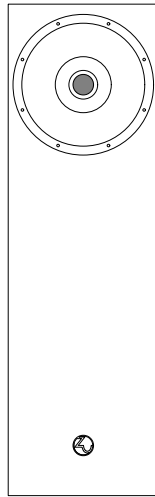


# UNION

Mk.I [Rev-A]



AD COPY + SPECIFICATIONS

8 | 2013



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## ZU AUDIO UNION Mk.I [REV-A] LOUDSPEAKER SYSTEM INFORMATION

Union vs. Omen. Nearly everyone loves our entry-level Omen speaker, hi-fi freaks, music junkies and the girl next door all saying stuff like “I can’t believe how good they sound”. While Omen is easy, and makes great sound with almost any amp and in most any room it doesn’t usually get invited to an A-list hi-fi party. Union on the other hand, with the right amp, is totally A-list material, complete with world-class resolution, dynamic expression, tone density and that fantastic co-ax image and tone stability. But with the wrong amp or glassy sounding room Union can be cold hearted and ruthless. And yeah, it is limited in its deep bass abilities so those into deep bass weighted music will want to match Union with our Undertone subwoofer.

Union, while similar in size to Omen, is all new. And Union’s super-duper high-performance 10” [26cm] Zu coaxial driver with it’s paper-cored nanotech cone—it’s Zappa good. Seriously, this is a whole new game in affordable state-of-the-art hi-fi performance. In a good room with good gear you will be shocked at what this sensibly priced loudspeaker will do with your music.

### ZU NANOTECH HIGH-OUTPUT CROSSOVER-LESS CO-AX

The heart and soul of any great loudspeaker system is always the driver(s). And with Union we’ve gone all out. Union introduces our new, to the max, co-ax driver—running full-range and totally filterless from bass through treble (12kHz). No coils, no nothin’, just an intimate connection of your amp to the driver. It shares much of the same engineering as our recently released high-output nanotech ten-inch full-ranger (developed for and first used on our flagship Dominance loudspeaker). The paper-cored nanotech cone yields a very well damped and extremely quick cone propagation velocity. This translates into a very tone dense and resolving sound that is highly expressive of timbre and dynamic nuance. We also developed a massive and powerful motor complete with magnetically under-hung voice coil assembly to realize the full shove potential of all that high-strength magnetic sweetness. Getting all this high-output torque and horsepower transmitted into the cone has demanded a heavy cast aluminum basket, high damping surround and spider, a Mylar/ridged-paper former and high-tensile adhesives to tightly interface the nanotech cones.

### ZU-GRIEWE ACOUSTIC TECHNOLOGY

The result of all this driver engineering is an expressive and dynamic full-range co-ax driver, where the tweeter section is not called on or needed until the upper most treble range (12kHz and up), and as this co-ax was designed to work within our ZuGriewe box/acoustic loading technology, you get a loudspeaker that is lightning-quick yet still lays down loads of tone density. The system is consistent and linear in its resolution and dynamic behavior—from bass through treble. ZuGriewe delivers increased efficiency in the bass range and reduces noise and distortion, a design that outperforms anything the best bass-reflex or acoustic suspension models can give. Our technology reduces internal acoustic noise from within the cabinet and couples more tightly the high acoustic impedance of the driver cone to the low acoustic impedance of the room. So you get improved bass drum thwack, techno beat hit, thunder-broom shove, snare pop, guitar tone, fiddle bite and burnish... and all able to scale and span even the most demanding and complex recordings (particularly when matched with a great subwoofer like our Undertone). And yeah, voice always sounds human, real and present.



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## CABINET-WORK AND MATERIALS PALLET

Union is made from North American high density composite wood plate, machined on state-of-the-art CNC mills. Union uses real wood veneer layed-up and pressed at the plywood factory and not glued after assembly. This ensures your finish will not lift or warp, and it yields the flattest surfaces and tightest seams. For glue, it's Titebond III, for the highest joint strength and a lifetime of unflinching, moisture-proof service.

## OTHER DETAILS

Union's hook-up wires are x-linked PE / low strand count pure copper conductors, terminated with Panduit disconnects that are high-pressure crimped in made-to-spec Panduit dies for the best sound and longest life. Binding posts are machined from a single piece of bar stock and the male disconnect tab is machined right into it. The tweeter's high-pass is, by design, a simple, single component network, a single polypropylene capacitor. The coaxially mounted tweeter is substantial, and borrows some of the tricks developed by Radian, namely a PET damped aluminum alloy 1.7" dome and former.

