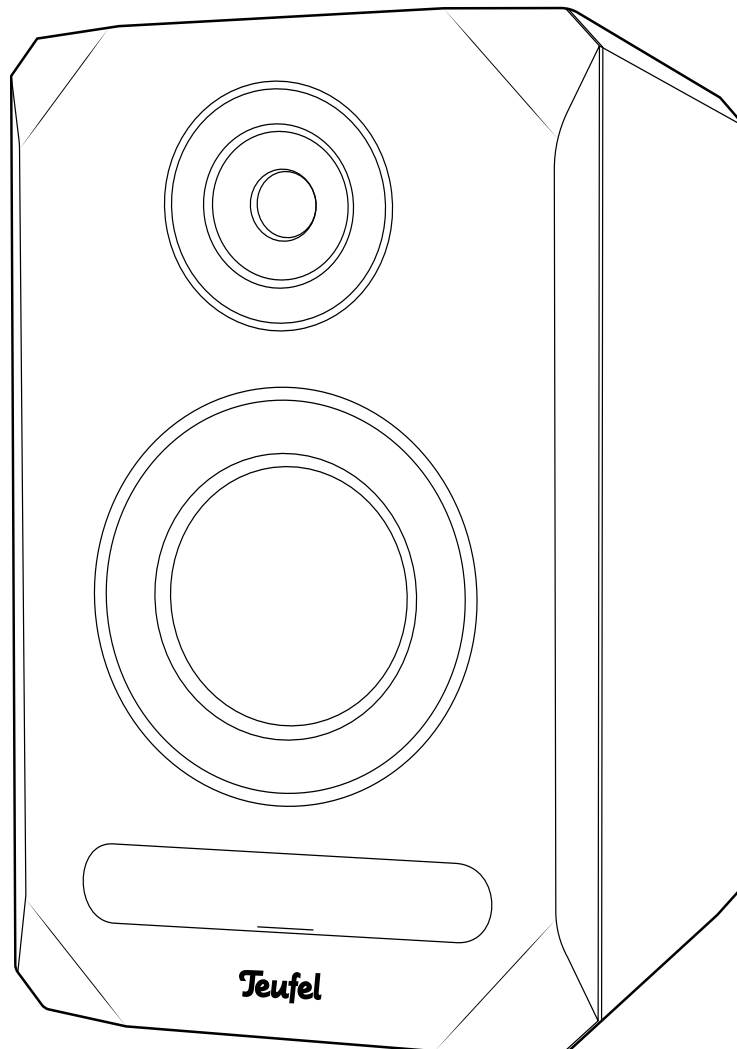


Technical Description And User Manual



STUDIO 5X

Precision nearfield monitor

Teufel

Contents

Contents	2
General Notes And Information	3
Original packaging	3
Complaints	3
Contact	3
Intended use	3
Overview	4
Unpacking	4
Package contents	4
Checking the package contents	4
Operational Controls And Connections	5
Back side	5
Connecting	7
Mains connection	7
Activating and deactivating	7
Front LED indicators	7
Input	7
Multiple Inputs (Signal Mixing)	7
Stereo link	8
Tuning	8
Settings	8
Placement compensation	8
Updating	8
Care And Cleaning	9
Troubleshooting	10
Technical Data	11
Declaration of conformity	11

General Notes And Information

Original packaging

If you wish to exercise your right of return, we ask that you be absolutely sure to hold onto the packaging. We can only accept product returns with the ORIGINAL PACKAGING.

Empty boxes are not available!

Complaints

In case of a complaint we will need the following information to process your enquiry:

1. Invoice number

Can be found on the sales slip (enclosed with the product) or on the order confirmation received as a PDF document, e.g. 4322543

2. Serial number or batch number

Located on the back side of the device, e.g. serial no.: KB20240129A-123.

Thank you for your support!

Contact

Please contact our customer service with any questions, suggestions or criticism:

Lautsprecher Teufel GmbH

BIKINI Berlin

Budapester Str. 44

10787 Berlin (Germany)

Phone 00800 - 200 300 40 (toll-free)

Fax: +49 (0)30 / 300 930 930

Service:

www.teufelaudio.com/service

Contact:

www.teufelaudio.com/contact

Intended use

The near-field monitor is intended for the playback of music and speech from an external audio source.

Use the near-field monitor only as described in this user manual. Any other use is deemed improper and may result in damage to property or even personal injury.

The manufacturer accepts no liability for damage caused by improper use.

The near-field monitor is intended for use in private environments.



