

# Genelec 1024C

## System Specifications

Lower cut-off frequency, -3 dB:	< 32 Hz
Upper cut-off frequency, -3 dB:	> 20 kHz
Free field frequency response tolerance of system	± 3 dB
Maximum continuous sine wave acoustic output @ 1m on axis in half space	> 116 dB
Maximum continuous RMS acoustic output in same conditions with IEC-weighted noise:	> 116 dB
Maximum peak acoustic output per pair at engineers' site, speakers @ 2 m from the engineer, with music material	> 122 dB

A -20 dBu signal input will produce 97 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 @ 1m on axis	< 15 dB (A weighted)
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Harmonic distortion at 100 dB SPL @ 1m on axis	
f < 200 Hz	< 3 %
f > 200 Hz	< 1 %

Drivers	
Bass	15" cone (385 mm)
Mid	5" cone (120 mm)
Treble	1 1/8" dome (28 mm)

Weight	150 lb (68 kg)
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Dimensions:	
Height	19 1/2" (495 mm)
Width	35 1/2" (900 mm)
Depth	18 1/4" (464 mm)

### Amplifier

Bass amplifier output power at 4 ohm load:	
continuous	350 W
momentary	490 W

Midrange amplifier output power at 8 ohm load:	
continuous	50 W
momentary	250 W

Treble amplifier output power at 8 ohm load:	
continuous	8 W
momentary	250 W

Mid and treble channel continuous output power is limited by the driver unit protection processor

Slew rate	100 V / $\mu$ s
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Amplifier system distortion at nominal output	< 0,05 %
THD	< 0,1 %
SMPTE-IM	< 0,1 %
CCIF-IM	< 0,1 %

## DIM100

Signal to Noise ratio, from shorted system input to channel output, referred to full output:

bass	104 dB
midrange	100 dB
treble	94 dB

Mains voltage 100/110/220/240 VAC

Voltage Operation Range  $\pm 10\%$

Power consumption, idle	50 VA
full output	700 VA

## Crossover

Input connector: XLR female pin 2 +  
pin 3 -

Input impedance 10 k balanced

Continuously variable input level for maximum output:  
@10 dB attenuation from +9 dBu to +19 dBu  
@0 dB attenuation from -1 dBu to +9 dBu

Subsonic filter down 12 dB @ 10 Hz  
re 100 Hz level

Ultrasonic filter down 12 dB @ 50 kHz  
re 10 kHz level

Crossover frequency 400 Hz  
bass / midrange 3.5 kHz  
midrange / treble

Tone control operation range in 1 dB steps  
bass from 0 dB to -6 dB  
midrange 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 a 4 dB step: from -4 dB to 0 dB @ 32 Hz

The 0 dB position is the 'CAL' position (switch position number 2)

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 4)

All data subject to change without prior notice