

# AVAYA



## The Avaya B109 User Guide

ENGLISH

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You acknowledge and agree that it is Your responsibility for complying with any applicable laws and regulations, including, but not limited to laws and regulations related to call recording, data privacy, intellectual property, trade secret, fraud, and music performance rights, in the country or territory where the Avaya product is used.

## **Preventing Toll Fraud**

"Toll Fraud" is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or is not working on your company's behalf). Be aware that there can be a risk of Toll Fraud associated with your system and that, if Toll Fraud occurs, it can result in substantial additional charges for your telecommunications services.

## **Avaya Toll Fraud intervention**

If You suspect that You are being victimized by Toll Fraud and You need technical assistance or support, call Technical Service Center Toll Fraud Intervention Hotline at +1-800-643-2353 for the United States and Canada. For additional support telephone numbers, see the Avaya Support website: <https://support.avaya.com> or such successor site as designated by Avaya.

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This device when installed complies with the essential requirements and other relevant provisions of EMC Directive 2014/30/EU Safety LV Directive 2014/35/EU, and Radio Equipment Directive 2014/53/EU. A copy of the Declaration may be obtained from <http://support.avaya.com>.

BT transmitter

- Frequencies for 2412-2472 MHz, transmit power: 10 dBm

## U.S. Federal Communications Commission (FCC) Statements

### *Compliance Statement*

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interferences that may cause undesired operation.

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 designated to provide reasonable protection against harmful interferences 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 interferences 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.

## México Statement

The operation of this equipment is subject to the following two conditions:

1. It is possible that this equipment or device may not cause harmful interference, and
2. This equipment or device must accept any interference, including interference that may cause undesired operation.

La operación de este equipo está sujeta a las siguientes dos condiciones:

1. Es posible que este equipo o dispositivo no cause interferencia perjudicial y
2. Este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

## Industry Canada (IC) Statements

### *RSS Standards Statement*

This device complies with Industry Canada licence-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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### *Radio Transmitter Statement*

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

### *Radiation Exposure Statement*

This equipment complies with FCC & IC RSS102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body. This transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISÉ établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

## Japan Statements

### *Class B Statement*

This is a Class B product based on the standard of the VCCI Council. If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

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取扱説明書に従って正しい取り扱いをして下さい。

VCCI-B

# CONTENTS

<b>Introduction</b>	<b>9</b>
Maintenance .....	9
<b>Description</b>	<b>10</b>
Connections and buttons .....	10
Information on the LCD display .....	11
Turning off and on .....	12
<b>Using with a computer</b>	<b>13</b>
Connecting to a computer .....	13
Using as a computer speaker (music mode) .....	13
Using as a conference unit .....	14
<b>Using with a Bluetooth device</b>	<b>15</b>
Pairing and connecting .....	15
Reconnecting already paired devices .....	16
Using as a speaker (music mode) .....	16
Using as a conference unit .....	17
<b>Using a headset</b>	<b>18</b>
<b>Settings</b>	<b>19</b>
Keypad tone .....	19
Clearing the list of paired devices .....	19
<b>Upgrading software</b>	<b>20</b>
Installing Avaya Upgrade Utility .....	20
Upgrading software .....	20
<b>Technical data</b>	<b>21</b>

# INTRODUCTION

The Avaya B109 is a conference unit that can be connected to your mobile phone, tablet and computer to obtain crystal-clear, powerful OmniSound® audio in your virtual meetings.

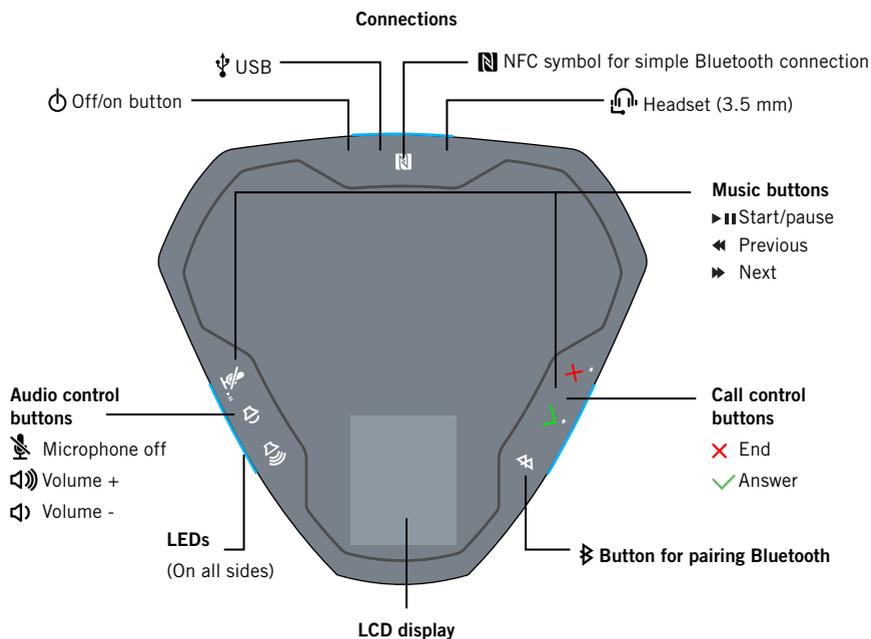
- OmniSound® audio optimisation technology with full duplex, echo cancellation and static reduction in HD bandwidth. (The bandwidth may be limited by the connection)
- Support for UC applications.
- LCD display for easy viewing and use.
- Support for simplified Bluetooth pairing and connection using NFC (near-field communications).
- Support for Bluetooth A2DP (advanced audio distribution profile) for superior audio quality when playing music.
- USB port for connection to a computer or other compatible USB device.
- Integrated battery makes the Avaya B109 completely cordless with a Bluetooth-connected phone. The battery is charged from a USB port.
- Headset connectivity option allows easy switching between headset and speaker function.
- Upgradeable.
- 1-year warranty.

