



# wavemaster Cube Mini Wireless 2.0 Sound System User Manual

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**wavemaster Cube Mini Wireless 2.0 Sound System**



## After unpacking

After unpacking you should first check that the contents are complete. In addition to this instruction manual there should be:

- 2 Speaker boxes
- 1 Power cable
- 1 Infrared remote control
- 2 AAA Batteries
- 1 Speaker cable with stripped ends
- 1 Audio connection cable 2 x RCA plug -> 3.5 mm stereo mini phono plug

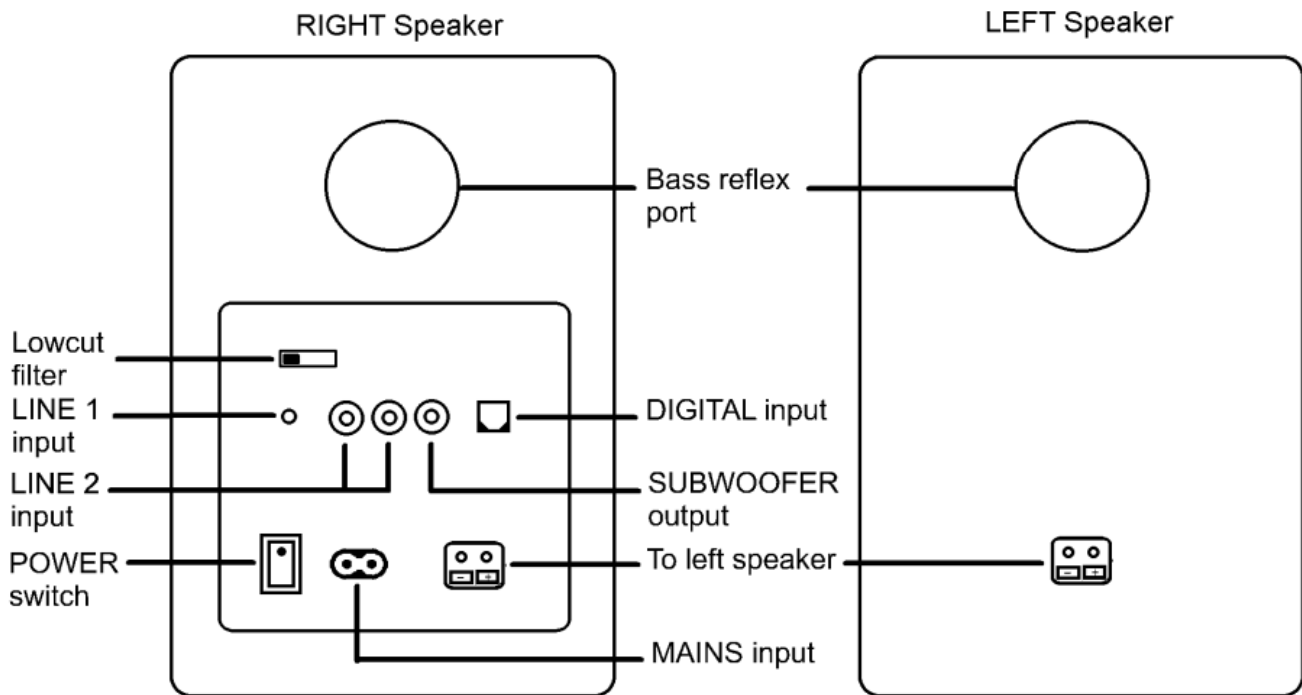
## Advice on location, care and safety

- Connect the audio input to the line-out, non-amplified output. Avoid connection to the speaker-out jack of your sound source. The amplified signal from the speaker-out may cause unnecessary distortion and may damage the speaker circuit.
- To connect your sound system with power supply system, please make sure to have a mains socket close to your sound system.
- If the sound system is not in use for a longer period of time, be sure that your system is disconnected from mains power.
- Do not use alcohol, benzene, thinner or acids to clean the cabinet.
- Do not place your sound system near radiators, air conditioning or radio-controlled systems.
- Avoid leaving the sound system in permanent strain such as direct sunlight, extreme moist or dryness, exceptional cold or heat, mechanical vibrations or shock.
- Do not open the cabinet, contact qualified personnel only.
- For service staff: Never open cabinet, when speaker system is connected to 110-240 V AC power supply system.
- **CAUTION!!** Power ON / STANDBY switch does not separate mains power!

