

# die12

2-way active / passive system  
12" / 1,5" CD Horn



Die Kunst des Klangs



Housing from 15 - 27 mm premium birch plywood. Black textured finish. Powder-coated acoustical optimised square-stamped steel grill, foam covering, optional inside foam and outside hex-stamped steel grill, two handles, diffraction free edges, internal Helmholtz resonator.

Concept: Modular, compact 2-way-bassreflex highperformance speakersystem, in an extrem stiff housing with internal absorber for damping-free, frequenc-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 +/-1 dB very linear, with a linear phaseresponse through more than 5 octaves at crossover point. The "die12" is available in 4 versions with 40° x 40° (die12i4), 65° x 40° (die12i6), 90° x 40° (die12i9) or 60° x 40° (die12P) coverage pattern, where the die12P is as standart with a passive crossover. The cabinets are designed to allow the horn flares to be rotated through 90°, allowing greater flexibility in placement for a given dispersion. die12i4/die12i6/die12i9 systems are in standart mode 2-way active and designed specifically for permanent installation. In upright operating position the CD horn can be positioned either below or obove the LF driver. If it is below, the HF dispersion is less likely to be influenced by reflections from walls, ceilings or other equipment mounted nearby. It can be equipped with two internal ampmdules with integrated remote controlled F.I.R. digital controller.

Operation: The die12 is a tool for an exact coverage and sound reproduction.

#### Systemspecifications:

Frequency Response (-5 dB)	63 Hz - 21,5 kHz
Sensitivity (SPL @ 1 m LF / HF / Passive)	102 (300 Hz) / 115 (3 kHz) / 102 dB (300 Hz)
Maximum Peak SPL (Free Field @ 1 m) 2-Way Active:	134 dB
Maximum Peak SPL (Free Field @ 1 m) with P16 Passive:	134 dB

SPL peak, pink noise with crest-factor 4

#### Speakerspecifications:

Nominal Impedance (LF / HF / Passive)	8 / 16 / 8 Ohms
Power Handling LF (RMS / prog. / peak 10 ms)	300 / 600 / 1200 W
Power Handling HF (RMS / prog. / peak 10 ms)	80 / 200 / 400 W
Power Handling Passive (RMS / prog. / peak 10 ms)	300 / 600 / 1200 W
Nominal dispersion -6 dB, i9; i4; i6; P (hor. x vert. rot.)	90° x 40°; 40° radial; 65° x 40°; 60° x 40°

Components (LF transducers)	12" Neodymium
(HF transducers)	1,5" compression driver
	Passive or 2-Way Activ with D1 F.I.R. - Controller
Connections (Passive) / (Active)	2 x NL4 (1+/- Ful, 2+/- Sense) / (1+/- LF, 2+/- HF)

#### Internal Class-D Ampmodul including digital F.I.R. controller

Total Amp Power	2505 Watts RMS / 4000 Watts Music*
Connections	1 x XLR Female in, 1 x XLR Male out, Rj45 Network, 2 x Powercon (in and out)
Weight, Dimensions	25 Kg (26,5 Kg internal powered), (H x W x D): 672 x 416 x 365 mm
Mounting / Working load	6 x Aeroquip / min. 12 x Speaker weight
Mounting Accessory:	Cradel CSR-12, Holow Spigot CST-1, Flying Eye CAF-1 Trusclamp CTC-1, TV-Spigot CTV-1, Flying system CCT, Connector CV6 + CV9

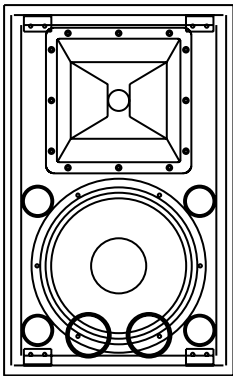
\* Class-D outputstage ch1 LF, ch2 HF each 115 V rms / 163 V pk 1670 W longterm driven with 1 kHz sinewave signal at 1% THD on 8 Ohms  
IM < 0,05%, DIM < 0,005 %, CMRR > 80 dB (100 Hz) Typical > 90 dB. XLR female input and male output; Pin 1 ground, 2 +, 3 -;  
Impedance 20 kOhms Sym. (bet. Pin 2 and 3); 10 kOhms Unsym. (Pin 3 grounded).  
Powercon in&out, 180 - 265 VAC, 50 Hz, power consumption about 0,6 kW.



