

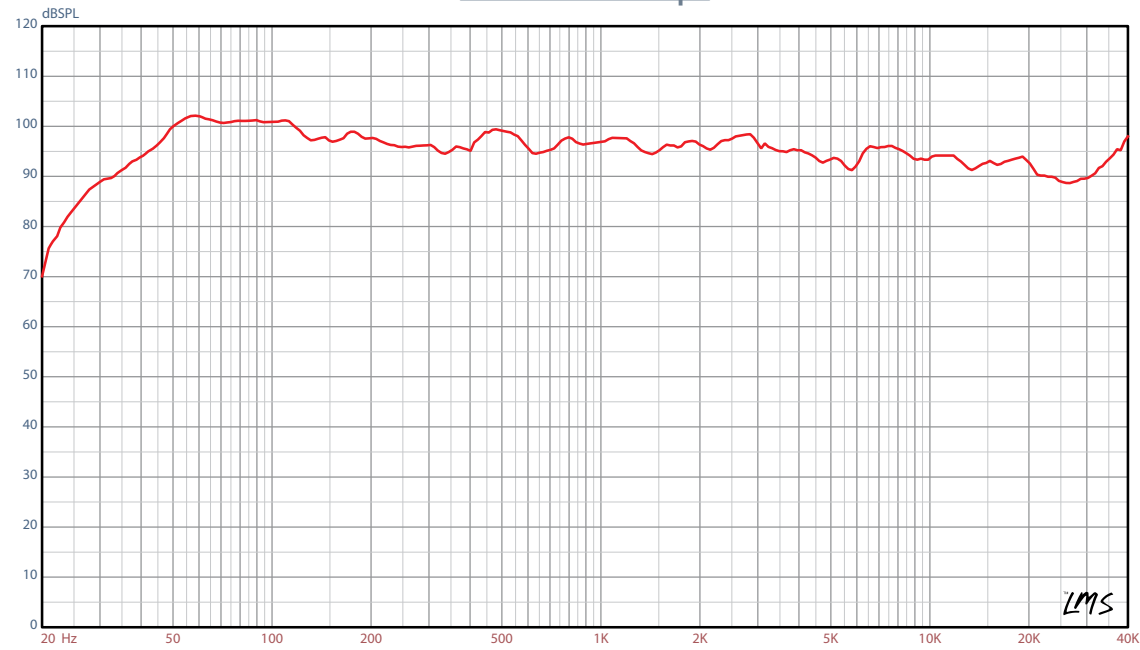


OMEN Loudspeaker Specifications

NOVEMBER 2010

Design	High efficiency, high output, direct radiating floor standing loudspeaker. Omen features Zu's full-range driver (Zu260FRD/G4), ZuRG driver/box/room loading technology, no crossover or filters on full-range driver, complimented by a composite dome time-aligned machined from billet tweeter to provide the acoustic sparkle and resolution from 12,000 Hz and up.
Version	mark-1
Launched	September 2010 with production units shipping October 2010
H W D	36" x 12" x 12" (92 x 30.5 x 30.5 cm)
Footprint	12" x 12" (30.5 x 30.5 cm)
Weight	53 pounds (24 kg)
Packaged	one loudspeaker per shipping box, 60 pounds (27 kg)
Driver Complement	Zu260FRD/G4, 10-1/3" full-range driver covering 30 – 12,000 Hz Zu APT-L2 tweeter assembly with stainless screen
Component Tolerance	better than 1% driver pair matching, 0.1% on all other electrical components
Recommended Connector	5-way binding posts accepting:
Accepted Connectors	1/4" spade (6.3mm fork) 5/16" spade (8mm fork) bare wire \leq #4 AWG banana plugs
Efficiency	98 dB SPL @ 1 Watt, 1 meter
Impedance	12 ohm, nominal full bandwidth (see impedance graph for complete detail)
Average Room / Moderate Volume	4 – 12 watt
Large Room / Loud	12 – 36 watt
Large Room / Concert Level	36 – 108 watt
Max Music Input Power	200 watt
Bandwidth	34 – 25,000 Hz
Group Delay	< 5 ms
Dynamic Range	119 dB
Horizontal Listening Window	40°
Vertical Listening Window	40°
Full-range Driver Network	none
Super-tweeter Network	1st order Bessel @ 18 kHz (Erse PusleX condenser), 12 kHz acoustic
Internal Cabling	Zu Mission hookup wire, pure copper
Cabinet	North American MDF skinned with real wood veneer
Spike / Feet Insert Thread	3/8-16 TPI (9/16" hex nut, 14 mm wrench can be used but is tight)
Included With Loudspeaker	hard surface ball end footers installed with S.S. 9/16" jam nuts also included are carpet spikes, owners manual, polish cloth, and copper lug cleaning kit
Manufacturers Country Of Origin	U.S.A. 95%
Life Expectancy	100 years plus, all parts
Warranty & Service	5 years limited, does not cover misuse or abuse Omen is designed to be field serviceable, video and written service manual under production

