



# DEFINITION MK.III SPECIFICATIONS

## ZU AUDIO DEFINITION Mk.III [REV-A] LOUDSPEAKER SYSTEM SPECIFICATIONS + INFORMATION

<b>Description</b>	High-efficiency, high-output, floor standing loudspeaker featuring Zu's nano-sanctified full-range high output driver, no crossover or filters on full-range driver, complemented by super tweeter. Deep bass is managed through four 10" Eminence BP-102 bass drivers and driven with internal Hypex™ amplification featuring user adjustable filters.
<b>Transformation Service</b>	December 2011~ August 2012
<b>Dimensions H x W x D</b>	49 x 12.8 x 12.5" (124.5 x 32.5 x 31.8cm) // footprint is 12.75" [32.4cm] square
<b>Weight</b>	≈130 pounds [≈59kg] // varies with version of transformation
<b>Packaged</b>	FlexPak foam encapsulated 56 x 21 x 21" [142 x 54 x 54cm] 149 pounds [67kg]
<b>Bandwidth</b>	16~25kHz
<b>Efficiency</b>	101dB SPL @ 1W, 1m
<b>Impedance</b>	8Ω, nominal full bandwidth
<b>Group Delay</b>	< 5ms
<b>Acoustic Center</b>	37" [94cm] adjustable via footers and subtle canting of loudspeaker system
<b>Horizontal Listening Window</b>	45°
<b>Vertical Listening Window</b>	15°
<b>Recommended Listening Distance</b>	8 feet [2.5m] or more
<b>Recommended Connector</b>	ZuB3 via speakON 8-pole [ZuB3 convention single channel] Zu cable featuring ZuB3 cable technology recommended
<b>Accepted Connectors Via Adapter</b>	1/4" fork spade [6.3mm], oversized 5/16" [8mm] fork spade, bare wire (banana plugs in a pinch)
<b>Internal Cabling</b>	ZuEventB3/Def3-A
<b>Conventional Solid-State Or Tube Amp</b>	1~4 watt (average room, moderate volume)
<b>Power Recommendations</b>	4~16 watt (large room, loud listening) 16~64 watt (large room, concert levels) 500 watt (maximum input power)
<b>Amplification Considerations</b>	Definition Mk.III is designed around conventional or parallel mode amps, bridged amplifiers are not recommended (black speaker negative leg [sp-] of bridged amps will see the virtual ground node of the internal bass amp)
<b>Component Tolerance</b>	drivers 0.05% pair matching, 0.01% on electrical components
<b>Tweeter Detail</b>	Zu / Eminence APT tweeter // bandwidth: 10k~20kHz
<b>High-Pass Detail</b>	1st order 2x Mundorf Silver/Oil 1uF each, 2uF total
<b>Full-range Driver Array Detail</b>	2x Zu103/ND/G1-16 nanotech full-range driver // bandwidth: 30~12kHz (direct and unfiltered)
<b>Subwoofer System Detail</b>	4x Eminence BP-102 woofers, sealed // bandwidth: 16~90Hz (user adjustable, actively filtered)
<b>Subwoofer Amp Type</b>	internal Hypex UcD 400-V5 based, high energy toroidal transformer
<b>Subwoofer Amp Input Power</b>	115V (8A max) or 230V (4A max), 50/60Hz (transformer voltage rewire possible, inside case work) 8 watts @ idle
<b>Subwoofer Amp Chassis</b>	machined aluminum case work, rack style fitment allowing in the field service / replacement
<b>Subwoofer Amp User Adjustments</b>	Volume // Low-pass Filter Knee // Parametric EQ Gain // Parametric EQ Frequency // Phase
<b>Cabinet</b>	MDF or SuperPly
<b>Spike / Feet Insert Thread</b>	3/8-16 TPI, 9/16" hex nut, 14mm wrench can be used
<b>Included With Loudspeaker</b>	4x hard press-on full-range driver covers, installed 8x hard surface stainless ball-end feet / 8x stainless 9/16" [14mm] jam nuts, installed 8x long carpet spikes, 1x connector cleaning kit, 1x finish cleaning cloth, 1x owners manual
<b>Loudspeaker Options</b>	ZuB3 via speakON 8-pole to Cardas patented binding posts, allowing any cable to be used, grille, custom finish work
<b>Life Expectancy</b>	100 years; cabinet, and drivers, including the Zu 10" drivers; even in direct sunlight
<b>Manufacturers Country Of Origin</b>	U.S.A. all parts and labor excluding a few components. Hypex amp modules are made in the Netherlands
<b>Compliances of Directives</b>	60065   EMC 2004/108/EC   2006/95/EC   55103   RoHS   CE   WEEE   Class-2 subwoofer amplifier
<b>Warranty &amp; Service</b>	2 years limited—warranty does not cover misuse, abuse, components upstream from the loudspeaker system, modifications or non-factory service.



