Components:	2 x 18" neodymium ultra low distortion woofers 4" (101.6 mm) voice coil, 1250 W (AES) each
Nominal impedance:	4 Ohm, +1 / -1
Input connectors:	2 x Neutrick™ NL4MP
Suspension:	optional
Enclosure material:	Baltic birch
Finish:	Textured black Paint
Dimensions (W x H x D):	1164 x 584 x 780 mm
Net weight:	85 kg

¹ Half-space loading

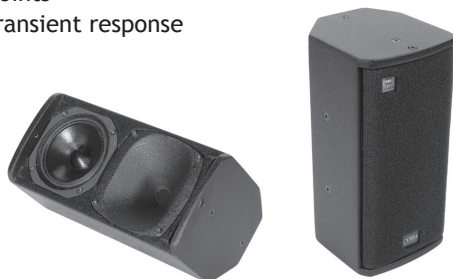
² Measured with pink noise 6 dB crest factor



TECHNICAL SPECIFICATIONS PW 418Av ² :	
Type:	Self-powered subwoofer
Application:	Medium / large venues subwoofer
Frequency response:	28 Hz to 80 Hz
Maximum SPL peak:	145 dB
Amplifier:	Class D
Max. power output (RMS):	2 x 1000 W / 4 Ohm
Peak output current:	50 A
THD+N:	0.04 % @ 1000 W, 100 Hz, 4 Ohm
Components:	2 x 18" ultra low distortion neodymium woofer 4 Ohm, 4" (101.6 mm) voice coil, 1250 W (AES) each
Crossover:	20 Hz high pass 18 dB, 80 Hz or 150 Hz low-pass 24 dB, EQ
Input:	Balanced
Connectors:	1 x female XLR / TRS Jack; 1 x male XLR loop; 1 x male XLR top-24dB high pass output at 80 Hz or 125 Hz (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
External speaker output:	Neutrick™ NL4MP (8 Ohm only)
AC Connector:	Neutrick™ PowerCon
AC power requirements:	4000 W peak, 2000 W continuous (max)
LED Indicators:	Power on, Signal, 0- dB, LF Limit, Overload
Gain:	-9 dB, +3 dB
Controls:	2 x High / Low Pass Filters
Suspension:	Optional
Enclosure material:	18 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	1164 x 584 x 780 mm
Net weight:	98 kg

K4

- Ultra compact 2-way versatile full range system
- Coda Audio 5" ultra low distortion woofer
- Elliptical waveguide for precise directivity and less distortion
- Superb sound quality
- M6 Flying points
- Improved transient response

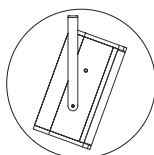


The Coda Audio K4 is an ultra compact versatile, full range, 2-way loudspeaker system that features a 5" ultra low distortion low frequency driver; the 1" compression driver is coupled to a rotatable 90° x 60° elliptical waveguide. The K4 incorporates a multi design enclosure enabling it to be used horizontally, vertically or as a floor monitor. The addition of flying hardware as standard together with the ability to rotate the elliptical waveguide allows multipurpose applications including conferences, corporate events, touring PA-systems and houses of worship.

System components:

AC24 PW12
C-Series Amplifiers PW12A

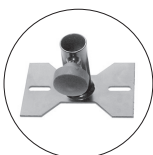
Accessories:



CU4V
U-bracket
vertical



68620
Truss clamp



195/8
Stand fitting

TECHNICAL SPECIFICATIONS:	
Type:	2-way full range multidesign
Application:	Superior quality short throw
Frequency response:	80 Hz - 30 kHz (- 3 dB)
Power handling AES:	125 W
Program power:	250 W
Peak power:	500 W
Sensitivity:	92 dB
Max. SPL peak:	118 dB
Dispersion:	90° x 60°
Components:	
Low frequency:	5" / 1.5" voice coil ultra low distortion woofer
High frequency:	1" / 1.5" voice coil compression driver
Crossover point:	1600 Hz Passive
Nominal impedance:	16 Ohm
Input connectors:	2 x Neutrick™ NL4MP
Enclosure material:	12 mm Baltic birch
Finish:	Textured black Paint
Flying Hardware:	8 x M6 treaded points
Dimensions:	160 x 330 x 184 mm
Net weight:	6 kg