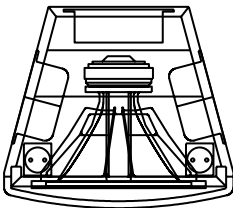
cadenbach acoustics

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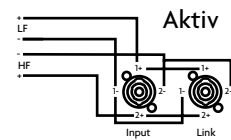
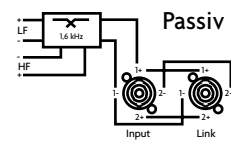
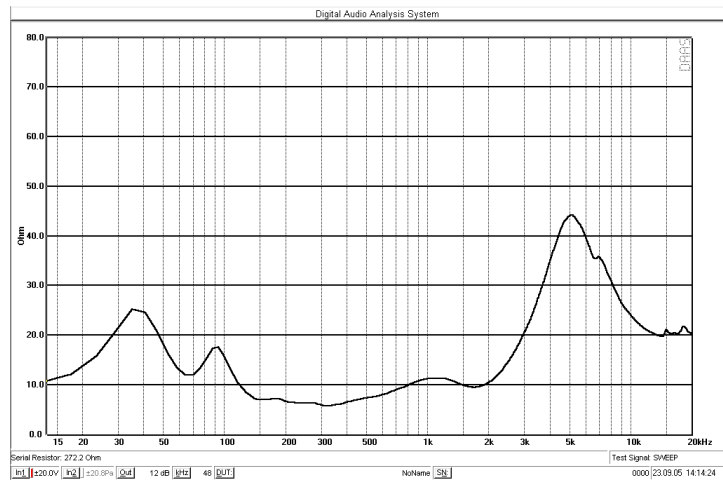
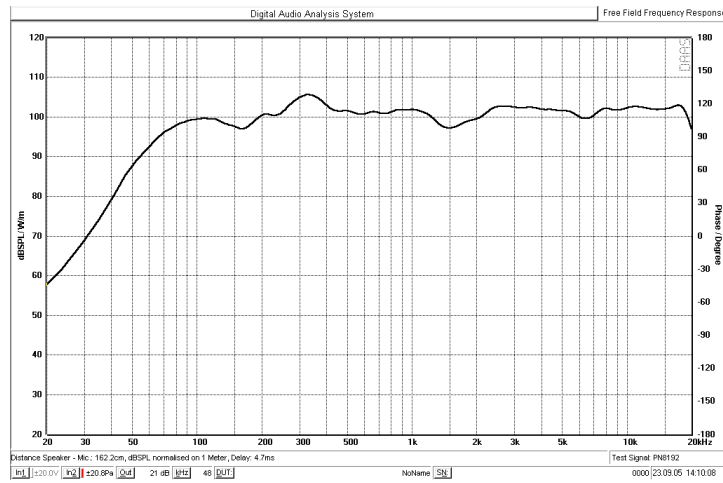
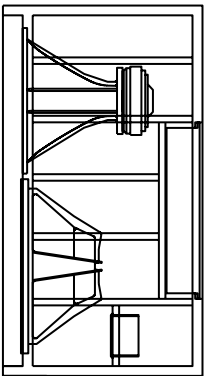
Frontansicht



