



Portable Sound



L.U.C.A.S.[®]
600

The Smart Entertainer



The L.U.C.A.S.[®] Family



Our goal: Pure listening pleasure!

Perfect sound can only result from the finely tuned coordination of many elements. This is why the HK AUDIO® development team comprises a host of experts working closely together. Engineers specializing in acoustics, in analog and digital electronics and in mechanics work hand in hand, collaborating with a musicologist who adapts the sound of every HK AUDIO® product to suit the human auditory response. And HK AUDIO® developers have the perfect tool for this at their disposal - one of the world's most advanced Class 1 acoustical measuring rooms.

L.U.C.A.S® - Entertaining the world!

World-class sound reinforcement

The entire L.U.C.A.S® family has evolved from the original 1998 L.U.C.A.S® model. Four models in four power classes deliver the sonic goods to cover virtually every sound reinforcement scenario. Every L.U.C.A.S® model is an impressive sound reinforcement tool offering extraordinarily natural-sounding voice reproduction and jaw-dropping low frequency projection.

And not only at high volume levels. Courtesy of OFR™ technology, L.U.C.A.S® offers up a smooth, lush and warm soundscape even when driven very softly.

For the first time, L.U.C.A.S® makes sound reinforcement systems a real plug & play proposition: Plug in, power up, and feel good!

From premium quality presentations to DJing, from entertainer gigs to village fairs, the L.U.C.A.S® family offers the right solution for every application.



Opto-Limiter for the mid/high-range

Mid/high frequencies are a breed apart from low frequencies, and they require a different brand of signal processing. Hence the onboard Opto-Limiter. A technology originally developed for high-end recording gear, its soft-knee attack ensures smoother, more musical limiting that sounds pleasant and natural even in response to powerful impulses.

DynaClip™ Limiter for the bass power amp

Developed by HK AUDIO®, DynaClip™ is a limiter technology designed to enhance low-end performance. For one, the DynaClip™ Limiter compensates for the slower transient response of larger speaker membranes, ensuring precision pulse behavior. Furthermore, it makes the most of the power amp's low-frequency energy, with the enhanced efficiency translating to a bigger, brawnier sound.



OFR™ – Optimized Frequency Response Technology

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

Subsonic Filter - defeating low frequency interference

The integrated subsonic filter cuts unwanted infra-sub-bass signals resulting from stage rumble, wind and the sound of a hand accidentally brushing a microphone. These frequencies are cut drastically, freeing up energy for better reproduction of low end pulses.



Easy setup and handling – less pre-gig stress

Like all HK AUDIO® Active Systems, L.U.C.A.S® 600 was designed as a complete unit consisting of perfectly matched components. Painstaking effort was invested in developing L.U.C.A.S® 600 to ensure it is easily transported and swiftly set up. Handling and EQing couldn't be any easier.

MonoTilt™ – Making the Most of Sonic Energy

The MonoTilt™ pole-mount collar helps sound energy to be utilized far more efficiently. It offers a 10° angle of tilt to better align the satellite speakers to the audience. Troublesome ceiling reflections are minimized; the sound is clearer, tighter, and more focused.



L.U.C.A.S.[®]
600



Lightweight Ultra Compact Active System

Musicians, DJs and promoters all over the whole world discovered L.U.C.A.S.[®] in 1998. Easier to transport, faster to set up, and better sounding, this Lightweight Ultra Compact Active System changed the entertainer's world. No wonder that L.U.C.A.S.[®] would become the template for a new generation of sound reinforcement systems.

Now the legitimate heir to the original L.U.C.A.S.[®] has arrived. The new L.U.C.A.S.[®] 600 can do everything that made its predecessor so popular. Yet it's perceptibly smaller, lighter and even more portable.

Since the arrival of L.U.C.A.S.[®] 600, anyone who still uses a conventional sound reinforcement system with, say, a pair of 12/2 cabs is living in the past century....

L.U.C.A.S® 600 is a **satellite system**, meaning that it renders middle and high frequencies via easy-to-handle “satellites” that can be aimed perfectly at the audience, whereas the low frequencies, which are less directional, are produced by a separate subwoofer resting on the floor. This placement improves low end efficiency, boosting output by 3 decibels, and makes the system easier to set up. No more heavy bass bins on massive, unwieldy stands; for the much lighter satellite speakers, lightweight tripods do the trick.