K5

- Ultra compact 2-way full range system
- Coda Audio Double 5" ultra low distortion woofer
- Elliptical waveguide for precise directivity and less distortion
- Superb sound quality
- M6 flying points
- Improved transient response

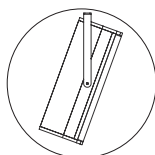


The Coda Audio K5 is an ultra compact full range 2-way loudspeaker system that features double 5" ultra low distortion cone drivers and a 1" compression driver coupled to a rotatable 90° x 60° elliptical waveguide. The addition of M6 flying points as a standard together with the ability to rotate the elliptical waveguide allows multipurpose applications including conferences, corporate events, touring PA-systems and houses of worship.

System components:

AC24 PW12
C-Series Amplifiers PW12A

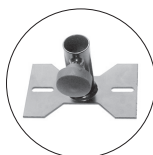
Accessories:



CU52V
U-bracket
vertical



68620
Truss clamp



195/8
Stand fitting

TECHNICAL SPECIFICATIONS:	
Type:	2-way full range
Application:	Superior quality short throw
Frequency response:	80 Hz - 30 kHz (- 3 dB)
Power handling AES:	250 W
Program power:	500 W
Peak power:	1.000 W
Sensitivity:	94 dB
Max. SPL peak:	124 dB
Dispersion:	90° x 60°
Components:	
Low frequency:	2 x 5" / 1.5" voice coil ultra low distortion woofer
High frequency:	1" / 1.5" voice coil compression driver
Crossover point:	1600 Hz Passive
Nominal impedance:	16 Ohm
Input connectors:	2 x Neutrick™ NL4MP
Enclosure material:	12 / 15 mm Baltic birch
Finish:	Textured black Paint
Flying Hardware:	6 x M6 treaded points
Dimensions:	160 x 480 x 184 mm
Net weight:	7 kg

K189i/K189-Pro

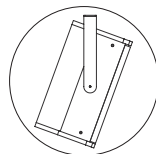
- Extremely compact multi design enclosure
- Wide coverage angles
- Coda Audio 1" patented compression driver
- Multiple fly-points for easy hanging



The Coda Audio K189 is a compact, full range, high output loudspeaker system that offers both high fidelity and high efficiency for a variety of applications. The asymmetric profile of the K189i / K189-Pro permits use as a front of house PA-system or as a stage monitor. Applications include clubs, touring PA-systems and corporate events.

System components:

AC24
C-Series Amplifiers
PW112
PW118
PW18A



CU88V
U-bracket
vertical



68620
Truss clamp



TECHNICAL SPECIFICATIONS:

Type:	2-way full range, Multidesign
Application:	High quality short throw
Frequency response:	60 Hz - 30 kHz (-3 dB)
Power handling AES:	220 W
Program power:	440 W
Peak power:	880 W
Sensitivity:	94.5 dB
Max. SPL peak:	124 dB
Dispersion:	90° Conical
Components:	
Low frequency:	8" / 2" voice coil ultra low distortion woofer
High frequency:	1" / 1.5" voice coil compression driver
Crossover point:	1900 Hz
Nominal impedance:	16 Ohm (K189-Pro), 8 Ohm (K189)
Input connectors:	2 x Neutrick™ NL4MP
Enclosure material:	15 mm plywood
Finish:	Textured black Paint
Flying Hardware:	2 x M6 (K189) 1 x AirCargo + 14 x M6 (K189-Pro)
Dimensions:	250 x 480 x 285 mm
Net weight:	11.5 kg (K189), 12 kg (K189-Pro)

