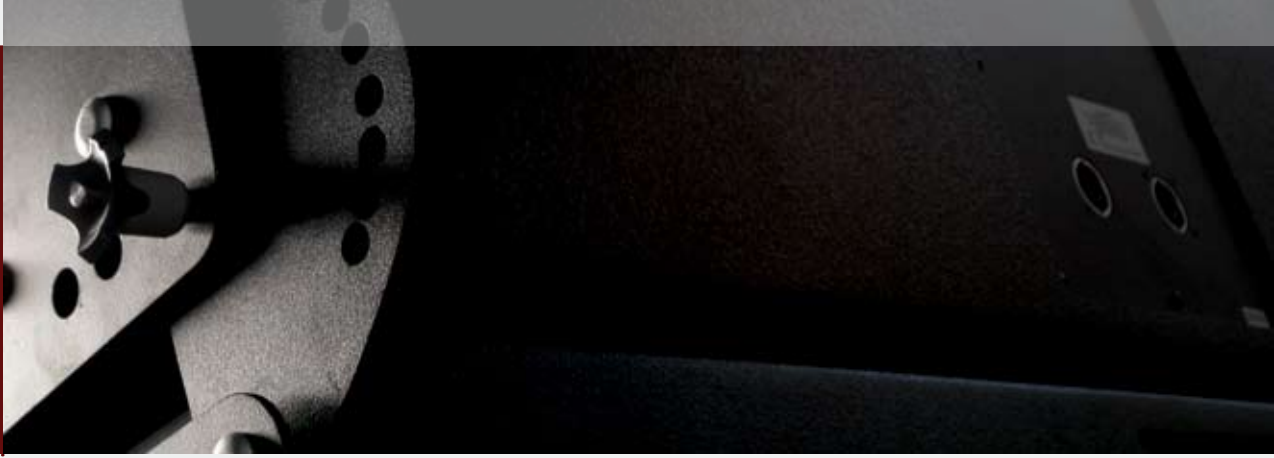


2008  
dieSeries.



Die Kunst des Klangs.

توصلنا نف





## taste and dreams

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It's a question of taste if you use self powered loudspeaker systems or not. Anyway, in both cases we offer a complete series of professional equipment, that is one step ahead of our time. cadenbach acoustics strictly follows an integrated system philosophy, that extends far beyond the individual loudspeaker cabinet. The view goes to small and large arrayed loudspeaker systems involving further elements like amplifiers, controller-units or nearfills, sidefills and stage monitors. Excellent sound, perfect handling, small size und less weight – cadenbach acoustics creates innovative solutions with an outstanding performance.

Listening to cadenbach acoustic opens a new horizon of audio experience. Whenever you meet a member of our product-family, just listen an find out what “Die Kunst des Klangs” is about. Start the music and realise that there is more sound, more dynamics and even more tonal details than you have ever dreamed of.



## sound formation

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cadenbach acoustics is the outcome of a fusion of many years' experience in loudspeaker development with the capabilities of digital controlling. This enables to integrate amplifiers and controllers into the creation of high performance multi-path active systems. From an innovative processing to the use of high-quality construction units and materials, we produce systems at an extraordinary high sound level. The results of our work follow the idea that the perfect sound is an art – "Die Kunst des Klangs". cadenbach acoustics systems produce an enormous sound pressure level with a comparatively small size and small weight.

We conceived the product family of cadenbach acoustics as advancement to the established active speaker market. With these products our customers enter a new technology. At any time it is possible to update our sound systems under complete retention of all existing modules.

Compatibility and flexibility are just as important for us as sound behaviour, efficiency, reliability, transport and handling.

The development and programming of the assigned software is my business. Christopher Speth has got the necessary experience in building loudspeaker systems from more than 25 years of practice. As a team we already got into this job with different projects, completely for the benefit of our customers.



# less surprise

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Dear Customers,

As a software developer I joint forces with Christopher Speth, whose name stands for innovative loudspeaker development in expert circles. We first took a look on the established audio technology and laid all physical / technical papers and formulas under the magnifying glass. Next step we looked in other technique spheres for formulas and viewpoints of waves and the existing possibilities to calculate their diffraction, in particular for detailed mathematical descriptions. We examined these formulas, i.e., we evaluated and combined them with the help of modern data base technologies. In consequence this extended viewpoint of wave theories led us to new basic approaches in the development of acoustic systems.