SPL vs Freq



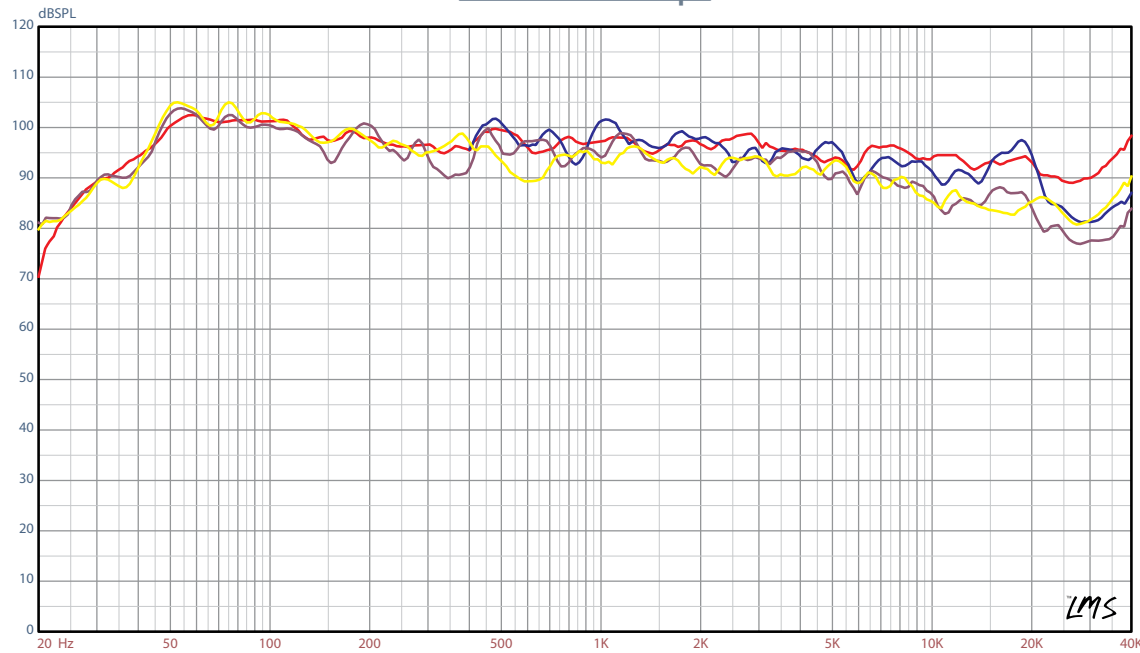
Map: 4: In-room, FRD axis, 1/6 octave

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Notes: DUT: Omen SN: 266
1 Watt / 1 meter | 67 F
Test By: SMC
Ogden, Utah USA

4.5.0.351 Feb/11/2005 Person: Sean Casey Company: Zu Audio Project: Omen File: Amplitude.lib Nov 20, 2010 Sat 1:18 pm **LINEAR X** S Y S T E M S

SPL vs Freq



Map: 4: In-room, FRD axis
2: 4pi tweeter axis
6: in-room -30° V
5: in-room -30° H

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Notes: DUT: Omen SN: 266
1 Watt / 1 meter | 67 F | 1/6 octave
Test By: SMC
Ogden, Utah USA

4.5.0.351 Feb/11/2005 Person: Sean Casey Company: Zu Audio Project: Omen File: Amplitude.lib Nov 20, 2010 Sat 1:17 pm **LINEAR X** S Y S T E M S

Impedance vs Freq



Map: 1: Omen SN:0266
2: 12 Ohm R (test reference)
3: Omen Tweeter + Highpass Assembly

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Notes: DUT: Omen Loudspeaker Assembly SN:0266 (Dual and compare with Apogee/Zu DA live test)
November 2010
By: SMC
Ogden, Utah USA

4.5.0.351 Feb/11/2005 Person: Sean Casey Company: Zu Audio Project: Omen File: Omen-Z.lib Nov 20, 2010 Sat 2:10 pm **LINEAR X** S Y S T E M S