Before operating the product for the first time, please read the safety notes and user manual carefully. Only in this way can you ensure that all functions are used in a safe and reliable manner. Store the user manual in a safe place and also be sure to pass it on to any subsequent owner.

NOTICE

Check that all items have been delivered and that nothing is damaged. If you find any damage, do not operate the device; instead contact our customer service department.

Overview

Unpacking

- Carefully open the box and carefully lift the speaker out of the box.

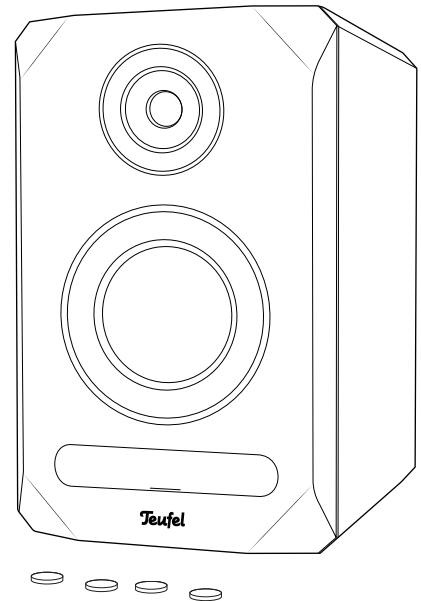
Package contents

- ① 1× Studio 5X active speaker with 4 rubber feet
- ② 1x mains cord for the speaker

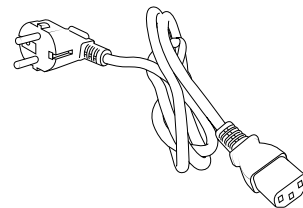
Checking the package contents

- Check that all items have been delivered and that nothing is damaged.
- If the delivery is incomplete or exhibits transport damages, please contact our service team (see page 3).
- Do not in any case operate the device if it is damaged.