- Deliberate harm to the equipment is not covered by the guarantee.
- Please contact your dealer in case of technical problems.

## Assembly and operation

Assembly and operation of your **CUBE/CUBE MINI** speaker system is very easy to do. General connections are shown in the following drawing. Please connect all components only when the mains power switch is switched OFF.



- Place the speakers at their target area and start connecting.
  - First, connect the left speaker to the right speaker by the speaker cable. The spring terminals can be released by finger pressure on the button. Insert the stripped cable ends each into the terminal openings, to have connected red to red (plus) and black to black (minus) of both speaker boxes to each other. Make sure the cable ends connect well to inter-connect from the right (active) speaker's amp output to the left (passive) speaker's input.
  - Please care to avoid short circuits between red and black connectors, not to cause malfunctions or defects!
  - Connect the input socket on the back of your **CUBE/CUBE MINI** to your audio sources.
  - The LINE 1 phono socket input is prepared for devices with lower Line signal level, like portable MP3-player, smartphones etc.
  - The RCA sockets LINE 2 are prepared for audio devices with standard Line signal level, e.g. PC or stationary HiFi devices.
  - The optical TOSLINK input socket can receive digital PCM stereo signals.
  - The multifunction knob at the front of the right **CUBE/CUBE MINI** speaker box offers push and turning function. This knob controls the basic functions of your **CUBE/CUBE MINI**:
1. ON and manually OFF: short push power ON the device, manually OFF can be forced by a longer push (>2s) on the knob. If manually set OFF a static red LED will confirm this. In case of automatic standby, this will be visible through a slowly blinking red LED.

2. VOLUME control: if the device is ON, by turning the knob, the volume can be increased or decreased. After switching OFF and ON, the previous volume setting is recovered.
3. Sequential input selection (short push on the knob when the device is ON):

Input	Socket	Indication Colour	Signal Source, Format
LINE 1	Phono Socket 3.5mm stereo	green	Smartphone, MP3-Player, lower level, appr. 500mV
LINE 2	RCA L, R	white	PC, stationary HiFi standard level max. 2000mV
Bluetooth	-	blue	Bluetooth Audio A2DP
Digital optical	S/P-DIF TOSLINK	orange	PCM max. 24 Bit / 96 kHz

- Before mains connections, check your mains power system to be appropriate to the **CUBE/CUBE MINI**.
- Connect the mains cable to the mains input socket and the wall socket plug connect to your mains supply.
- Switch on the main switch on the back.
- **ON/STANDBY**, source selection as well as volume you can control with the multifunction knob on the front of the right speaker box of your CUBE / CUBE MINI Sound System.
- The same and further settings like BASS, TREBLE, DEFEAT, LOUDNESS, and MUTING can be controlled by the infrared (IR) remote control.

**Note:** If you emphasize the bass control too much, the maximum total volume will be limited since the woofer may run at overstroke earlier. Please care not to overstroke the woofer too much (audible distortions) since this can reduce the life-span of the woofers!

- If you do not employ a subwoofer with your **CUBE/CUBE MINI**, switch the LOW CUTOFF to center position FLAT. Further informations for the subwoofer connection you can find under Subwoofer Output.
- **AUDIO SIGNAL SENSING:** if the input signal is very low or off for more than 10 minutes, the audio signal sensing automatically switches to STANDBY. Once there is an audio signal, the audio signal sensing automatically switches ON again! This technology is beneficial with many sources, especially with any kind of wireless sources such as Airplay (WLAN) or Bluetooth audio systems: you can operate the wireless audio source and the speaker system activates or deactivates according to the provided audio signals.

## Audio Configurations


### Connection to analogue audio sources with RCA- or phono connector outputs

To connect with conventional stereo use RCA-to-RCA or phono-to-phono audio cables and connect it to the LINE 1 or LINE 2 inputs on the back of your CUBE / CUBE MINI. The input sensitivity of the 3.5mm phono socket LINE 1 is prepared for portable devices like smartphones, MP3-player etc. The input sensitivity of the RCA input LINE 2 is prepared for high (standard) line levels, as provided by stationary HiFi or PC.