Today we create products in close contact with our customers. Discussions with customers on fairs and trade conferences give us an essential feedback, to which we adjust our product range. Synergetically we combine digital technology with analog audio technology. To develop products for concrete demands.

Yours faithfully

Hans-Hartwig Cadenbach





## less weight

Compact 3-way active (optional self powered) design housing two 12" LF drivers, four 6,5" MF drivers and three 1" to 4" HF planar compression drivers plus optional all amplifiers and F.I.R. digital controller, designed for vertical arrays of up to 24 speaker systems. The „die2.12“ delivers constant horizontal dispersion of 90° beginning at 200 Hz. An absolute symmetrical dipolar arrangement of the drivers guarantees a very accurate dispersion and precise sound reproduction. The “die2.12” is designed to reproduce acoustic material very naturally even under critical conditions. It may be used indoor for up to 20.000 and open air for more than 50.000 listeners providing a cristal clear sound. The complete (optional internal up to 5.000 Watts) system amping is controlled by a F.I.R. controller, remote controlled via ethernet TCP/IP.

### Specifications

Frequency Response (-5 dB): 65 Hz - 19,4 kHz  
Sensitivity (LF / MF / HF): 98 (80 Hz) / 106 (1 kHz) / 117 (3 kHz) dB  
SPL 10% THD sine burst 300Hz to 4kHz (array of 4 @ 0° splay): 145 dB  
Coverage Nominal -6 dB: 90°

Transducers / Impedance / Handling (AES / peak /rec. amp. @ 4 ohms)  
LF: 2 x 12" Neodymium / 8 ohms / 700 W / 2800 W / 1600 W  
MF: 4 x 6,5" Conus / 8 ohms / 800 W / 2800 W / 1600 W  
HF: 3 x 4" to 1" Planar Neod. / 8 ohms / 240 W / 1200 W / 1600 W  
Weight, Dimensions 73 kg, (H x W x D): 370 x 1150 x 500 mm





 die3CD

## more power

The “die3CD” produces a very precise sounding bass signal with an extremely linear frequency response. Designed as cardioid / hyper cardioid system with special settings on the D1 digital controller, it has got a variable dispersion. Compact, flyable direct cardioid subwoofer in 2-way active bassreflex-tuning (optional with 3 x 1200 Watt internal amping). Housing three 18“ neodym long excursion chassis, two as front bass and one for rear bass. Highly accurate impulse reproduction in an extreme stiff housing. Integrated flying system for an easy use in flown configurations above and below the “die2.12” line array elements.

### Specifications

Frequency Response (-5 dB)	30 Hz - 150 Hz
Sensitivity(SPL @ 1 m)	103 dB
Maximum Peak SPL with music @ 1 m:	142 dB
Coverage:	cardioid / hypercardioid

Transducers / Impedance / Handling (AES / peak / rec. amp. @ 4 ohm)  
LF Front: 2 x 18“ Neodymium / 4 ohms / 2000 W / 4000 W / 2000 W  
LF Rear: 1 x 18“ Neodymium / 8 ohms / 1000 W / 2000 W / 2000 W

Weight, Dimensions 116 kg, (H x W x D): 560 x 1150 x 1000 mm





## how high

Ultra Compact and light weight 3-way active (optional self powered) design housing two 10" LF drivers, four 5" MF drivers and two 4" HF planar compression drivers plus optional all amplifiers and F.I.R. digital controller, designed for vertical arrays of up to 24 speaker systems. The „die2.10“ delivers constant horizontal dispersion of 90° beginning at 200 Hz up to 30 kHz. An absolute symmetrical dipolar arrangement of the drivers guarantees a very accurate dispersion and precise sound reproduction. The “die2.10” is designed to reproduce acoustic material very naturally even under critical conditions. It may be used indoor for up to 15.000 and open air for 30.000 listeners providing a cristal clear sound. The complete (optional internal up to 5.000 Watts) system amping is controlled by a F.I.R. controller, remote controlled via ethernet TCP/IP.

