



Portable Sound



The L.U.C.A.S.[®] Family

Entertaining the World!





The L.U.C.A.S® Family

The Sound of HK Audio.

In 1979 when we launched HK AUDIO® and began building speaker cabinets, we made it our mission to build better-sounding, more practical systems. In pursuit of this goal, our enterprise grew to become an innovation leader; a standard-setter at the vanguard of the pro audio industry. Today our developer team is made up of many specialists. Engineers specializing in acoustics, analog and digital electronics, and physics work hand in hand, collaborating with a musicologist who tweaks the sound of every HK AUDIO® product to suit human auditory physiology.

A world-class ultra-modern acoustics lab serves as the perfect proving ground for these developers. It enables our engineers to document and analyze the audio properties and dynamics of a speaker system in exhaustive detail to ultimately advance the state of the art.

Every day in our sonic foundry is a day spent with a singular goal in mind – to forge extraordinary sound reinforcement tools!

Active Systems Technology™

HK AUDIO® systems are all-in-one sound reinforcement solutions comprising subwoofers, mid/high-range enclosures, and integrated electronics. Every system was developed from the bottom up for a specific application and perfected for that purpose. All aspects of system design are important, but none as crucial as selecting and matching components. Conjuring sonic magic requires components that do more than merely work together – they must act in concert, harmonizing to create systems far greater than the sum of their parts. These are tall orders. To fill them, HK AUDIO® engineers developed many new features and technologies, and matched and fine-tuned them to suit each system. By gearing every system to satisfy the requirements of specific sonic scenarios, we ensure that all systems deliver the best possible results for their intended purposes.

The L.U.C.A.S® Family – Systems for Entertainers

Being an entertainer or mobile DJ has never been as demanding as it is today. Compelled to constantly scout out the latest trends, extend your repertoire, hone your abilities, and keep up to speed with hip equipment, you face daunting challenges. Perhaps the greatest test of your mettle is to provide entertainment that suits the most diverse audiences.

Every gig is different – today a wedding, tomorrow a birthday soirée, a company's anniversary, or a party to the break of dawn. Your trump cards are versatility and adaptability, and you need a sound system that is as flexible as you are.

Today's entertainers need PA systems that are easy to move and operate. Time is money, and the pay covers the gig, not time spent setting up and sound-checking. Beyond that, you want a system that sounds great at low volumes and moves some earth when it comes time to rock the house. Conventional speakers, often very unwieldy, are generally designed for a specific application.

Some enclosures deliver respectable sound at moderate levels. As the volume goes up, the bin starts braying and audio quality deteriorates. Other speakers sound thin and feeble at low levels. HK AUDIO® L.U.C.A.S systems are a breed apart. A new generation of active systems, they were developed specifically to wed flexibility and ease of use to pristine sound. Assertive, bold and balanced sound is now effortlessly available at every volume level. And that is certainly cause for celebration.