K289i/K289-Pro

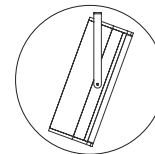
- Compact, high output full-range system
- Wide coverage angles
- Coda Audio 1" patented compression driver
- Multiple fly-points for easy hanging



The K289 contains a pair of low frequency 8" cone drivers with 2" voice coils, and a 1" high frequency driver mounted on a 90° conical waveguide. All Pro enclosures include 14 x M6 mounting suspension points and an air cargo flying track. Applications include front of house, clubs, touring PA-systems and corporate events.

System components:

AC24
C-Series Amplifiers
PW115
PW118
PW18A



CU82V
U-bracket
vertical



68620
Truss clamp

AC24

Analog Signal Processor - see page 45 for further information.



TECHNICAL SPECIFICATIONS:

Type:	2-way full range
Application:	High quality short throw
Frequency response:	55 Hz - 30 kHz (-3 dB)
Power handling AES:	440 W
Program power:	880 W
Peak power:	1760 W
Sensitivity:	97.5 dB
Max. SPL peak:	130 dB
Dispersion:	90° Conical
Components:	
Low frequency:	2 x 8" / 2" voice coil ultra low distortion woofer
High frequency:	1" / 1.5" voice coil compression driver
Crossover point:	1900 Hz
Nominal impedance:	16 Ohm (K289-Pro), 4 Ohm (K289)
Input connectors:	2 x Neutrick™ NL4MP
Enclosure material:	15 mm plywood
Finish:	Textured black Paint
Flying Hardware:	3 x M6 (K289) 1 x AirCargo + 14 x M6 (K289-Pro)
Dimensions:	250 x 700 x 300 mm
Net weight:	17 kg (K289), 18 kg (K289-Pro)

Rx 35

- Light weight, very high power 900 W
- Unique Coda Audio 2 " coaxial neodymium driver
- Coda Audio 15"neodymium ultra low distortion woofer
- Elliptical waveguide for precise directivity and less distortion
- Easily arrayable
- Designed for fixed installation and touring

The Rx35 is an extremely high output 3-way full range system, engineered to deliver high fidelity sound in medium to long throw applications. The 2" neodymium coaxial driver mounted on a 60° x 40° elliptical waveguide produces an unparalleled clean mid /high range from 470 Hz. The high power 15" neodymium woofer provides powerful and extended low frequency response with immense headroom. As a 3-way system, the Rx35 may be driven passively or with bi-amplification to provide extremely high acoustic output. The Rx35 cabinet includes an integral top hat and 5 x air cargo flying tracks enabling easy suspension for both fixed installation using M6 eyebolts or touring applications using clip-on cargo spring stud. The extremely high output and precise directivity of the Rx35 are ideal for medium, long throw and outdoor applications. In a large array the Rx35 will provide a coherent wave front and increased low frequency response.

Applications include convention centers, theatres, corporate events, nightclubs and band PA.



installation + touring

passive

Accessories:



uni frame



5740
Cargo stud
with ring

System Components:

AC24
C-Series Amplifiers
PW118
PW215

AC24

Analog Signal Processor - see page 45 for further information.



TECHNICAL SPECIFICATIONS:

Type:	3-way compact full range
Application:	High level medium/long throw
Frequency response:	44 Hz - 21k Hz (- 3 dB)
Power handling AES:	900 W
Peak power:	3600 W
Sensitivity:	99 dB
Max. SPL peak:	135 dB
Dispersion:	60° x 40°
Components:	
Low frequency:	15" neodymium woofer
	4" (101.6 mm) voice coil, 900 W (AES)
High frequency:	2"neodymium coaxial driver
	3.5" (90 mm) + 1.75" (44.4 mm) VC,
	150 W + 80 W
Crossover:	470 Hz, 6.3 kHz Passive
Nominal impedance:	8 Ohm
Input connectors:	2 x Neutrik™ NL4MP
Suspension:	5x air cargo tracks
Enclosure material:	15 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	450 x 814 x 560 mm
Net weight:	35 kg