### Connection to digital audio sources with S/P-DIF connectors

Digital optical socket (S/P-DIF TOSLINK): employ a standard optical cable and connect it to the OPTICAL input on the back of your **CUBE/CUBE MINI**. Please remember to never bend the optical cable in a small or sharp angle, to avoid damage of the optical fibre! The optical input of **CUBE/CUBE MINI** supports digital PCM STEREO signals up to 24 Bit / 96 kHz.

## Bluetooth Audio Playback

Activate the Bluetooth (BT /  ) function of your audio source (e.g. your smartphone). Switch on **CUBE/CUBE MINI** by pushing on the volume knob or the IR remote POWER button. Select BT by short pushing the volume knob (SOURCE on IR remote) until reaching the BT position (blue colour indication).

1. **CUBE/CUBE MINI** confirms the activation of its Bluetooth function through slow flashing the BT control LED.  
The BT system first tries to re-connect with previous BT source and is protected against any other device at this moment! In case an earlier connected BT source is available, CUBE / CUBE MINI will instantly connect to that BT source again. When connected, the BT control LED lights constantly. Now you can start BT playback through **CUBE/CUBE MINI**.
2. In case no prior connected source is available, after few seconds, **CUBE/CUBE MINI** will search for new BT sources. This action will be confirmed by quick flashing of the BT control LED. Just during this search phase the BT system is visible to other devices for approx. 2 minutes and can be paired to a new source. Now start the Bluetooth search function of your BT source (e.g. smartphone). After a moment, you can find "wm CUBE mini" resp. "wm CUBE" in the BT devices list of your BT source. Select it for pairing. Your BT source will now pair with **CUBE/CUBE MINI**. Once the pairing procedure is finished the **CUBE/CUBE MINI** blue BT control LED lights constantly.

When the BT connection is interrupted through foreign signals interference or by too long distance, playback will be stopped and the BT control LED shows flashing light. Once the BT source can be received again, playback continues and the BT control LED lights constant again. BT safety: Bluetooth offers a high safety and is protected against foreign access. To connect **CUBE/CUBE MINI** to a new BT source, after activating the BT function, it will be visible to other BT sources only during the BT search phase and can be paired to a new BT source. After approx. 2 minutes the search phase is ended and the system will be protected against foreign access again. To switch off the Bluetooth function select any other input source. This will completely deactivate the built-in BT function. \

**Bluetooth playback from PC:** please note, for audio playback, the source device need to support the Bluetooth standard A2DP. In case of e.g. WINDOWS (TM) operating systems, it is inevitable to MANUALLY install the Bluetooth driver of the Bluetooth device maker! The Windows internal driver by the automatic driver installation is not suitable to support A2DP BT audio!

**Bluetooth® playback using two BT sources:** The BT system of the **CUBE/CUBE MINI** supports a playbackin change from two BT sources. Connect the BT sources to the BT-System of the **CUBE/CUBE MINI** and start audio playback from one BT source. Once you start the audio playback of the second BT source, it will take-over the playback through the speaker system. By the playback in change from two BT sources a fascinating playback program can be created!