## MAINTENANCE

Clean the equipment with a soft, dry cloth. Never use liquids.

# DESCRIPTION

## CONNECTIONS AND BUTTONS



### LEDs

Steady yellow light	The Avaya B109 is switched on
Steady blue light	Connected through Bluetooth
Steady green light	Microphone is enabled/call in progress (Bluetooth)
Flashing green light	Incoming call (Bluetooth)
Flashing blue light	Pairing or connecting in progress (Bluetooth)
Steady red light	Microphone switched off during calls (mute)
Flashing red light	Low battery Flashing slowly: The call is placed on hold (Bluetooth)

## INFORMATION ON THE LCD DISPLAY

The icons are normally displayed for a couple of seconds on connection. The same symbol is displayed in red when the connection is broken.



USB device connected



Incoming call or call in progress via USB



Music mode via USB



Visible for pairing via Bluetooth



Reconnecting to Bluetooth device



Bluetooth device connected



Incoming call or call in progress via Bluetooth



Music mode via Bluetooth



Headset connected



Volume adjustment (number of bars indicates the volume selected)



Microphone switched off (mute)



Battery status

Displayed automatically when there is 1 hour remaining and then every 5 minutes. The number of bars in the battery icon indicates the charging status. The battery needs charging when the icon turns red.

### Manual display of battery status

⇒ Quickly press  (off/on).

*The battery status is displayed on the Avaya B109.*

### TURNING OFF AND ON

The Avaya B109 starts automatically when it is connected with a USB cable to a powered-up computer. The three LEDs show a yellow light to indicate that it is switched on. The battery is simultaneously trickle charged.

⇒ Push the button  (off/on) to start the Avaya B109. Hold down the button  for five seconds to manually switch off the Avaya B109.

① If the Avaya B109 is connected via USB, it will continue charging even if it is switched off, but at a reduced rate.

The Avaya B109 switches off automatically after 30 minutes to save the battery unless it is being charged via USB or is connected via Bluetooth. Restart the Avaya B109 by connecting it to a USB port or by pressing  (off/on).

# USING WITH A COMPUTER

The Avaya B109 transforms your computer into high-quality conferencing equipment with OmniSound®. Unlike normal computer speakers and microphones, the Avaya B109 provides full duplex (two-way audio) and efficient echo cancellation and static reduction. The computer identifies the Avaya B109 as an echo cancellation device which means that communication software usually leaves the audio processing to the Avaya B109, resulting in better sound quality. This can also be manually adjusted

- ① OmniSound® performs over the full audio bandwidth (50–7,000 Hz). However, there may be some factors that limit the sound quality, depending on the equipment in the network and that used by the other call participants.

If you are playing music, or some other one-way audio stream, the Avaya B109 switches automatically to music mode so that the sound is not altered by OmniSound®.

## CONNECTING TO A COMPUTER

⇒ Connect the computer to the Avaya B109 with a suitable USB cable.

*The  icon is displayed on the Avaya B109.*

- ① The computer's operating system normally automatically selects the Avaya B109 as a speaker and microphone. If the Avaya B109 is not automatically selected as an audio device in the computer, you may have to access the computer settings and manually select **Avaya B109**.
- ① If the computer has active software that is using the computer's built-in speakers, you may need to restart the software to switch to the new speaker (Avaya B109).

## USING AS A COMPUTER SPEAKER (MUSIC MODE)

The computer normally only activates the speaker in the Avaya B109 if no other software is running that can use the microphone. This means that the Avaya B109 acts as a computer speaker and that the audio processing in OmniSound® is turned off so that the sound is not altered.