Rx40

- 3-way compact full range system
- Light weight, very high power 1000 W
- Unique Coda Audio 2" coaxial neodymium driver
- Double Coda Audio 12" neodymium ultra low distortion woofers
- Passive or Bi-amplified operation
- Designed for fixed installation and touring

The Rx40 is an extremely high output, 3-way full range system, engineered to deliver high fidelity sound in medium to long throw applications. The unique 2" neodymium coaxial driver mounted on a 60° x 40° waveguide produces an unparalleled clean mid / high range from 700 Hz. The double high power 12" neodymium woofer provides powerful and extended low frequency response with immense headroom. As a 3-way system, the Rx40 may be driven passively or with bi-amplification to provide extremely high acoustic output. The system includes 5 x air cargo flying tracks enabling easy suspension for both fixed installation using M6 eyebolts or touring applications using clip-on cargo spring stud. The extremely high output and precise directivity of the Rx40 are ideal for medium, long throw and outdoor applications. The system is very well suited for bands, theatres or clubs.

Applications include convention centers, theatres, corporate events, nightclubs and band PA.

System Components:

AC24

C-Series Amplifiers

PW118

PW215

PW418



TECHNICAL SPECIFICATIONS:

Type:	3-way full range multi design
Application:	High level medium throw
Frequency response:	60 Hz - 21k Hz (- 3 dB)
Power handling AES:	1000 W
Peak power:	4000 W
Sensitivity:	101 dB
Max. SPL peak:	137 dB
Dispersion:	60° x 40°
Components:	
Low frequency:	2x 12" neodymium woofer
	3" (77 mm) voice coil, 500 W each
High frequency:	2" neodymium coaxial driver
	3.5" (90 mm) + 1.75" (44.4 mm) VC, 150 W + 80 W
Crossover:	700 Hz, 6.3 kHz Passive
Nominal impedance:	4 Ohm
Input connectors:	2 x Neutrik™ NL4MP
Suspension:	5x air cargo tracks
Enclosure material:	15 mm Baltic birch
Finish:	Textured black Paint
Dimensions:	360 x 924 x 430 mm
Net weight:	33 kg

Accessories:



uni frame

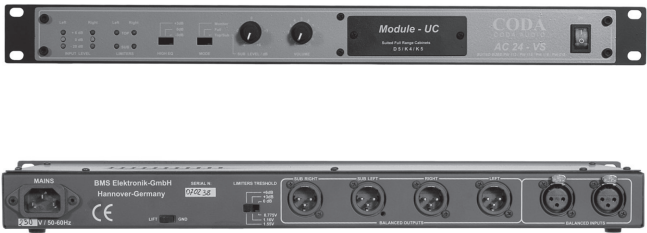


5740
Cargo stud
with ring



AC24 Analogue Signal Processor

- 2 inputs, 4 outputs
- Full range mode
- Monitor mode
- Subwoofer / Satellite mode
- 24dB / octave Linkwitz-Riley crossovers
- Subsonic filters
- High frequency EQ
- Optical limiters
- Limiter threshold selector
- Maximum dynamic range



The AC24 stereo controller contains two inputs and four outputs providing crossover, equalization and limiter functions to optimize the frequency response of all Coda Audio passive cabinets, either in full range, stage monitoring or in combination with subwoofers. Utilizing different modules the AC24 precisely matched to Coda G-Series, D-Series and K-Series full range cabinets as well as the PW-Series subwoofers.

