

# CT 118 SUB

## HIGH-PERFORMANCE SUBWOOFER



The CT 118 Sub is a direct-radiating subwoofer designed for use in two-way active sound reinforcement systems. It was developed specifically for deployment in combination with the CT 108, CT 112 and CT 115 model enclosures of the HK AUDIO ConTour Series™. This subwoofer is the perfect choice for sound reinforcement challenges demanding high SPL and natural-sounding bass response from an enclosure with a small footprint.

The CT 118 Sub can be retrofitted with an optional passive crossover equipped with true low-pass and high-pass filters for the sake of configuring basic satellite systems without having to resort to extra power amps or active crossovers.

For the best audio results, we recommend operating this enclosure with the HK AUDIO DSM 2060 Controller or HK AUDIO Digital Field Controller (DFC) in combination with a DFC network.

## TECHNICAL SPECIFICATIONS

Power-handling nominal: 1000 W RMS  
 Power-handling program: 2000 W  
 Power-handling peak: 4000 W  
 Recomm. amplifier power: 2000 W RMS / 4 Ohms

Frequency response -10 dB: 32 Hz – 350 Hz  
 Frequency response +/- 3 dB: 41 Hz – 350 Hz

Sensitivity 1W@1m 1): 100 dB (50 Hz – 200 Hz)  
 Max. SPL calculated 1): 136 dB  
 Max. SPL peak 1): 131 dB  
 Max. SPL 1): 129 dB (50 Hz – 200 Hz)  
 Nominal impedance: 8 Ohms

Woofer: 18" neodymium

Recomm. crossover freq.: 100 Hz/ 4th order Hardman LPF  
 Subsonic: 30 Hz/ 4th order Hardman HPF  
 Recommended Controller: HK AUDIO DSM 2060

Connectors: 2x Speakon® NL 4  
 Enclosure: 18 mm (3/4"), 13-ply  
 Finish: Black acrylic lacquer  
 Grille: Metal with acoustic foam  
 Handles: 2x Ergonomic handle  
 Rigging hardware: –  
 Pole mount: M20 plate

Weight: 42.5 kg / 93.5 lbs.  
 Dimensions (w x h x d): 50 x 60 x 68 cm  
 19-5/8" x 23-5/8" x 26-3/4"

Optional accessories: Dolly with 100 mm casters, Protective cover,  
 Passive X-Over with Satellite Out (CT 108,  
 CT 112, CT 115)

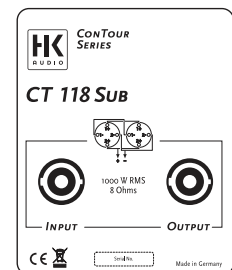
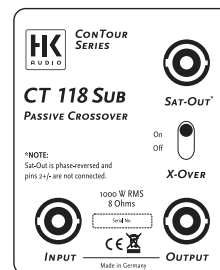
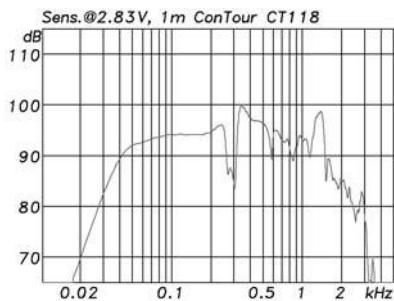
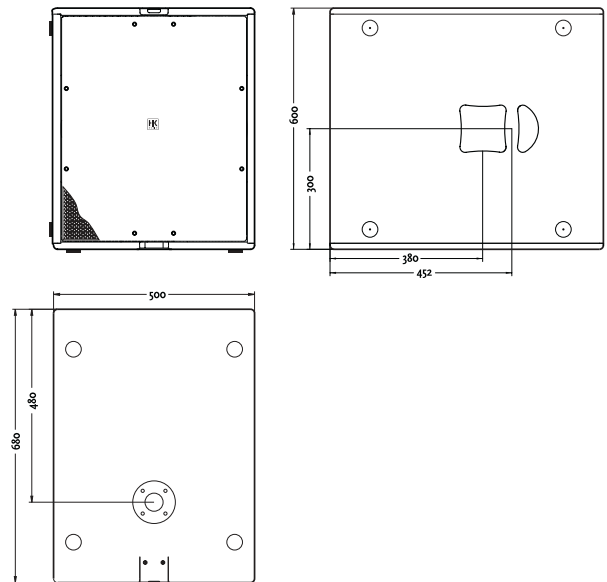
1) Based on half space conditions  
 2) Based upon peak power capacity

Specifications subject to change without notice -  
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**Enclosure details:** The enclosure is constructed of 18-mm, 13-ply birch plywood. The housing is 50 cm wide, 60 cm high, 68 cm deep, and weighs 42.5 kg. The surface is finished in black water-repellent acrylic lacquer. The front baffle is protected by a steel grille. Recessed handles are located on the side panels. An M20 pole mount adapter provides the base for a pole that will accept a CT 108, CT 112 or CT 115 enclosure to form a satellite system. An optionally available dolly equipped with four 100-mm castors makes the cabinet easy to transport and protects the front grille during transport.

**Electrical and acoustical data:** The CT 118 Sub features a direct-loaded 18" neodymium speaker. Frequency response extends from 41 Hz to 350 kHz (+/- 3 dB). Nominal power handling is 1,000 watts RMS at 8 Ohms. Axial sensitivity is 100 dB, measured under half-space conditions at 1 watt @1 metre. Maximum SPL measured under the same conditions at a distance of one metre is 129 dB.

**Connectors:** Connectors are recessed for protection on the back of the CT 118, including two Speakon NL 4 jacks, with both jacks wired in parallel. Pin assignments are pin 1+ = mid/high +, pin 1- = mid/high -, pin 2+ = Sub +, pin 2- = Sub -.



### Architectural Specifications, CT 118 Sub

The professional subwoofer shall be loaded with an 18" neodymium woofer mounted in a precision-tuned bass reflex enclosure and shall deliver dynamic deep-bass to complement the low-end performance of HK AUDIO ConTour Series™ cabinets CT 108, CT 112, and CT 115.

The cuboid housing shall be finished in black acrylic lacquer and constructed of 18-mm birch plywood. The top shall feature indentations to accept the feet of an additional subwoofer stacked on top of the enclosure. A recessed threaded M20 bushing shall accept an optional mounting pole. The front baffle shall be protected by an impact-resistant steel grille backed with acoustic foam. Handles shall be recessed into the sides.

Crossover frequencies shall be set with an HK AUDIO DSM 2060 Controller using an 8th-order Hardman low-pass filter at 100 Hz and an 8th-order Hardman high-pass filter at 30 Hz. Frequency response shall vary no more than -10 dB from 32 Hz to 350 Hz.

The subwoofer shall be capable of producing a sound pressure level of 100 dB on axis at a distance of 1 metre with a power input of 1 watt (half-space conditions), and a maximum SPL of 129 dB at 10% THD, also in half-space. Nominal power-handling capacity shall be 1,000 watts RMS at an impedance of 8 Ohms.

**Connectors:** 2x Neutrik NL 4 Speakon®

**Dimensions (W x H x D):** 50 cm x 60 cm x 68 cm

**Weight:** 42,5 kg

**Accessories:** Dolly with butterfly latches and 100-mm castors, cover, passive crossover with Satellite Out for CT108, CT112, and CT115 enclosures

**Type:** HK Audio® CT 118 Sub