①

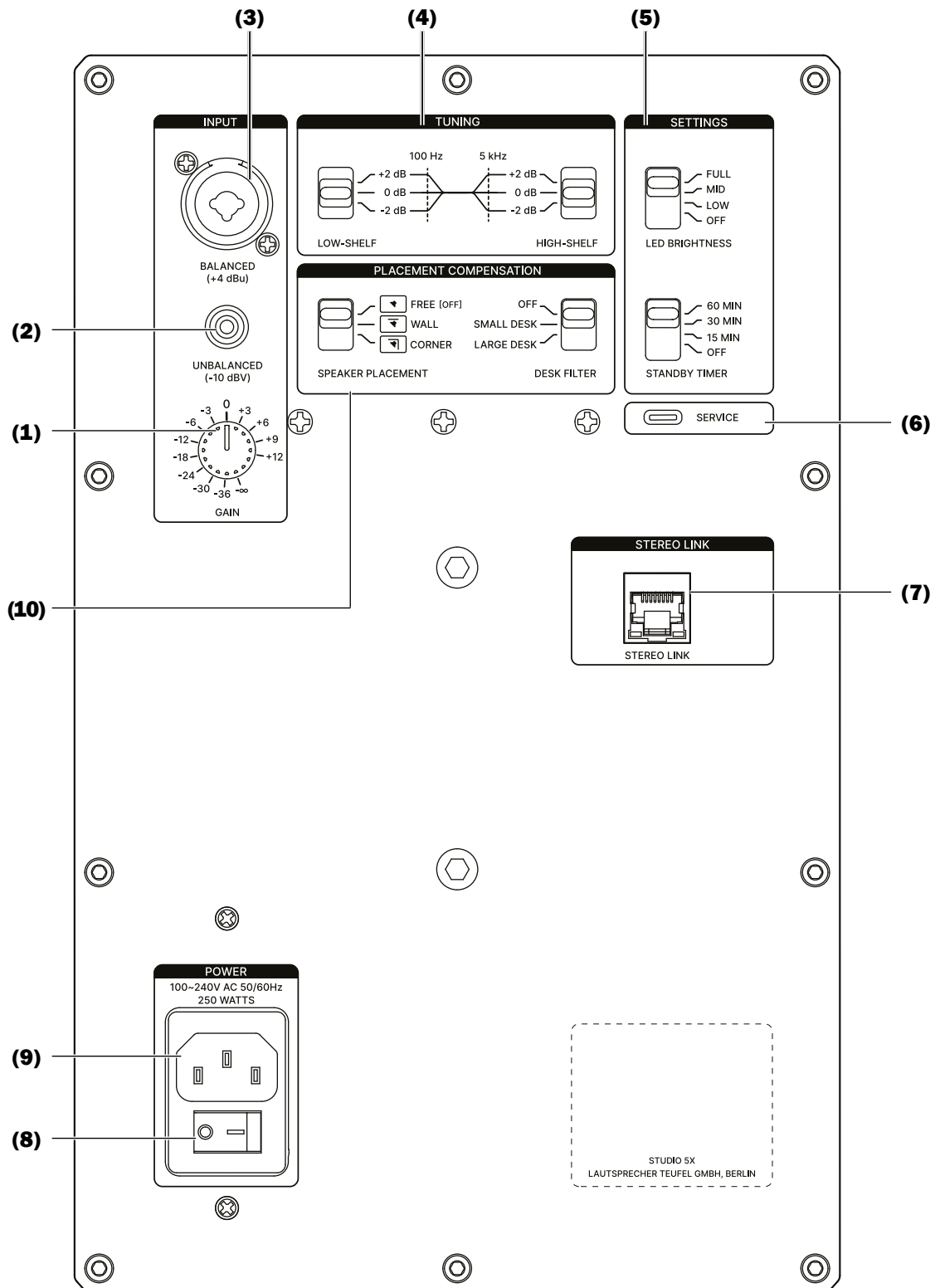


②



Operational Controls And Connections

Back side



INPUT

- 1** Gain - adjusts the input sensitivity to match your audio source level.
- 2** Unbalanced input (RCA) - for connecting unbalanced semi-professional audio equipment via RCA plug.
- 3** Balanced input (XLR/TRS) - for connecting balanced professional audio equipment (e.g., audio interfaces, mixers) via XLR or 1/4" TRS (6.3mm) plug

4 TUNING

Low-shelf - Selects the amount of low-frequency boost or cut (-2 dB, 0 dB, +2 dB)

High-shelf - Selects the amount of high-frequency boost or cut (-2 dB, 0 dB, +2 dB)

5 SETTINGS

LED brightness - Controls the brightness level of the front panel LED

Standby timer - Sets the automatic standby timer; switches off after selected inactivity period

- 6 SERVICE** - for firmware updates

7 Stereo link (RJ45 port)

Connects to a Studio 5X BT for stereo playback

POWER

- 8** On/Off switch
- 9** Power inlet

10 PLACEMENT COMPENSATION

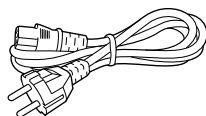
Speaker placement - adjusts acoustic compensation based on speaker position relative to walls and corners; set to Free (Off) if not close to a wall or in a corner

Desk filter - selects compensation preset to counteract desk surface reflections; set to OFF if not on a desk.

Connecting

Mains connection

1. If necessary, ensure that the main power switch **POWER (8)** is switched off ("OFF" position).



2. Insert the IEC power plug of the mains cord into the jack **(9)**
3. Insert the mains plug in a mains power socket (100 - 240V AC / 50-60 Hz).

Activating and deactivating

- Press the On/Off switch **(8)** to activate and deactivate the device.

Front LED indicators

The front LED provides status information about your monitor.

Normal operation:
LED stays solid white

Input clipping:
LED fast flashing red

- To correct this, reduce the level of the signal being sent to the monitor (see chapter "Troubleshooting").

Output clipping:
LED solid on red

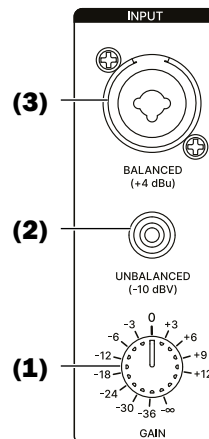
- To correct this, reduce playback levels using the relevant controls (see chapter "Troubleshooting").

Overheating:
LED slow flashing red while device is waiting for temperature to drop back to operational range.

Monitoring the LED can help you maintain clear sound and prevent damage to the speaker.

Input

You can connect your audio source to this device using the following input options:



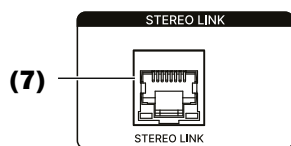
- **Balanced input (3):** connect a professional line-level (+4 dBu nominal, +13 dBu max.) signal using a balanced XLR or TRS (1/4" jack) connector from a monitor controller, audio interface, mixer or other audio equipment.
- **Unbalanced input (2):** to connect with a RCA jack, accepting an unbalanced line-level (-10 dBV nominal, +2 dBV max.) signal from devices such as audio interfaces with unbalanced RCA outputs or other semi-professional audio sources.
- **Gain control (1):** Adjust the input sensitivity to match the level of your audio source. Turn the knob clockwise to increase gain, or counterclockwise to decrease it. 0 dB (12 o'clock) position is suitable for most audio interfaces available on the market.