TECHNICAL SPECIFICATIONS:	
Inputs	Electronically balanced 11 kOhm input (pin 2 hot)
Outputs	Electronically balanced 60 Ohm input (pin 2 hot)
Input Headroom	+ 22 dB
S/N Ratio low outputs	≥ 86 dB
S/N Ratio high outputs	≥ 94 dB
Dynamic Range	≥ 108 dB
THD	- 0.01% (20 Hz to 20 kHz at 0 dB)
Front + Rear Side:	
Input Level Indicators	- 20 dB green
	0 dB yellow
	+ 6 dB red (for each channel)
Limiter Indicators	Red for each output
Volume	0 to 10 for both channels
Sub level	-/+ 6 dB for both channels
High EQ	- 3 dB
	0 dB
	+ 3 dB
mode	Monitor / Full / Top-Sub
Limiters Treshold	0 dB
	+ 3 dB
	+ 6 dB
Lift-GND	Switch on rear panel
Power	230 or 115 VAC, 50 - 60 Hz, 20 V A
Physical:	
Finish	Black with light grey text
Dimensions H x W x D	1 U, 44.4 x 483 x 210 mm, 1.75" x 19" x 8.3"
Net weight	2.8 kg
Shipping weight	3.3 kg
Shipping dimensions:	95 x 510 x 275 mm, 3.75" x 20" x 10.8"

Controller Type	Module	Cabinet Top	Cabinet Sub
AC24VS	UC	D5, K4, K5	PW112, PW115, PW118, PW215
AC24VL	UC	D5, K4, K5	PW12, PW418
AC24VS	S	G308, D8, K189i / K189-Pro, K289i / K289-Pro	PW112, PW115, PW118, PW215
AC24VL	S	G308, D8, K189i / K189-Pro, K289i / K289-Pro	PW12, PW418
AC24VS	M	G512-96, G515-96, G712-96, Rx40	PW112, PW115, PW118, PW215
AC24VL	M	G512-96, G515-96, G712-96, Rx40	PW12, PW418
AC24VS	L	G715-96, Rx35	PW112, PW115, PW118, PW215
AC24VL	L	G715-96, Rx35	PW12, PW418

DC426 Digital Controller

- 2 inputs and 6 outputs - native processing now runs at 96 kHz resulting in wider bandwidth (over 30 kHz)
- Improved converters-lower noise and improved distortion figures
- Extended processing capabilities - 9 (previously 5) full bandwidth parametric bands are available on every output all switchable between PEQ high and low shelving responses
- Further extended processing capabilities - crossover filters on each output now offer 48 dB / octave responses on top of the previously available 12 to 24 dB / octave options. A gentle 6 dB / octave roll-off response is also now included
- Flexible routing matrix available - in addition to standard fixed configurations such as 2 x 3 way (standard configurations are still implemented) any output may be fed from any input or the sum of inputs. Edit buttons show routing instantly when pressed
- Legendary look-ahead limiters with automatic and manual time constant facilities.
- Delay memory allows for up to 650 ms from any input to any output - extra fine delay resolution on outputs for driver alignment in 30 ms (0.1 mm) steps!
- Extended memory capacity - user memories now extended from 9 to a maximum of 255.
- Library manager software available for design presets - design your crossover live whilst connected to the unit and lock out any parameters as required to prevent end user adjustment/viewing. No practical limit to the number of presets that may be stored (over and above the user memories).
- Auto switching power supply works worldwide on all voltages.

As a successor to the DC26 the new 2-in 6-out audio management system from Coda Audio offers advanced processing capabilities and improved performance along with extra features as standard.

Optional:

AES Input and / or Output

AES capabilities may be added as inputs (with sample rate conversion), outputs or both. Accepts AES rates from 32k Hz up to 192 kHz via a sample rate converter. Output sample rate fixed at 96 kHz. Front panel indication of AES selection and AES lock status. If an AES interface is specified, metalwork will be supplied with appropriate indicators and rear panel switching as required.



