

Specifications

SYSTEM SPECIFICATIONS	
Lower cut-off frequency, -6dB	≤ 67 Hz
Upper cut-off frequency, -6dB	> 40 kHz
Frequency response within ± 2.5 dB	74 Hz – 20 kHz
Maximum short-term sine wave output on axis in half space, average 100 Hz to 3 kHz, at 1 m, using PoE+ power	≥ 96 dB SPL
Maximum long-term RMS acoustic output in same conditions with IEC-weighted noise, at 1 m using PoE+ power (limited by driver unit protection circuit and the PoE power supply being used)	≥ 91 dB SPL
Maximum peak acoustic output per unit in a listening room with music material, at 1 m, using PoE+ power	> 100 dB SPL
Self-generated noise level in free space, at 1 m on the acoustical axis, A-weighted	≤ 5dB
Harmonic distortion at 80 dB SPL at 1 m on axis frequency range 70 – 200 Hz frequency range >200 Hz	< 3% < 0.5%
Dispersion angle (degrees), horizontal	130°
Dispersion angle (degrees), vertical	110°
Bass driver	76 mm (3 in) cone
Treble driver	19 mm (3/4 in) metal dome
Weight	1.5 kg
Height	181 mm (7 1/8 in)
Width	121 mm (4 3/4 in)
Depth	115 mm (4 1/4 in)

Maximum short-term output level is limited by the PoE technology being used and the crest factor of the audio signal. The stated values are typical for music and speech signals.

Maximum long-term output level can be further limited by loudspeaker system protection. Genelec recommends using PoE+ whenever possible. Using lower-power PoE can limit short-term maximum and long-term maximum, depending on the characteristics of the signal being reproduced.

User selectable filters can be set to positive gain. Positive gain must be used with care as it is possible to cause premature overload of the loudspeaker at specific frequencies.

INPUT / CROSSOVER SECTION	
Ethernet connection	100BASE-TX 1 x RJ45
Nominal SPL with 0 dBFS digital audio input at maximum sensitivity	130 dB SPL
Audio-over-IP streaming formats	AES67, ST2110-30, Dante
Crossover frequency, bass/treble	2.9 kHz
Number of user-adjustable filters	20
User selectable filters, choice of function for each user-adjustable filter	parametric notch high frq. shelf low frq. shelf bass roll-off bass tilt treble tilt
User selectable filters, parameter adjustment ranges for a notch filter <ul style="list-style-type: none"> • gain • Q-value center frequency	-20...+2 dB 0.1...20 10 Hz...16 kHz
Sensitivity, adjustment range	-60...0 dB
Delay, adjustment range	0...98 ms

AMPLIFIER SECTION	
Bass amplifier output power, short-term	18 W
Treble amplifier output power, short-term	18 W
Supply power at switch, power-over-Ethernet PoE+ (Class 4) PoE (Class 3)	30 W 15.4 W
Supported PoE standards PoE+ (supports signature and LLDP) PoE (supports signature)	IEEE 802.3at IEEE 802.3af
CAT cable specification	5, 5e, 6
Maximum CAT cable length	100 m (333 ft)
Power consumption in idle	4 W
Power consumption in ISS standby mode	3 W