



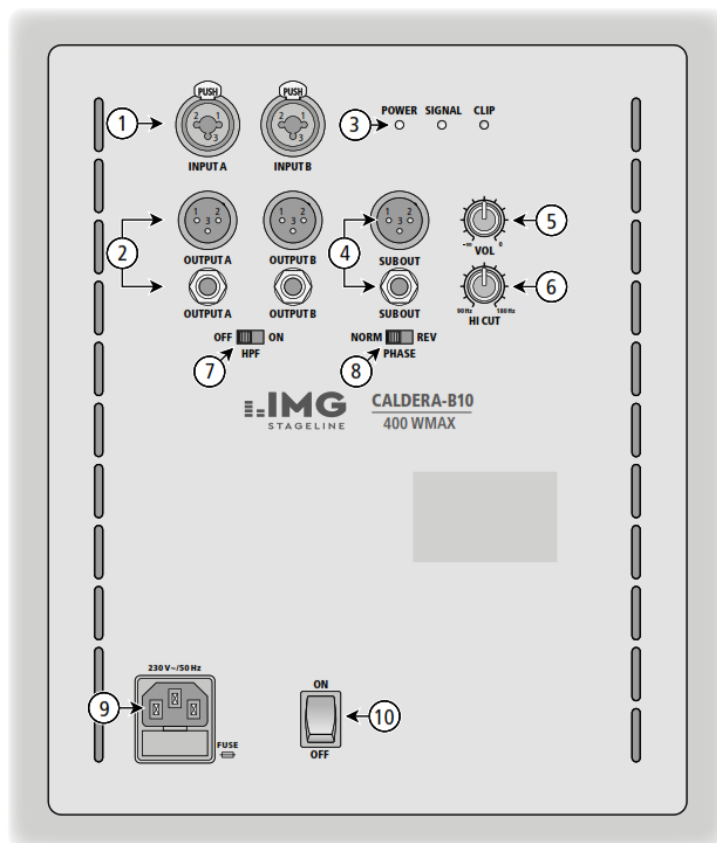
# IMG STAGELINE CALDERA-B10 Active Subwoofer System Instruction Manual

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**IMG**  
STAGELINE  
Aktiv -Subwoofer  
Active Subwoofer System



CALDERA – B10  
Bestill-Nº • Order No. 1000303  
INSTRUCTION MANUAL



### Active Subwoofer

These instructions are intended for users with basic knowledge of PA technology. Please read the instructions carefully prior to operation and keep them for later reference.

All control elements described can be found in the figure on page 2 .

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### Overview

1. Inputs INPUT A / INPUT B (combined XLR / 6 .3 mm jacks)
2. Feed-through outputs (XLR and 6 .3 mm jacks) to route the audio signals of INPUT A / INPUT B to active speakers, for example, for mid-high range reproduction
3. Status LEDs
  - POWER power indicator
  - SIGNAL lights up when the signal level is sufficient
  - CLIP lights up to indicate overload of the amplifier
4. Output SUB OUT (XLR and 6 .3 mm jack) for an additional active subwoofer or a subwoofer with a separate amplifier

5. Volume control VOL
6. Control HI CUT to set the cutoff frequency for the low-pass filter (upper-frequency limit for the subwoofer)
7. Switch HPF (high-pass filter) for the feedthrough outputs OUTPUT A / OUTPUT B:  
**OFF output of the whole input signal**  
**ON output of the high frequencies and midrange frequencies only**
8. Switch PHASE to reverse the polarity of the signal  
**NORM same polarity as the input signal**  
**REV polarity inverted compared to the input signal**
9. IEC connector to connect the subwoofer to a mains socket (230 V/ 50 Hz) via the mains cable provided
10. ON / OFF switch

## Safety Notes

The product corresponds to all relevant directives of the EU and is therefore marked with.

The product corresponds to all relevant UK legislation and is therefore marked with UKCA .



**WARNING** The product uses dangerous mains voltage. Leave servicing to skilled personnel and do not insert anything into the air vents! Risk of electric shock!