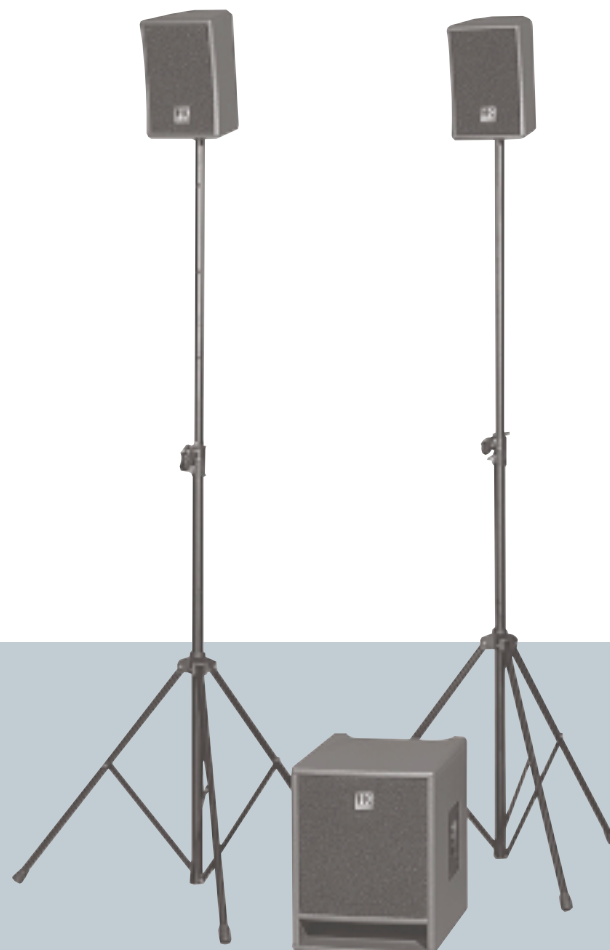


Mammoth sound in a pint-sized package

You want an inconspicuous, easy-to-tote system that leaves a small footprint, yet delivers crisp, punchy and balanced sound? Then meet L.U.C.A.S XT, the world's smallest active rig for real-world applications.

Ultra-compact dimensions, superior sound quality and numerous practical features make L.U.C.A.S XT the ideal system for entertainers who want to travel light and treat their audiences to great sound.

With rich appointments such as separate Mic, Line, and Aux channels, L.U.C.A.S XT is versatile enough to get the job done for many applications without requiring an outboard mixer. And this also makes it the first-choice sound system for presentations and basic installations.



Facts & Features

- The right solution for all entertainers seeking an extremely compact system with well-balanced, solid sound
- Ideal for multimedia presentations and fast, easy installations
- Independently variable XLR Microphone, Line and Aux inputs
- 2-way active circuitry with OFR™ technology
- 250 W RMS digital power amp drives the 10" subwoofer
- 2x 60 W RMS stereo power amp drives satellites loaded with a 6.5" woofer and 1" dome tweeter
- Multi-Band Limiting technology
- HK AUDIO MicroTilt™ for accurate speaker-to-audience alignment
- Total system weight: 30 kg/ 66 lbs

For technical data, please refer to the last page.

Available accessories:

L.U.C.A.S XT Add-On Package,
comprising two XT tripods, two 7-metre speaker cables, incl. gig bag

L.U.C.A.S XT Roller Bag
Two-piece padded cart for fast, reliable transport



L.U.C.A.S XT Wall Mount
For installing L.U.C.A.S XT cabinets; with integrated ball joint for precise alignment.

The Smart Entertainer

L.U.C.A.S® 600 is the latest in a line of legendary L.U.C.A.S® systems. It sports a 12" woofer that packs an even mightier punch in a far more compact enclosure. The satellites, each loaded with an 8" speaker and 1" driver, deliver finely contoured and natural-sounding midrange and high-frequency response. The MonoTilt™ pole mount affords the best possible cabinet-to-audience alignment. L.U.C.A.S® 600 offers new features – a dedicated Bass knob and limiter LEDs – for enhanced control. Boasting output power of 600 watts RMS, L.U.C.A.S® 600 is the right choice for all entertainers, DJs and small bands performing at events with audiences ranging up to 150 people.



Facts & Features

- Ideal for sound-savvy solo entertainers, small bands and mobile DJs
- 12" subwoofer, factory-equipped with casters for effortless load-in and tear-down
- Two satellites sporting an 8" speaker and a 1" CD horn each
- 2-way active circuitry featuring OFR™ technology
- 300 W RMS power amp drives the 12" subwoofer
- Two 150 W RMS power amps drive the satellites

- HK AUDIO MonoTilt™ for optimum sound-to-audience alignment
- Total system weight: 43.3 kg / 95 lbs

For technical data, please refer to the last page.

