

 <b>Specifications</b>	Control Monitors		Nearfield Monitors				Midfield/Main Monitors		Subwoofer	
	M 50	M 50 D	O 100	P 104	O 200	O 300 D	O 400	O 500 C	O 800	
<b>Free field frequency response</b>	90 Hz - 20 kHz, ± 5 dB	90 Hz - 20 kHz, ± 5 dB	60 Hz - 20 kHz, ± 2 dB	85 Hz - 20 kHz, ± 2 dB	60 Hz - 20kHz, ± 2 dB	40 Hz - 20kHz, ± 2 dB	50 Hz - 20 kHz, ±2 dB	30 Hz - 20 kHz, ± 1,5 dB	30 Hz - 90 Hz, ± 2 dB	
<b>Self generated noise level at 10 cm</b>	20 dB(A)	20 dB(A)	22 dB(A)	••	20 dB(A)	20 dB(A)	20 dB(A)	25 dB(A)	20 dB(A)	
<b>THD &lt; 0,5% at 1 m distance from</b>	••	••	150 Hz @ 90 dB/SPL	150 Hz @ 90 dB/SPL	125 Hz @ 95 dB/SPL	100 Hz @ 95 dB/SPL	50 Hz @ 95 dB/SPL	100 Hz @ 101 dB /SPL	30 Hz @ 95 dB/SPL	
<b>Nominal power capacity</b>	••	••	••	80 W	••	••	••	••	••	
<b>Max. SPL in a half chamber at 3% THD averaged between</b>	100,0 dB/SPL	100,0 dB/SPL	107,7 dB/SPL	111,5 dB/SPL	110,0 dB/SPL	112,8 dB/SPL	112,8 dB/SPL	123,4 dB/SPL at 1% THD	111,8 dB/SPL	
	100 Hz and 6 kHz	100 Hz and 6 kHz	100 Hz and 6 kHz	100 Hz and 6 kHz	100 Hz and 6 kHz	100 Hz and 6 kHz	100 Hz and 6 kHz	100 Hz and 6 kHz	40 Hz and 90 Hz	
<b>Elektronics</b>										
<b>Woofers amplifier, cont. output power (THD &lt; 0.1%)</b>	14 W	14 W	50 W	••	50 W	150 W	70 W	400 W	120 W	
<b>Woofers amplifier, peak output power</b>	25 W	25 W	80 W	••	80 W	250 W	95 W	500 W	185 W	
<b>Midrange amplifier, cont. output power (THD &lt; 0.1%)</b>	••	••	••	••	••	65 W	70 W	230 W	••	
<b>Midrange amplifier, peak output power</b>	••	••	••	••	••	75 W	95 W	280 W	••	
<b>Tweeter amplifier, cont. output power (THD &lt; 0.1%)</b>	••	••	50 W	••	50 W	65 W	70 W	290 W	••	
<b>Tweeter amplifier, peak output power</b>	••	••	80 W	••	80 W	110 W	95 W	360 W	••	
<b>Controller design</b>	analog, active	analog, active	analog, active	analog, passive	analog, active	analog, active	analog, active	digital, FIR-Filter	analog, active	
<b>Crossover</b>	<b>Frequency</b>	••	2,5 kHz	3,0 kHz	2,5 kHz	650 Hz / 3,3 kHz	450 Hz / 3,5 kHz	520 Hz / 2,8 kHz	90 Hz	
	<b>Slope</b>	••	24 dB/Okt	TT12 / HAT 18 dB /Okt	24 dB/Okt	18 dB/Okt	24 dB/Okt	48 dB/Okt	24 dB/Okt	
<b>Equalization</b>	<b>Low Cut</b>	••	••	••	••	••	••	30;40;50;60;70;80 Hz	30;40;50;60 Hz	
	<b>Bass</b>	••	••	0;-2,5;-5;-7,5 dB	••	0;-2,5;-5;-7,5 dB	0;-2,5;-5;-7,5 dB	0;-2,5;-5;-7,5 dB	0;-2;-4;-6;-8;-10 dB	••