### Specifications

Frequency Response (-5 dB): 85 Hz - 31 kHz  
Sensitivity (LF / MF / HF): 98 (110 Hz) / 98 (1,3 kHz) / 115 (2,5 kHz) dB  
SPL 10% THD sine burst 300Hz to 4kHz (array of 4 @ 0° splay): 141 dB  
Coverage Nominal -6 dB: 90°

Transducers / Impedance / Handling (AES / peak /rec. amp. @ 4 ohms)  
LF: 2 x 10" Neodymium / 16 ohms / 700 W / 2400 W / 1600 W  
MF: 4 x 5" Conus Neod. / 16 ohms / 700 W / 2400 W / 1600 W  
HF: 2 x 4" Planar Neod. / 10 ohms / 160 W / 800 W / 1600 W  
Weight, Dimensions 40 kg, (H x W x D): 280 (288) x 930 x 380 mm





 die2D

## can you go

The “die2D” produces a very precise sounding bass signal with an extremely linear frequency response. Designed as stacked system with rear sub cancelation when used in clusters of three which one „die2D“ turned round. Compact, flyable direct bassreflex subwoofer (optional with 2 (4) x 1200 Watt internal amping). Housing two 15“ neodym ultra long excursion chassis. Highly accurate impulse reproduction in an extreme stiff housing. Integrated flying system for an easy use in flown configurations above and below the “die2.10” line array elements.

### Specifications

Frequency Response (-5 dB)	39 Hz - 150 Hz
Sensitivity(SPL @ 1 m)	102 dB
Maximum Peak SPL with music @ 1 m:	138 dB
Coverage:	cardioid / hypercardioid (stacked of 3)

Transducers / Impedance / Handling (AES / peak / rec. amp. @ 4 ohm)  
LF Front: 2 x 15“ Neodymium / 4 ohms / 3000 W / 5000 W / 3000 W

Weight, Dimensions                      75 kg, (H x W x D): 468 x 930 x 600 mm



die2.7 



## compact size

The „die2.7“ is a line array loudspeaker for the use in vertical columns giving a 90° dispersion pattern in the horizontal plane. The „die2.7“ cabinet is a passive 2-way (optional 2-way active with an integrated amping 500 W LF + 300 W HF) design that houses two 6,5” LF drivers and one 1” HF compression driver with a V.Curve wave shaping CD horn, to achieve optimum dispersion characteristics. The two 6,5” LF drivers are positioned in a dipolar arrangement providing an exceptional dispersion control even at lower frequencies, with nominal dispersion being maintained down to 500 Hz. The „die2.7“ is ideal for situations using numerous open microphones.

### Specifications

Frequency Response (-5 dB):	73 Hz - 21 kHz
Sensitivity (LF / HF):	97 (100 Hz) / 115 (3 kHz) dB
Max. SPL Peak (Free Field @ 1 m):	128 dB
Coverage Nominal -6 dB:	85°

Transducers / Impedance / Handling (AES / peak / rec. amp. @ 4 ohms)	
LF:	2 x 6,5“ Conus / 8 ohms / 200 W / 1200 W / 1600W
HF:	1 x 1” Neod. / 16 ohms / 80 W / 400 W / 1600 W
Passive Impedance / rec. amp. @ 4 ohms:	8 ohms / 1600 W
Weight, Dimensions	19,5 kg, (H x W x D): 206 x 529 x 368 mm





 die1B

## ultra precise

Ultra compact light weight high output two chamber bandpass design with bass reflex tuning and large tunnel design. Extreme stiff housing either flown or ground stacked. The „die1B“ produces a very precise bass with very flat frequency response. Three units of „die1B“ can be used as Endfire or Cardioidsystem with special settings on the D1 F.I.R. digital controller. Thus it produces a directed subbass and eliminates unwanted rear bass, with retrofitable 1000 Watt active modules.

