

Big, Bold Sound for Bands and DJs

Do you want your top-40 band to rock the house and get your audiences going? Or are you a DJ whose mission is to get the party pumping? L.U.C.A.S ALPHA offers you the headroom you need to do both. Its speakers and pressure chamber drivers are high-performance components that have proven their merits for years in some of the most successful touring- and rental PAs. The subwoofer weighs in with 1,200 watts, and the two satellites factor 400 watts each into the sonic equation. With the power amps delivering a whopping 2,000 watts performance, this rig wields the sonic clout it takes to pump out massive low end and throw midrange and high frequencies great distances at sound pressure levels over 130 dB!



Technical Specifications





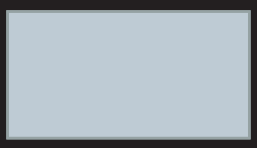
L.U.C.A.S ALPHA Satellite

Nominal power handling:	400 W RMS
Frequency response +/- 3 dB:	85 Hz – 19 kHz
Axial sensitivity 1W@1m:*	105 dB
Max. SPL @1m:*	129 dB@10% (half space)
Nominal impedance:	8 ohms
Connectors:	1x Speakon NL 4
Midrange woofer:	1x 12" Neodymium
Driver:	1.4"
Directivity:	60° x 40° BEM CD horn
Crossover frequency:	1.2 kHz, 12 dB/oct.
Pole mount:	DuoTilt™ 3°, 7°, 36 mm
Dimensions (WxHxD):	40 cm x 54.5 cm x 37 cm 15-3/4" x 21-1/2" x 14-1/2"
Weight:	19 kg/ 41 lbs.
Driver protection:	Dynamic protective circuit

L.U.C.A.S ALPHA Subwoofer

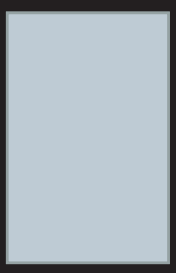
Frequency response +/-3 dB:***	37 Hz – 150 Hz
Axial sensitivity 1W@1m:*	100 dB
Max. SPL 1W/ 1m:	130 dB@10% THD (halfspace)
Amplifier:	
Power output, subwoofer:	1x 1200 W / Class D power amp
Power output, satellites:	2x 400 W / Class D power amp
Active protection circuits:	DDO™ controlled Multi-band Limiter
DDO™ Digital Controller:	
Sampling frequency:	24 bit/ 48 kHz
Internal signal processing:	56 bit
Connectors:	2x XLR In combination ports 2x XLR Through ports 1x XLR External Subwoofer Out 2x Speakon Satellite Outs
Loudspeaker:	1x 18" woofer
Dimensions w/o casters (WxHxD):	53 cm x 63.5 cm x 68.5 cm 20-7/8" x 25" x 27"
Weight:	58 kg / 127.6 lbs.

Speaker Stand Add-On



The perfect accessory kit for satellite and fullrange speakers, the Speaker Stand Add-On Package comprises two aluminum tripods and two seven-meter cords for Speakon connectors. A handy nylon tote bag rounds out the set.

L.U.C.A.S ALPHA Protection Covers



Tailored protection for your L.U.C.A.S ALPHA: Made of water-repellant, extremely tear-resistant nylon, these thickly padded covers afford the L.U.C.A.S ALPHA system excellent protection during transport to and from gigs.

With slots providing ready access to the grips of subwoofers and mid-/ high-range cabinets, the enclosures may be carried with the covers on. Zip-fasteners fully seal the mid-/high-range unit cover.

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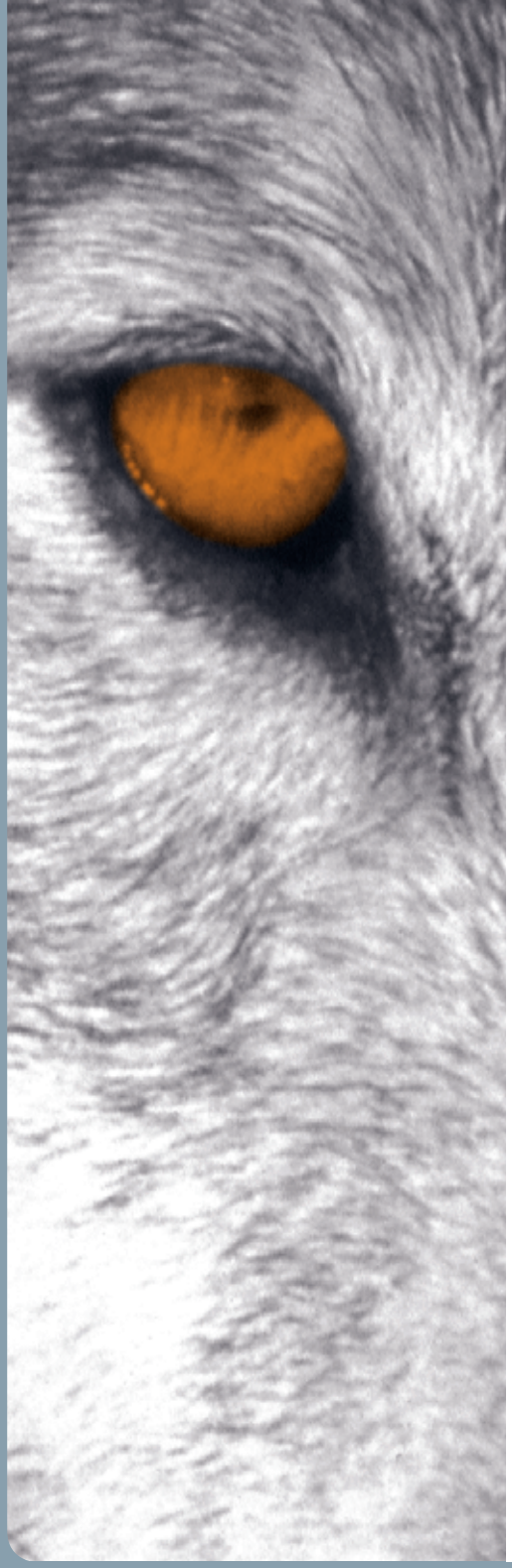
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HK AUDIO Portable Sound



