

collaxx Bluetooth-Player



mounting and usage manual

Operation hints

Faultless operation of this device can only be guaranteed, if the following hints are respected. Since violating these hints also voids product warranty, it is necessary to carefully read and respect them.

The device must only be used with the power supply it was shipped with. Connecting a different or additional power supply is not necessary and may damage the device. Changes to the device must not be done. This may lead to damage of the device or other connected components. Warranty voids if the enclosure is opened or the device is exposed to high temperatures or high humidity.

The device must not be mounted directly inside a sauna, infrared cabin or steam bath. It is unlike collaxx-colorlights not made to operate in such environments.

Liquids or conductive materials must not reach the inside of the device. In case this happens, disconnect the device immediately. It must be tested, cleaned and maybe even repaired by an authorized expert.

Do not place heavy things on the device. Transport the device carefully and do not drop it. Make sure that the device is mounted properly during operation. People may be insured otherwise.

Do not operate the device next to strong sources of interference (e.g.: monitors, microwaves, power supplies, computers) as this may lead to radio transmission problems.

Disclaimer

The manufacturer denies liability for wrong or incomplete information as well as translation mistakes in this manual.

Product may be subject to changes without notice.

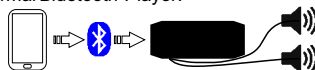
Introduction:

The collaxx Bluetooth-Player is an amplifier with Bluetooth reception, which provides the possibility to drive two speakers with a stereo signal. To supply the device with an audio signal without Bluetooth, the 3.5mm Line-In connector can be used. Additionally, the audio signal is permanently output on a 3.5mm Line-Out connector.

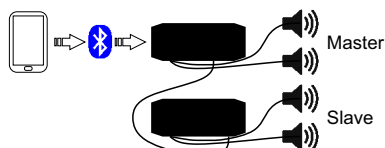
A digital signal processor was integrated into this device, which will protect and improve the characteristics of connected speakers. The Line-Out connector will still always provide the unmodified audio signal.

Usage examples:

As normal Bluetooth-Player:



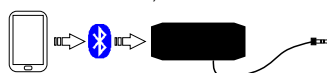
Cascading multiple Bluetooth-Players to drive more than two speakers:



Usage without Bluetooth function as pure Line-In amplifier:



Usage as "Bluetooth to 3,5mm Connector" device:



Mounting:

1. Mount the Bluetooth-Player with the screws which were shipped with the device at a suitable and accessible place outside of the cabin. The distance to the cabin should only be few metres.
2. Mount the speakers and connect them to the device.
3. Connect the Bluetooth-Player to the power supply which was shipped with it.

Line-Out/Line-In pinout:

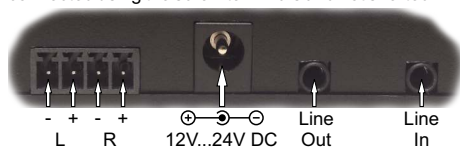
The Line-In and the Line-Out connector are 3-terminal elements with the usual pinout. For a conventional stereo jack this means the following:

- 1 ground
- 2 right channel
- 3 left channel



Speaker and power supply pinout:

Speaker wires need to be connected using the screw terminals which were shipped with the device as labelled in the following picture. The power supply should be connected after the speaker wires are properly connected using the screw terminals and not shorted.



Usage of a remote control

A wall remote control and a hand remote control are optionally available for the Bluetooth-Player.



They can control the audio functions of a connected Bluetooth device via the collaxx Bluetooth-Player. This way the Bluetooth device (e.g. a smartphone) can stay outside of the sauna cabin and still be controlled from inside.

The remote controls provide 4 functions:



Send a play or pause command to the playing Bluetooth device.



Send a skip command to the playing Bluetooth device.



Send a backward command to the playing Bluetooth device.



Turn the volume up or down by turning the wall remote control clock- or counter clock wise.



Pressing the buttons minus/plus on the hand remote control turns the volume down/up.

Synchronizing a remote control

To control the Bluetooth-Player using a remote control they need to be synchronized. The devices are shipped in this state. The synchronization can nevertheless be done again at any time.

Every remote control has it's own unique radio identification number. The player reacts only to the remote control which he was synchronized to. The synchronization can be done by the following procedure:

1. Disconnect the Bluetooth-Player from it's power supply.
2. Wait for 15 seconds.
3. Connect the power supply again.
4. Press the Play/Pause key of the remote control within 10 seconds. The RF-LED at the Bluetooth-Player will flash green as confirmation.
5. The Bluetooth-Player was synchronized to the remote control. After a short period of time the flashing of the RF-LED will turn into a permanently green light. This shows the synchronized state. The Bluetooth-Player will now only accept the messages of this remote control.

Only in the first 10 seconds it's possible to overwrite the synchronization of a Bluetooth-Player. If you waited too long or turned the Bluetooth-Player off you can redo the synchronization process at any time.

It is not possible to synchronize two different remote controls to one Bluetooth-Player. Remote controls with identical radio identification numbers can be manufactured on request though.