### Specifications

Frequency Response (-5 dB)	39 Hz - 150 Hz
Sensitivity(SPL @ 1 m)	100 dB
Maximum Peak SPL with music @ 1 m:	133 dB

Transducers / Impedance / Handling (AES / peak /rec. amp. @ 4 ohms)  
LF: 1 x 15“ Neodymium / 8 ohms / 1000 W / 2000 W / 2000 W

Weight, Dimensions 33 kg, (H x W x D): 456 x 456 x 670 mm

die12



## no loss

Modular, compact 2-way bass reflex high performance speaker system, in an extreme stiff housing with internal absorber for a non damping, frequency-selective avoidance of body-cavity resonances. The CD - HF horn is rotatable and produces a uniform plane wave front. The frequency response is with a variance of  $\pm 1$  dB very linear, with a linear phase response over more than 5 octaves at crossover point. The "die12" is available in 4 versions with  $40^\circ \times 40^\circ$  (die12i4),  $65^\circ \times 40^\circ$  (die12i6),  $90^\circ \times 50^\circ$  (die12i9) or  $60^\circ \times 40^\circ$  (die12P) coverage pattern, where the „die12P“ comes along with a passiv crossover. „die12i4“/„die12i6“/„die12i9“ systems are in standard mode 2-way active and designed specifically for permanent installation. All versions are optional retrofitable with a two channel 1000 W LF and 500 W HF active module incl. controller.

### Specifications

Frequency Response (-5 dB):	63 Hz - 21,5 kHz
Sensitivity (LF / HF):	102 (300 Hz) / 115 (3 kHz) dB
Max. SPL Peak (Free Field @ 1 m):	134 dB
Coverage Nominal -6 dB i9; i4; i6/P (rot.):	$90^\circ \times 50^\circ$ ; $40^\circ \times 40^\circ$ ; $60^\circ \times 40^\circ$

Transducers / Impedance / Handling (AES / peak / rec. amp. @ 4 ohms)	
LF:	1 x 12" Neodymium / 8 ohms / 300 W / 1200 W / 1600 W
HF:	1 x 1,5" Neodymium / 16 ohms / 80 W / 400 W / 1600 W
Passive Impedance / rec. amp. @ 4 ohms:	8 ohms / 1600 W
Weight, Dimensions	25 kg, (H x W x D): 672 x 416 x 365 mm





 die2B

## no move

Modular ultra compact light weight / high output two chamber band-pass design with bass reflex tuning and two impulse compensated 15 inch chassis. Extreme stiff housing either flown or ground stacked. The big brother of the “die1B”, the “die2B” offers more power and extended frequency response with retrofitable 2 x 1000 Watt active modules. The „die2B“ produces a very precise bass with very flat frequency response. Three units of the „die2B“ can be used as Endfire or Cardioid-system with special settings on the D1 F.I.R. digital controller. So it will produce a directed subbass and eliminate unwanted rear bass.

### Specifications

Frequency Response (-5 dB)	39 Hz - 150 Hz
Sensitivity (SPL @ 1 m)	103 dB
Maximum Peak SPL with music @ 1 m:	136 dB

Transducers / Impedance / Handling (AES / peak /rec. amp. @ 4 ohms)  
LF: 2 x 15“ Neodymium / 4 ohms / 2000 W / 4000 W / 2000 W

Weight, Dimensions 47 kg, (H x W x D): 456 x 745 x 670 mm





## extrem versatile

Ultra compact 2-way active bass reflex high power loudspeaker. The CD - HF horn is rotatable with a very evenly flat wave response. Thus results in a homogeneous wave front, which supports an easy clustering. The "die7" is available with internal or external active electronics as well as a passive version. The "die7" is suitable for the natural reproduction of speech and music. The listener area will be accurately and evenly exposed to it's sound. The optional internal two channel active module delivers 2 x 300 W incl. all controllers.

### Specifications

Frequency Response (-5 dB):	79 Hz - 21 kHz
Sensitivity (LF / HF):	94 (300 Hz) / 113 (3 kHz) dB
Max. SPL Peak (Free Field @ 1 m):	121 dB
Coverage Nominal -6 dB (rot.):	90° x 50°

Transducers / Impedance / Handling (AES / peak / rec. amp. @ 4 ohms)	
LF:	1 x 6,5" conus / 16 ohms / 120 W / 500 W / 1600 W
HF:	1 x 1" / 16 ohms / 80 W / 400 W / 1600 W
Passive Impedance / rec. amp. @ 4 ohms:	16 ohms / 1600 W
Weight, Dimensions	7,5 kg, (H x W x D): 365 x 226 x 232 mm





 die12M

## intransigent

Modular, compact 2-way bass reflex high performance speaker system. The CD - HF horn produces a very evenly flat wave response. The frequency response is linear, with a linear phase response also outside of the zero axis. The "die12" is available in two versions, as the „die12MP“ comes along with a passive crossover. „die12M“ is optional retrofitable with a two channel 1000 W LF and 500 W HF active module incl. controller.