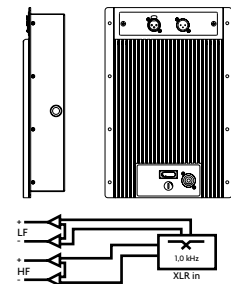
Draufsicht



Seitenansicht

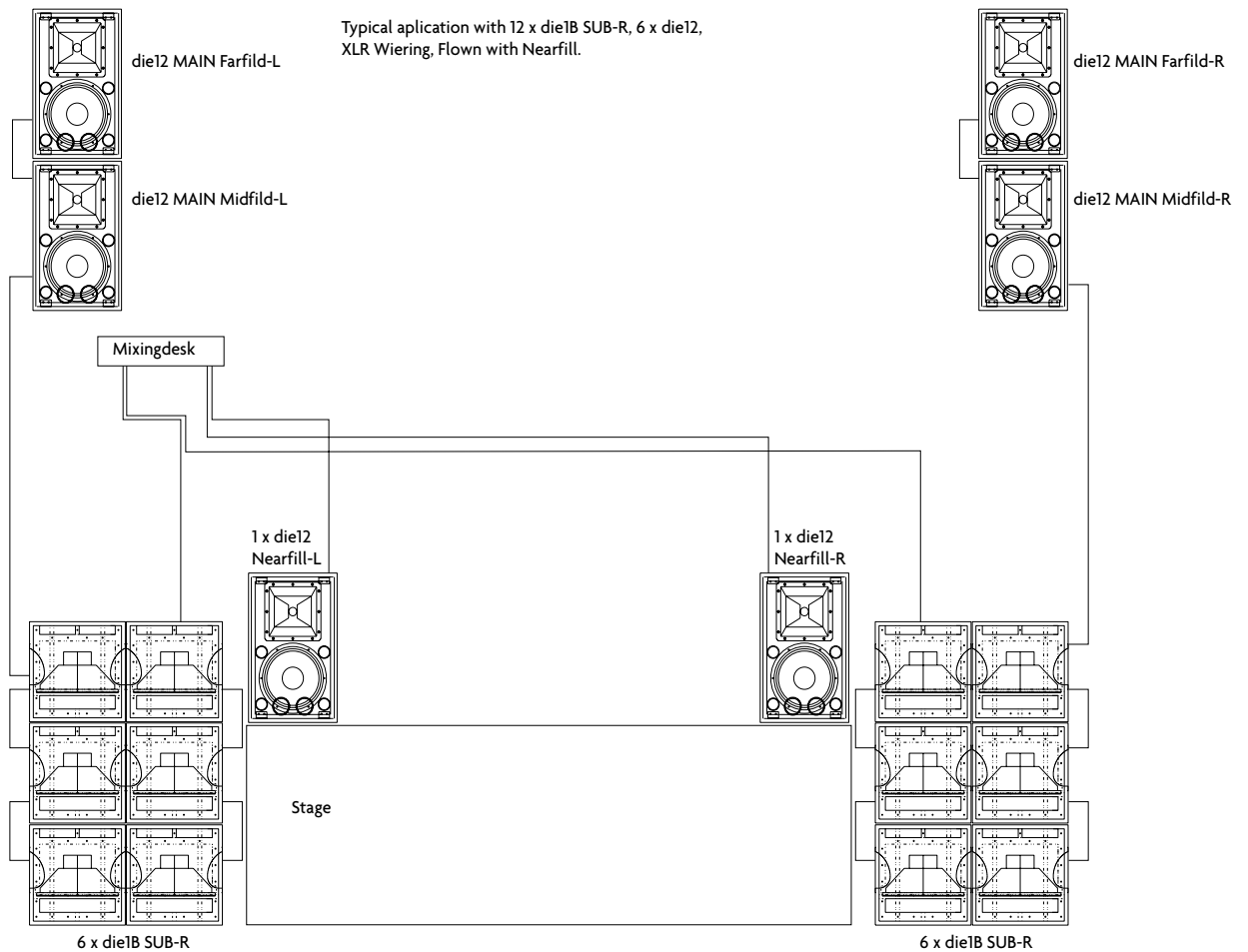
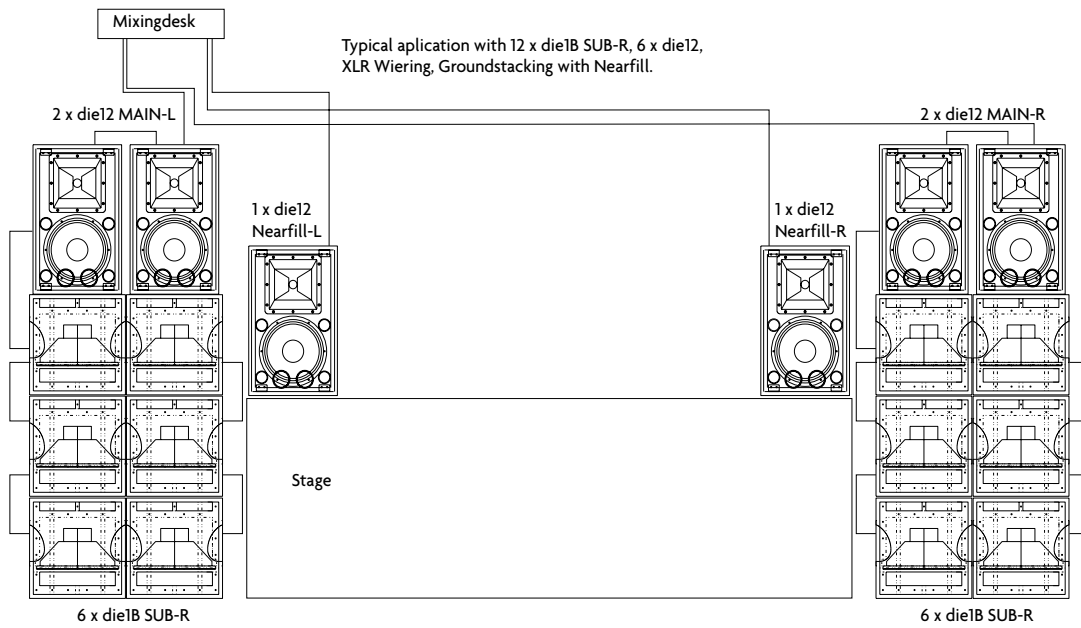


Aktivmodul

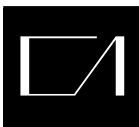


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Aktiv / Passiv 2-weg System  
12" / 1,5"



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