

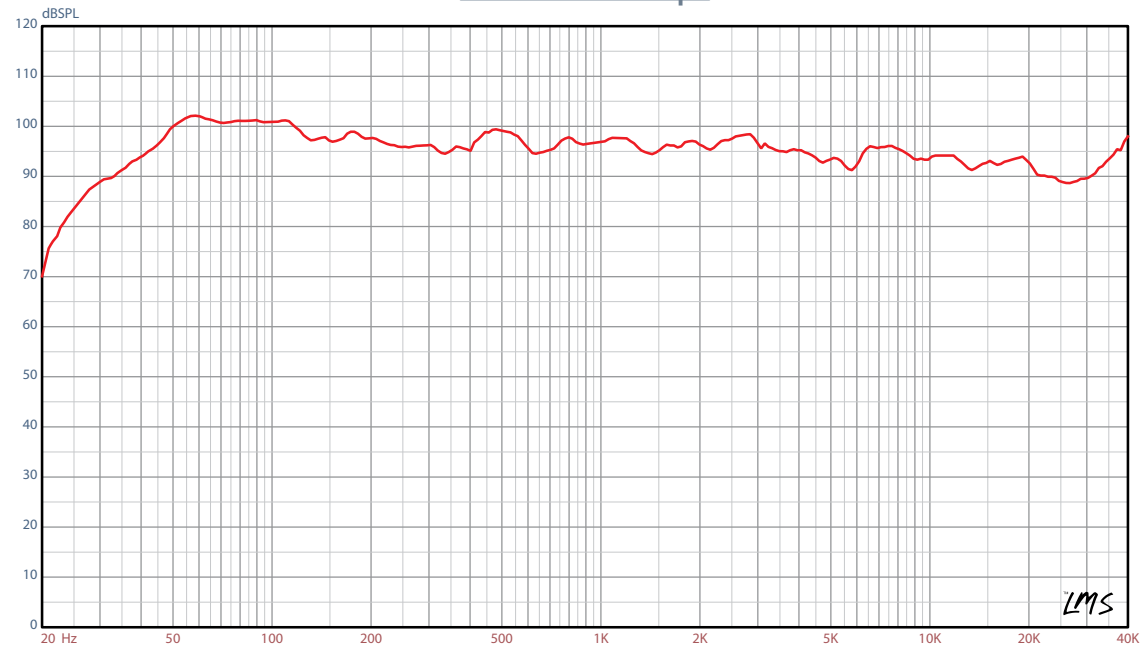


# OMEN Loudspeaker Specifications

NOVEMBER 2010

|  |  |
|--|--|
| <b>Design</b>                          | 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. |
| <b>Version</b>                         | mark-1   |
| <b>Launched</b>                        | September 2010 with production units shipping October 2010   |
| <b>H W D</b>                           | 36" x 12" x 12" (92 x 30.5 x 30.5 cm)  |
| <b>Footprint</b>                       | 12" x 12" (30.5 x 30.5 cm)   |
| <b>Weight</b>                          | 53 pounds (24 kg)  |
| <b>Packaged</b>                        | one loudspeaker per shipping box, 60 pounds (27 kg)  |
| <b>Driver Complement</b>               | Zu260FRD/G4, 10-1/3" full-range driver covering 30 – 12,000 Hz<br>Zu APT-L2 tweeter assembly with stainless screen   |
| <b>Component Tolerance</b>             | better than 1% driver pair matching, 0.1% on all other electrical components   |
| <b>Recommended Connector</b>           | 5-way binding posts accepting:   |
| <b>Accepted Connectors</b>             | 1/4" spade (6.3mm fork)   5/16" spade (8mm fork)   bare wire $\leq$ #4 AWG   banana plugs  |
| <b>Efficiency</b>                      | 98 dB SPL @ 1 Watt, 1 meter  |
| <b>Impedance</b>                       | 12 ohm, nominal full bandwidth (see impedance graph for complete detail)   |
| <b>Average Room / Moderate Volume</b>  | 4 – 12 watt  |
| <b>Large Room / Loud</b>               | 12 – 36 watt   |
| <b>Large Room / Concert Level</b>      | 36 – 108 watt  |
| <b>Max Music Input Power</b>           | 200 watt   |
| <b>Bandwidth</b>                       | 34 – 25,000 Hz   |
| <b>Group Delay</b>                     | < 5 ms   |
| <b>Dynamic Range</b>                   | 119 dB   |
| <b>Horizontal Listening Window</b>     | 40°  |
| <b>Vertical Listening Window</b>       | 40°  |
| <b>Full-range Driver Network</b>       | none   |
| <b>Super-tweeter Network</b>           | 1st order Bessel @ 18 kHz (Erse PusleX condenser), 12 kHz acoustic   |
| <b>Internal Cabling</b>                | Zu Mission hookup wire, pure copper  |
| <b>Cabinet</b>                         | North American MDF skinned with real wood veneer   |
| <b>Spike / Feet Insert Thread</b>      | 3/8-16 TPI (9/16" hex nut, 14 mm wrench can be used but is tight)  |
| <b>Included With Loudspeaker</b>       | hard surface ball end footers installed with S.S. 9/16" jam nuts<br>also included are carpet spikes, owners manual, polish cloth, and copper lug cleaning kit  |
| <b>Manufacturers Country Of Origin</b> | U.S.A. 95%   |
| <b>Life Expectancy</b>                 | 100 years plus, all parts  |
| <b>Warranty &amp; Service</b>          | 5 years limited, does not cover misuse or abuse<br>Omen is designed to be field serviceable, video and written service manual under production   |