TECHNICAL SPECIFICATIONS:	
Inputs	Two electronically balanced
Impedance	>10 k ohms
CMRR	< 65 dB 50 Hz - 10 kHz
Outputs	Six electronically balanced
Source Imp.	< 600 Ohm
Min. Load	600 Ohm
Max. Level	+20 dBm into 600 Ohm load
Frequency Response	0.5 dB 10 Hz - 32 kHz
Dynamic Range	>116 dB 10 Hz - 20 kHz unwt'd.
Distortion	< 0.001 % @ 1 kHz, + 10 dBm
Maximum Delay	650 ms (increment 0.325 μ s steps)
Output gain	Adjustable +15 dB to -40 dB in 0.1 dB steps and mute
Parametric Equalisation:	
Filters	9 per output
Filter gain	+15 dB to - 30 dB in 0.1 dB steps
Centre frequency	20 Hz - 32 kHz, 1 / 36 octave steps (392 positions)
Filter Q/BW	0.4 to 128 / 2.5 to 0.008
High and Lowpass filters:	
Filters	1 of each per output
Frequency (HPF)	10 Hz - 32 kHz, 1 / 36 octave
Frequency (LPF)	35 Hz - 32 kHz, 1 / 36 octave
Response	Bessel / Butterworth
	6 / 12 / 18 / 24 / 48 dB per octave, Linkwitz-Riley 12 / 24 / 48 dB per octave
Limiters:	
Threshold	+22 dBu to -10 dBu
Attack time	0.3 to 90 milliseconds
Release time	4,8,16 or 32 times the attack time
Clip/D-max Limiter	Look-ahead attack time, fast, middle or slow release times
Connectors	Inputs 3 pin female XLR, Outputs 3 pin male XLR, RS232 (9 Pin)
Power Connector	3 Pin IEC
Power Supply	60 VAC - 240 VAC
Consumption	< 40 Watts
Weight	3.5 kg Net (5 kg shipping)
Size	44 x 482 x 305 mm, 1.75" (1U) x 19" x 11.8", excl. connectors

DNC260 Digital System Controller

- Two balanced inputs and six balanced outputs
- High quality 96 kHz audio processing
- Easy to use
- Factory presets for all Coda Audio Systems
- Customer presets
- PC control
- C-NET networking option

Key Features

The Coda Audio DNC260 System Controller is a high performance, easy to use signal processor containing presets for all Coda Audio loudspeaker systems. The DNC260 provides generous amounts of signal processing capability and is complemented by a highly flexible parameter arrangement ideally suited to touring and installation applications.

Sonic Purity

The DNC260 uses 96Hz sampling rate, Burr-Brown analogue-to-digital converter, Wolfson multi-bit digital-to-analogue converter, and a powerful generation Sharc Digital signal Processor. All this adds up to deliver the ultimate in sonic transparency and a stunning open natural sound quality.

Factory Presets

The DNC260 has complementary preset library for all Coda Audio loudspeaker systems. Presets are stored permanently.

User Presets

The user cannot access or overwrite the factory presets but can effectively overlay the factory settings using master EQs to match different acoustic environments or apply delay for time alignment or change gains to create and save their own variants.

Parameter ranges

- Input Gain -80 to +20dB
- Input Delay 0 to 405ms
- Input HPF Freq. 20Hz to 25 Hz
- Input HPF shapes 1st order, Bes12, But12, LR12, Bes18, But18, Bes24, But24, LR24, Hardman4th
- Output Gain -80 to +20dB
- Output Polarity Norm, Invert
- Output Delay 0 to 80ms
- Para EQ Freq 10Hz to 25 Hz
- Para EQ Width 0.1 to 5.2 Oct Q 0.2 to 14.2
- Para EQ Gain -15 to +15dB
- Para EQ Slope 6 to 12dB
- Shelf EQ Freq 10Hz to 25 Hz
- Shelf EQ Gain -15 to +15dB