## TIPS ON GETTING GREAT SOUND FROM UNION

Union loudspeakers get 600 hours of high-intensity factory burn-in to ensuring they will sound great within just a few days of play. Nevertheless, if they are transported in cold weather, they take several days to "warm up" and return to giving you their best.

Make sure you have 1/4" [6mm] or so gap between the bottom of the loudspeakers and the floor. The finger ports are part of the ZuGriewe box loading technology. They are not ports as used in a bass-reflex design (Helmholtz resonators in all their forms) but the finger ports do need to see the acoustic space of the room. Blocking them turns Union into an interesting but "sealed" design.

In addition the installed ball-end footers (for use with hard surface flooring) Union also ship with spikes to be used to punch through and anchor the speaker through carpets and rugs.

Thanks for your interest, and please don't hesitate to call or email, we love what we do and we are here to help.



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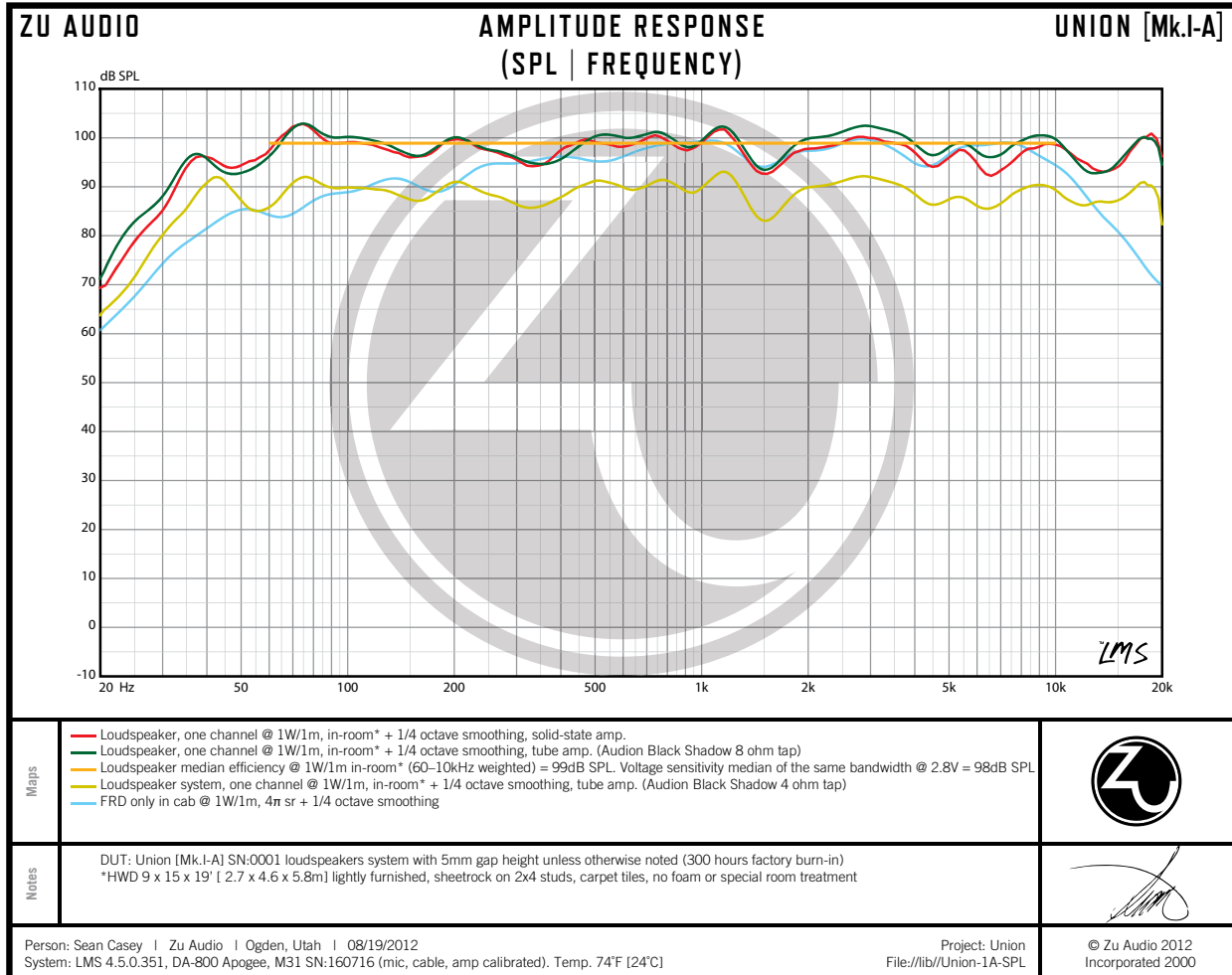
## ZU AUDIO UNION Mk.I [REV-A] LOUDSPEAKER SYSTEM INFORMATION