### SPL vs Freq



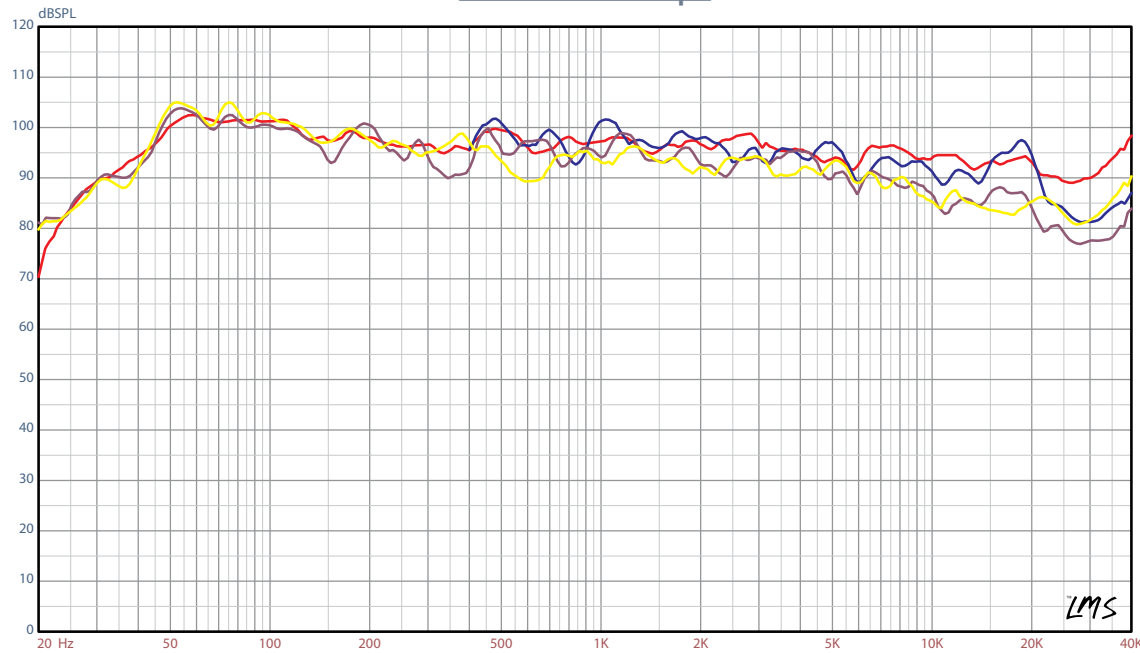
Map: 4: In-room, FRD axis, 1/6 octave

**OMEN**

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



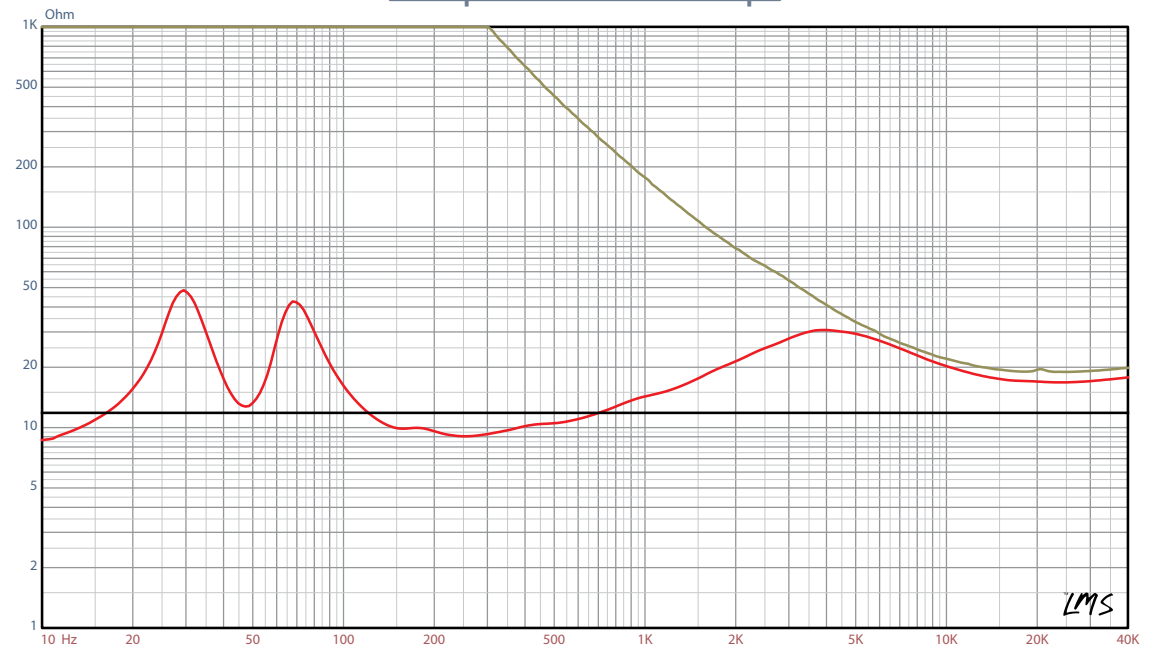
Map: 4: In-room, FRD axis  
2: 4pi tweeter axis  
6: in-room -30° V  
5: in-room -30° H

**OMEN**

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

**OMEN**

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