### Subwoofer Output

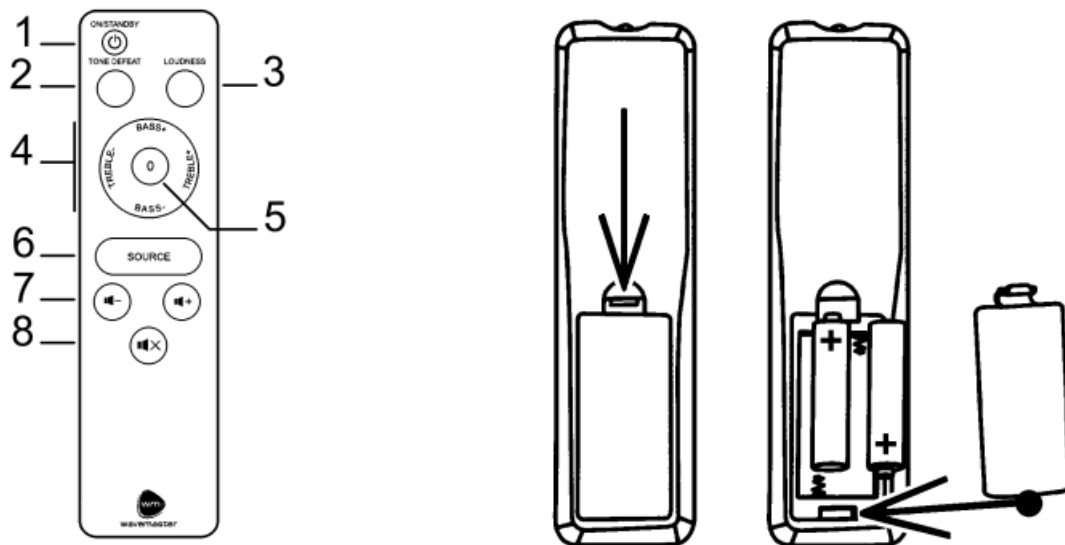
The subwoofer output of **CUBE/CUBE MINI** offers the connection to a active subwoofer with line input and electronic subwoofer filters, to extend the system playback at the range of lowest frequencies. This output provides the non-filtered mono summary signal of the actual playback source, in dependence from **CUBE/CUBE MINI** volume control. To unburden the stereo speakers from very low-frequency signals, you can select the LOW CUTOFF switch to cut below 80 Hz, 100 Hz or to keep the low range uncut in position FLAT. All sound adjustments to match the subwoofer with **CUBE/CUBE MINI** need to be set by using the filters and other controls of a connected active subwoofer.

### Infrared (IR) remote control

**CUBE/CUBE MINI** offers infrared remote control function. Beside the multifunction knob's features, there are a lot more functions to be controlled by the infrared remote control.

## Batteries:

Before operation of the IR remote control, the batteries need to be installed. The battery compartment can be opened by pushing the clip hook's handle in direction to the battery cover and pulling out the battery cover.



Insert the batteries (2 x AAA batteries) with their polarity according to the markings in the battery compartment. Wrong polarity can cause a defect! With wrong polarity of the batteries, there can be no function of the remote control!

To close the battery cover, first insert the hook below it and clip-in the clip hook until you can see the cover is flush with the cabinet bottom side.

If you plan not to use the IR remote control for a longer time, it will be recommended to remove the batteries to avoid any damage by aged batteries.

## IR remote control functions:

- **ON/STANDBY** (1) if the device is off, short push this button to power ON and manually force OFF.  
Please note: if you manually force the device OFF the automatic power-ON will be deactivated, so the device cannot power-ON automatically by audio signals!
- To utilize the automatic ON and STANDBY function, there is no need to power OFF your CUBE / CUBE MINI manually but simply keep it ON. The automatic STANDBY function will power down (STANDBY) for you.
- **TONE DEFEAT** (2) With this button the sound effect set by tone controls BASS and TREBLE can be deactivated and activated again, without losing the settings.
- **LOUDNESS** (3) With this button, you can activate/deactivate a physiological sound correction to compensate the loss of low-frequency range at low-volume listening. The effect strength of the LOUDNESS correction accordingly is dependent from the actual volume control's setting.  
Attention: the Loudness function has no effect at high volume. Whether the Loudness is activated or deactivated can be heard best with a bass-strong track at a low position of the volume knob.
- **BASS +/-** and **TREBLE +/-** (4) This are the buttons to individually control the sound of your **CUBE/CUBE MINI**. You can change the sound by each +/- 5 steps. Each step changes low or high levels by 2 dB.
- **Zero button 0** (5) This button is part of the sound control setting concept. It can reset the sound settings back to a neutral zero position. The 0 button has two functions:
  - If you push the 0 button (within 20 seconds) right after setting of BASS or TREBLE controls, it will just set to zero the last controlled function – means: BASS or TREBLE will be set to zero. By this feature it will be possible to control the sound until the best setting is found, without re-setting both sound controls each

time.