	<b>Mid</b>	••	••	0;-1;-2;-4 dB	0;-2;-4;-6 dB	••	0;-1,5;-3;-4,5 dB	••	0;-1;-2;-3;-4;-5 dB	••
	<b>High</b>	••	••	••	••	••	1;0;-1;-2 dB	••	1;0;-1;-2;-3;-4 dB	••
<b>Protection circuitry</b>	••	••	Limiter: Low, High	Multifuse: High	Limiter: Low, High	Limiter: Low, Mid, High	Limiter: Low, Mid, High	Limiter: Low, Mid, High	Limiter: Low	
<b>Subsonic filter</b>	<b>Frequency/slope</b>	••	••	••	40 Hz ; 18 dB/Okt	30 Hz ; 6 dB/Okt	25 Hz ; 18 dB/Okt	20 Hz; 12 dB/Okt	25 Hz; 12 dB	
<b>Input, analog</b>	<b>Impedance, electr. symm.</b>	••	••	10 kΩ	8 Ω	10 kΩ	••	10 kΩ	3 x 20 kΩ	
	<b>Impedance, bal. floating</b>	20 kΩ	20 kΩ	10 kΩ, optional	••	4,7 kΩ, optional	14 kΩ	4,7 kΩ, optional	14 kΩ	3 x 20 kΩ, optional
	<b>Input sensitivity</b>	+6 dBu	+ 6 dBu	+ 6 dBu	87 dB/SPL at 1m	0 dBu / +6 dBu	+ 6 dBu	0 dBu / +6 dBu	- 6 dBu	- 6 dBu
	<b>Attenuator</b>	0 ... 8	0 ... 8	0 ... 24 dB	••	0 ... 24 dB	0 ... 28 dB	0 ... 24 dB	0 ... 128 dB	0 ... 18 dB
	<b>CMRR</b>	> 50 dB @ 15 kHz	> 50 dB @ 15 kHz	> 50 dB @ 15 kHz	••	> 60 dB @ 15 kHz	> 70 dB @ 15 kHz	> 60 dB @ 15 kHz	> 80 dB @ 15 kHz	> 50 dB @ 15 kHz
<b>Output, analog</b>	••	AES 3id/EBU (S/P - DIP)	••	••	••	••	••	XLR, Subwoofer	3 x XLR, Monitor	
<b>In-/Output, digital</b>	<b>XLR, (BNC)</b>	••	AES/EBU (S/P-DIF)	••	••	••	AES/EBU (S/P-DIF)	••	AES/EBU (S/P-DIF)	••
	<b>Impedance</b>	••	110 Ω, bal. floating (75 Ω, non symm.)	••	••	••	110 Ω, bal. floating (75 Ω, non symm.)	••	110 Ω, bal. floating (75 Ω, non symm.)	••
<b>Switch, digital input</b>	••	Analog/ Digital-	••	••	••	••	Analog/ Digital-	••	Analog/ Digital-	••
	••	Left/Mono/Right	••	••	••	••	Left/Mono/Right	••	Left/Mono/Right/Insert	••
<b>Digital Converter</b>	<b>Resolution, design</b>	••	24 bit DA, ΔΣ	••	••	••	24 bit DA, ΔΣ	••	24 bit stacked AD, ΔΣ	••
	<b>Sampling rate</b>	••	32 kHz - 48 kHz	••	••	••	32 kHz - 96 kHz	••	44,1 kHz - 48 kHz	••
<b>Control lights</b>	<b>Power on</b>	LED red	LED green (power switch)	K + H-Logo "red"	••	LED green	K + H-Logo "red"	LED green	K + H-Logo "red"	LED green (power switch)
	<b>Limit / Clip</b>	••	••	K + H-Logo "blinking"	••	LED yellow / LED red	K + H-Logo "blinking"	LED yellow / LED red	Display "Limit"	••
	<b>Display</b>	••	••	••	••	••	••	••	2 x 24 digits VFD, blue	••
<b>Mains</b>	230 V AC; 12-14V DC	230 V AC; 12-14V DC	230 V AC	••	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC
