

5050A

Data Sheet
Genelec 5050A
Home Theater Subwoofer

GENELEC®



The Genelec 5050A is a compact active Home Theater subwoofer designed to complement Genelec 6020A active Home Theater loudspeakers. The 5050A extends the system's bass response down to 26 Hz and integrates perfectly with the 6020A's in any environment.

The 5050A has one magnetically shielded 8" active speaker driver on the front side of a sturdy MDF cabinet and two passive radiators, one on each side of the cabinet. The amplifier unit rated at 70 Watts and the active crossover electronics are mounted on the back panel of the subwoofer.

The connectors include a bass management system with three pairs of RCA IN/OUT line level connectors for three main

channels, parallel XLR and RCA connectors for the LFE channel and an RCA Link Out connector for daisy-chaining multiple subwoofers together. The three main channels have a fixed 85 Hz crossover filter designed for optimal performance with Genelec 6020A loudspeakers. The LFE channel can reproduce signals up to 120 Hz. Adjustable input sensitivity provides easy connection to all types of decoders. Bass roll-off rate and crossover phase can also be adjusted to suit different acoustical environments and subwoofer positioning.

The 5050A packs a respectable punch of 105 dB maximum SPL. If more sound pressure is needed, coupling multiple subwoofers together using the Link Out chan-

nel gives an added 6 dB for a system of two, 9.5 dB for three and 12 dB for four subwoofers.

Finding the correct place for the subwoofer is easy due to the compact size and versatile acoustical adjustments of the 5050A. Installing the 5050A out of sight in a cabinet is no problem either.

A combination of the 5050A and five 6020A's can create a dynamic and detailed soundstage like no other home theater loudspeaker system of the same size category. Contact your local Genelec dealer for an audition and see Genelec's Home Theater website www.genelec-ht.com for more information of Genelec's Home Theater loudspeaker line.

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SYSTEM SPECIFICATIONS

	5050A
Free field frequency response (± 3 dB)	Main 26 Hz...85 Hz LFE 26 Hz...120 Hz
Maximum short term sine wave SPL output averaged from 30 to 85 Hz, measured in half space at 1 meter	99 dB
Maximum peak SPL output with random pink noise, measured in half space at 1 meter	104 dB
Self generated noise level in half space at 1 m on axis (A-weighted)	≤ 15 dB
Driver, magnetically shielded	205 mm (8")
Passive radiators	2 x 205 mm (8")
Weight	15 kg (33 lb)
Dimensions	
Height	332 mm ($13\frac{1}{16}$ ")
Width	325 mm ($12\frac{3}{4}$ ")
Depth	330 mm (13")

If the subwoofer is flush mounted into a wall or a cabinet, the recess must be 10 cm (4") wider, higher and deeper than the subwoofer itself to allow sufficient clearance for the passive radiators and air circulation for cooling.

AMPLIFIER SECTION

	5050A
Amplifier short term output power (Long term output power is limited by driver unit protection circuitry)	70 W
Amplifier system THD at nominal output	≤ 0.08 %
Mains voltage	100, 120 or 230 V
Power consumption (average)	
Idle	11 VA
Full output	120 VA

Selectable Autostart function for signal sensing Standby/On switching

CONNECTORS

	5050A
Main channels IN/OUT, LFE channel IN and LINK OUT unbalanced female RCA connectors	
pin	+
ring	gnd
LFE IN Balanced female XLR Input connector	
pin 1	gnd
pin 2	+
pin 3	-
Input impedance	10 kOhm balanced
Input level for 100 dB SPL output @ 1 m	Variable from +12 to -6 dBu
LINK OUT gain	0 dB
Main channel OUT gain	0 dB

CROSSOVER SECTION

	5050A
Subsonic filter (18 dB/octave) below	26 Hz
Crossover frequency, (sub/main channels)	85 Hz
LFE channel cutoff frequency	120 Hz
Midband rejection >400 Hz	≥ 50 dB
Bass Roll-Off control operating range in 2 dB steps	From 0 to -6 dB @ 27 Hz
Phase matching control in 90° steps	From 0 to -270° @ 85 Hz