



# BLACK 15 | SUB

2400 WATT 15" ACTIVE SUBWOOFER WITH WIRELESS CONNECTIVITY  
TECHNICAL SPECIFICATIONS

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**Designed and tuned in the USA, Black Series powered subwoofers offer more power, more agility, and more intelligence than any other speaker in their class.**

The cabinet features sturdy plywood construction with an anti-scuff coating. The steel grille is finished in a professional-grade powder coating. Custom-molded handles allow easy transport. Steel-reinforced rubber feet provide excellent stability. A pole-mount socket (35mm) is fitted into every model. Standard M10 rigging points allow the Black 15 Sub to be flown. The illuminated logo nameplate can be switched off for more discreet installations.

The Black 15 Sub features two XLR+1/4" combo inputs controlled by a single level control. The dual XLR outputs can be set to bypass the internal crossover. A convenient polarity switch provides instant phase correction. The internal DSP EQ can be accessed directly from the rear panel or Live Drive app. All models include a ground lift switch to minimize any unexpected ground loop hum at the venue.

Live Drive is the wireless remote control app available for iPhone, iPod touch, and iPad. Available at the App Store, Live Drive for the Alto Professional Black Series provides remote wireless control over the internal DSP/EQ, Delay-Compensation, Level and Mute status. The Live Drive app allows each Black Series loudspeaker and subwoofer to be quickly re-adjusted at any time, and from any location to assure peak performance in every venue.



## FEATURES

- 2400 Watts peak Class D power (1200 Watts continuous)
- Powerful 15" low-frequency, long-excursion driver
- Stereo inputs: XLR 1/4" combo connector
- Stereo XLR outputs: with user-selectable high-pass filter
- Specifically crafted, purpose-matched components for maximum efficiency and industry-leading power
- Adjustable level and polarity controls
- Switch to turn off logo LED
- Portable design with comfortable, custom-molded handles
- Heavy-duty vented plywood cabinet
- Rugged, highly durable scratch-resistant finish
- Extremely durable powder-coated steel speaker grille
- Steel-reinforced rubber feet
- Standard 35 mm pole socket
- Designed and tuned in the U.S.A.

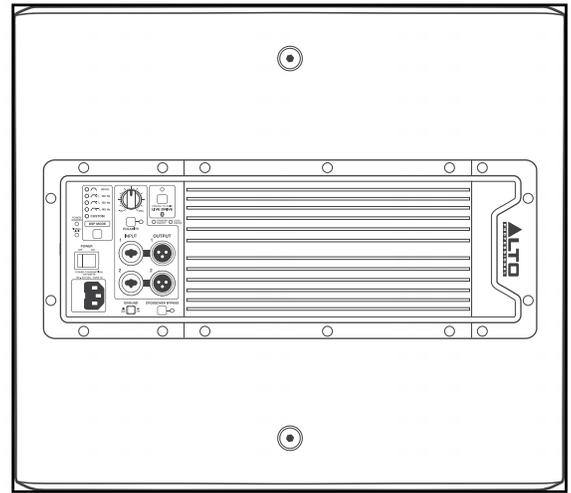
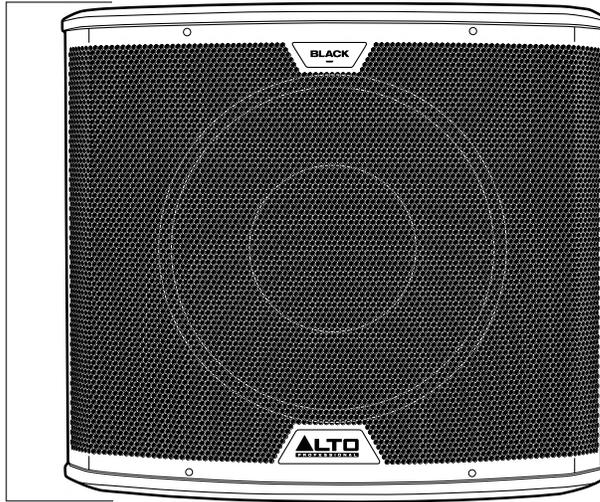
## SPECIFICATIONS