Available accessories:



Speaker Add-On Package
comprising two black aluminum tripods, two 7-metre speaker cables, gig bag

L.U.C.A.S 600 Protective Cover Set
Three padded covers for the sub bin and the two satellites

The Power-Pack for the Ambitious Entertainer

A high-performance system in classic L.U.C.A.S format, its 15" subwoofers featuring 600-watt RMS power amps pump out a big, bold bass foundation. The satellites' 8" high-performance speaker and 1" driver deliver expansive, warm midrange and crystal-clear high-end with maximum speech intelligibility and articulation for a true and richly detailed stereo image. L.U.C.A.S 1000 is the consummate solution for all musicians and DJs who attach great value to having plenty of headroom to deliver the goods at larger events.



Facts & Features

- Ideal for solo entertainers, mobile DJs, and acoustic acts requiring more power and greater headroom
- 15" subwoofer, factory-equipped with casters
- Two satellites, each loaded with an 8" speaker and a 1" CD horn
- 2-way active circuitry featuring OFR™ technology
- 600 W RMS bass power amp featuring DynaClip™ Limiter

- 2x 150 W RMS stereo power amp with Opto-Limiter for the satellites
- System weight: 61 kg / 135.3 lbs

For technical data, please refer to the last page.

Available accessories:

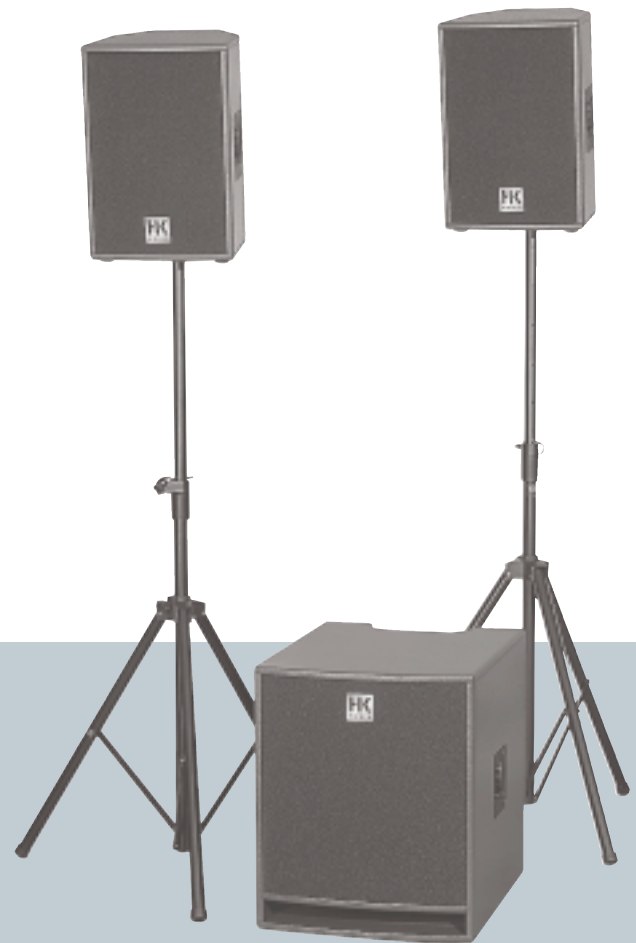
Speaker Add-On Package
comprising two black aluminum tripods, two 7-metre speaker cables, gig bag

L.U.C.A.S 1000 Protective Cover Set
Three padded covers for the Sub bin and two Satellites



A Powerhouse in a Petite Package

L.U.C.A.S 2000 pushes the envelope in sound reinforcement. Witness the new L.U.C.A.S 2000: The next generation in compact, easy-to-tote public address solutions, it is the ideal tool for entertainers and DJs, offering plenty of power to get the job done in large venues. Delivering remarkably high SPLs effective down to the lowest frequencies, this high-tech system is also an excellent choice for bands. Courtesy of top-flight speakers and ultra advanced digital power amp technology, the L.U.C.A.S 2000's output is astonishing, particularly in view of its light weight and ease of transport.



