



Fig. 3: CTA 118 Sub

## 2. CTA 118 SUB

### Design and Construction

Made of 18 mm 13-ply birch plywood, water-repellent, black PU lacquer coats the CTA 118 Sub enclosure. A robust metal grille backed with laminated acoustic foam rubber covers the baffle board.

The CTA 118 Sub weighs 59 kg. It is 51 cm wide, 73 cm high and 71 cm deep. Three slot grips routed into the side panels enable easy transport and set-up; a recessed handle is on the lid. The active circuitry resides in a separate chamber at the back of the enclosure. A removable dolly protects the electronic components and simplifies transport.

### Electrical and Acoustical Data

The CTA 118 Sub enclosure features an 18" woofer. The CTA 118 Sub enclosure's nominal electrical power-handling is 700 W RMS at 8 ohms impedance. It produces 101 dB (1W@1m) sound pressure, measured under half-space conditions. Maximum SPL measured under the same conditions at one meter is 130 dB at 10% THD. The CTA 118 Sub's frequency response ranges from 42 Hz to fx (+/-3 dB). The two integrated PWM power amps for the subwoofer and the mid/high output deliver 1000 W EIAJ @ 4 ohms each.

### Connections

Ports are out of harm's way on a recessed connector panel on the CTA 118 Sub's back. It offers two Speakon® NL 4 connectors. Pin assignments are pin 1+ = mid/high +, 1- = mid/high. A Powercon mains socket with another Powercon output connects to the power supply. A female XLR and a male XLR port serve to route signals. Two Neutrik Ethercon ports serve to network several CTA 118 Subs.

### 2.1 SPECIFICATIONS, CTA 118 SUB

A professional active subwoofer equipped with a DDO-Pro™ Controller and a 1000 W EIAJ PWM power amp, the CTA 118 Sub delivers excellent impulse response and exceedingly dynamic low-frequency response. It features an 18" woofer mounted in a precision-tuned bass reflex enclosure. Another 1000 W PWM power amp drives HK AUDIO CTA 208 or ConTour Series™ speakers. The rectangular block housing is made of 18 mm birch plywood coated with black PU lacquer. An impact-resistant steel grille covers the front. A removable dolly protects the electronic components and simplifies transport

Its frequency response ranges from the crossover frequency down to 42 Hz (-3 dB) and 36 Hz (-10 dB). Maximum SPL under half-space conditions is 130 dB at 10% THD.

Connectors: 1 Neutrik NL 4 Speakon® output, 1 XLR female, 1 XLR male, 2 Powercon, 2 RJ45 Ethercon

Dimensions (W x H x D): 51 x 73 x 71 cm

Weight: 59 kg

Model: HK AUDIO CTA 118 Sub

## 2.2 TECHNICAL DATA, CTA 118 SUB

Integrated Power Amps:	
Output power, Subwoofer: .....	1000 W EIAJ, Class D @ 4 ohms
Output power, Mid/High: .....	1000 W EIAJ, Class D @ 4 ohms
Protection circuits: .....	DDO Pro™ Limiter, thermal protect, short-circuit
Line In/ Through:.....	Female XLR, electronically balanced & floating
Mid/High Out: .....	1 Speakon® NL 4
Mains In/ Out: .....	2 Powercon
Networking/ Communication: .....	DDO Pro™ Net/RS 485 Ethercon
Woofer: .....	18"
Frequency response - 10 dB: .....	36 Hz - fx
Frequency response+/- 3 dB: .....	42 Hz - fx
Sensitivity 1W@1m 1): .....	101 dB
Max. SPL calculated 1): .....	134 dB 2)
Max. SPL peak 1): .....	133 dB
Max. SPL 1):.....	130 dB @ 10% THD (50 Hz- 200Hz)
Housing (birch):.....	18 mm (3/4"), 13-ply
Surface coating:.....	Black 2-component PU lacquer
Grille: .....	Metal grille with black acoustic foam
Handles: .....	6 slot grips routed into the side panels, 1 on the lid
Pole mount:.....	M20
Weight: .....	59 kg/ 129.8 lbs.
Dimensions (W x H x D): .....	51 x 73 x 71 cm, 20" x 28 3/4" x 27 7/8"
Accessories:.....	Protective cover, stack base plate

1) Measured under half-space conditions 2) Based on peak power handling

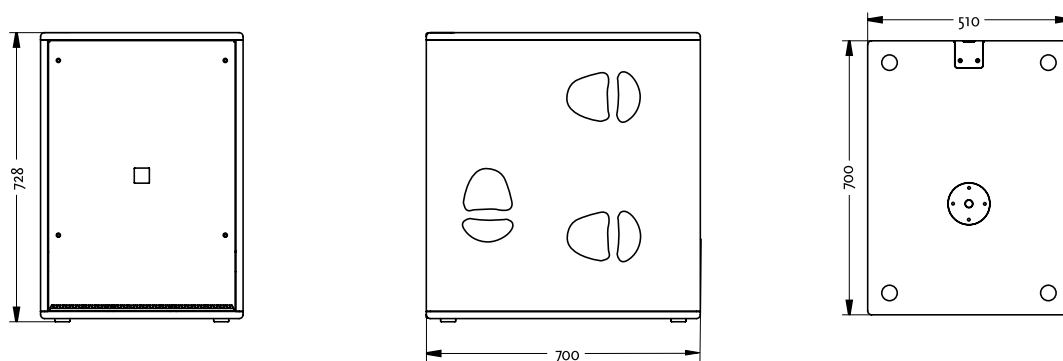


Fig. 4: CTA 118 Sub housing dimensions in mm