



Description

The SUB 20 A is an active, very compact subwoofer with 200 watts of amplifier power and professional features. It produces remarkable bass levels thanks to a high-power 6.5" long excursion driver in a double-vented bandpass cabinet. Thanks to its slim design, compact dimensions and defined sound outlets, it can be easily concealed in furniture and fittings.

The SUB 20 A has four different inputs (mono RCA, stereo RCA, symmetrical XLR and screw-type terminals for speaker level) as well as limiters, automatic switch-on, a continuously adjustable crossover frequency and ground lift switches.

For easy integration into larger installations, the SUB 20 A has the same remote control functions as our amplifiers in the PA series: a contact for remote ON/OFF and a VCA input for synchronous volume control. The connectors are recessed to ensure that the plugs and cables can be hidden from sight.

Key Features

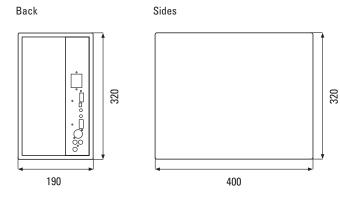
- Active bandpass subwoofer
- Very compact design
- 6.5" long excursion driver
- · 200 watts amplifier power
- · Cinch, XLR and speaker level inputs
- Auto ON/OFF
- Peak Limiter
- Stand-by contact
- VCA input
- Standard finish: white and black

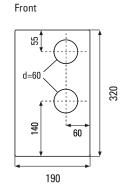
Fields of Application

- Conference rooms
- Exhibitions, trade fairs
- · Gastronomy, hotels
- · Home audio
- Shops, sales rooms
- · Surround systems



Dimensions





Technical Data

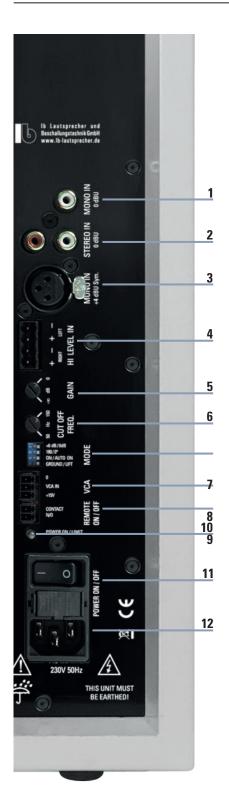
Principle	Active double vented bandpass	
	subwoofer	
Components	Adjustable input sensitivity, switchable gain 0/+6 dB, peak limiter, steplessly adjustable crossover frequency 50 Hz – 150 Hz (36 dB/oct.), switchable phase 0°/180°. Subsonic filter 35 Hz, automatic switch-on circuit, cutoff with 5 min. delay, manual ON/OFF, ground lift switch, remote volume control via external panel (WP-V) or via DV module and UP/DOWN contacts, control voltage 0–15 V, 0 V = max., 10 V = -80 dB, 15 V = mute, stand-by contact (N/O)	
Amplifier section		
Inputs	Mono cinch, stereo cinch, balanced XLR, speaker level input with screw-type terminals	
Frequency range	38 Hz – 130 Hz	
Amplifier output	200 watts	
Maximum SPL	114 dB @ 1 m, half-space	
Power supply	230 V AC	
Dimensions (W \times H \times D)	$190 \times 320 \times 400$ mm (without rubber feet)	
Weight	8 kg	
Cabinet	Plywood, semi-matt varnish	
Mains	IEC connector	
Input sensitivity	Switchable: Cinch 0 dBu/-6 dBu XLR +4 dBu/-2 dBu Speaker level 20 V eff./ 10 V eff.	
Warranty	5 years	

Model	Order-No.	Version
SUB 20 A White	1310-0003	RAL 9016
SUB 20 A Black	1310-0004	RAL 9005

Other colours and versions on request



Amplifier backside with controls



1 MONO IN (0 dBU)

Mono cinch input for subwoofer signals, for example directly from AV receivers.

2 STEREO IN (0 dBU)

Stereo cinch input for audio signals. The subwoofer is connected parallel to the amplifier for the satellite speakers and provides internally for sum-to-mono.

- 3 MONO IN IN (symmetrical, +4 dBU) Symmetrical mono input (XLR) for connection to professional sound systems.
- 4 HI LEVEL IN (+28 dBU / 20Vrms)
 Stereo input for high-level signals.
 The subwoofer is connected parallel to the amplified signals of the satellite speakers and provides internally for sum-to-mono. This input is also suitable for full-bridge amplifier outputs.

5 GAIN

Fader control for adjusting the maximum level.

6 CUT OFF FREQ.

Potentiometer for adjusting the upper crossover frequency. The crossover frequency can be adjusted freely here to between 50 and 150 Hz and should be adapted to the satellite speakers in the system. The filter slope is 36 dB per octave.

7 MODE

7.1 + 6 dB / 0 dB

Switchable gain for increasing input sensitivity for weak signal sources.

7.2 180°/0°

To adapt the phase in the frequency range to the satellite speakers, the phase can be switched between 0° and 180°.

7.3 ON/AUTO ON

With the switch set to ON, the subwoofer is permanently on. With the switch set to AUTO ON, the automatic switch-on function is activated, and the subwoofer is switched off after approx. 5 minutes when not receiving an audio signal.

7.4 GROUND/LIFT

With the switch set to GROUND, the audio ground is connected to the protective ground conductor. To prevent ground loops, hard grounding in the LIFT switch setting is not implemented for the audio ground.

8 VCA

Input for external volume control using our WP-V and RP-V volume controllers, with the DV module (digital volume control module) and up/down contacts or with 0 - 10 V dimmer actuators (0 V = nominal gain, 10 V = -80 dB reduction, 15 V = mute).

9 REMOTE ON/OFF

Using this contact, the subwoofer can be switched off using an isolated contact.

10 LED POWER ON/LIMIT

11 POWER ON/OFF

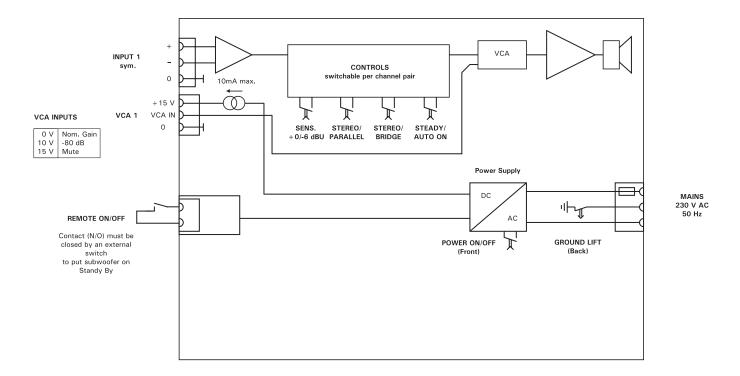
Mains switch.

12 Low-voltage mains connection

Connect to the mains supply using the power cable provided.



Block Diagram



Measuring Diagram

SUB 20 A frequency response (high-cut 50/80/110/150~Hz)