Establishing the connection to another Bluetooth device

Establishing a Bluetooth connection works differently from one device to another (smartphone, laptop, etc.). Please follow the instructions in the manual of the corresponding device.

As long as no other device is connected, the Bluetooth-Player can be found by other devices as amplifier or speaker device with the name **"collaxx"**. Dependent on the setting of the eighth DIP switch the PIN 4873 may be necessary (See section DIP switch set up possibilities). If the Bluetooth-Player is already connected to a device, no other devices can find it and no additional connections can be established.

While the Bluetooth-Player is visible, it always tries to reconnect to the last connected device. If you try to connect a new device, ensure that the old device was properly disconnected. It is also suggested to disable the Bluetooth function of the old device completely while trying to connect the new one.


Status LEDs and trouble shooting


The Bluetooth-Player has 3 LEDs. Each of them can show red, green or orange. They are on the bottom at the same side as the DIP switch. They show the state of various functions of the Bluetooth-Player as flashing patterns. Check the power supply if no LED is turned on.



Bluetooth

 permanently green
Bluetooth-Player is paired/connected.


 flashing orange
Bluetooth-Player is pairable/waiting for a connection.


 flashing green
Audio is currently played via Bluetooth.

off

Bluetooth function is disabled.


amplifier


 permanently green
Amplifier works as expected.


 permanently red
Amplifier terminals shorted. Please disconnect the power supply, clear the short circuit and power the device again.




remote control

 permanently green
Bluetooth-Player is synchronized with a remote control.

 flashing green
Bluetooth-Player is currently synchronizing with a remote control.

 permanently green with 2 times off
Bluetooth-Player was not synchronized with a remote control yet.

 permanently orange
A remote control key is currently pressed.

DIP switch set up possibilities:

The behaviour of the Bluetooth-Player can be modified using the DIP switch:



"Line-In Slave Mode". Device does not listen to a remote control and Bluetooth is disabled. This is the setting for the "Slave" in cascading mode.



Line-In permanently enabled. Bluetooth disabled.



Line-In disabled. Bluetooth enabled.



Automatically switch between Line-In and Bluetooth.



Device connectable without PIN.



The PIN 4873 is necessary for connection set up with the Bluetooth-Player.



Never automatically reconnect to the last connected Bluetooth device.



Automatically reconnect to the last connected Bluetooth device after connection loss.



Electronic Line-In plug detection enabled.



Electronic Line-In plug detection disabled.



Line-Out provides input signal with unchanged volume.



Line-Out volume is also controlled by remote control.



Mono sound on **left** output.



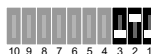
Stereo sound on all outputs.



Structure borne sound converter mode



Mode for normal speakers (lower volume)



FL2000 Music mode



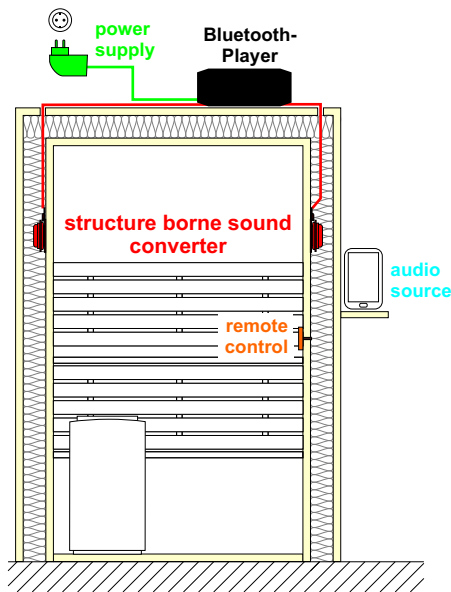
FL201 Music mode



Cubus 22 mode

Mounting suggestion

Place the Bluetooth-Player completely invisible at the top of the cabin. The structure borne sound converters can be elegantly embedded in the cabin wall. The technical stuff and the wires are perfectly hidden in this case. A holder for audio sources can be mounted on the outside wall. Please consider, that most of the smartphones are not made to withstand the humidity and temperature inside of a cabin.



Regulatory Information for Canada:

Contains IC: 12246A-BM64S2
This device complies with Industry Canada's license-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) This device may not cause interference, and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Regulatory Information for USA:

Contains FCC ID: A8TBM64S2
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Regulatory Information for China:

This device contains SRRC approved Radio module CMIIT ID 2016DJ2356.

Technical data

Supply voltage	12V...24V only via shipped power supply
Current consumption	about 20mA to 6A
Dimensions L x B x H	125 x 51 x 25 mm
Weight	60 g
Temperature range	0 bis +40 °C
Protection class	IPX0
Bluetooth profiles	A2DP, AVRCP-CT
Bluetooth version	5.0
min. Bluetooth version	2.1
A2DP-Codec	SBC
Bluetooth class	Class 2 (about 10m)
Output power	2 x 18W RMS at 4Ω
Output impedance	4Ω...8Ω