Multiple Inputs (Signal Mixing)

This speaker's audio inputs are active at the same time. If you connect sound sources to more than one input, the signals will be mixed together.

- To avoid unwanted mixing, additional noise floor or distortion, connect only one source at a time unless you specifically wish to operate them at the same time.

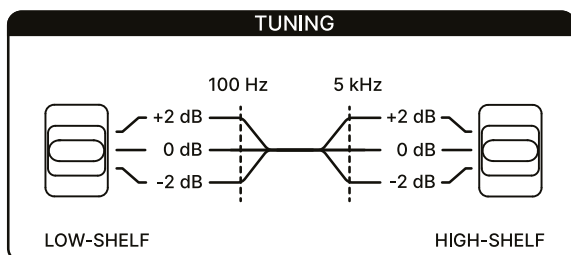
Stereo link



- Stereo link connection **(7)**: to connect Studio 5X BT for stereo audio playback with a RJ45 speaker link cable.

Tuning

The tuning controls **(4)** allow you to adjust the sound character of your speaker. Both controls are optional.



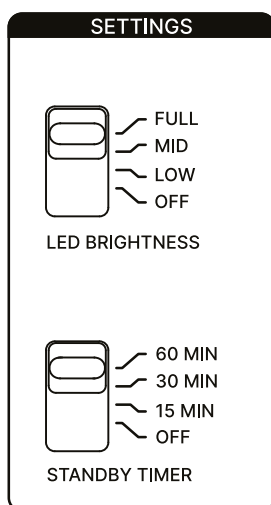
If necessary:

Use the low-shelf and high-shelf knobs to boost or cut frequencies below 100 Hz and above 5 kHz, respectively.

Turn the controls to tailor the bass and treble response to your listening environment or personal preference.

Settings

Use the settings controls **(5)** to configure LED brightness and standby timer functions.

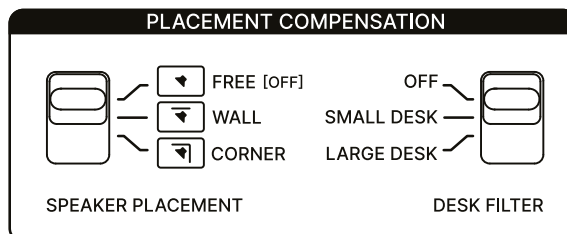


The LED brightness can be set to full, mid, low, or off.

The standby timer can be selected at 60 minutes, 30 minutes, 15 minutes, or off, allowing the device to automatically enter standby mode after the chosen period without playback or user interaction.

Placement compensation

The placement compensation **(10)** section helps you optimize the sound based on the speaker's in-room placement and placement on a desk.



For the Speaker Placement knob/control:

select Free when the speaker is placed farther away from a wall or corner (approx. > 0.5 m / 1.6 ft.).

Select Wall or Corner when the speaker is placed close to a wall or in a corner, to compensate for the additional bass boost occurring in these placement situations.

For the Desk Filter knob/control:

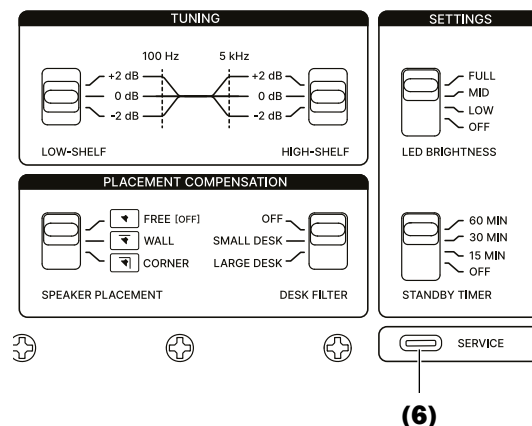
select Off when the speaker is not placed on or directly in front of a desk.

When the speaker is placed on or directly in front of a desk, select Small Desk or Large Desk, depending on the size of your desk, to compensate for typical irregularities occurring in the lower mid frequency range.

