

MB 660

wireless
ANC Headset



Instruction manual

 **SENNHEISER**

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Important safety instructions



- ▶ Read this instruction manual carefully and completely before using the product.
- ▶ Do not use an obviously defective product.
- ▶ Only use the product in environments where wireless Bluetooth® transmission is permitted.
- ▶ Before putting the product into operation, please observe the respective country-specific regulations!

Preventing damage to health and accidents

- ▶ Do not listen at high volume levels for long periods of time to prevent hearing damage. 
- ▶ Always maintain a distance of at least 3.94" (10 cm) between the ear cups and the cardiac pacemaker or implanted defibrillator since the product generates permanent magnetic fields.
- ▶ Keep the product, accessories and packaging parts out of reach of children and pets to prevent accidents and choking hazards.
- ▶ Do not use the product in situations which require special attention (e.g. in traffic).

Preventing damage to the product and malfunctions

- ▶ Always keep the product dry and do not expose it to extreme temperatures (heater, extended exposure to sunlight, etc.) to avoid corrosion or deformation.
- ▶ Only use attachments/accessories/spare parts supplied or recommended by Sennheiser.
- ▶ Only clean the product with a soft, dry cloth.
- ▶ Use the product with care and store it in a clean, dust-free environment.

Safety instructions for the Lithium-Polymer battery pack

WARNING

In extreme cases, abuse or misuse of Lithium-Polymer battery pack can lead to:

- explosion
- heat
- fire
- smoke or gas

	Only use rechargeable batteries recommended by Sennheiser and the appropriate chargers.
	Do not expose to moisture.
	Switch rechargeable battery-powered products off after use.
	Only charge rechargeable batteries at ambient temperatures between 10 °C/50 °F and 40 °C/104 °F.
	When not using rechargeable batteries for extended periods of time, charge them regularly (about every 3 months).
	Do not mutilate or dismantle.
	Do not heat above +60 °C/140 °F, e.g. do not expose to sunlight or throw into a fire.
	Dispose of defective products with built-in rechargeable batteries at special collection points or return them to your specialist dealer.

Intended use/Liability



This wireless headset is an accessory for mobile phones or any Bluetooth® compliant device supporting profiles (e.g. "Hands-Free Profile" - HFP). It is intended for wireless communication via Bluetooth connection.

It is considered improper use when this product is used for any application not named in the associated product guides.

Sennheiser does not accept liability for damage arising from abuse or misuse of this product and its attachments/accessories.

Sennheiser is not liable for damages to USB devices that are not consistent with the USB specifications.

Sennheiser is not liable for damages resulting from the loss of connection due to flat or over aged rechargeable batteries or exceeding the Bluetooth transmission range.



The MB 660 Wireless Headset

MB 660 UC is a wireless, UC certified, adaptive ANC headset designed for knowledge workers demanding business-grade communication and premium Sennheiser sound quality for maximum productivity in open offices.

MB 660 UC MS is a wireless, Skype for Business Certified, adaptive ANC headset designed for knowledge workers demanding business-grade communication and premium sound quality for maximum productivity in open offices.

Utilizing the fastest and energy-efficient **Bluetooth** 4.2 wireless standard, the MB 660 Wireless headset is packed with innovative features. One such feature is Adaptive **NoiseGard™** active noise cancellation (ANC), which is a **NoiseGard** option that varies in strength according to the ambient noise level.

And with CapTune sound personalization app, the possibilities get even wider. There is so much more you can do now to improve your listening experience with just a tap on your smartphone.

The MB 660 Wireless - swiping through music and calls has never been this fun and exciting.

Features

- **NoiseGard™** hybrid ANC for optimum isolation from background noise and outstanding audio performance.
- Adaptive **NoiseGard™** ANC system for optimized customization and increased comfort in a dynamic open office environment.
- Touch pad on the right ear cup allows you to control music and calls with taps and swipes.
- App controllability through CapTune. Customize your listening experience with CapTune and get the most out of your headset.
- Smart Pause allows you to play or pause music by putting on or taking off the headset. This feature must be activated in CapTune.
- Improve call quality further with Call Enhancement/Room Experience technology. This feature reproduces voice from the other end of the line naturally, giving the impression that you are talking to the person from within the same room.
- Closed circumaural design featuring the latest, energy-efficient **Bluetooth®** 4.2 wireless technology .
- Immediate pairing with smart devices using NFC.
- SpeakFocus™ technology enhances voice clarity in all sound environments due to a 3 digital microphone system.
- WindSafe™ technology reduces wind noise in outdoor situations.
- 20 hours of battery life with both **Bluetooth®** and **NoiseGard™** activated. 30 hours if the headset is connected using the audio cable and only **NoiseGard™** is activated.
- Compact, yet extremely comfortable, over-ear headset.

