



# ELAC

## DUAL REFERENCE

### SUBWOOFERS

**POWERFUL**  
**BOLD**  
**DYNAMIC**

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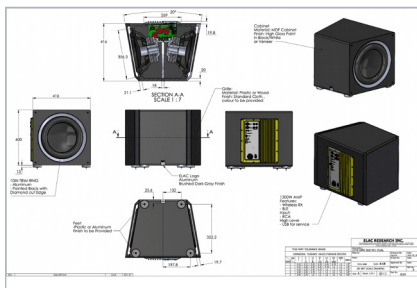
## TOTAL PERFORMANCE

### Begins With Design

*Eliminate the challenges of placement with ELAC's AUTO EQ*

Experience the incredible sound of our iconic Dual Reference Series Subwoofer — this single subwoofer can power your sound system with even, precisely tuned, crystal-clear bass. Our state-of-the-art technology delivers a clean, balanced low-frequency experience, with two powerful bass drivers with excellent linearity, producing tight and accurate bass, with minimal distortion. Perfectly tuned for the most demanding movies or music.

## PRODUCT DETAILS



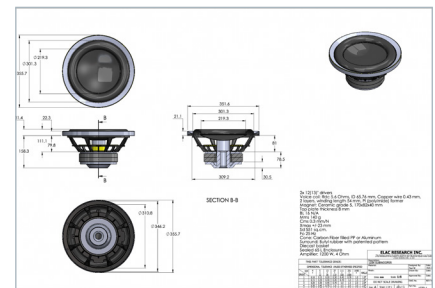
### Custom Design

High Gloss painted, elegant, and acoustically balanced 36mm cabinet. Damped and internally braced to eliminate unwanted resonance for maximum performance.



### Custom Amplifier

Powerful BASH amplifier with Dual 4-channel DSP and 32bit DACs. Built-in wireless receiver and BLE APP control.



### Custom Driver

Aluminum sandwich cone with a large 2.5" voice coil for increased power handling and thermal management, resulting in higher output SPL.



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## FEATURES

## DUAL REFERENCE SUBWOOFERS

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- **DSP** (Digital Signal Processor) – A dual 28-Bit DSP with a 147MHz master clock frequency is utilized to process audio signals with high accuracy and minimum latency.



- **Hex Technology** – surround geometry allows for a very linear relationship between applied force and resulting displacement in both directions. This ensures faithful reproduction of the recorded signal with low distortion even at high playback volumes.

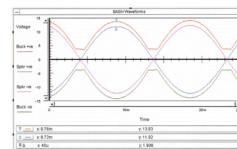


- **Aluminum Sandwich Woofer** – These new high excursion woofers utilize a rigid and light-weight aluminum cone sandwiched with a treated paper cone using a special gluing process. This method retains the transient benefits of cellulose cones with the torsional rigidity of aluminum and allows for exceptionally long cone throws for better handling of high signal levels and low bass.



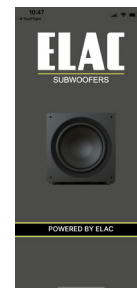
- **Dual Woofers** – Both Dual Reference Series subwoofers feature two separate woofers mounted opposite each other. This configuration, along with the increased amplifier power, not only increases SPL, but also significantly reduces cabinet vibrations.
- **Large Diameter Voice Coils** – Both Dual Reference Series subwoofers feature a large 2.5" voice coil for increased power handling and thermal management resulting in higher output SPL.

- **BASH Amplifier** – This new amplifier uses a modulated switched mode power supply allied to a conventional class AB amplifier.



Switching at more than 400,000 times per second, the supply tracks the incoming audio signal to ensure that the Class AB amplifier gets only the voltage necessary (with a little headroom) to cope with today's dynamic movie and music content, thus maximizing the efficiency and potential of the amplifier.

- **Advanced APP Control** – Doing away with traditional analog controls, our new Dual Reference Series subwoofers incorporate our advanced digital control system. Simply download the ELAC Sub Control 3.0 app for your Android or iOS phone or tablet and you have complete control of multiple subwoofers from the comfort of your sofa.



- **Auto Room EQ** – Finding the perfect location for your subwoofer can be difficult or just not visually appealing. Utilizing our new Sub Control 3.0 app and your smartphone microphone, the subwoofer will optimize room EQ automatically, allowing greater flexibility in placement without sacrificing performance.

- **Wireless Ready** – All Dual Reference Series Subwoofers have a wireless receiver built-in. Simply add the optional AirX2 Wireless transmitter, connect it to your AV receiver, and you can wirelessly transmit subwoofer information to up to 3 Reference subwoofers simultaneously.



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## SPECIFICATIONS

## DUAL REFERENCE SUBWOOFERS

POWERFUL • BOLD • DYNAMIC

	DS1000-GB	DS1200-GB
SPEAKER TYPE	SEALED	
DUAL WOOFERS (SANDWICH ALUMINUM)	10" HEX SURROUND	12" HEX SURROUND
FREQUENCY RESPONSE (ANECHOIC)	18HZ TO 150HZ	17HZ TO 150HZ
FREQUENCY RESPONSE (IN ROOM)	15HZ TO 150HZ	14HZ TO 150HZ
MAXIMUM OUTPUT LEVEL, SPL DB/1M ANECHOIC	115 dB	118 dB
LOW PASS CROSSOVER, HZ	40HZ TO 150HZ	40HZ TO 150HZ
AMPLIFIER POWER, @4 OHM (RMS/PEAK))	1000/2000 WATTS	1200/2400 WATTS
APP CONTROLLED (BLE)	IOS AND ANDROID	
AMPLIFIER TOPOLOGY	BASH	
STANDBY POWER CONSUMPTION	< 2.0W	
INPUTS	RCA LINE LEVEL, BALANCED, SPEAKER LEVEL	
12 VOLT INPUT	12 VOLT TRIGGER	
DATA CONNECTION	USB (FIRMWARE UPDATE)	
ETHERNET	THIRD PARTY CONTROL	
CABINET FINISH	GLOSS BLACK	
ACCESSORIES INCLUDED	GRILLE, AC POWER CORD, SPIKES	
HEIGHT	371 MM	421 MM
WIDTH	429 MM	482 MM
DEPTH	370 MM	416 MM
Net Weight	32.4 KG	37.9 KG



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# ELAC ANATOMY

## DUAL REFERENCE SUBWOOFERS POWERFUL • BOLD • DYNAMIC

STRONG 36MM  
MDF CABINET

RIGID DIE CAST  
BASKET

POWERFUL BASH AMPLIFIER  
1000/1200 WATTS

INTERNAL CROSS BRACING VIRTUALLY  
ELIMINATES CABINET RESONANCES AND  
SUPPORTS WOOFERS

HEX (HIGH EXCURSION)  
SURROUND

DUAL POWERFUL CERAMIC GRADE  
5 MAGNET - 70x82x40 MM

ACOUSTIC DAMPING  
FURTHER REDUCES  
UNWANTED CABINETS  
RESONANCES

CUSTOM CONE - MAINTAINS DAMPING  
WHILE DECREASING WEIGHT AND  
INCREASING EFFICIENCY

AS TECHNOLOGY -  
STIFF CONE MATERIAL  
(ALUMINUM) AND HIGH  
INNER DAMPING (PAPER)



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**“ DURABLE AND STRONG ”**



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