L.U.C.A.S αlpha

The World's Most Compact High-end PA



HK AUDIO blazed the trail into uncharted sonic territory with the L.U.C.A.S line. And now L.U.C.A.S ALPHA is here, combining the phenomenal handling ease of L.U.C.A.S with a big rig's bold performance. This unprecedented combo makes this state-of-the-art system the first-choice solution for quality-minded bands and DJs wishing to pack a powerful punch.

Plug'n'Play

L.U.C.A.S ALPHA helps you get the sound you're seeking. Offering the decisive advantage of a self-contained system with all components such as controllers, crossovers, power amps, and speakers on board, it puts great sound within fast, easy reach. The all-in-one design enabled our engineers to tweak levels, tone, and response to fine-tune the entire system rather than individual components. This saves you time and spares your nerves before every gig. Simply plug in, play, and enjoy stunning sound!

The digital controller is the brain behind this mighty rig's brawn. It compensates for inaccuracies in speakers' dynamic response, inaudibly and within fractions of a second, delivering an expansive yet precise sonic image that remains uniformly excellent at every volume level. At the touch of a button, two controller presets, LIVE and CD, adapt L.U.C.A.S ALPHA to suit the given sound

L.U.C.A.S αlpha

The World's Most Compact High-end PA

L.U.C.A.S ALPHA Satellite

– Precision and Range

Loaded with a 12" neodymium speaker and a powerful 1.4" compression driver pushing a 60° x 40° BEM CD horn, this high-performance mid-/high-range unit asserts itself even in big rooms. And it sports a HK Audio DuoTilt™ 3 /7 pole mount that lets you align the cabinet perfectly to your audiences.

L.U.C.A.S ALPHA Subwoofer

– The Smart „Hertz“ Pacemaker

Equipped with an 18" neodymium subwoofer driven by a 1.200 W digital power amp, this powerhouse bass bin packs a big, bad bottom-end punch. The subwoofer's housing holds all the electronic circuitry, including the digital power amps for the two 400 W mid-/ high-range cabinets and the DDO™ controller. And it comes factory-equipped with rugged 100-mm casters for easy transport.







DDO™ Controlling

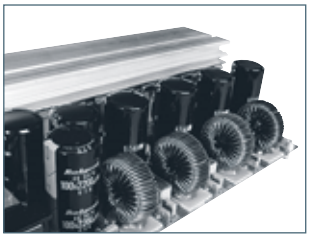
– Active Compensation for Dynamic Distortion

Every speaker has a specific tonal character. Like an instrument, a speaker's timbre changes as volume levels vary, and it produces distortion, partial oscillations and resonances. In a nutshell, its response is constantly changing. A system comprising several speakers multiplies these undesirable effects. This is where the patent-applied-for DDO™ (Digital Dynamics Optimization) technology comes into play. Leveraging many years experience with the celebrated HK Audio Digital Field Controller (DFC), our engineers developed a remarkably powerful controller that for the first time is able to compensate for this dynamic distortion. The result is awesomely assertive and authentic sound that is stable and easily controlled from a whisper to a roar. This DDO™ Controller also offers various presets, making it even easier to adapt the rig to different applications and configurations.

Digital Amping

– Enhanced Efficiency and Dynamics

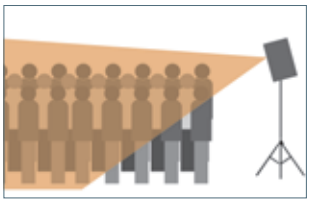
With an efficiency rating topping the 90% mark, HK Audio Class-D digital power amps are far smaller, lighter, and more compact than conventional amps. The reduced thermal load on components clearly increases reliability. The slew rate is much faster and the attenuation factor much higher, resulting in markedly more responsive and accurate performance.



DuoTilt™ 3/7

– Making the Most of Sonic Energy

The newly developed DuoTilt™ 3/7 pole mount allows sound energy to be utilized far more efficiently. DuoTilt™ offers two different angles (3° and 7°) of tilt to better align mid-/high-range cabinets to the audience. Troublesome ceiling reflections are defeated; the soundscape is clearer, tighter, and more focused.



External Sub Out

– Extra Bass Headroom for Every Contingency

This output socket feeds the DDO™-controlled bass signal to another active subwoofer.



Rear panel control features:

Limiter LEDs. Much like rev counters, these LEDs show the active system's operating status.

Gain. This knob adjusts input levels (volume control).

Balance. Twist the Balance knob to the left or right to adjust the relative balance of levels between the left and right channels.

Select. This button selects the two system configurations.

Ground- Lift. This button serves to quickly eliminate ground hum.

Select. This button switches between the two system presets CD and LIVE.

