

# Genelec 1033A

## System Specifications

Lower cut-off frequency, -3 dB:	< 37 Hz
Upper cut-off frequency, -3 dB:	> 22 kHz
Free field frequency response tolerance of system	± 3 dB

Maximum sine wave acoustic output @ 1m on axis in a half space

continuous  
(thermally limited) > 118 dB SPL

short-term  
(200 ms, amplifier output voltage limited) > 123 dB SPL

Maximum continuous RMS acoustic output in same condition with IEC-weighted noise > 118 dB SPL

Maximum peak acoustic output per pair at engineer's site, speakers @ 2 m from the engineer with music material > 125 dB

A -20 dBu signal input will produce 107 dB SPL in free field @ 1 m on axis with all controls set at the 'CAL' position. The 'CAL' position is the 0 dB position of all tone controls and the maximum sensitivity position of the input level control. See specification in the Crossover Section.

Self generated noise level in free field @ 2m on axis < 15 dB (A weighted)

Harmonic distortion at 100 dB SPL at 1m on axis

f < 200 Hz < 2 %  
f > 200 Hz < 1 %

Drivers

Bass 2 x 10" cone (250 mm)  
Mid 5" cone (120 mm)  
Treble 1" dome (25 mm)

Weight:

Speaker 129 lb. (59 kg)  
Amplifier 120 lb. (55 kg)

Dimensions, Speaker:

Width 27 1/2" (700 mm)  
Height 21 5/8" (550 mm)  
Depth 17 3/4" (450 mm)

Dimensions, Amplifier:

Width 19" (483 mm)  
Height 29 3/4" (755 mm)  
Depth 14 9/16" (370 mm)

### Amplifier

Bass amplifier output power at 4 ohm load:  
momentary 2 x 500 W

Mid amplifier output power at 8 ohm load:  
momentary 2 x 270 W

Treble amplifier output power at 8 ohm load:  
momentary 2 x 270 W

Continuous output power is limited by the driver unit protection processor.

Protection levels:	
Bass	25 V RMS
Mid	20 V RMS
Treble	8 V RMS
Slew rate	100 V / $\mu$ s
Amplifier system distortion at nominal output	
THD	< 0,05 %
SMTE-IM	< 0,1 %
CCIF-IM	< 0,1 %
DIM100	< 0,1 %
Signal to Noise ratio, from shorted system input to channel output, referred to full output	
bass	101 dB
midrange	105 dB
treble	106 dB
Mains voltage	100/110/200/220/240 VAC
Voltage operation tolerance	$\pm$ 5 %
Power consumption,	
idle	150 VA
full output	2000 VA

### Crossover

Input connector: XLR female	pin 2+ pin 3-
Input impedance	10 kOhm balanced
Continuously variable input level for maximum output:	
@10 dB attenuation	from +8 to +18 dBu
@0 dB attenuation	from -2 to + 8 dBu
Subsonic filter:	down 12 dB @18 Hz re 100 Hz level
Ultrasonic filter	down 12 dB@ 50 kHz re 10 kHz
Crossover frequency	410 Hz
bass / midrange	3,5 kHz
midrange / treble	
Tone control operation range	
1 dB steps	
bass	from 0 dB to -6 dB
middle	from 0 dB to -6 dB
treble	from 0 dB to -6 dB
The 0 dB position is the 'CAL' position (switch position number 7)	
Bass roll-off filter in 2 dB steps:	from -6 dB to 0 dB @ 35 Hz
The 0 dB position is the 'CAL' position (switch position number 4)	
Bass tilt control in 2 dB steps:	from 0 dB to -6 dB @ 50 Hz
The 0 dB position is the 'CAL' position (switch position number 3)	

All data subject to change without prior notice