TECHNICAL SPECIFICATIONS	
Input impedance:	10 Ohm balanced
Output Imp:	100 R Gnd balanced
Max Input level:	+20 dBu
Max Output level:	+20 dBu into 600 R
Sample rate:	96 kHz
Frequency Resp:	20 Hz - 20 Hz +/-0.5 dB 10Hz - 40 Hz +/- 3 dB
Dynamic range:	112 dB (A weighted, 22 kHz bandwidth)
THD (20Hz-20 Hz):	0.008% Typ Connectors
Audio Inputs:	3 pin female XLR
Audio Outputs:	3 pin male XLR
Serial comms:	RS232 port via 9 pin female D
Network comms:	Only available as an option
Mains:	3 pin IEC
Mains Power:	Universal switch-mode PSU, 85 V to 250 A AC, 50 / 60 Hz
Power consumption:	25 W max
Dimensions:	44 mm (H), 482 mm (W), 254 mm (D) 1.80 " (H), 19.00 " (W), 10.00 " (D)
Weight:	2.7 kg net
Options:	Network card

touring + installation

C2 Comparator

- Active electronic loop control unit for the SC8 subwoofer
- Two balanced inputs
- Two balanced outputs
- Two sensor loop control inputs
- Frequency Loop control 20 Hz (-6 dB) or 25 Hz (-3 dB)
- Two sensor indicators

The C2 Comparator is the active electronic loop control unit for the SC8 subwoofer. The unit includes two balanced audio inputs and two outputs as well as two sensor control loops connected to a 5-pol Neutrik XLR input. The Comparator's electronic circuit loop measures the voice coil excursion of the SC8 subwoofer and corrects the signal, significantly decreasing distortion. The unit has a loop control switch to select for flat frequency response down to 20 Hz (-6 dB) or 25 Hz (-3 dB).

Speaker connection

The SC8 subwoofer should be connected to the C2 Comparator and a stereo amplifier (2 x 3000 W @ 8 Ohm) using a special hybrid cable (two loudspeaker cable + two symmetric control signals in one cable).



TECHNICAL SPECIFICATIONS	
Inputs:	Two electronically balanced
Impedance:	> 20 kOhm - balanced, > 10 kOhm - unbalanced
CMRR:	> 65 dB, 10 Hz - 10 kHz
Outputs:	Two electronically balanced
Source impedance:	< 600 Ohm
Min. load:	600 Ohm
Max. level:	+ 20 dBm into 600 Ohm load
Frequency response:	0 Hz - 150 Hz (-3 dB)
Dynamic range:	> 115 dB (< 17µV Output Noise Voltage) unwtd.
Distortion:	< 0.01 % @ 100 Hz, +10 dBm
Sensor Inputs:	Two electronically balanced
High and Low Pass filters:	DC - 150 Hz, 12 dB / oct LP
Loop Display:	LED (One per channel) Sensor Present Signal
Loop Control Frequency:	20 Hz or 25 Hz
Connectors:	Inputs 3 pin female XLR, Outputs 3 pin male XLR Sensor Inputs 5 pin male XLR
Power connector:	3 pin IEC
Power supply:	220 - 240 VAC
Consumption:	< 25 VA
Weight:	2.85 kg net weight (3.6 kg shipping)

C25 / C45 / C475

- Digital power supply with large power reservoir giving extremely high peak power without any bass 'sag'.
- Proprietary designed progressive switching rail output.
- Full high frequency power - the C-Series amplifiers will deliver their power over the entire audio bandwidth.
- Lightweight aluminum construction.
- All new low distortion limiters with adjustable threshold points for extra speaker protection.
- Sophisticated power control system linked to both the limiter and the power supply, keeping the amplifier within its operating limits at all times.
- Power Reduction Circuit (PRC) controls on rear panel, linked to the limiter threshold which allows each channel to be independently set so that different loudspeakers can be connected to each channel with safety.
- Soft start 'power on' with full in-rush protection.
- Full DC, short circuit and thermal protection, which automatically disconnects the outputs under a fault condition.
- Weighs around 11 kg.
- 5-year warranty.