### Specifications

Frequency Response (-5 dB):	63 Hz - 21,5 kHz
Sensitivity (LF / HF):	102 (300 Hz) / 115 (3 kHz) dB
Max. SPL Peak (Free Field @ 1 m):	134 dB
Coverage Nominal -6 dB:	60° x 40°

Transducers / Impedance / Handling (AES / peak / rec. amp. @ 4 ohms)	
LF:	1 x 12" Neodymium / 8 ohms / 300 W / 1200 W / 1600 W
HF:	1 x 1,5" / 16 ohms / 80 W / 400 W / 1600 W
Passive Impedance / rec. amp. @ 4 ohms:	8 ohms / 1600 W
Weight, Dimensions	18,5 kg, (H x W x D): 672 x 416 x 365 mm



die12C



## face the point

Coaxial, compact 2-way bass reflex high performance speaker system. The „die12C“ is a extremely flexible stage monitor and P.A. system. The frequency response is linear, with a linear phase response also outside of the zero axis. The “die12C” is as standard available with a passive crossover, it is optional available with a two channel internal 470 W LF and 470 W HF active module incl. controller.

### Specifications

Frequency Response (-5 dB):	63 Hz - 21 kHz
Sensitivity (LF / HF):	99 (300 Hz) / 112 (3 kHz) dB
Max. SPL Peak (Free Field @ 1 m):	130 dB
Coverage Nominal -6 dB:	80° radial

Transducers / Impedance / Handling (AES / peak /rec. amp. @ 4 ohms)	
LF:	1 x 12" conus / 8 ohms / 400 W / 1200 W / 1600 W
HF:	1 x 1" / 8 ohms / 80 W / 400 W / 800 W
Passive Impedance / rec. amp. @ 4 ohms:	8 ohms / 1600 W
Weight, Dimensions	22 kg, (H x W x D): 472 x 362 x 318 mm



 die8C

## creating music

Compact coaxial 2-way active bass reflex high power loudspeaker. The very evenly flat wave response will create a legend. The homogeneous wave front, will supports an easy clustering. The "die8C" is available with internal or external active electronics as well as a passive version. The "die8C" is suitable for the natural reproduction of speech and also full-range music. The listener area will be accurately and evenly exposed to it's sound. The optional internal two channel active module delivers 2 x 470 W incl. all controllers.

### Specifications

Frequency Response (-5 dB):	60 Hz - 20 kHz
Sensitivity (LF / HF):	96 (300 Hz) / 106 (3 kHz) dB
Max. SPL Peak (Free Field @ 1 m):	126 dB
Coverage Nominal -6 dB:	80° radial

Transducers / Impedance / Handling (AES / peak /rec. amp. @ 4 ohms)	
LF:	1 x 8" conus / 8 ohms / 200 W / 800 W / 1600 W
HF:	1 x 1" / 8 ohms / 50 W / 200 W / 800 W
Passive Impedance / rec. amp. @ 4 ohms:	8 ohms / 1600 W
Weight, Dimensions	9,6 kg, (H x W x D): 390 x 260 x 270 mm

die5C



## this one is

Compact coaxial 2-way passive bass reflex loudspeaker. The "die5C" is available with internal or external active electronics as well as a passive version. The "die5C" is suitable for the natural reproduction of speech and also acoustical music. The listener area will be accurately and evenly exposed to its sound. The optional internal two channel active module delivers 2 x 235 W incl. all controllers.

### Specifications

Frequency Response (-5 dB):	85 Hz - 20 kHz
Sensitivity (LF / HF):	91 (300 Hz) / 113 (3 kHz) dB
Max. SPL Peak (Free Field @ 1 m):	117 dB
Coverage Nominal -6 dB:	90° radial

Transducers / Impedance / Handling (AES / peak / rec. amp. @ 4 ohms)	
LF:	1 x 5" conus / 16 ohms / 100 W / 400 W / 800 W
HF:	1 x 1" / 16 ohms / 60 W / 300 W / 800 W
Passive Impedance / rec. amp. @ 4 ohms:	16 ohms / 800 W
Weight, Dimensions	4 kg, (H x W x D): 271 x 177 x 180 mm



 die12Ci

## surrounding you

Coaxial, compact 2-way bass reflex high performance speaker system. The „die12Ci“ is ideal for installations in surround sound cinema applications. The frequency response is linear, with a linear phase response also outside of the zero axis. The “die12Ci” is only available with a passive crossover.