- If you push the 0 button without having operated any sound setting buttons before (within the last 20 seconds), both sound settings – means: BASS and TREBLE – will be reset to zero.
- **SOURCE** (6) With this button you can select the playback source, same way as the push function of the multifunction knob on the speaker front. .
- Volume +/- (7) With these buttons you can increase (+) or decrease (-) the playback volume, same way as by the turning function of the multifunction knob on the speaker front.
- **MUTING** (8) This button can mute the playback without changing the volume setting position. To unmute and continue the playback, push the MUTING button again.

## Specifications

- 2 channel 2-way stereo sound system
- 2 built-in amplifier channels
- BLUETOOTH Audio System for wireless digital transmission (BT 2.1 or above, A2DP)
- Digital TOSLINK (optical) input for stereo signals up to 24 bit / 96 kHz
- Digital audio processing with high resolution native 24/96-bit D/A converter
- Line input terminals by mini phono and RCA sockets and RCA subwoofer output
- LOW CUTOFF filter switch to cut below 80 Hz/100 Hz/FLAT suitable for subwoofer usage
- Silk dome tweeters 25mm (1"), Cellulose cone woofer
  - **CUBE MINI:** 10cm,
  - **CUBE:** 13cm
- Front control for VOLUME, INPUT SELECTION and ON/STANDBY manual switching
- Infrared (IR) remote control for all control functions
- **BASS/TREBLE** sound controls and switchable LOUDNESS function
- Mains power switch on the back
- AUDIO SIGNAL SENSING for auto-on and auto-standby depending from input signals
- Connections by audio cables, digital cables or wireless by Bluetooth Audio System
- **Frequency range:**
  - **CUBEMINI:** 55 – 22,000 Hz;
  - **CUBE:** 45 – 22,000 Hz; S/N >95 dBA
- **Amplifier output power (RMS):**
  - **CUBE MINI:** 2x 18W;
  - **CUBE:** 2 x 25 W
- **Mains tension:** 230/115 Volts ~, 50/60 Hz, standby power <0.5 W (230V)
- **Dimensions (WxHxD):**
  - **CUBEMINI:** 150 x 209 x 180 mm ;
  - **CUBE:** 175 x 245 x 200 mm
- **System requirements:** analogue stereo source with RCA or mini phono terminals or digital stereo source with TOSLINK connector or Bluetooth Audio System

## CE – Declaration of conformity

We herewith declare, that the wavemaster **CUBE/CUBE MINI** active speaker system complies with the following

standards or normative documents:

EMC Directive (2004/108/EC)

**EMC:** EN301 489-1 V1.9.2 & -17 V2.2.1, EN 55013: 2001 + A1: 2003 + A2: 2006,

**EN 55020:** 2007 + A11: 2011, EMF: EN 62479: 2010, RF: EN 300 328 V1.8.1

**LVD Directive** (2006/95/EC)


**LVD:** EN60065: 2002 + A1: 2006 + A11: 2008 + A2: 2010 + A12: 2011, Erp: EU, EC 1275/2008

This statement is based on the test reports of an EMC laboratory. All texts and illustrations were produced with greatest care. Wavemaster cannot however accept any legal or other responsibility for any remaining incorrect information and its consequences. Subject to change without further notice. In case there is audible noise, possibly caused by strong radio waves (e.g. by mobile phones) we recommend to turn down the volume control of the unit. If you have special questions to the product and cannot find a solution in this introduction, you can look for more information at our homepage. Thank you!

[www.wavemaster.eu](http://www.wavemaster.eu)

The device may not be disposed of with household rubbish. This appliance is labelled in accordance with European Directive 2002/96/EG concerning used electrical and electronic appliances (waste electrical and electronic equipment – WEEE). The guideline determines the framework for the return and recycling of used appliances as applicable throughout the EU. To return your used device, please use the return and collection systems available to you.

## Documents / Resources

	<p><a href="#">wavemaster Cube Mini Wireless 2.0 Sound System</a> [pdf] User Manual</p> <p>Cube Mini Wireless 2.0 Sound System, Cube Mini, Wireless 2.0 Sound System, 2.0 Sound System</p>
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## References

- [wavemaster – A New Definition of Sound – wavemaster aims to provide lifestyle audio products with outstanding design and superb acoustic performance.](#)
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