Bluetooth®



The MB 660 Wireless headset complies with the **Bluetooth** technology 4.2 standard and is compatible with all **Bluetooth** 1.1, 1.2, 2.0, 2.1, 3.0, 4.0, 4.1 and 4.2 devices with the following profiles:

- **Headset Profile (HSP) 1.2** – provides the basic functionalities used by the headset to interact with a **Bluetooth** smartphone.
- **Hands-Free Profile (HFP) 1.6** – provides extra functionalities as compared to the HSP. If a function, such as voice control, is not supported by the HSP profile, the HFP takes place.
- **Audio/Video Remote Control Profile (AVRCP) 1.5** – used to control music on the **Bluetooth** device from the headset (play, pause, skip music track, etc.).
- **Advanced Audio Distribution Profile (A2DP) 1.3** – used by a **Bluetooth** device to stream high-quality stereo music to the headset.
- **Device ID Profile (DIP) 1.3** – used by the headset to be identified, such as by its manufacturer, product ID, product version, etc.

CapTune



CapTune is a music and device customization app designed to optimize the performance of your MB 660 Wireless headset. Install CapTune to make full use of the features of your headset. Through CapTune, you can change the sound mode to put emphasis on speech or music clarity, or to further improve your call experience, among others. You can download CapTune for your smartphone from the App Store or Google Play.

NFC



Near Field Communication (NFC) is a short-range wireless technology that enables connection and communication between NFC-capable electronic devices by placing them near one another or with a single touch.

SpeakFocus™



SpeakFocus technology focuses on your voice to deliver crystal clear sound, making it easy for listeners to hear what you're saying – even in noisy office environments.



WindSafe™

WindSafe technology reduces wind noise to ensure the clearest possible sound is sent to your listener – and that your answers aren't left blowing in the wind.

NoiseGard



The **NoiseGard™** hybrid adaptive Active Noise Cancellation system is a combination of 2 noise-cancellation systems composed of a total of 4 microphones. Two microphones with openings to the outside of the headset work as a Feed-Forward active noise cancellation system that reduces noise in the high-frequency band, while the other two microphones inside the headset work as a Feed-Back active noise cancellation system that reduces noise in the low-frequency band. The combination of these 2 microphone systems results in a broad reduction in noise covering a wider band of frequencies.

aptX®



With aptX® audio coding, you can be assured of crisp, pure and full stereo sound. It allows you to not only hear, but experience and feel the audio as it was intended. Utilizing aptX®, **Bluetooth** technology can now offer wireless audio quality that is indistinguishable from the highest quality wired connection.

TalkThrough



The TalkThrough function on the MB 660 Wireless allows you to communicate with other people without having to remove the headset. When TalkThrough is activated, professional quality microphones mounted on the outside of the headset pick up acoustic signals in the immediate vicinity, allowing the voice of the other person to pass through the headset.

Package includes



Headset MB 660 UC or MB 660 UC MS



Bluetooth dongle BTD 800 USB or BTD 800 USB ML



Carry case



Audio cable with answer/end button
(2.5 mm and 3.5 mm jack plug)



