

# GENELEC®



The Genelec HTS6 is a powerful active subwoofer designed specially for high quality digital 5.1 channel Home Theater systems. Its 19 to 120 Hz ( $\pm 3$  dB) frequency range and 124 dB sound pressure output capability are sufficient to handle the most demanding high SPL applications. The HTS6 is an ideal companion for Genelec's active three way loudspeakers in large Home Theater installations.

XLR and RCA line level input connectors and adjustable input sensitivity provide easy connection to all types of decoders. Bass roll-off rate and crossover phase can be adjusted to suit different acoustical environments and subwoofer positioning. A Link Out connector allows coupling two

or more subwoofers together when high sound pressure levels are required. Coupling multiple subwoofers together gives an added 6 dB for a system of two, 9.5 dB for three and 12 dB for four subwoofers. The amplifiers are equipped with an Autostart function for automatic switching between Standby and On modes. Connectors for remote controlled mode switching by 12 V trigger signal or external switch/relay are also provided. All connectors and controls are concentrated on an aluminium panel at the end of the loudspeaker cabinet.

The loudspeaker cabinet of the HTS6 is made thick and heavily braced MDF. The reflex tube runs along the rear wall of the cabinet and opens next to the connector

panel. This facilitates simple construction when installing the subwoofer in a cabinet or wall structure as only two sides of the subwoofer require free space before them. Smoothly curving openings at both ends of the reflex tube minimize turbulence and port noise.

Four 305 mm (12") magnetically shielded long stroke drivers are protected by aluminium grilles which also act as heatsinks for the power amplifiers. Each driver is individually powered by a directly coupled 250 Watt amplifier.

See Genelec's Home Theater website [www.genelec-ht.com](http://www.genelec-ht.com) for more information on Genelec's Active Home Theater loudspeaker line.

# HTS6 Data Sheet

## SYSTEM SPECIFICATIONS

	HTS6
Free field frequency response (+/- 3 dB)	19 Hz...120 Hz
Maximum short term sine wave SPL output averaged from 30 to 85 Hz, measured in half space at 1 meter	≥ 124 dB SPL
Maximum peak SPL output with random pink noise, measured in half space at 1 meter	≥ 129 dB SPL
Self generated noise level in free field @ 1 m on axis (A-weighted)	≤ 20 dB
Harmonic distortion at @ 1 m on axis in half space 2nd 3rd	@ 105 dB SPL 30 ... 85 Hz ≤ 2 % ≤ 2 %
Drivers	4 x 305 mm (12")
Weight	120 kg (265 lbs)
Dimensions Height Width Depth	524 mm (20 5/8") 1440 mm (56 11/16")* 558 mm (22")

\* If the subwoofer is flush mounted into a wall or a cabinet, the recess must be 20 cm (8") wider than the subwoofer to allow sufficient clearance for the reflex port situated at the end of the subwoofer enclosure.

## CROSSOVER SECTION

	HTS6
Subsonic filter (18 dB/octave) below	19 Hz
Upper bandwidth	120 Hz selectable
Crossover slopes Lowpass Highpass	36 dB/octave 12 dB/octave
Midband rejection >400 Hz	≥ 50 dB
Bass roll-off control operating range in 2 dB steps	From 0 to -6 dB @ 20 Hz
Phase matching control in 90° steps	From 0 to 270° @ 85 Hz

## AMPLIFIER SECTION

	HTS6
Short term amplifier output power (Long term output power is limited by driver unit protection circuitry)	1000 W
Amplifier system distortion at nominal output THD	≤ 0.05%
Mains voltage	100/200V or 115/230V
Power consumption (average) Idle Full output	60 VA 1000 VA

## INPUT SECTION

	HTS6
Input connector XLR female pin 1 pin 2 pin 3	gnd + -
Input impedance	10 kOhm balanced
Input level for 100 dB SPL output @ 1 m	Variable from +6 to -12 dBu

## OUTPUT SECTION

	HTS6
Output connector XLR male pin 1 pin 2 pin 3	gnd + -
Remote LED connector (RJ11)	Remote LED for Power/Overload+Bypass
Main monitor Out gain	0 dB
Sum/Link Out gain	0 dB

## CONTROLS

	HTS6
Input sensitivity	+6 to -12 dBu
Bass roll-off	0/-2 dB/ -4 dB/ -6 dB @ 20 Hz
Phase	0/90/180/270°

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