<b>Design</b>	Union is a high efficiency, high output, moderate impedance, direct radiating coaxial floor-standing loudspeaker. Union features a co-ax version of our new full-range high-output nanotech full-range driver. Union also uses our Zu-Griewe driver/box/room acoustic loading technology, runs with crossover or filters on the full-range driver, complimented by a coaxially mounted dynamic tweeter providing the acoustic sparkle and resolution from 12kHz and up.
<b>Production</b>	September 2012 – August 2013
<b>H W D</b>	36 x 11 x 11" [92 x 28 x 28cm]
<b>Weight</b>	46 pounds [21kg] each
<b>Packaged</b>	FlexPak foam encapsulated, 54 pounds [25kg] each 44 x 16 x 16" [112 x 41 x 41cm]
<b>Driver Complement</b>	ZuCX/ND-8, 10-1/3" full-range nanotech driver covering 45 – 12kHz with ASD:1001 tweeter assembly taking care of the high treble overtones.
<b>Component Tolerance</b>	better than 0.5% driver pair matching, 0.1% on all other electrical components
<b>5-Way Binding Posts (CE compliant)</b>	accepting: 1/4" spade [6.3mm fork], 5/16" spade [8mm fork], bare wire $\leq$ #4 AWG, banana plugs
<b>Efficiency</b>	99 dB-SPL 1W, 1m
<b>Impedance</b>	8 ohm, nominal full bandwidth (5.5 ohm minimum at 300Hz)
<b>Average Room / Moderate Volume</b>	2 – 4 watt
<b>Large Room / Loud</b>	4 – 16 watt
<b>Large Room / Concert Level</b>	16 – 50 watt
<b>Max Music Input Power</b>	200 watt
<b>Max sustained RMS Power</b>	150 watt
<b>Bandwidth</b>	45 – 22kHz
<b>Group Delay</b>	< 5ms
<b>Horizontal Acoustic Center</b>	31" [78cm] (loudspeaker maybe canted back to raise the listening elevation, it's a co-ax, so it's subtle).
<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 @ 12kHz (acoustic)
<b>Internal Cabling</b>	Zu Mission hookup wire, pure copper
<b>Cabinet</b>	North American made high-density Comp-60 composite, skinned with real wood veneer
<b>Spike / Feet Insert Thread</b>	3/8–16 TPI (9/16" hex nut, 14mm 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, also included are carpet spikes
<b>Manufacturers Country Of Origin</b>	U.S.A. [99%]
<b>Life Expectancy</b>	100 years plus, all parts
<b>Compliance</b>	CE   RoHS   WEEE
<b>Warranty &amp; Service</b>	5 years limited on cabinet and drivers—warranty does not cover misuse, abuse, components upstream from the loudspeaker system, modifications or non-factory service.