USB cable with micro-USB connector



In-flight adapter



Quick Guide



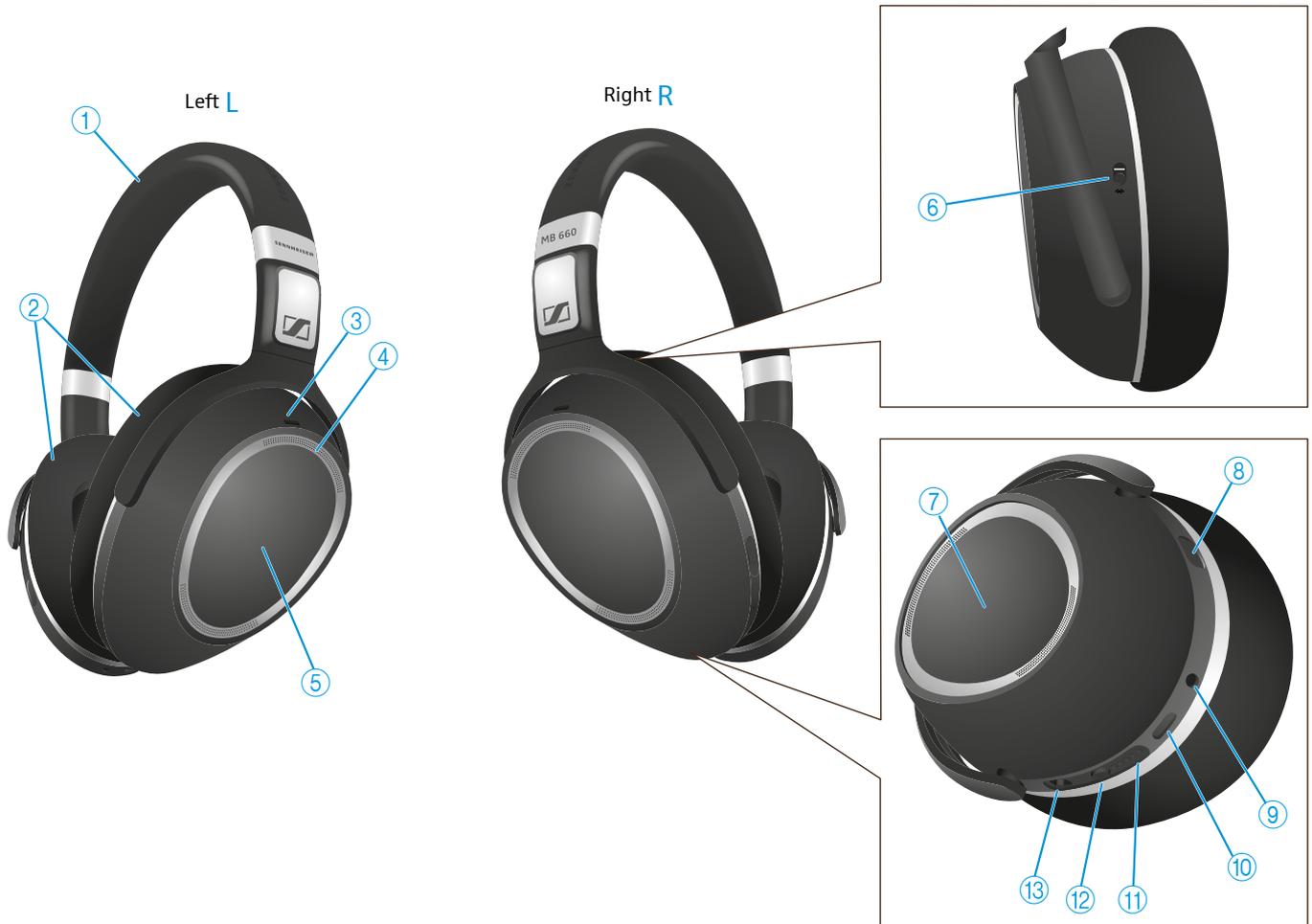
Safety Guide (with Compliance Information sheet)



A list of accessories can be found at www.sennheiser.com. For information on suppliers, contact your local Sennheiser partner: www.sennheiser.com> "Sales Partner".

Product overview

Overview of the MB 660 headset



- ① Headband
- ② Ear pads
- ③ Ear cups
- ④ ANC microphones (4 qty)
- ⑤ NFC panel
- ⑥ Bluetooth on/off switch
- ⑦ Touch pad (right ear cup)
- ⑧ Speech microphones (3 qty)
- ⑨ Audio input
- ⑩ Micro-USB input
- ⑪ LED display
- ⑫ Sound Effect Mode button
- ⑬ NoiseGard/ANC control switch

Overview of the BTD 800 USB dongle



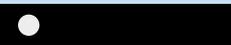
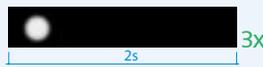
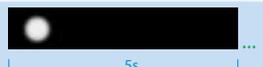
- ① USB plug
- ② Link LED
- ③ Link button

Overview of pictograms

Pictograms for tapping the touch pad

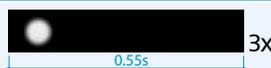
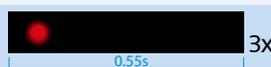
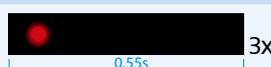
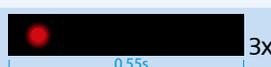
Pictogram	Meaning
	Tap once and immediately release your finger
	Tap twice and immediately release your finger
	Tap and hold for 2 seconds

