



## Sound Skulptor CP4500 User manual

### Installation

The lunchbox (or rack ) hosting the CP4500 must be installed in a well ventilated area. Do not omit the 2 fixing screws on the module front plate before moving. The weight could put too much pressure on the back connector. Avoid placing the unit near an electromagnetic radiating source such as another device with a power supply transformer.

### Connections

The CP4500 is connected to the rear female XLR for the audio source and to the rear male XLR for output.  
Pin 1 = Ground, Pin 2 = Hot, Pin 3 = Cold.



#### 1. RATIO

Rotary switch that sets the compression ratio to 2, 4 or 10.

#### 2. ATTACK

Rotary switch that sets the attack time from 0.1 to 30 milliseconds.

#### 3. HP

Inserts a 50, 100 or 200 Hz high-pass filter in the side-chain. Produces a Fat sound and eliminates bass driven pumping.

#### 4. RELEASE

Rotary switch that sets the release time from 0.05 to 1.2 second. The AUTO position is a program dependent automatic release time.

#### 5. Meter

Analog meter displays the dB gain reduction.

#### 6. IN

Compressor bypass (hardware by relay).

#### 7. THRESHOLD

Potentiometer that sets the input level at which compression begins.

#### 8. HF LIFT

Inserts a high boost filter in the side chain. Combined with the High-Pass it evens the audio energy in low and high bands and gives a very natural sounding to the compressed output.

#### 9. HF LIFT

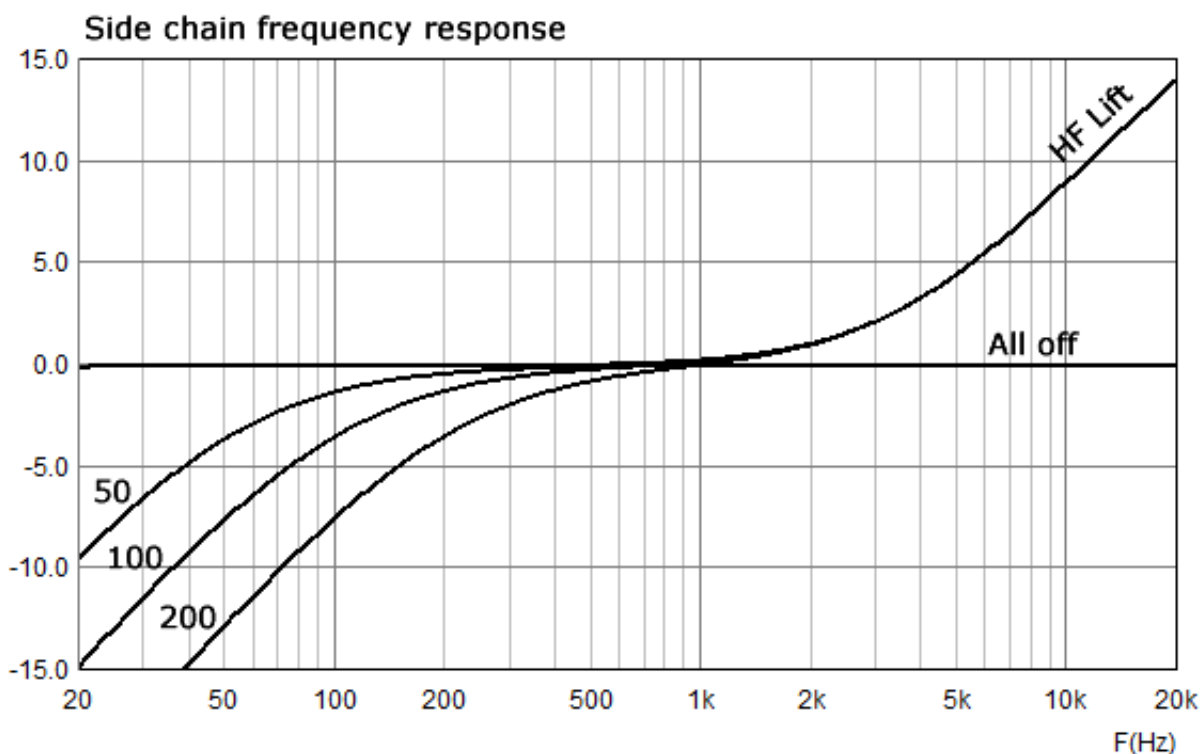
Potentiometer that restores the signal level after being compressed (make up gain).

#### 10. MIX

Potentiometer that mixes the direct unprocessed signal with the compressed signal (0 to 100%) for parallel compression.



## Frequency response of the side chain filters



## Technical specifications

Measure	Conditions	Value
Noise	input shunted with a 50Ω resistor Low pass @30kHz	<-93 dBu
Maximum output level before clip	f= 1 kHz	+27.5 dBu
Dynamic range		> 120 dB
Frequency response	Deviation= +/-0.2 dB	10Hz - 100kHz
Idle supply current	No input signal	V+ : +130 mA V- : -125 mA
Input impedance	f= 1 kHz	24 kΩ
Maximum input level		+27.5 dBu
Output impedance		50Ω
THD + Noise f= 1 kHz	without gain reduction	< 0.005%