### Specifications

Frequency Response (-5 dB):	63 Hz - 21 kHz
Sensitivity (LF / HF):	99 (300 Hz) / 112 (3 kHz) dB
Max. SPL Peak (Free Field @ 1 m):	130 dB
Coverage Nominal -6 dB:	80° radial

Transducers / Impedance / Handling (AES / peak / rec. amp. @ 4 ohms)	
LF:	1 x 12" conus / 8 ohms / 400 W / 1200 W / 1600 W
HF:	1 x 1" / 8 ohms / 80 W / 400 W / 800 W
Passive Impedance / rec. amp. @ 4 ohms:	8 ohms / 1600 W
Weight, Dimensions	19,5 kg, (H x W x D): 402 x 402 x 242 mm

# controller / amp modules / amps

## AB module

class-D high power amp with switching power supply with a proprietary fully symmetrical and floating modulator for unsurpassed accuracy incl. analog or digital F.I.R. controller, fan free cooling

Max Com Mode Range input      +/- 15V DC, earthed XLR female, Pin 1 ground 2 +, 3 -; Imp. 20 kOhms sym. (between Pin 2 & 3), 10 kOhms nonsym. (Pin 3 grounded).

Rated output power (THD+N < 0.02%)      2240 W @ 4 ohms  
1670 W @ 8 ohms  
835 W @ 16 ohms  
115 Vrms (163 Vpk)

used in      „die2.12“ 1 x LF, 1 x MF, 1 x HF  
„die12“ 1 x LF, 1 x HF  
„die12M“ 1 x LF, 1 x HF  
„die3CD“ 3 x LF  
„die2B“ 2 x LF  
„die1B“ 1 x LF

Frequency response (-1 dB) 18 Hz - 25 kHz  
THD+N (20 Hz - 20 kHz) < 0,02%  
IM (SMPTE) < 0,05%  
DIM 100 < 0,005%  
S/N ratio (unweighted, RMS) < 120 dB

## As module

class-D amp with toroidal power supply with a proprietary fully symmetrical and floating modulator for unsurpassed accuracy incl. analog controller, fan free cooling

Max Com Mode Range input      +/- 15V DC, earthed XLR female, Pin 1 ground 2 +, 3 -; Imp. 20 kOhms sym. (between Pin 2 & 3), 10 kOhms nonsym. (Pin 3 grounded).

Rated output power (THD+N < 0.02%)      470 W @ 8 ohms  
235 W @ 16 ohms

used in      61 Vrms (87 Vpk)  
„die2.7“ 2 x LF, 1 x HF  
„die7“ 1 x LF, 1 x HF  
„die12c“ 1 x LF, 1 x HF  
„die8c“ 1 x LF, 1 x HF

Frequency response (-1 dB) 18 Hz - 25 kHz  
THD+N (20 Hz - 20 kHz) < 0,02%  
IM (SMPTE) < 0,05%  
DIM 100 < 0,005%  
S/N ratio (unweighted, RMS) < 120 dB

## P16

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class-D high power amp with toroidal power supply with a proprietary fully symmetrical and floating modulator for unsurpassed accuracy and cross channel separation. Incorporates unique features for dampingfactor correction (sens drive) and clipping problem elimination.

Rated output power (THD+N < 0.1%)	2 x 800 W @ 8 ohms 2 x 1,6 kW @ 4 ohms 2 x 2,2 kW @ 2 ohms
Frequency response (-1 dB)	18 Hz - 25 kHz
THD+N (20 Hz - 20 kHz)	< 0,02%
IM (SMPTE)	< 0,05%
S/N ratio (unweighted, RMS)	< 110 dB
Damping factor (@ 8 ohms)	> 3000
Crosstalk (20 Hz - 20 kHz)	< -70 dB
mm (H x W x D)	88,9 x 482 x 350
Net wieght	20 kg



