

Genelec 1024A

System Specifications

	Min	Typ	Max
Three-way, vented-box (B6) system, dynamic drivers			
Lower cut-off frequency, -3 dB, Hz:	29	30	33
Upper cut-off frequency, -3 dB, kHz:	17	19	
Response tolerance, ± dB		3	
Maximum continuous acoustic output @ 1m on axis in free field, dB	110	112	
Harmonic distortion at 100 dB SPL @ 1m on axis			
f < 200 Hz		2	3
f > 200 Hz		0.5	1
Treble radiation loss at 45 ° off axis, dB			
at 5 kHz		4	5
at 12 kHz		6	8
Drivers			
Bass	385 mm		
Mid	80 mm		
Treble	21 mm		
Enclosure finish	Black		

Amplifier

	Min	Typ	Max
Three class AB power amplifiers with active 3-way crossover filter, mounted with the mains supply on the cooling plate that is also the amplifier mechanical frame			
Bass output at 8 ohms load, continuous V_{RMS}	24		
Mid output at 8 ohms load, continuous V_{RMS}	24		
Treble output at 8 ohms load, continuous V_{RMS}	11		
Slew rate V/μs			
Bass	5	10	
Mid	20	30	
Treble	40	60	
System distortions at nominal output, %			
SMPTE-IM		0,1	0,3
CCIF-IM		0,15	0,3
DIM		0,2	0,3
THD		0,15	0,3
Open-loop gain, dB			
Bass		56	
Mid		53	
Treble		55	
Open-loop bandwidth, kHz	20	40	

	Mid	60	80
	Treble	100	110
Negative feedback, dB	Bass		26
	Mid		25
	Treble		22

Crossover

		Min	Typ	Max
Three parallel bandpass filters with common symmetric input stage and individual output attenuators. Frequency response determining components on a plug-in daughter board				
Input impedance, kOhm			10	
Input level, dBm	for maximum output		10	
Bass high-pass	2nd order with adjustable damping providing system responses of 0 dB, -2 dB, -4 dB and -6 dB at 35 Hz			
Subsonic attenuation, dB at 15 Hz			12	
Bass Low-pass, Hz	3rd order Bessel		320	
Mid High-pass, Hz	3rd order Bessel		320	
Mid Low-pass, kHz	3rd order Bessel		3	
Treble High-pass, kHz	3rd order Bessel		3	
Treble Low-pass, Hz	2nd order Butterworth		40	
Input controls	Volume, continuously variable ± 6 dB in 2 dB steps in each channel plus 4-position bass response switch			
Output controls				

General

		Min	Typ	Max
Input connector	XLR 3-32			
Self generated noise level, at 1m on axis, dB(A)			15	
Operating temperature, C°		0		45
Specifications applicable, C°		15		30
Relative humidity, %		20		85
The amplifier system has passed the following tests				
Dry heat, stock	IEC 68-2, Bb			
Dry heat, operation	IEC 68-2-2, Bb			
Shock	IEC 68-2-29, Eb			
Vibration	IEC 68-2-6, Fc			
Damp Heat, cycling	IEC 68-2-30, Db			
Cold, operation	IEC 68-2-1, Ab			
Cold, stock	IEC 68-2-1, Ab			
Temperature changes	IEC 68-2-14, Nb			
Height, mm		900		902
Width, mm		495		497
Depth, mm		460		462
Weight, kg	net		60	

Mains voltage, VAC	shipping specifications applicable operation	198	65 220	242
Power consumption, VA		30		300

All data subject to change without prior notice