- ① When the Avaya B109 is connected via USB, you have to use the computer to control the music. The ,  and  buttons only work for music via Bluetooth.

### Adjusting the volume

⇒ Press  and  to adjust the volume.

- ① The volume can also be controlled from the computer.

## USING AS A CONFERENCE UNIT

To make a VoIP call from the computer, an online meeting service or some other VoIP (Voice over IP) software.

The Avaya B109 microphone will be automatically enabled when you start a VOIP call or a recording using audio recording software on the computer. OmniSound® now handles full duplex and echo cancellation.

### Starting a call

⇒ Starting the call from the computer.

*The LEDs on the Avaya B109 show a steady green light.*

### Answering incoming calls

⇒ Answering a call from the computer.

*The LEDs on the Avaya B109 show a steady green light.*

### Ending calls

⇒ Ending a call from the computer.

*The LEDs on the Avaya B109 light up yellow.*

### Switching the microphone off during a call (mute)

⇒ Press  to switch the microphone off temporarily during a call.

*The LEDs on the Avaya B109 show a steady red light.*

⇒ Press once more to switch the microphone on again.

### Adjusting the volume during calls

⇒ Press  and  to adjust the volume.

# USING WITH A BLUETOOTH DEVICE

The Avaya B109 can be connected to a mobile phone, tablet and computer via Bluetooth. We are using a mobile phone in these examples. Bluetooth must be enabled in the mobile phone's settings.

Audio can be transmitted in two different ways via Bluetooth. One is two-way and is optimised for speech. The other (A2DP) has higher audio bandwidth, is one-way and is optimised for music. The Avaya B109 supports both of these.

- ① OmniSound® performs over the full audio bandwidth (50–7,000 Hz). However, limitations in the telecommunications networks and in Bluetooth technology reduce the bandwidth somewhat and the sound is compressed. This has an effect on the sound quality.

## PAIRING AND CONNECTING

Two devices have to be paired before they can communicate with Bluetooth. You do this in different ways depending on whether your telephone supports simplified pairing via NFC (near-field communications) or not.

A maximum of eight devices can be paired with the Avaya B109. If another device is then paired, the oldest pairing information is deleted. It is also possible to delete all pairings, see page 12.

### Pairing and connecting with NFC

- ① NFC must be enabled on your mobile phone and the screen unlocked.
- ⇒ Hold the mobile phone next to the NFC symbol  on the Avaya B109.
- ① You might need to move the phone closer then further away from the Avaya B109 to make contact via NFC. The range is only about one centimetre.

*The mobile phone and the Avaya B109 are paired and connected.*

*The  icon is displayed on the Avaya B109 and the LEDs light up blue.*

### Pairing without NFC

- ⇒ Turn Bluetooth on in your mobile phone.  
*This normally makes the phone visible to other Bluetooth devices and even starts a search on some phones.*
- ⇒ Hold  down for two seconds on the Avaya B109.  
*This makes the Avaya B109 visible to other Bluetooth devices.  
The  icon is displayed and the LEDs flash blue.*
- ⇒ Start a search on your mobile phone.
- ⇒ Select the Avaya B109 from the list of devices found and select pairing. (It may take a while for the devices to find one another.)  
*The devices are paired and usually automatically connect to one another.  
The  icon is displayed on the Avaya B109 and the LEDs light up blue.*
- ① After 60 seconds in pairing mode, the Avaya B109 returns to normal mode even if pairing has not been established.

## RECONNECTING ALREADY PAIRED DEVICES

A pairing means that the phone and the Avaya B109 save information about one another. This information is saved, even if the connection is broken.

The connection is broken if:

- The devices are far apart (Bluetooth has a range of about 10 metres).
- You turn off Bluetooth in your mobile phone.

The next time your mobile phone and the Avaya B109 are within range of one another, you will not need to pair them. Simply connect.

① Your mobile phone must have Bluetooth switched on.

⇒ Press  when the phone is within range.

*The  icon is displayed on the Avaya B109 and the LEDs light up blue.*

① If you have a call in progress on your mobile phone, it is transferred to the Avaya B109.

① Some mobile phones try to connect automatically to a paired handsfree (Avaya B109) when you make or take a call.

## USING AS A SPEAKER (MUSIC MODE)

The Avaya B109 functions as a powerful speaker for playing music from your mobile phone. If your phone supports A2DP, you'll get the best audio quality. When music is being played, the audio processing feature in OmniSound® is turned off so that the sound is not altered.

### Adjusting the volume

⇒ Press  and  to adjust the volume.

① The volume can also be controlled from your mobile device.

### Controlling the music

⇒ Press , , and  to simply pause, play and skip tracks in the playlist on your mobile phone.