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<b>Subwoofer Amplifier</b>	Definition Mk.III features a built-in subwoofer audio amplifier. It is a no compromise, state-of-the-art actively filtered subwoofer amplifier that is integrated into the Definition Mk.III loudspeaker cabinet, visible on the rear of the loudspeaker.
<b>Subwoofer Amp Type</b>	Class D analog switching amp with heavy-duty traditional power supply. Amplifier module is Hypex DS4 UcD 400-V5.
<b>WARNINGS</b>	<b>RISK OF ELECTRIC SHOCK—THERE ARE NO USER SERVICEABLE OR ADJUSTABLE COMPONENTS INSIDE.</b> Dangerous voltages are present inside case during operation. DC output voltage is 50 volts up and down, 100V DC total. Also know that the case is sealed and requires technical knowledge to open and should only be serviced by a qualified technician. System is not intended for outdoor use, do not expose to rain or moisture.
<b>RECOMMENDATIONS</b>	We recommended unplugging your loudspeakers, main amplifier(s) and other regarded electronics during lightning storms or when the playback system will not be used or for an extended period of time.
<b>Safety Classification</b>	Class-2, transformer is also a class-2 double wound isolation toroidal transformer that is switched and fused.
<b>Safety Standards &amp; Compliance</b>	60065   EMC 2004/108/EC   2006/95/EC   55103   RoHS   CE   WEEE   Class-2 subwoofer amplifier
<b>Mains AC Power</b>	50/60Hz, 115 or 230 volt (transformer is 115/230V wound and factory wired for your region).
<b>Mains AC Connection</b>	C13/C14
<b>User Serviceable Fuse</b>	115V AC mains = 8A   230V AC mains = 4A  Should the fuse blow replace it with an equivalent part. A spare fuse is located within the fuse holder, located just below the power inlet and only accessible when the power cable is not plugged into the inlet. A small flat blade screwdriver is required.
<b>Power Consumption</b>	600 watt maximum // 8 watt idle
<b>Damping Factor</b>	500
<b>Self Protection</b>	output short-circuit
<b>Input Impedance</b>	500Ω
<b>Speaker Level</b>	
<b>Infrasonic Filter</b>	12Hz // 24dB/octave butterworth
<b>Adjustable Gain</b>	-110dB~0dB
<b>Adjustable High-Pass Filter</b>	20~120Hz
<b>High-Pass Filter Slope &amp; Character</b>	18dB/octave linkwitz-riley
<b>PEQ Boost</b>	0~+6dB
<b>PEQ Boost Bandwidth</b>	1/2 octave
<b>PEQ Frequency</b>	20~50Hz
<b>Phase</b>	0~180° // 180°~360°
<b>NO BRIDGED MAIN AMPLIFIERS</b>	Definition Mk.III presents a virtual ground node to the external main amplifiers' speaker negative (SP-) output. Bridged amplifiers will see this as a short and self protect. Do not use bridged amps to drive Definition Mk.III loudspeakers. Standard amp types will see an easy 8 ohm load. If main amp does not say BRIDGED there's nothing to worry about.
<b>Warranty &amp; Service</b>	2-year limited. Zu recommends factory service. Removing the amplifier from loudspeaker is simple and will not expose the user to danger. Loudspeaker may still be operated without amplifier installed, and with satisfactory results. Though Zu and Hypex have designed the electronics to the highest standards of fidelity and durability, shit still happens. In the event that service is required, Zu offers an amplifier exchange program so you can quickly get your system back up and running quickly and with minimal hassle.