Pictograms for the LEDs

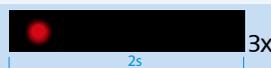
Pictogram	Meaning
	Blurred light indicates that the LED is flashing
	Clear light indicates that the LED is lit steadily
	The LED flashes x times in x seconds <i>Example: The LED flashes 3 times in 2 seconds</i>
	The LED flashes continuously for x seconds <i>Example: The LED flashes continuously for 5 seconds</i>
	The LEDs flash in sequence continuously

Overview of LED indicators

LED indications during operation

LED	Meaning
	The headset switches on Pairing with a device is successful
	The headset switches off
	The headset is disconnected from the device
	The paired devices are permanently removed from the headset
	The headset is in pairing mode

LED indications during calls

LED	Meaning
	Incoming call
	Incoming call with an almost empty battery

The pictogram “i”

 Notes marked with the pictogram “i” provide useful information on the use of the headset.

Overview of buttons and switches

NoiseGard/ANC control switch

Position	Function	Page
	NoiseGard is off	20
	NoiseGard is full-on (constantly)	20
	NoiseGard is in Adaptive mode	20

Sound Effect Mode button

Press	Function	Page
	Switches to the next sound effect (except when making calls)	21
	Activates/deactivates the Call Enhancement/ Room Experience feature for more comfortable calls	21
	Advises you of the active Sound Effect Mode (while playing/streaming audio)	21
	Activates the manual Bluetooth pairing mode	16

Bluetooth on/off switch

Position	Function	Page
	Bluetooth is active	28
	Bluetooth is inactive	28

Overview of gesture controls

Basic gesture controls

Switch on

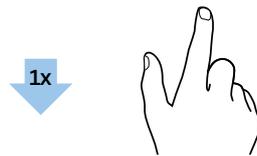


Switch off

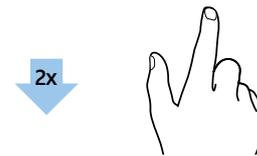


Gesture controls on the touch pad

Tap once on the touch pad



Tap twice on the touch pad



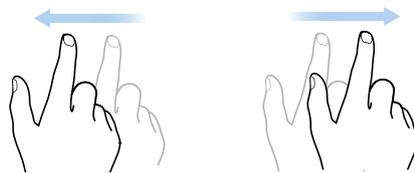
Tap and hold for 2 seconds



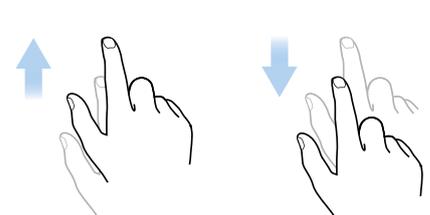
Tap and hold for 3 seconds



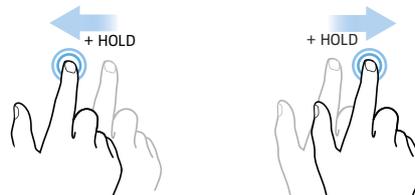
Horizontal swipes



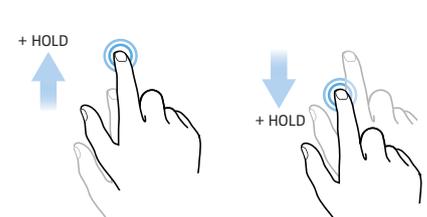
Vertical swipes



Horizontal swipes and hold



Vertical swipes and hold





Overview of CapTune

CapTune is a premium quality music player and a powerful sound tuning app to perfectly personalize your music and communication use. Using the app allows you to control the features and the sound of the headset from your smartphone. Using CapTune, you can perform the following operations among others:

- Control and display supported media content
- Play music streaming services, such as TIDAL, directly within CapTune
- Personalize and optimize the sound of your headset with different sound effect modes
- Adjust **NoiseGard** Hybrid Adaptive Active Noise Cancellation according to your comfort level
- Change Audio Prompts
- Activate Call Enhancement/Room Experience for clearer and more comfortable calls
- Play/pause music or accept/end calls instantly with Smart Pause
- View the remaining battery life of the headset

The appearance of the app may vary depending on the device and operating system used.