Lightweight switchmode amplifiers designed to very high standards of reliability and sound quality. Intended for touring and fixed installations in a 2U chassis the range consists of three amplifiers: the C25 delivers 2 x 1250 W at 4 Ohm, the C45 2 x 2250 W at 4 Ohm and the C475 4 x 800 W.

		C-25	C-45	C-475
Output power (Watt RMS)	8 ohm at 1 kHz	650	1200	750
	4 ohm at 1 kHz	1250	2250	825
	2 ohm at 1 kHz	2200	3200	-
	8 ohm at 1 kHz	2500	4400	-
Mono Bridged	8 ohm at 1 kHz	2500	4400	-
	4 ohm at 1 kHz	4400	6400	-
Power reduction control		- 2 dB / - 4 dB / - 6 dB	- 2 dB / - 4 dB / - 6 dB	- 3 dB at 8 ohm
THD at related power 4 ohm	1 kHz	< 0.008 %	< 0.008 %	< 0.006 %
	20 Hz - 20 kHz	< 0.03 %	< 0.03 %	< 0.03 %
Input CMRR		> 90 dB	> 90 dB	> 90 dB
Hum + Noise		- 105 dB	- 105 dB	- 105 dB
Gain (Selectable)		+ 32 dB / + 26 dB / + 33 dB	+ 32 dB / + 26 dB / + 35.75 dB	+ 32 dB / + 26 dB / + 31 dB
Sensitivity for related output	4 ohm	+ 7 dBu / + 13 dBu / + 6 dBu (1.5 V)	+ 9.75 dBu / + 15.75 dBu / + 6 dBu (1.5 V)	+ 5 dBu / + 11 dBu / + 6 dBu (1.5 V)
Damping Factor response	1kHz, 8 ohm	> 400	> 400	> 400
Frequency response		20 Hz - 20 kHz - + 0 / 0.5 dB	20 Hz - 20 kHz - + 0 / 0.5 dB	20 Hz - 20 kHz - + 0 dBu / 0.5 dB
Input impedance (active balanced)		20 kOhm	20 kOhm	20 kOhm
Dimensions (mm)	2U	88 x 482 x 428	88 x 482 x 428	88 x 482 x 428
Weight		10.25 kg	11 kg	10.25 kg
Power requirement		230 VAC at 15 amps max	230 VAC at 20 amps max	230 VAC at 15 amps max
		115 VAC at 30 amps max	115 VAC at 40 amps max	115 VAC at 30 amps max
Connectors	Inputs	XLR 3 pin	XLR 3 pin	4 x XLR 3 pin
	Outputs	4 pole SPEAKON	4 pole SPEAKON	4 x 4 pole SPEAKON
Controls Front panel		2 x level controls	2 x level controls	4 x level controls
		1 x power on / off switch	1 x power on / off switch	1 x power on / off switch
Controls Rear panel		1 x Stereo / bridged mono switch	1 x Stereo / bridged mono switch	2 x PRC switch
		4 x PRC switches (2 per channel)	4 x PRC switches (2 per channel)	3 x link switch
Indicators		1 x power, 2 x limit, 2 x signal present,	1 x power, 2 x limit, 2 x signal present,	1 x power,
		2 x - 3 dB, 2 x PRC, 1 x auto protect,	2 x - 3 dB, 2 x PRC, 1 x auto protect,	4 x five segment LED metering
		1 x bridged	1 x bridged	2 x load indicator, 1 x auto protect

CODA AUDIO

Boulevard der EU 6

30539 Hannover · Expo Park

Germany

Phone: +49 (0) 511 - 866 558 88

Fax: +49 (0) 511 - 866 558 87

E-mail: contact@codaaudio.com

Website: www.codaaudio.com