## USING AS A CONFERENCE UNIT

When you make or take a call, music mode automatically stops and the Avaya B109 microphone is enabled. OmniSound® now handles full duplex and echo cancellation.

### Making calls

⇒ Dial the number on your mobile phone.

*The LEDs on the Avaya B109 light up green and the sound is audible there.*

*On some mobile phones, you can choose to have the sound play through your mobile or headset (Avaya B109) when you make the call.*

### Answering incoming calls

⇒ Answer by pressing ✓ on the Avaya B109.

*The LEDs on the Avaya B109 light up green and the sound is audible there.*

① The call will play through your mobile phone if you take the call there.

① You can reject the call by pressing ✗ .

### Transferring a mobile call in progress

⇒ Press ↻ on the Avaya B109.

*The call is transferred between the Avaya B109 and the mobile phone each time you press.*

### Ending calls

⇒ Press ✗ on the Avaya B109 or end the call from the phone.

*The LEDs on the Avaya B109 show a steady blue light.*

### Switching the microphone off during a call (mute)

⇒ Press 🚫 to switch the microphone off temporarily during a call.

*The LEDs on the Avaya B109 show a steady red light.*

⇒ Press once more to switch the microphone on again.

### Holding a call

⇒ Press ✓ to put the call on hold.

⇒ Press once again to return to the call.

### Adjusting the volume during calls

⇒ Press 🔊 and 🔊) to adjust the volume.

# USING A HEADSET



## **Warning!**

Use of headphones/earbuds at high volumes can damage your hearing.

- ⇒ Connect the headset to the  port on the Avaya B109.  
*The sound automatically transfers to the headset.*
- ⇒ Unplug the headset.  
*The sound automatically transfers to the Avaya B109 speakers.*

# SETTINGS

## KEYPAD TONE

⇒ Hold  down for five seconds to disable or enable the button clicking sound on the Avaya B109.

The  icon indicates that the keypad tone feature is enabled. The  icon indicates that the keypad tone feature is disabled.

## CLEARING THE LIST OF PAIRED DEVICES

⇒ Hold  down for five seconds to clear the list of paired devices on the Avaya B109.

# UPGRADING SOFTWARE

You can upgrade software in the Avaya B109 using **Avaya Upgrade Utility** via a USB-connected PC with Microsoft® Windows®. Visit [support.avaya.com](http://support.avaya.com) for more information.

## INSTALLING AVAYA UPGRADE UTILITY

- ⇒ Visit [support.avaya.com](http://support.avaya.com) and choose Avaya B109 as a product in Downloads section.
- ⇒ Download **Avaya Upgrade Utility**.
- ⇒ Install the software on your computer.
  - Follow the instructions given by the installation program.

## UPGRADING SOFTWARE

- ⇒ Connect your Avaya B109 to the computer using a USB cable.
- ① Bluetooth must not be enabled and there should be no audio playing on the computer.
- ⇒ Hold  down for five seconds to put the Avaya B109 in upgrade mode.
  - The  icon is displayed until the upgrade has begun.*
- ⇒ Start **Avaya Upgrade Utility** on your computer.
- ⇒ Follow the software guide instructions.
  - The Avaya B109 restarts automatically when the upgrade has been completed.
- ① You can check which software version is installed on the Avaya B109 by quickly pressing  (off/on) twice. The version of the software is displayed on the screen.
- ① If you wish to exit upgrade mode without doing an upgrade, press this sequence of buttons: , , , , , .

# TECHNICAL DATA

Item number	700514009
Size	145 x 134 x 32 mm
Weight	230 g
Display	1.77" Colour LCD, 128x160 pixels
Upgrading	Avaya upgrade utility (for Microsoft® Windows®) upgrades Avaya B109 software via the USB connection

## Power supply

USB	Power supply and battery charge via the USB
Battery	1000 mAh Li-ion
Stand-by	72 hours battery only
Talk time	12 hours battery only

## Connections

USB	Micro USB. For computer connection.
Bluetooth	Bluetooth 4.0. For connection to a mobile phone or other equipment that supports the Bluetooth Handsfree profile. Support for simplified Bluetooth pairing and connection using NFC (near-field communications). Support for A2DP (advanced audio distribution profile) is required to obtain the best audio quality when playing music and for music control via the music mode in the Avaya B109.
Headset	3.5 mm phone plug (TRS/TRRS)

## Audio

Audio optimisation	OmniSound®
Microphone	Two microphones with beamforming
Coverage range	Up to 30 m <sup>2</sup>
Frequency range for music	50-24,000 Hz
Frequency range for speech	50-7,000 Hz
Volume	90 dB SPL 0.5 m

## Environment

Temperature	5°-40°C
Relative humidity	20-80% condensation free
Recommended acoustics	Reverberation period 0.5 S Rt 60 Background noise < 45 dBA