

30

HDL 30-A

ACTIVE TWO-WAY LINE ARRAY MODULE

RCF's big-selling HDL Line series, spearheaded by the HDL 20-A, has received a further boost with the arrival of the RCF HDL 30-A — a compact bi-amped 2-way active touring system for medium to large events, both indoors and outdoors.

The HDL 30-A includes all the latest innovative technologies recently developed from RCF.

An absolute reference for pristine audio quality, it features an impressive SPL, thanks to the built-in 2200W, 2-way class-D amplifiers and a high power DSP, with FiRPHASE filters included.



RCF's experienced engineering teams have specially developed and matched each component starting from the amplifier design, including a dedicated input board, from transducers right up to the complete HDL 30-A system. All HDL 30-A systems are hand-crafted by RCF.

p.n. 130.00.511 (90-240V)



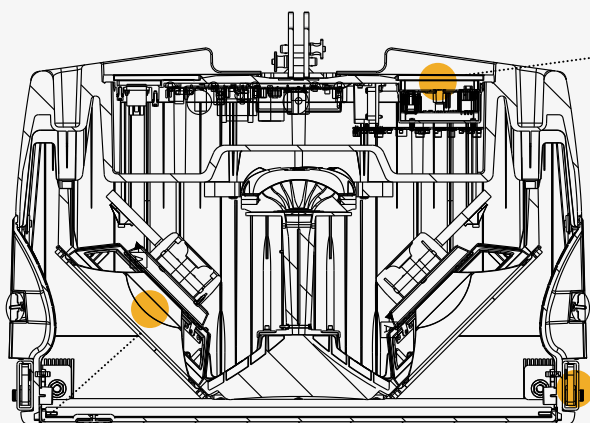
RNet INSIDE

Thanks to the RCF RNet Networked Monitoring and Control, the system engineer is able to carry out a large number of functions.

- 137 dB SPL Max
- 2200 W peak 2-way class-D switching amplifier
- 50 - 20000 Hz Frequency Range
- 100° x 15° wide, constant directivity coverage angle
- 1 x 4" neodymium Compression Drivers
- 2 x 10" high power neodymium Woofer
- 680 Hz Crossover Frequency
- Wooden reinforced polypropylene composite cabinet
- **FiRPHASE**
- RNet remote monitoring and control
- 294x705x405 mm - 11,5x27,7x17,9 in (HxWxD)
- 25/55.1 kg/lbs

“ a lightweight champion with an impressive punch! „

INSIDE VIEW



/ DSP

The special FIRPHASE filters allow coherent distribution of sound to be achieved for all listeners without phase distortion. Air Compensation for individual cabinet or groups helps to compensate the common frequency loss in air on long throw applications.

/ MECHANICS

High strength enclosure in composite polypropylene with a revolutionary new rigging concept inspired by its big brother: the RCF HDL 50-A. Given its acoustical power, it has a remarkably low weight for easy handling and flying.

/ TRANSDUCERS

State of the art RCF transducers with neodymium magnets. Two 10" woofers and an impressive 4" titanium compression driver on a symmetrical design, for constant horizontal coverage. The time coherent waveguide is the result of 3 years of research and design.



**RDNET
ON BOARD**



ADVANTAGES

- High power
- Low Weight
- Symmetrical acoustic design
- RDNet remote control and monitoring
- Air Compensation
- Easy to stack and fly

New perspective on linearity



FIRPHASE

RCF speakers are designed using a proprietary and advanced FIR filtering technology, conceived to deliver transparent sound, absolute clarity and perfect stereo images to the listener. The special FIRPHASE filters allow to achieve coherent distribution of sound for all listeners without phase distortions, ensuring minimum latencies to the system.

PHASE MATTERS

The design of the FIR filter for this specific purpose should start from an accurate measurement of the loudspeaker phase.

FIRPHASE algorithm use this measurement and adapt the loudspeaker's phase without touching the amplitude equalization.

The heart of the advanced technique used by FIRPHASE is a recursive method (Least Squared method) combined with a proprietary algorithm that calculates the best FIR filter coefficients set in according to amplitude and phase constrains.

The algorithm corrects phase and amplitude (if necessary) by taking into account the weak points of the transducers and the resonances or cancellations due to the cabinet of the loudspeaker.

This technique allows a deep control of phase at mid-low frequency with relatively small filters, reaching a higher resolution than that one as theory suggests.



/ LIVE SOUND

Plug&Play portable solutions for music and events. The speakers range representing one of the finest example of audio design, that offers the best audio choice for a multitude of live sound applications.

RCF Live Sound Series have been representing the ultimate performance and the most advanced technology in the portable music amplification and unobtrusive fixed installation.

/ INSTALLED SOUND

Speaker systems designed to meet all pro-audio contractors requirements for fixed installations. The full-range bass reflex RCF C-Max Series is conceived for installation in entertainment and small venues where nearfield quality and sound pressure are required. That includes karaoke rooms, conference halls, AV installations, museums, clubs.