## D1

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F.I.R. and I.I.R. digital controller, ethernet remote

inputs	4 x ADC 24bit/27bit 96kHz/192kHz
dynamic	134 dB / + 28 dBu 8 x digital + upsampler samplerate converter ASE/EBU or ADAT
outputs	8 x DAC 24bit
dynamic	121 dB / + 18 dBu 8 x digital + downsampler samplerate converter ASE/EBU or ADAT
I.I.R. filters	> 160 free routing
F.I.R. filters	> 3000 free routing
Freq. res. (-0,5 dB)	5 Hz - 90 kHz
mm (H x W x D)	44,5 x 482 x 350
Net wieght	5 kg





### die2.12

2 x 12" / 4 x 6,5"  
3 x 4":1"

90° h.  
dB SPL: adequate  
3-way (a, s)  
65 Hz - 19,4 kHz

ohms  
LF: 8  
MF: 8  
HF: 8

Watts AES / peak  
LF: 700 / 2800  
MF: 800 / 2800  
HF: 240 / 1200

Watts (s) LF / MF / HF  
1,67 k / 1,67 k / 1,67 k

73 kg

mm (H x W x D)  
370 x 1150 x 500

### die2.10

2 x 10" / 4 x 5"  
2 x 4"

90° h.  
dB SPL: 137  
2-way (a, s)  
85 Hz - 31 kHz

ohms  
LF: 16 / (4, s)  
MF: 16 / (4, s)  
HF: 10

Watts AES / peak  
LF: 700 / 2400  
MF: 700 / 2400  
HF: 160 / 800

Watts (s) LF / MF / HF  
2,2 k / 2,2 k / 1,4 k

40 kg

mm (H x W x D)  
280 x 930 x 380

### die2.7

2 x 6,5"  
1 x 1"

85° h.  
dB SPL: 128  
2-way (pc, a, s)  
73 Hz - 21 kHz

ohms  
LF: 8  
HF: 16  
Passive: 8

Watts AES / peak  
LF: 200 / 1200  
HF: 80 / 400  
Passive: 800 (ap)

Watts (s) LF / HF  
470 / 235

19,5 kg

mm (H x W x D)  
206 x 529 x 368

- (p): passive crossover, no controller necessary  
 (pc): passive crossover, controller obligatory  
 (a): active external amp P16, controller D1 obligatory  
 (s): active with internal amps and controller, powerrating of amps on associated chassis  
 (sr): retrofitable activemodule incl. amps and controller, powerrating of amps on associated chassis  
 (r): horn rotatable by 90°  
 (m): multiple rotatable horns for 2-way (a) available: 90° h. x 50° v. (i9), 40° rad. (i4)  
 (c): cardioid cluster possible with multiples of 3 units when used with controller  
 (ap): powerrating of recomanded amp P16 on associated ohm of passive speaker

Note: all cadenbach acoustics speakers can use sense drive of P16 amp (see corresponding manuals)



specifications

### die3CD

2 x 18"  
1 x 18"

cardioid  
dB SPL: 142  
2-way (a, s)  
30 Hz - 150 Hz

ohms  
LF front: 4  
LF rear: 8

Watts AES / peak  
LF front: 2000 / 4000  
LF rear: 1000 / 2000

Watts (sr) LF / LF  
3,34 k / 1,67 k

116 kg

mm (H x W x D)  
560 x 1150 x 1000

### die2D

2 x 15"

omni, (c)  
dB SPL: 138  
2-way (a, s)  
39 Hz -150 Hz

ohms  
LF: 4

Watts AES / peak  
LF front: 3000 / 5000

Watts (s) LF  
3,34 k

75 kg

mm (H x W x D)  
468 x 930 x 600

### die2B

2 x 15"

omni, (c)  
dB SPL: 136  
1-way (a, sr)  
38 Hz -150 Hz

ohms  
LF: 4

Watts AES / peak  
LF: 2000 / 4000

Watts (sr) LF  
3,34 k

47 kg

mm (H x W x D)  
456 x 745 x 670

### die1B

1 x 15"

omni, (c)  
dB SPL: 133  
1-way (a, sr)  
39 Hz -150 Hz

ohms  
LF: 8

Watts AES / peak  
LF: 1000 / 2000

Watts (sr) LF  
1,67 k

33 kg

mm (H x W x D)  
456 x 456 x 670



### die12C

1 x 12"  
1 x 1"