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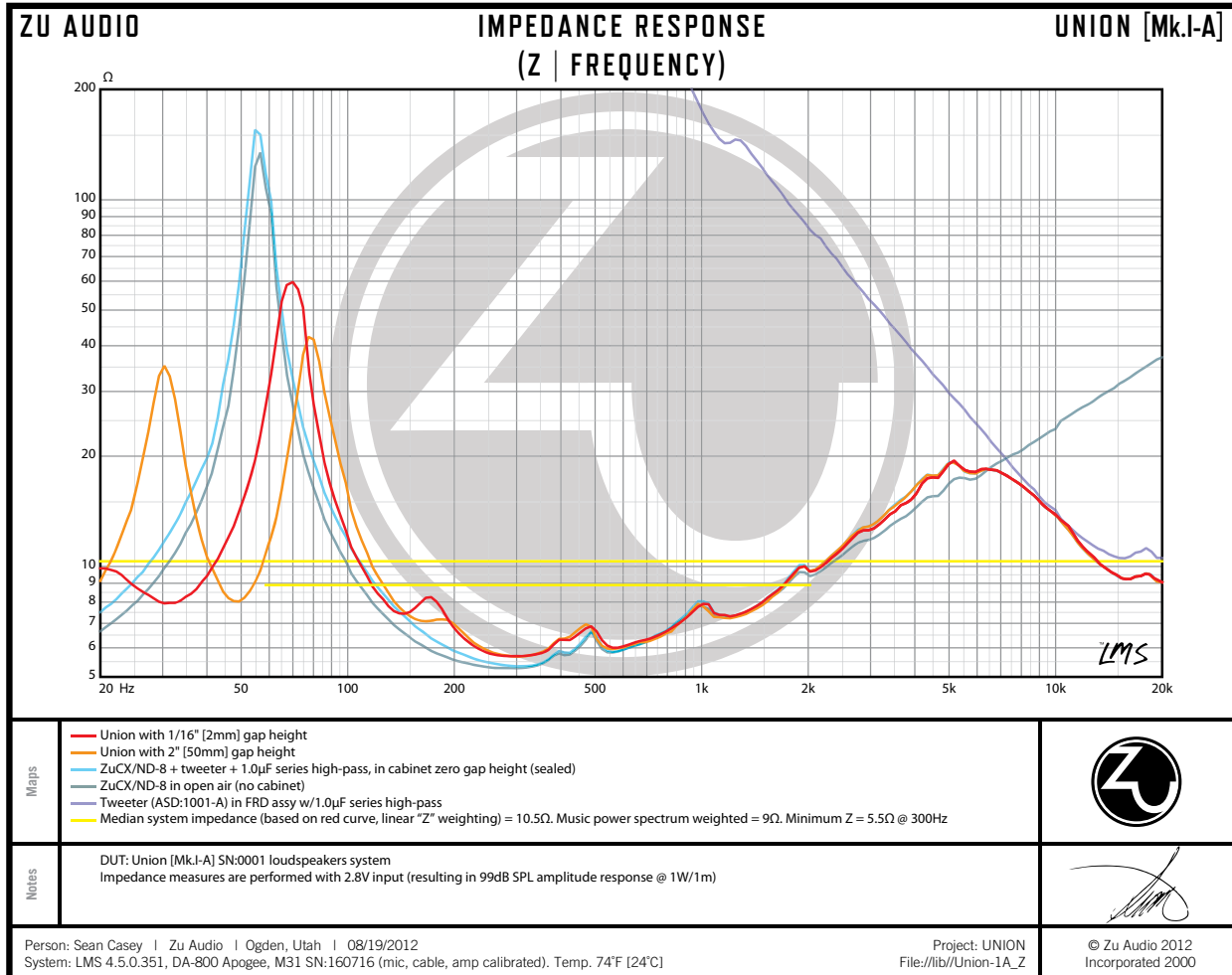
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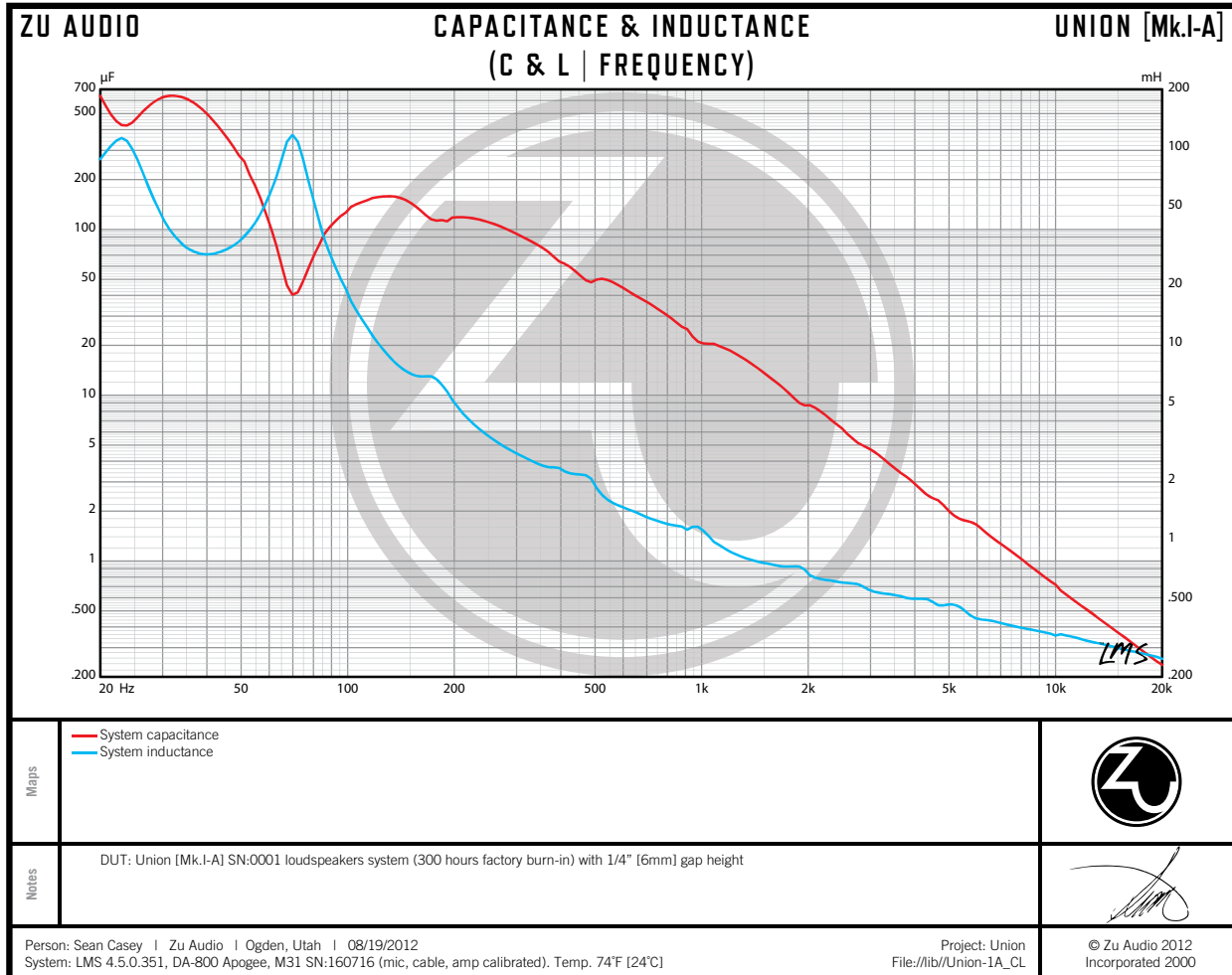
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## WARRANTY