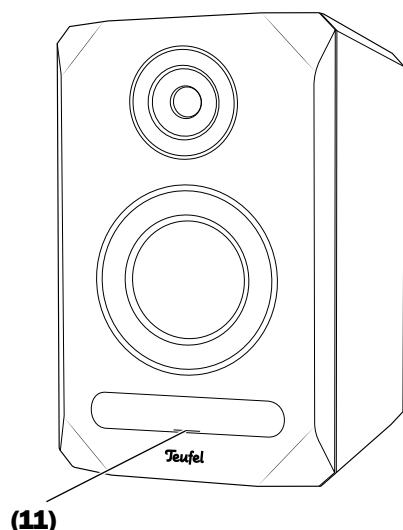
Updating

To update the firmware:

1. Download the update file from the Teufel website and save it to your computer.
2. Switch off the Studio 5X.



3. Connect a data-capable USB-C cable (not included) to the USB-C port of the Studio 5X and to an available USB port on your computer. Use a USB-C to USB-A or USB-C to USB-C cable depending on the ports available on your computer.
4. Switch on the Studio 5X.
The front LED will begin flashing red in a repeating pattern, indicating that the device has entered update mode.
A removable drive named "TEUFEL" will appear in your computer's file explorer.
5. Copy the update file to the "TEUFEL" drive.
6. Once the file transfer is fully complete, switch off the Studio 5X and wait until the flashing red LED has turned off completely.
7. Disconnect the USB cable, then switch the Studio 5X back on.
8. If the front LED **(11)** lights solid white after the boot sequence, the update has been completed successfully.



Care And Cleaning

NOTICE

External influences may damage or destroy the device.

- If the device is to be left unattended for a prolonged period of time (e.g. during a vacation) or if a thunderstorm is forecast, pull the mains plug out of the socket. Otherwise, sudden overvoltage could cause the device to become defective.
- If possible, only use plain water without any additives. In case of stubborn marks, a mild soap solution may be used.
- Do not use caustic cleaning products, white spirit, thinners, petrol or similar under any circumstances. Such cleaning agents may damage the delicate surface of the housing.

Housing:

- Remove dust or small amounts of dirt with a dry, smooth leather cloth.
- Use a damp cloth to rub off stubborn dirt. Make sure that no liquid penetrates the housing.
- Then immediately wipe the damp surfaces off with a soft cloth without applying pressure.
- Ideally, you should remove dust or small amounts of dirt with a dry, smooth leather cloth.
- Use a damp cloth to rub off stubborn dirt. Make sure that no liquid penetrates the housing.
- Then immediately wipe the damp surfaces off with a soft cloth without applying pressure.

Speaker cones:

- Do not touch the speaker cones. To remove dust, use a soft, fine-bristled brush only and work carefully to avoid damage. Do not use any liquids.

Troubleshooting

Problem	Possible cause	Solution
LED lights solid red during playback.	Speaker output is overdriven.	Reduce volume on the source device or on the speaker, or lower the gain control.
LED fast flashes red during playback.	Speaker input is overdriven.	Reduce the level from the input/source device.
LED slow flashes red.	Device is overheated.	Device is waiting for temperature to drop back to operational range.
LED doesn't light up.	LED brightness may be set to off.	Turn up LED brightness via the settings interface.
Device has no sound	Device may be switched off or there may be a problem with the mains connection.	Check if the power button is set to On and if the wall socket has power.

Technical Data

Dimensions (WxHxD)	213 x 328 x 260 mm
Weight	7.33 kg
Operating voltage	110 - 240 V AC / 50-60 Hz
Max. power consumption	250 watts
Audio Input Specifications	
XLR	1 × XLR / 6.3mm TRS combo jack, balanced (+4dBu nominal input level, +13 dBu max.)
RCA	1 × RCA, unbalanced (-10dBV nominal input level, +2 dBV max.)

You can find further technical data on our website. Technical changes reserved!

Declaration of conformity



Lautsprecher Teufel GmbH declares that this product complies with the relevant European and national directives. The full text of the CE Declaration of Conformity can be found at this web address:

www.teufel.de/konformitaetserklaerungen

www.teufelaudio.com/declaration-of-conformity



Please contact our customer service department with any questions, suggestions, or complaints:

teufelaudio.com
teufel.de
teufel.ch
teufelaudio.at
teufelaudio.nl

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teufelaudio.fr
teufelaudio.pl
teufelaudio.it
teufelaudio.es

Telephone: 0800 200 300 40 (toll- free)

Online support: teufelaudio.com/support

Contact: teufelaudio.com/contact

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