Sample screen	Functions
	<p>Music Player</p> <ul style="list-style-type: none"> • Local media content • Streaming services • Playlists
	<p>Special features for MB 660 wireless headset</p> <ul style="list-style-type: none"> • Adjustable NoiseGard parameters • Call Enhancement/Room Experience • Smart Pause • Change Audio Prompts

Sample screen	Functions
	Sound adjustments <ul style="list-style-type: none"> • Equalizer • Presets • SoundCheck • Select and configure sound effect modes
	Profiles <ul style="list-style-type: none"> • Customize profile settings • One-click reload of previously configured playlists and sound settings tailored for specific applications such as sports



While the MB 660 is optimized for use with CapTune, you can still play content from other music players/streaming apps as usual. If you use other music players or apps, CapTune simply turns into a sound setting and remote control for the MB 660 wireless headset.

Overview of Audio Prompts

By factory default, voice prompts are activated in English.

With CapTune, you can use voice and/or tones as response prompts when performing an action. If voice prompts are activated, you can replace the default language with any of the following supported languages:

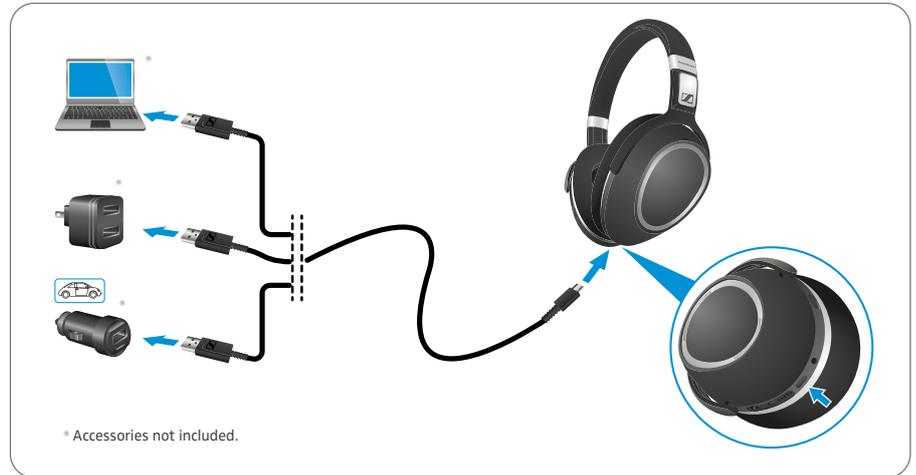
- German
- French
- Spanish
- Chinese (Mandarin)
- Japanese
- Russian
- Korean

Getting started

The following steps assume that the headset is straight out of the packaging, or that the features of the headset have not been enhanced using CapTune.

The response of the headset on the procedures specified in this instruction manual may change if some features have been activated or deactivated in CapTune.

Charging basics



A complete charging cycle takes about 3 hours. Before using the headset for the first time, charge the headset for a complete charging cycle without interruption.

When being charged, the LED display lights up as indicated in the following table. When the battery charge drops to a low level, a voice prompt asks you to recharge the headset.

It is recommended to charge the headset using only the supplied USB cable. If you charge the headset using an external USB power adapter, it is recommended to use an adapter with an output rating of 500 mA or higher.

You can continue playing music or making calls on your smartphone using Bluetooth while the headset is being charged.

LED display	Meaning
 ...	Battery is almost empty (less than 2% charged)
 ...	Battery is about 2-20% charged
 ...	Battery is about 20-40% charged
 ...	Battery is about 40-60% charged
 ...	Battery is about 60-80% charged
 ...	Battery is more than 80% charged

Charging the headset

You can charge the headset regardless of the power state (on or off).

- ▶ Connect the micro-USB plug of the charging cable to the micro-USB input of the headset.
 - ▶ Connect the USB plug to the USB port of your computer. If you are using an external power adapter, connect the USB plug to the power adapter or to the USB car charger adapter, and connect to the power source.
- The LEDs flash/light up depending on the battery life of the headset.



i For faster charging, charge the headset while it is switched off. For more information on playing music using the USB cable, see page 23.

Installing CapTune

To make full use of all the features of your MB 660 Wireless headset, install the free CapTune app from the App Store or Google Play.