- The product is suitable for indoor use only.

Protect it against dripping water, splash water, and high air humidity. The admissible ambient temperature range is 0 – 40 °C.

- Do not place any vessels filled with liquid, e . g . drinking glasses, on the product.
- The heat produced inside the product must be dissipated by air circulation; never cover the air vents.
- Do not use the product and immediately disconnect the mains plug from the socket
  - 1 . if the product or the mains cable is visibly damaged,
  - 2 . if a defect might have occurred after the product was dropped or suffered a similar accident,
  - 3 . if malfunctions occur. Any repairs must be carried out by specialists.
- Never pull the mains cable to disconnect the mains plug from the socket, always seize the plug .
- For cleaning the product, only use a dry, soft cloth; never use water or chemicals .
- No guarantee claims for the product and no liability for any resulting personal damage or material damage will be accepted if the product is not correctly used or not expertly repaired.



■ If the product is to be put out of operation definitively, dispose of the product in accordance with local regulations.

## Applications

This compact active subwoofer is used as a low-frequency addition to existing sound systems for hi-fi applications, home cinema and home recording. It is equipped with a 25 cm (10") bass speaker. Its amplifier offers a peak output power of 400 W . The subwoofer features an adjustable lowpass filter, volume control and a phase reversal switch. An automatic limiter will protect the speaker against overload. Two line-level inputs are provided, each with a feed-through output. A high-pass filter can be activated for the feed-through outputs allowing connection of sound systems for mid-high range reproduction (satellites) and for full-range reproduction. In addition, there is an output for connecting another active subwoofer.

## Setting Up and Connecting

Set up the subwoofer on a flat surface. It is not important to place the subwoofer exactly in the middle between the stereo speakers as it will not be possible to precisely locate the very low frequencies reproduced by the subwoofer. However, do not place the subwoofer too close to walls or in corners; this will distort the frequency response and impede any heat dissipation of the integrated amplifier. Furthermore, do not cover the bass-reflex opening on the back. Before connecting or changing any existing connections, switch off the subwoofer and the devices to be connected.

### 4.1 Connecting an audio source

Combined XLR / 6.3 mm jacks INPUT A / INPUT B (1) are available to connect an audio source with line level (e.g. mixer output, preamplifier, line output of a computer). The signals of the two jacks are mixed to a mono signal for the subwoofer. The jacks are balanced. To connect audio sources with unbalanced signals, use a 2-pole 6.3 mm plug for the 6.3 mm jack or a corresponding adapter for the XLR jack. If the outputs of the audio source are already being used by the existing sound system, the sound system can be connected to the feed-through outputs of the subwoofer (chapter 4.2).

### 4.2 Sound system

The existing sound system can be connected to the outputs OUTPUT A / OUTPUT B (2). Use the switch HPF (7) to define whether the whole signal of the inputs INPUT A / INPUT B (1) (OFF; for full-range speakers) or only the mid-high range part of the signal (ON; for satellite speakers) will be sent to the sound system.

### 4.3 Additional subwoofer

An additional active subwoofer or the amplifier of an additional subwoofer can be connected via the jacks SUB OUT (4). The output signal depends on the settings of the controls VOL (5) and HI CUT (6).

### 4.4 Power supply

For power supply, use the mains cable provided to connect the IEC connector "230 V~/ 50 Hz" (9) to a mains socket (230 V/ 50 Hz).

## Operation



**CAUTION** Never adjust the audio system to a very high volume. Permanent high volumes may damage your hearing!

**Note:** To avoid switching noise, always switch on the audio sources before switching on the subwoofer. After use, switch off the subwoofer before switching off the audio sources.