Facts & Features

- Ideal for entertainers, bands and mobile DJs who require great sound and more power
- 18" subwoofer, factory-equipped with casters
- Two 12" / 1" CD horn-loaded satellites
- 2-way active circuitry featuring OFR™ technology
- 1.200 W RMS digital bass power amp drives the 18" subwoofer
- 2x 400 W RMS digital power amp drives the satellites
- HK AUDIO DuoTilt™ serves to zero in on and align sound to your audience
- System weight: 85 kg/ 187 lbs

For technical data, please refer to the last page.

Available accessories:

Speaker Add-On Package
comprising two black aluminum tripods, two 7-metre speaker cables, gig bag

L.U.C.A.S 2000 Protective Cover Set
Three padded covers for the Sub bin and the two satellites





DynaClip™ Limiter

for the bass power amp

HK AUDIO's DynaClip™ technology is a dynamic limiter developed specifically to enhance low-end performance. The DynaClip™ Limiter compensates for the subwoofer's slower initial transient response, audibly improving pulse behavior. This makes the most of low frequency energy, and enhanced efficiency translates to more power.



Opto Limiter

for the mid/high-range

Mid/high-range frequencies are a breed apart from low-end frequencies, and they require a different type of signal processing. To this end, we use an opto limiter, a technology originally developed for high-end recording. Its soft-knee attack ensures smoother, more musical limiting that sounds inconspicuous, even pleasant. The original signal envelope remains largely intact, yielding a more dynamic and natural-sounding response.



Multi-Band Limiting

Optimized for every frequency range

Several limiters are synchronized to process all key frequency ranges. This achieves balanced dynamic response and punchy projection for highly musical sound across the entire frequency spectrum.



OFR™

Optimized Frequency Response Technology

An unprecedented technology, OFR™ delivers commanding yet well-balanced sound at every level. It compensates for speaker components' non-linear frequency response and adapts the system's sound to human auditory response.



Subsonic Filter

Protection against low-frequency rumble

The integrated subsonic filter suppresses accidental and unintentional signals such as footfalls, wind, or the sound of a hand accidentally brushing a microphone. It cuts these frequencies drastically, freeing energy to better render bass impulses. Goodbye squashed dynamics and artificial sound, hello authenticity and natural-sounding high/midrange response.



Digital Amping

Enhanced efficiency and dynamics

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



Easy Setup and Handling

Less pre-gig stress

Like all HK AUDIO® Active Systems, L.U.C.A.S was designed as a cohesive unit consisting of perfectly matched components. Painstaking effort was invested in ensuring that the system is easily transported and swiftly set up. Handling and EQing couldn't be any easier, with no complicated and time-consuming tweaking challenges to master.



DuoTilt™, MonoTilt™ and MicroTilt™

Making the most of sonic energy

DuoTilt™, MonoTilt™ and MicroTilt™ pole mounts allow sound energy to be utilized far more efficiently. DuoTilt™ offers angles of 7.5° and 15°, and MonoTilt™ and MicroTilt™ an angle of 10°, to better aim the mid/high-range cabinets directly at the audience. Troublesome ceiling reflections are minimized; the soundscape is clearer, tighter, and more focused.



Active Systems Technology.™

Technical Specifications.