- ▶ Download the app from the App Store or Google Play. Optionally, depending on your smartphone, you can scan the following QR code.



iPhone



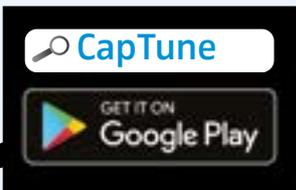


Download on the
App Store



Android





GET IT ON
Google Play



- ▶ Connect your smartphone to the MB 660 Wireless headset using Bluetooth (see page 14).
- ▶ Start CapTune. CapTune recognizes the MB 660 Wireless and activates the features that are compatible with your headset.

Pairing the headset

CAUTION

Danger of malfunction!



The transmitted radio waves of mobile phones can impair the operation of sensitive and unprotected devices.

- ▶ Only make calls with the headset in locations where **Bluetooth** is permitted.

To pair your headset with a **Bluetooth** device, you can use NFC or the **Bluetooth** search function. In order that a connection between the headset and a **Bluetooth** device can be established, **Bluetooth** must be activated on both your headset and the device.

The MB 660 Wireless headset complies with the **Bluetooth** 4.2 standard. In order that data can be transmitted wirelessly using **Bluetooth**, you have to pair your headset with a compatible **Bluetooth** device that supports the following profiles:

- Hands Free Profile (HFP)
- Headset Profile (HSP)
- Audio/Video Remote Control Profile (AVRCP)
- Advanced Audio Distribution Profile (A2DP)
- Device ID Profile (DIP)

When you switch the headset on for the first time, it automatically enters the pairing mode. If the headset has already been paired with a few devices, it automatically tries to connect to the last two connected **Bluetooth** devices when switched on. The headset can save the connection profiles of up to eight **Bluetooth** devices with which it have been paired.

If you pair the headset with the ninth **Bluetooth** device, the saved connection profile of the least used **Bluetooth** device will be overwritten. If you want to re-establish a connection with the overwritten **Bluetooth** device, you have to pair that device back with the headset.

You can instantly pair the headset with your device if the device supports NFC.



Using the headset with a PC and a Bluetooth USB dongle

To use the headset with a softphone, you either require a PC supporting **Bluetooth** or an additional **Bluetooth** USB dongle (wireless audio transmitter and receiver).

The BTD 800 USB or BTD 800 USB ML **Bluetooth** dongle is supplied together with the MB 660 UC or MB 660 UC MS variants and is pre-paired with the headset.

To use the headset with a **Bluetooth** USB dongle:

- ▶ Plug the **Bluetooth** dongle into the USB port of your PC.
- ▶ Follow the instructions in the next chapter, as well as those given in the instruction manual of your **Bluetooth** dongle.





Pairing the headset with a Bluetooth device using NFC

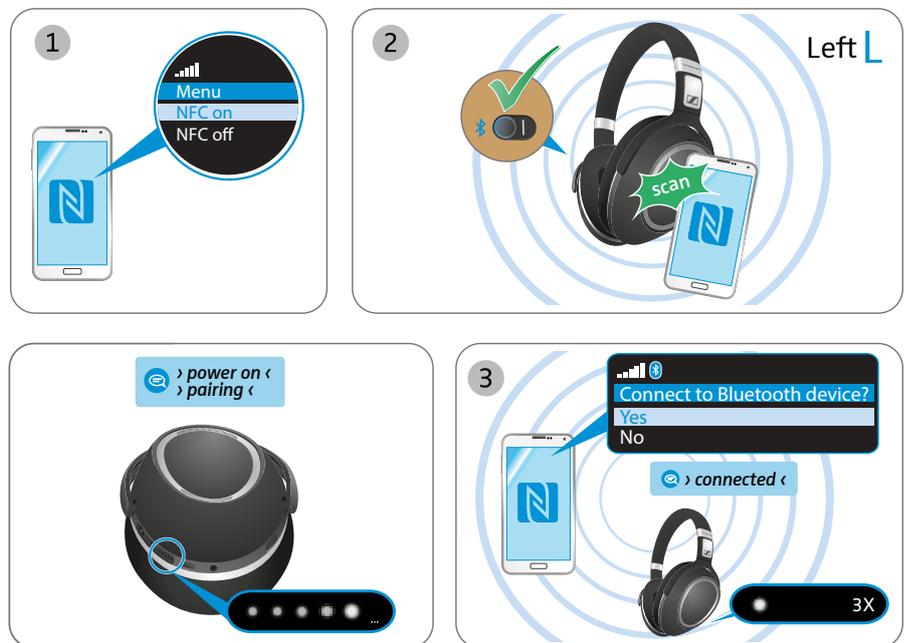
The following sections describe, using a smartphone as an example, how to pair your MB 660 Wireless headset with a **Bluetooth** device using NFC. If the instructions provided do not work on your device, proceed as described in the instruction manual of the device.