1. To prevent the initial volume from being too high, turn the volume control VOL (5) to the left stop (position "–∞") before switching on for the first time.
2. Use the ON/OFF switch (10) to switch on the subwoofer. The LED POWER (3) lights up.
3. Reproduce sound, e.g. music, via the existing sound system, and add the desired low bass part using the control VOL (5). Only turn up the control so far that the sound reproduced is not distorted.  
The LED SIGNAL (3) lights up when the signal level is sufficient. If the LED CLIP (3) lights up, the level is too high, and the signal is distorted. In this case, turn back the control VOL or reduce the output level of the audio source.
4. Use the control HI CUT (6) to adjust the cutoff frequency of the low-pass filter so that the subwoofer will optimally complement the frequency response of the other speakers. Readjust the volume balance with the control VOL if necessary.
5. If the speakers are placed at different distances from the listener, phase cancellation may occur (the volume of certain frequencies will be reduced).

To compensate this effect, use the switch PHASE (8) to reverse the phase of the subwoofer signal.

Test both switch positions to find the position offering the bass reproduction of the highest volume at the listening position. Readjust the volume balance with the control VOL if necessary.

## Specifications

System: . . . . . active subwoofer, bass reflex

### Amplifier power

Power rating: . . . . . 300 W

Peak power: . . . . . 400 W

Frequency range: . . . . 25 – 180 Hz

Low-pass filter

(HI CUT): . . . . . 90 – 180 Hz, 15 dB / oct .

### Speaker

Diameter: . . . . . 25 cm (10")

Sensitivity: . . . . . 88 dB / W/ m

Max . SPL: . . . . . 114 dB

### Inputs

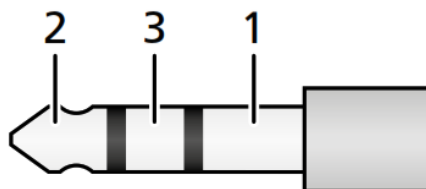
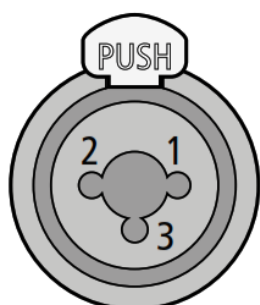
Sensitivity: . . . . . 300 mV

Max . input level: . . . 5 .3 V

Impedance: . . . . . 11 k $\Omega$

Connection: . . . . . XLR / 6 .3 mm jack, balanced

### Pin configuration:



1	ground
2	signal +
3	signal –

### Outputs

OUTPUT A / B

Level: . . . . . same as INPUT A / B

High-pass filter: . . 200 Hz, 12 dB / oct ., adjustable

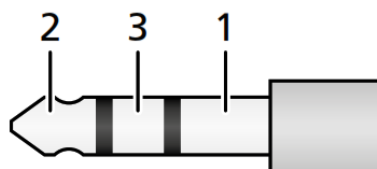
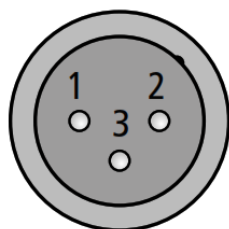
Connection: . . . . . XLR and 6 .3 mm jack, balanced

### SUB OUT

Rated level: . . . . . 850 mV

Connection: . . . . . XLR and 6 .3 mm jack, balanced

### Pin configuration:



1	ground
2	signal +
3	signal –

Power supply: . . . . . 230 V/ 50 Hz

Power consumption: . . 560 VA

Ambient temperature: 0 – 40 °C

Cabinet material: . . . . MDF wood

Dimensions

Width: . . . . . 350 mm

Height: . . . . . 375 mm

Depth: . . . . . 430 mm

Weight: . . . . . 16 kg

Subject to technical modification.

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A-2101.99.01.11.2021




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## Documents / Resources

 <p>Active-Subwoofer Active Subwoofer System</p> <p><b>CALDERA-B10</b> <small>Model No. A-2101.99.01.11.2021</small></p> <p>BEDIENUNGSANLEITUNG INSTRUCTION MANUAL</p>	<p><a href="#">IMG STAGELINE CALDERA-B10 Active Subwoofer System</a> [pdf] Instruction Manual CALDERA-B10, Active Subwoofer System, Active Subwoofer, Subwoofer System, CALDERA-B10, Subwoofer</p>
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