<b>Power consumption</b>	<b>Idle</b>	2 VA; 90 mA	4 VA	8 VA	••	15 VA	18 VA	40 VA	50 VA	15 VA
	<b>Full output AC; DC</b>	27 VA; 1,7 A	30 VA; 1,8 A	70 VA	••	120 VA	240 VA	220 VA	1500 VA	200 VA
<b>Mechanical Specs</b>										
	<b>Hight</b>	173 mm	173 mm	267 mm	267 mm	325 mm	253 mm	500 mm	750 mm	360 mm
	<b>Width</b>	120 mm	120 mm	170 mm	170 mm	207 mm	383 mm	295 mm	400 mm	320 mm
	<b>Depth</b>	116 mm	116 mm	190 mm	190 mm	250 mm	290 mm	260 mm	467 mm	510 mm
<b>Volume</b>	2,4 l	2,4 l	8,6 l	8,6 l	16,8 l	28,1 l	38,4 l	140,0 l	58,8 l	
<b>Weight</b>	2,6 kg	2,8 kg	5,5 kg	5,0 kg	10,0 kg	14,0 kg	18,0 kg	65,0 kg	25,0 kg	
<b>Drivers</b>		magnetically shielded	magnetically shielded	magnetically shielded	magnetically shielded	magnetically shielded	magnetically shielded	magnetically shielded	magnetically shielded	magnetically shielded
	<b>Woofers</b>	100 mm / 4"	100 mm / 4"	145 mm / 5,5"	145 mm / 5,5"	170 mm / 6,5"	210 mm / 8"	220 mm / 8,5"	300 mm / 12"	265 mm / 10"
	<b>Midrange</b>	••	••	••	••	••	76 mm / 3"	76 mm / 3"	76 mm / 3"	••
	<b>Tweeter</b>	••	••	25 mm / 1"	25 mm / 1"	25 mm / 1"	25 mm / 1"	25 mm / 1"	25 mm / 1"	••
<b>Mounting points</b>	3/8" thread on bottom	3/8" thread on bottom	2 x M8 on rear	2 x M8 on rear	2 x M8 on sides	2 x M8 on sides	2 x M20 on sides	2 x M20 on sides	••	
	2 x M6 on sides	2 x M6 seitlich	••	••	••	Rear panel bracket	1 x M20 on bottom	1 x M20 on bottom	••	
<b>Mounting hardware</b>	LH 11	LH 11	KG 30 / LH 32 / C15	KG 30 / LH 32 / C15	C 15	LH 25+LH 28 / LH29	LH 34+LH 28 / LH29	LH 35+LH28/LH29	••	
	••	••	LH 31+LH 28 / LH29 /	LH 31+LH 28/ LH 29	LH 26+27 / LH28 / LH29	••	LH 36	LH 36	••	
	••	••	LH 31+LH 7/ LH8 / LH 27	LH 31+ LH 7 / LH8 / LH27	••	••	••	••	••	
<b>Cabinet surface</b>	Painted finish	Painted finish	Painted finish	Painted finish	Painted or Flock finish	Painted or Flock finish	Painted or Flock finish	Painted or Flock finish	Painted finish	
<b>Color</b>	<b>Standard</b>	dark brown	charcoal grey	charcoal grey	charcoal grey	charcoal grey	charcoal grey	charcoal grey	charcoal grey	charcoal grey
	<b>Special (add-on price)</b>	optional	optional	optional	optional	optional	optional	optional	optional	optional
<b>Baffle cover</b>	metal grille, fixed	metal grille, fixed	metal grille, removable	metal grille, removable	metal grille, removable	metal grille, optional	metal grille, removable	••	metal grille, removable	