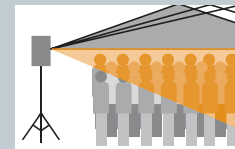
L.U.C.A.S® 600 is an **active system**, meaning that power amps and the electronic controller/crossover are integrated in the speaker enclosure. L.U.C.A.S’ power circuitry is housed in the subwoofer, and one mains cord suffices for the entire system.

L.U.C.A.S® 600 is an **intelligent speaker system**. Crossovers, power amps and loudspeakers are perfectly matched, and it is impossible to connect cords incorrectly or make major EQing mistakes. The onboard controller ensures safe operation and delivers lush, fat and musical response even at low volume levels. In a nutshell: Plug in, power up and feel good!



L.U.C.A.S® 600 system with optional stands

Available as an accessory: Practical set of protective covers.



That was then: Up to 50% of sound energy was wasted; ceiling reflections caused phase cancellations.

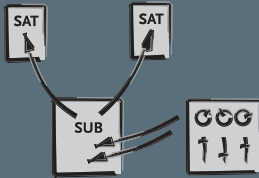


This is now: HK AUDIO MonoTilt™ makes the most of sonic energy; all listeners enjoy clear, punchy sound.



Facts & Features

- Ideal for solo entertainers, small bands and mobile DJs
- 12” subwoofer, factory-equipped with casters
- Two satellites, each with an 8” speaker and a 1” CD horn
- 2-way active electronics featuring OFR™ technology
- 300W RMS power amp for the 12” subwoofer
- Two 150W RMS power amps for the satellites
- HK AUDIO® MonoTilt™ for optimally directing the sound towards the audience
- Total weight of the system: 43.3 kg/ 95 lbs.



Easy to connect



1 Satellite Limiter Status LED. These dual-color LEDs indicate the current limiter status for the satellites.

2 Subwoofer Limiter Status LED. These dual-color LEDs indicate the current limiter status for the subwoofer.

3 Power On LED. This LED lights up when the Power switch is set to ON and the system is plugged into a mains power supply.

4 Gain left/right. This knob adjusts the Line In signal level.

5 Subwoofer Level. This knob adjusts the level of the subwoofer to suit the venue's acoustics.

6 Ground. Ground lift switch.

7 Input left/right. Electronically balanced Neutrik combo jack for the right and left mixer signal (Line). Accepts an XLR connector as well as a 1/4" (6.3 mm) mono or stereo-style (TRS) plug.

8 Through left/right. Parallel output for routing the Line signal to additional systems, individual components, monitor power amps, and so forth.

9 Satellite Out left/right. These Speakon® outputs connect the satellites to the stereo power amp which is housed in the subwoofer enclosure.

10 Power switch. On/off switch for the L.U.C.A.S.® 600 system.

11 Mains Input. Connects the L.U.C.A.S.® 600 subwoofer to a power source of the appropriate voltage using the included Powercon® cable.

12 Fuse. Mains fuse.

13 Mains Cord Tab. This clamp holds the power cord in place to prevent accidental unplugging.

Technical specifications.

Satellite

Nominal power handling capacity:	150 W RMS
Frequency response +/- 3dB ***):	130 Hz – 19 kHz
Axial sensitivity 1W@1m *):	101 dB
Max. sound pressure level @1m *):	122 dB @ 10% THD
Nominal impedance:	4 ohms
Connectors:	1x Speakon® NL 4
Midrange woofer:	1x 8"
Tweeter/driver:	1x 1"
Directivity:	90° x 40° CD-Horn
Crossover frequency:	2.2 kHz, 12 dB/octave
Tweeter protection (passive):	Dynamic protection circuit
Pole mount:	MonoTilt™, 10° angle, 36 mm inner diameter
Dimensions (WxHxD):	9 1/2" x 14" x 10" 24 cm x 35.5 cm x 25 cm
Weight:	15.2 lbs (6.9 kg)

Subwoofer

Frequency response +/- 3dB ***):	50 Hz - 130 Hz
Axial sensitivity 1W@1m *):	104 dB
Max. sound pressure level @1m *):	123 dB @ 10% THD
Amplifier, subwoofer:	300 W RMS
Amplifier, satellite:	2x 150 W RMS
Active protective circuits:	DynaClip™ Limiter, Opto-Limiter, HK Audio Subsonic Filter
Connectors:	2x XLR combination ports, 2x Speakon® NL 4
Bass woofer:	1x 12"
Dimensions (WxHxD):	15 3/8" x 19" x 23 1/4" 39 cm x 48.5 cm x 59 cm**
Weight:	64.2 lbs (29.5 kg)

*) All measurements taken under half-space conditions

***) Including casters

***) Using the active system crossover

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