	L.U.C.A.S XT Satellite	L.U.C.A.S 600 Satellite	L.U.C.A.S 1000 Satellite	L.U.C.A.S 2000 Satellite
Nom. power handling capacity	60 W RMS	150 W RMS	200 W RMS	400 W RMS
Frequency response +/- 3dB ***	100 Hz-19 kHz	130 Hz-19 kHz	130 Hz-19 kHz	110 Hz-19 kHz
Axial sensitivity 1W@1m *	97 dB	101 dB	101 dB	105 dB
Max. sound pressure level @1m *	115 dB@10% THD	122 dB@10% THD	123 dB@10% THD	126 dB@10% THD
Nominal impedance	4 ohms	4 ohms	4 ohms	8 ohms
Connectors	1x Speakon® NL 4	1x Speakon® NL 4	1x Speakon® NL 4	1x Speakon® NL 4
Midrange woofer	1x 6.5"	1x 8"	1x 8"	1x 12"
Tweeter/driver	1" Dome Tweeter	1"	1"	1"
Directivity	80° x 50°	90° x 40° CD horn	90° x 40°	60° x 40° CD horn
Crossover frequency	3 kHz, 12 dB/octave	2.2 kHz, 12 dB/octave	2.5 kHz, 12 dB/octave	2 kHz, 12 dB/octave
Tweeter protection (passive)	Dynamic protection circuit	Dynamic protection circuit	Dynamic protection circuit	Dynamic protection circuit
Mounting collar	MicroTilt™, 15 mm	MonoTilt™, 36 mm	36 mm	DuoTilt™, 36 mm
Dimensions (WxHxD)	18.5 cm x 27.5 cm x 21.5 cm 7-1/4" x 10-7/8" x 8-1/2"	24 cm x 35.5 cm x 25 cm 9-1/2" x 14" x 10"	25.5 cm x 40 cm x 23 cm 10" x 15-3/4" x 9"	35.5 cm x 52 cm x 38 cm 14" x 20-1/2" x 15"
Weight	4.5 kg/ 9.9 lb	6.9 kg/ 15.2 lb	9.5 kg/ 21 lb	17 kg/ 37.4 lb

	L.U.C.A.S XT Subwoofer	L.U.C.A.S 600 Subwoofer	L.U.C.A.S 1000 Subwoofer	L.U.C.A.S 2000 Subwoofer
Frequency response +/- 3dB ***	43 Hz - 100 Hz	50 Hz - 130 Hz	47 Hz - 130 Hz	40 Hz - 110 Hz
Axial sensitivity 1W@1m *	97 dB	104 dB	101 dB	103 dB
Max. sound pressure level @1m *	118 dB@10%THD	123 dB@10% THD	127 dB@10% THD	131 dB@10% THD
Subwoofer amp	1x 250 W RMS	1x 300 W RMS	1x 600 W RMS	1x 1200 W RMS
Satellite / Mid/High Unit amp	2x 60 W RMS	2x 150 W RMS	2x 150 W RMS	2x 400 W RMS
Active protection circuits	Multi-Band Limiter Subsonic Filter	Opto Limiter, DynaClip™ Subsonic Filter	Opto Limiter, DynaClip™ Subsonic Filter	Multi-Band Limiter Subsonic Filter
Connectors	2x XLR combination port 2x RCA AUX IN 2x RCA MIX OUT 2x Speakon® satellite out	2x XLR combination port 2x XLR Through 2x Speakon® satellite out	2x XLR combination port 2x XLR Through 2x Speakon® satellite out	2x XLR combination port 2x XLR Through 2x Speakon® satellite out
Subwoofer	1x 10"	1x 12"	1x 15"	1x 18"
Mounting collar	-	-	36 mm	36 mm
Dimensions (WxHxD)	32 cm x 41 cm x 46.5 cm 12-5/8" x 16-1/8" x 18-3/8"	39 cm x 48.5 cm x 59 cm** 15-3/8" x 19" x 23-1/4"***	44 cm x 54 cm x 65.5 cm** 17-3/8" x 21-1/4" x 25-3/4"***	52 cm x 63 cm x 73 cm** 20-1/2" x 24-7/8" x 28-3/4"***
Weight	21 kg/ 46.2 lb	29.5 kg/ 64.2x lb	42.5 kg/ 94 lb	56 kg/ 123.2 lb

*) All measurements taken under half-space conditions

) Including casters *) Via the active system crossover

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