

die2.7

2-way active / passive system
2 x 6,5" / 1" V.Curve Array



Die Kunst des Klangs

Concept: The die2.7 is a line array loudspeaker for use in vertical columns giving a 90° constant directivity dispersion pattern in the horizontal plane. The die2.7 cabinet is a passive or optional active 2-way design that houses 2 x 6,5" LF drivers and a 1" HF compression driver with a V.Curve wave shaping device to achieve the wherewithal dispersion characteristic. The two 6,5" LF drivers are positioned in a dipolar arrangement providing an exceptional dispersion control even at low frequencies, with the 85° nominal dispersion angle being maintained down to 500 Hz.

Operation: The die2.7 is ideal for situations using numerous open micro-phones, for speech and music. The system may be used indoor for up to 1500 and open-air for more than 3000 listeners to be provided with an exact and natural sound.



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 with diffraction free edges.

System specifications:

Frequency Response (-5 dB)	73 Hz - 21 kHz
Sensitivity (SPL @ 1 m LF / HF / Passive)	97 (100 Hz) / 115 (3 kHz) / 97 dB (100 Hz)
Maximum Peak SPL (Free Field @ 1 m) single use:	132 dB (min. +12 dB array of 6)
Maximum Peak SPL (Free Field @ 1 m) array use:	134 dB (min. +12 dB array of 6) SPL peak, pink noise with crest-factor 4

Speakers specifications:

Nominal Impedance (LF / HF / Passive)	8 / 16 / 8 Ohms
Power Handling LF (RMS / prog. / peak 10 ms)	200 / 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 (hor.)	85°
Splay angle settings 0° - 15° in 0,2° - 3,4° steps, logarithmic allocation	

Components (LF transducers)	2 x 6,5" Conus
(HF transducers)	1" V.Curve - Horn
	Passive or 2-Way Activ with D1 F.I.R. - Controller
Connections (Passive) / (Active)	2xNL4 (1+/1-Ful, 2+/2-Sense) / (1+/1-LF, 2+/2-HF)

Internal Class-D Ampmodul including controller

Total Amp Power	705 Watts RMS / 1400 Watts Music*
Connections	1 x XLR Female in, 1 x XLR Male out, 2 x Powercon (in and out)
Weight, for arrays up to 20/30 speakers	11,6kg / 19,5kg (12,6kg / 20,5kg internal powered),
Dimensions	(H x W x D): 200 x 529 x 368 mm
Mounting / Working load	Vert. Flying system / minim. 144 x Speaker-weight
Mounting Accessory:	Multiframe CTG-2.7

* Class-D outputstage ch1 LF, ch2 HF each 61 V rms/87 V pk; 470 W longterm driven with 1 kHz sine wave 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.



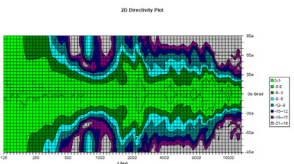
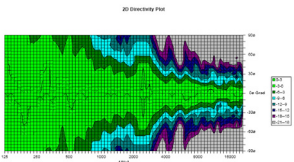
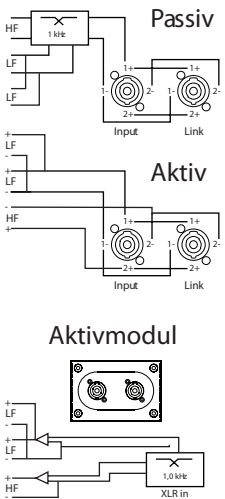
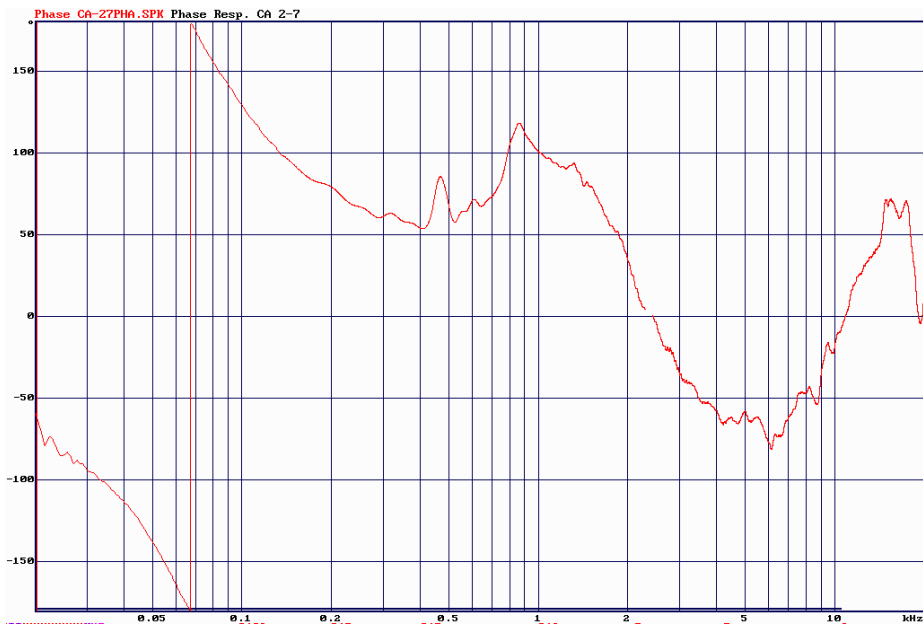
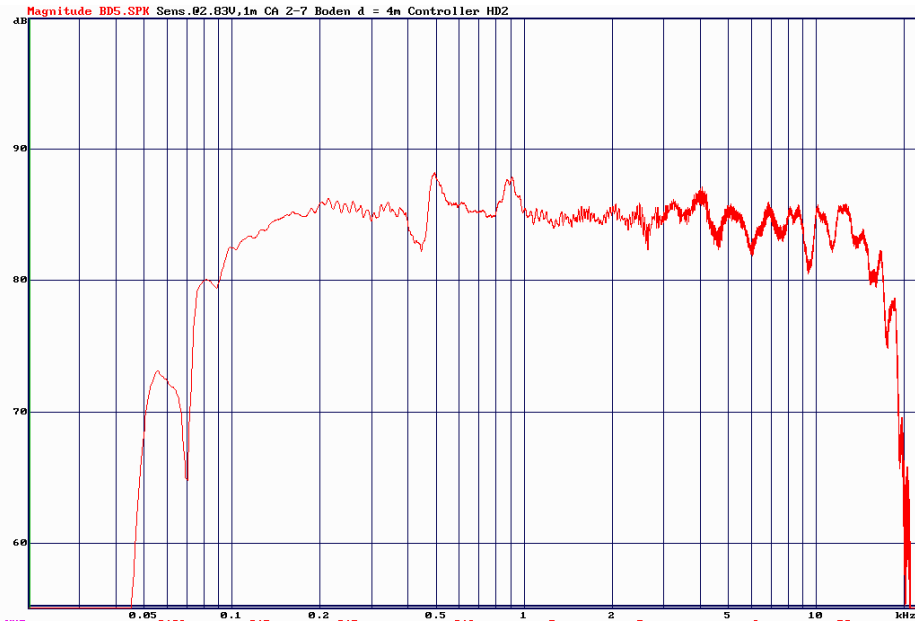
cadenbach acoustics

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Typical system using 9 x die2.7 full active per side with 3 x die1D sub on the ground, on option in cordioid configuration or also flown above the die2.7. The subwoofer can also be used as groundstack base.

