



## Essence Loudspeaker Specifications

April 2009 (Production Version 1)

### Zu Audio

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**Design** Essence is a high efficiency, high output, direct radiating floor standing loudspeaker. It features a full-range Zu designed and built driver, full implementation of the ZuRG (Griewe) loading with fixed gap height, no crossover or filters on full-range driver, complimented by a high output transformer coupled ribbon tweeter to provide the sparkle and resolution from 10k Hz and up.

**Version** 1.0

**Launched** January 2009, production units began shipping March 2009

**HWD** 49" x 12" x 12" (125 x 30.5 x 30.5 cm)

**Footprint** 12½" x 12½" (32 x 32 cm)

**Weight** 65 pounds (29.5 kgs)

**Packaged** One per shipping box, 73 pounds (33 kgs) 53" x 18" x 16" (135 x 46 x 41 cm)

**Driver Compliment** Zu260FRD/G4, 10-½" full-range driver covering 30 to 10,000 cps (Hz)  
TB-185SS-B ribbon tweeter with final foil adjustment and assembly by Zu

**Component Tolerance** driver >1% pair matching, 0.1% on all other electrical components.

**Recommended Connector** ¼" spade (6.3mm fork)

**Accepted Connectors** Also accepts oversized spades, standard and oversized ring lugs, bare wire, pins, & banana plugs in a pinch.  
Banana plugs are clamped between clamp block and copper lugs and are not socketed

**Efficiency** 97 dB @ 1 Watt, 1 meter

**Impedance** 12 Ω, nominal full bandwidth, 9 Ω minimum

**Average Room / Moderate Volume** 2 - 8 Watt

**Large Room / Loud** 8 - 30 Watt

**Large Room / Concert Level** 30 - 80 Watt

**Max Music Input Power (Full Bandwidth)** 300 Watt

**Max sustained RMS Power (Full Bandwidth)** 200 Watt

**Bandwidth** 30 - 40,000+

**Group Delay** < 5 ms

**Dynamic Range** 120 dB

**Horizontal Acoustic Center** 40" (101 cm)

**Horizontal Listening Window** 45°

**Vertical Listening Window** 40°

**Full-range Driver Network** None

**Super-tweeter Network** high-pass second order Bessel based, 10k mathematical (12k+ acoustic)

**Internal Cabling** Zu Mission, pure copper, approximate conductor area is 13 AWG per charge

**Cabinet** MDF / Baltic birch

**Spike / Feet Insert Thread** ¾ - 16 TPI (¼" hex nut, 14mm wrench can be used but is tight)

**Standard Finishes** Revolving, please contact your local Zu dealer for standard finish options.

**Custom Finishes** ...Limitless... priced quoted per job. Zu uses PPG™ Vibrance™, Spies-Heckler™, DuPont™ Chroma, and House of Kolor™ materials

**Included With Loudspeaker** hard-surface ball-end footers installed with S.S. ¼" jam nuts. Also included are carpet spikes, owners manual, polish cloth, and copper lug cleaning kit.

**Manufacturers Country Of Origin** U.S.A. all parts and labor excluding the TB ribbon tweeter which is a product of Taiwan

**Life Expectancy** Lifetime on cabinet, 40 years plus on Zu260FRD/G4, 15 years on ribbon foil (serviceable)

**Warranty & Service** 5 years limited, does not cover misuse or abuse. Essence is designed to be field serviceable, video and written service manual under production.