80° radial  
dB SPL: 131  
2-way (p, a, s)  
63 Hz - 21 kHz

ohms  
LF: 8

HF: 8  
Passive: 8

Watts AES / peak  
LF: 500 / 1200

HF: 80 / 400  
Passive: 800 (ap)

Watts (s) LF / HF  
470 / 470

22 kg

mm (H x W x D)  
472 x 362 x 318

### die12Ci

1 x 12"  
1 x 1"

80° radial  
dB SPL: 131  
2-way (p)  
63 Hz - 21 kHz

ohms  
LF: 8

HF: 8  
Passive: 8

Watts AES / peak  
LF: 500 / 1200

HF: 80 / 400  
Passive: 800 (ap)

Watts (s) LF / HF  
470 / 470

19,5 kg

mm (H x W x D)  
402 x 402 x 242

### die8C

1 x 8"  
1 x 1"

80° radial  
dB SPL: 126  
2-way (p, a, s)  
60 Hz - 20 kHz

ohms  
LF: 8

HF: 8  
Passive: 8

Watts AES / peak  
LF: 200 / 800

HF: 60 / 300  
Passive: 800 (ap)

Watts (s) LF / HF  
470 / 470

9,6 kg

mm (H x W x D)  
390 x 260 x 270

### die5C

1 x 5"  
1 x 1"

90° radial  
dB SPL: 117  
2-way (p)  
85 Hz - 20 kHz

ohms  
LF: 16

HF: 16  
Passive: 16

Watts AES / peak  
LF: 100 / 400

HF: 60 / 300  
Passive: 400 (ap)

Watts (s) LF / HF  
470 / 470

4 kg

mm (H x W x D)  
271 x 177 x 180

- (p): passive crossover, no controller necessary  
 (a): active external amp P16, controller D1 obligatory  
 (s): active with internal amps and controller, powerrating of amps on associated chassis  
 (ap): powerrating of recomanded amp P16 on associated ohm of passive speaker

Note: all cadenbach acoustics speakers can use sense drive of P16 amp (see corresponding manuals)



distributors

### die12

1 x 12"  
1 x 1,5"

60° h. x 40° v. (r, m)  
dB SPL: 134  
2-way (p, a, sr)  
63 Hz - 21,5 kHz

ohms  
LF: 8

HF: 16  
Passive: 8

Watts AES / peak  
LF: 300 / 1200

HF: 80 / 400  
Passive: 800 (ap)

Watts (sr) LF / HF  
1,67 K / 835

25 kg

mm (H x W x D)  
672 x 416 x 365

### die7

1 x 6,5"  
1 x 1"

90° h. x 50° v. (r)  
dB SPL: 121  
2-way (pc, a, s)  
79 Hz - 21 kHz

ohms  
LF: 16

HF: 16  
Passive: 16

Watts AES / peak  
LF: 120 / 500

HF: 80 / 400  
Passive: 400 (ap)

Watts (s) LF / HF  
235 / 235

8,5 kg

mm (H x W x D)  
365 x 226 x 232

### die12M

1 x 12"  
1 x 1"

60° h. x 40° v.  
dB SPL: 134  
2-way (p, a, sr)  
63 Hz - 21,5 kHz

ohms  
LF: 8

HF: 16  
Passive: 8

Watts AES / peak  
LF: 300 / 1200

HF: 80 / 400  
Passive: 800 (ap)

Watts (sr) LF / HF  
1,67 k / 835

18,5 kg

mm (H x W x D)  
672 x 416 x 365

- (p): passive crossover, no controller necessary
- (pc): passive crossover, controller obligatory
- (a): active external amp P16, controller D1 obligatory
- (s): active with internal amps and controller, powerrating of amps on associated chassis
- (sr): retrofittable activemodule incl. amps and controller, powerrating of amps on associated chassis
- (r): horn rotatable by 90°
- (m): multiple rotatable horns for 2-way (a) available: 90° h. x 50° v. (i9), 40° rad. (i4)
- (c): cardioid cluster possible with multiples of 3 units when used with controller
- (ap): powerrating of recomanded amp P16 on associated ohm of passive speaker

Note: all cadenbach acoustics speakers can use sense drive of P16 amp (see corresponding manuals)



cadenbach acoustics

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