<b>SYSTEM CONFIGURATION:</b> System Type: 15" bass reflex, direct-radiating, subwoofer	Power Connector: Male IEC Current Requirement: 6 A per system @ 120 VAC. 3 A per system @ 240 VAC AC Line Cord: 9.8' (3m) IEC female to regional AC male, 18 AWG.
<b>ACOUSTIC PERFORMANCE:</b> Frequency Range (-10 dB): 31 Hz – 160 Hz Frequency Response (+/-3 dB): 33 Hz – 140 Hz Maximum Peak SPL (Measured): 132 dB @ 1 m	<b>CONNECTORS AND CONTROLS:</b> Input Connectors: 2 x XLR/TRS combo connectors, balanced. Input Impedance: 10 K $\Omega$ balanced, 20 K $\Omega$ unbalanced Input level Controls: Rotary volume control to control subwoofer level Acoustic Polarity: Positive voltage applied to XLR Pin 2 generates positive pressure from LF driver. Reversible via rear panel switch. Output Connector: 2 x male XLR, with loop-through high-pass filter bypass filter bypass via by rear panel switch. Output Mix Control: Switch to select output mix pre- or post- volume control Ground Switch: Push-button to lift input signal input ground connection Bluetooth: Momentary contact to initiate Bluetooth pairing mode DSP Mode Selection: Momentary contact to cycle through DSP EQ modes DSP Modes Available: 5 total: 80 Hz, 100 Hz, 120 Hz, 140 Hz, User DSP Wireless Control: Alto Professional Live Drive™ iOS App over Bluetooth Grille Logo LED On/Off Control: Recessed push-button switch Standby mode On/Off Control: Recessed push-button switch LED Indicators: Signal Present / Limit, Power / Standby Line Input Level Control Range: $-\infty$ to +10 dB, detented at 0 dB, +4 dBu nominal input level, +10 dBu input level for max output
<b>POWER AMPLIFICATION:</b> Peak Power: 2400 Watts Continuous Power: 1200 Watts Amplifier Topology: Class D / Switching Amplifier Cooling: Passive	<b>ENCLOSURE:</b> Construction: 15mm and 18mm premium plywood Finish: High-durability textured catalyzed polyurethane Mounting: 12 x M10 female threaded screw sockets Handles: 2 x ergonomic handles with aluminum cross-bar Stand mount: 1 x 35mm female socket Grille: 1.2mm-thick perforated steel, black powder-coat Operating Temperature: -10°C to 40°C (14°F to 104°F) Dimensions (H x W x D): 458mm x 513mm x 638mm (18.0" x 20.2" x 25.1") Net Weight: 42.8 kg (94.1 lbs)
<b>TRANSDUCER:</b> LF Transducer: 15" (300mm) ultra-high excursion cone transducer, 4" (100mm) voice coil, ferrite magnet	
<b>DSP FUNCTIONALITY:</b> System Control: high-pass & low-pass crossover filters, transducer EQ and delay-compensation transducer excursion, thermal, and amplifier clip protection. User Controls: Rear panel selection of 5 DSP low-pass modes: (80 Hz, 100 Hz, 120 Hz, 140 Hz, User) Polarity reverse enable/disable XLR out high-pass filter bypass enable/disable	
<b>WIRELESS CONTROL AND MONITORING:</b> Wireless Type: Bluetooth 2.0 + EDR. Class 2 RF Wireless Range (typical): 82' (25m) clear line-of-sight. Wireless Control App: Alto Professional Live Drive™ (Available at the App Store) Simultaneous Devices Connectable: 1 to 3 Black series loudspeakers Compatible Wireless Devices: iPhone 3GS and newer, iPad 2 and newer, iPod touch (4th generation) and newer iOS Version Requirements: iOS 6.1 and newer Wireless Control Features: Level Control ( $-\infty$ to +10 dB), Mute, Signal level metering (-70 to 0 dB) DSP Low pass mode (80 Hz, 100 Hz, 120 Hz, 140 Hz, User) Rear Panel control lockout, Bass-Tilt EQ, Delay, Polarity, User low-pass filter, Monitoring (Limit, Peak, Fault)	
<b>AC LINE POWER:</b> Power Supply Design: Fully regulated switching, with Power Factor Correction Input Voltage Nominal Range: 100 – 240 VAC, 50/60 Hz Input Voltage Operating Range: 90 – 264 VAC, 50/60 Hz Voltage Selection: Automatic (self-regulating)	

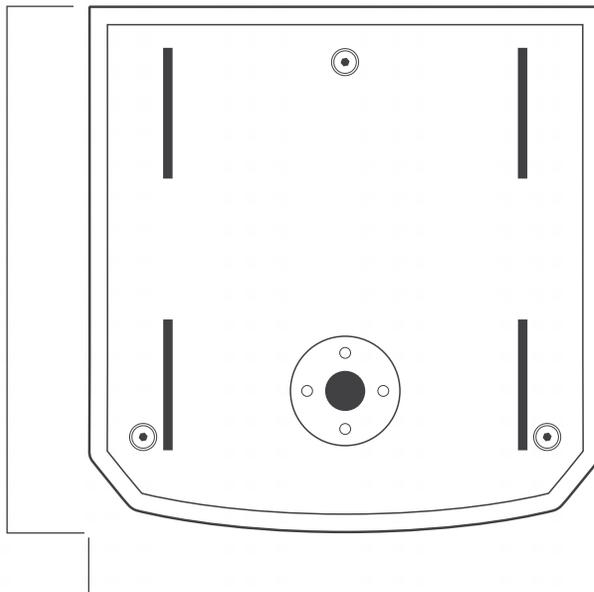
**PHYSICAL PROPERTIES**

Height	483mm (18.0")
Width	513mm (20.2")
Depth	638mm (25.1")
Net Weight	42.8 kg (94.1 lbs)