Zu products are designed and manufactured to the highest quality. However, if something does go wrong Zu will fix or replace the product free of charge. Zu Union loudspeakers have a five year limited warranty from date of purchase to original owner. If under normal home use you have any problems with drivers, cable, parts, cabinet, we will fix or replace the product. Loudspeaker warranty and service can usually be performed by the user, also known as DIY service, in such cases Zu will provide full technical support. This provides faster repair of product (reducing down time is always good), minimizes handling hassle and damage potential to both Zu and you, and reduces shipping costs.

Zu loudspeaker finish warranty covers color changes in paint, finish checking, and oxidizing. While we use the highest quality UV protecting topcoat finishes, we cannot guaranteed against fading and you should keep them out of direct sunlight, just like a piano. While every effort is made to ensure a perfect finish that will last a lifetime, this warranty does not cover damage from impact and abrasion, or seam / core construction visibilities in extreme high temperature / high humidity environments. Zu products are designed to be used in temperature and humidity controlled environments, namely your home or office unless otherwise stated. Warranty does not cover loudspeaker finish damage caused by the extremes of an uncontrolled environment.

If in the highly unlikely event that a Zu product arrives to you dead on arrival (D.O.A.), and after discussing it with a Zu tech, we will ship another of the same product at our expense and arrange for the D.O.A. product to be collected. If after inspection we find that you have misrepresented a returned product's condition, and that it was improperly handled or used, Zu will charge you for all damaged parts, labor, shipping and handling of the product.

Warranty does not apply to damage caused by operating the product outside the intended use, accident, another product, misuse, abuse, flood, fire, earthquake or any other external causes. Warranty does not cover damage caused by modification or service performed by anyone other than a Zu representative. Cosmetic damage is also excluded from warranty, as is all product that has any part of the Zu serial number removed.

When a product or part is exchanged the replacement becomes your property and the suspect or damaged part becomes Zu's property. Parts provided by Zu must be used in products for which the warranty service is claimed.

## WHAT YOU CAN EXPECT IF WARRANTY SERVICE IS NEEDED

If warranty becomes necessary, you must call or email for a return of material authorization (R.M.A.) number, or to arrange for user serviceable parts. This provides opportunity to assist in diagnosing the problem and helps us to schedule for rapid turnaround in the event that parts, service or repair is needed. Upon factory inspection of parts or product, warranty eligibility will be determined. While service options, parts availability and response times will vary, we do our best to keep you happy. International customers should know that Zu will comply with all applicable export / import laws and regulations, you may be responsible for custom duties, taxes, broker fees, freight, and other charges. When shipping of product or part is required, repackage the complete product, or part, in its original packaging. If you have any questions about packaging please call or email. Product damage caused from incorrect repackaging is not eligible for refund or warranty and the freight company may also reject your insurance claim. Until we have the product back in the shop and sign-off that it is eligible, the product is still your property, we recommend you insure or declare the full value when shipping. We also recommend that you only ship with a freight company that has a good reputation and offers tracking and insurance for the full amount.





**ZU AUDIO**

Ogden Commercial Industrial Park  
3350 S. 1500 W.  
OGDEN, UTAH — U.S.A.

[DESIGNED AND MADE BY US]