- ▶ Switch the headset on and ensure that **Bluetooth** is activated on the headset when performing this procedure.

1. Activate NFC on your smartphone.
2. Scan the smartphone to the NFC panel on the left ear cup of the headset. The LEDs flash white in sequence and you hear the voice prompt "pairing". The headset is in pairing mode.

i At this point, if you decide to cancel pairing, press the Sound Effect Mode button once. You hear the voice prompt "pairing cancelled" after a few seconds.

3. Choose "Yes" in the pairing confirmation dialog of your smartphone (this step may vary depending on your smartphone). If pairing was successful, you hear the voice prompt "connected". The LED flashes white 3 times.



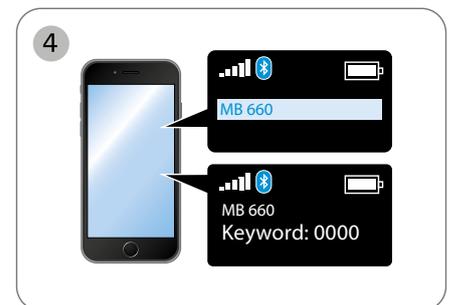
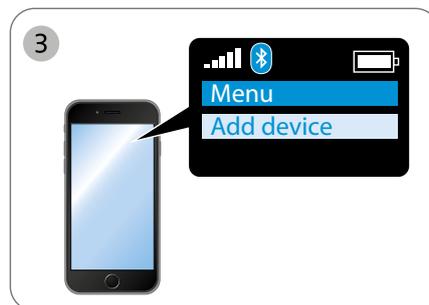
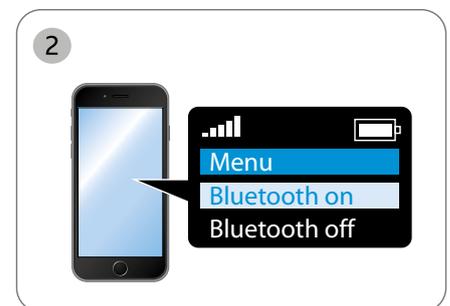
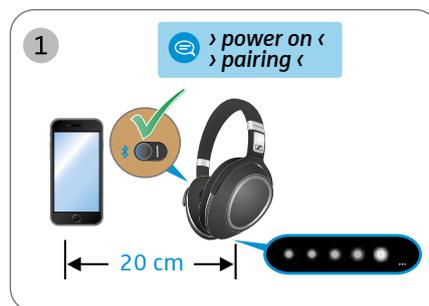
i If no connection could be established within 5 minutes, pairing mode is terminated and you hear the voice prompt "no device found". Restart the headset by switching it off and on again, and repeat the pairing procedure.



Pairing the headset with a Bluetooth device

Ensure that the headset is within the 20 cm range of your smartphone and that **Bluetooth** is activated on the headset when performing this procedure.

1. Switch the headset on (see page 18).
If the headset doesn't automatically enter pairing mode, press the Sound Effect Mode button for 4 seconds or until you hear tones and the voice prompt "pairing".
The LEDs flash white in sequence. The headset is in pairing mode.
2. Activate **Bluetooth** on your smartphone.
3. On your smartphone, start a search for **Bluetooth** devices.
All active **Bluetooth** devices in the proximity of your smartphone are displayed.
4. From the list of found **Bluetooth** devices, select "MB 660". If necessary, enter the default PIN code "0000".
You hear the voice prompts "pairing successful" and "phone x connected".
The LED flashes white 3 times.



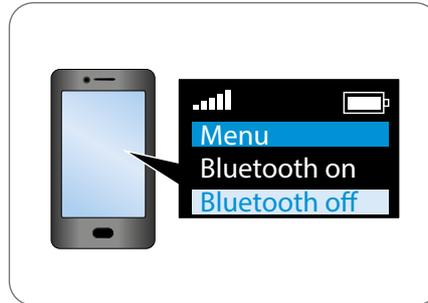
- i** If no connection could be established within 5 minutes, pairing mode is terminated and you hear the voice prompt "no device found". Restart the headset by switching it off and on again, and repeat the pairing procedure.



Disconnecting the headset from your Bluetooth device

- ▶ Deactivate **Bluetooth** on your smartphone.