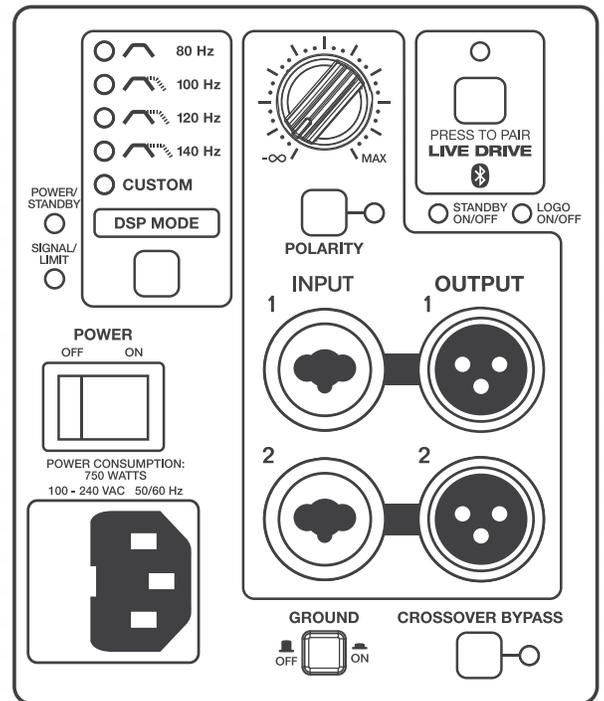
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(18.0")



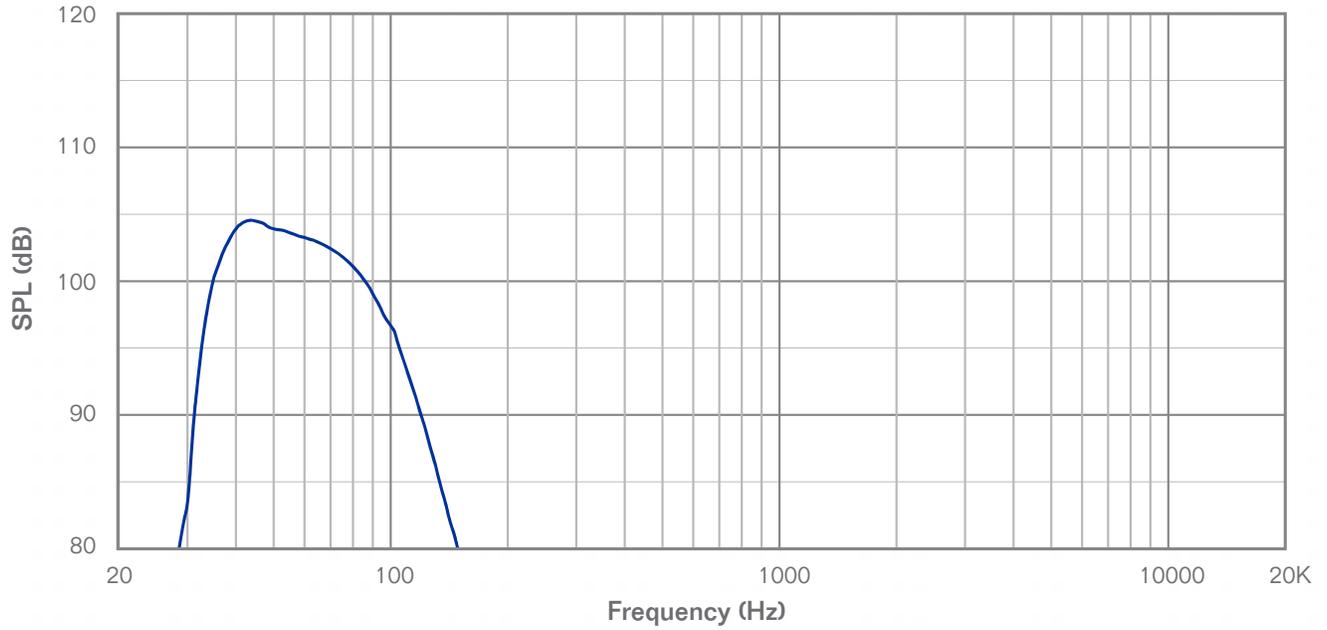
638mm  
(25.1")



513mm  
(20.2")



FREQUENCY RESPONSE ON-AXIS





# BLACK 15 SUB



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