

KH 120 A - Active Studio Monitor

Technical Data

Acoustics

Free field frequency response	52 Hz ... 21 kHz, \pm 3 dB
Pass band free field frequency response	54 Hz ... 20 kHz, \pm 2 dB
Self-generated noise (with input gain set to 100 dB for 0 dBu)	< 20 dB(A) at 10 cm
Total harmonic distortion < 0.5 % at 95 dB SPL at 1 m	> 100 Hz
Max. SPL in full space / calc. in half space at 3% THD at 1m	105.1 / 111.1 dB SPL (averaged between 100 Hz and 6 kHz)
Bass capability: Max. SPL in half space at 3% THD at 1m	104.8 dB SPL (averaged between 50 Hz and 100 Hz)
Max. short term SPL with IEC-weighted noise (IEC 60268-5) at 1 m, in typical listening conditions	107 dB(C) SPL
Max. short term SPL with music material at 2.3 m, in typical listening conditions (pair)	97 dB(C) SPL (full range) 104 dB(C) SPL (with subwoofer)
Max. long term SPL with pink noise at 2.3 m, in typical listening conditions (single/pair)	88 / 93 dB(C) SPL (full range) 89 / 94 dB(C) SPL (with subwoofer)

Electronics

Woofers amplifier, cont.(peak) output power*	50 W (80 W)
Tweeters amplifier, cont.(peak) output power*	50 W (80 W)
Controller design	Analog, active
Crossover Frequency	2.0 kHz
Crossover Slope (dB/oct.)	24, 4th order
Equalization - Bass	0, -2.5, -5, -7.5 dB
Equalization - Mid	0, -1.5, -3, -4.5 dB
Equalization - High	+1, 0, -1, -2 dB
Protection circuitry	Limiters: low, high
Infrasonic filter frequency; slope	30 Hz; 6 dB/oct.
<i>Analog Input</i>	
Impedance, electrically balanced	10k Ohms in position 94/108 dB SPL at 1 m 20k Ohms in position 100/114 dB SPL at 1 m
Input gain control (sensitivity)	0 dB to -15 dB
Output level control	94, 100, 108, 114 dB SPL
CMRR	>56 dB @ 15 kHz
Maximum input level	24 dBu
Displays and indicators - power on	Neumann logo "White"
Displays and indicators - limit/clip	Neumann logo "Red"
Mains Power Supply, voltage; frequency	100-240 V~; 50/60 Hz
Power consumption - Idle	20 W
Power consumption - Full output AC	200 W

Mechanics

Cabinet surface finish, color: custom	Painted aluminium, metallic anthracite (RAL 7021) Powder-coated aluminium, White (RAL 9016)
Operating conditions	+10° C to +40° C (+50° F to +104° F), <90% RH, non-condensing
Transport/storage conditions	-25° C to +70° C (-13° F to 158° F), <90% RH, non-condensing
Drivers	Magnetically shielded
Woofers	130 mm (5.25")
Tweeters	25 mm (1")
Mounting points	2 x M8 on rear panel
Height x width x depth, mm (inches)	277 x 182 x 220 mm (10 7/8" x 7 1/8" x 8 5/8")
Internal net volume / external volume	6.5 liters / 9.7 liters
Weight	6.4 kg (14.1 lbs)
Delivery includes	1x KH 120 A G 1x EU mains cable or 1x US mains cable or 1x UK mains cable or 1x CCC certified power cable 4x Self-adhesive feet 1x Operating manual 1x Supplement "Getting Started Quickly"