The headset is disconnected from the smartphone, and you hear the voice prompt "phone x disconnected". The headset then searches for previously paired devices. If no device is found, you hear the voice prompt "no device found" after a few minutes.



Adjusting the headband

For good sound quality and best possible wearing comfort, you can adjust the ear pad location on the headband to properly match the size of your head.

- ▶ Wear the headset so that the headband runs over the top of your head.
- ▶ Adjust the location of the ear pads by moving the ear cups up and down the headband slider until:
 - your ears are comfortably covered by the ear pads,
 - you feel even, gentle pressure around your ears,
 - a snug fit of the headband on the head is ensured.



Using the MB 660

Switching the MB 660 on

WARNING

Danger due to high volume levels!



Listening at high volume levels for long periods of time can lead to permanent hearing defects.

- ▶ Before putting the MB 660 wireless headset on, set the volume to a low level.
- ▶ Do not continuously expose yourself to high volume levels.

1. Unfold the ear cups away from the headband.
2. Twist the ear cups outward until you hear a click sound from both hinges.
 - If **Bluetooth** is activated on the headset, you hear the voice prompts “power on” and “phone x connected” after a few seconds.
 - If **Bluetooth** is deactivated on the headset, you hear the voice prompt “power on”. Insert the USB or audio cable if necessary.

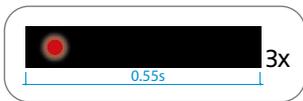


i If **Bluetooth** is activated and the headset cannot find a paired device within a few minutes, you hear the voice prompt “no device found”. The first LED flashes white.

Switching the MB 660 off

1. Hold the headset so that the left hand holds the right ear cup and the right hand holds the left ear cup.
2. Twist the ear cups inward until you hear a click sound from both hinges and the touch pad faces toward you. You hear the voice prompt “power off” after a few seconds. The first LED flashes red 3 times.

i The red dot displayed on the hinge of the right ear cup also indicates that the headset is switched off.



Adjusting the volume

WARNING

Danger due to high volume levels!



Listening at high volume levels for long periods of time can lead to permanent hearing defects. Switching between audio sources may cause enormous volume jumps that can permanently damage your hearing.

- ▶ Before putting the headset on and before switching between audio sources, adjust the volume to a low level.
- ▶ Do not continuously expose yourself to high volume levels.

You can adjust the volume for music, voice prompts, tones, and phone calls.

If you are playing music or are on a call:

- ▶ Swipe vertically up or down on the touch pad to increase or decrease the volume for music or calls.

If you are in idle mode, i.e. if you are not playing music/making calls:

- ▶ Swipe vertically up or down on the touch pad to increase or decrease the volume for voice prompts and tones.

Gesture	Function
	 Increases the volume
	 Decreases the volume

Depending on the length of the swipe, you can adjust the volume in smaller increments by doing a short swipe on the touch pad. To adjust the volume in larger increments, do a longer swipe on the touch pad. When the maximum or minimum volume is reached, you hear the voice prompt “*volume max*” or “*volume min*” accordingly.

When switching the headset off, very high volume levels are reset to a moderate level to protect your hearing when you switch the headset back on.



Using NoiseGuard

You can activate or deactivate **NoiseGuard** if your headset is connected to the smartphone using **Bluetooth**, a USB cable, or an audio cable (provided that the battery is sufficiently charged).

If you are in a noisy environment but would like to have your own quiet space, you can use the headset itself, without cable and disconnected from any device, and simply benefit from **NoiseGuard**.

The MB 660 provides excellent attenuation of ambient noise using Sennheiser's proprietary **NoiseGuard** technology. The MB 660 also features **Adaptive NoiseGuard**; when **Adaptive NoiseGuard** is selected, active noise cancellation depends on the intensity of ambient noise. With **Adaptive NoiseGuard**, active noise cancellation can be strong if the ambient noise is high, or weak if the ambient noise is low.

Switching NoiseGuard to different modes



► Indicates that **NoiseGuard** is switched off.



► Indicates that **NoiseGuard** is switched on. **NoiseGuard** attenuates the ambient noise to the maximum extent.



► Indicates that **NoiseGuard** is switched to Adaptive mode. **NoiseGuard** attenuates ambient noise depending on the noise intensity.

i If you set **NoiseGuard** to Adaptive mode, you can control the extent of **NoiseGuard** noise cancellation in CapTune.

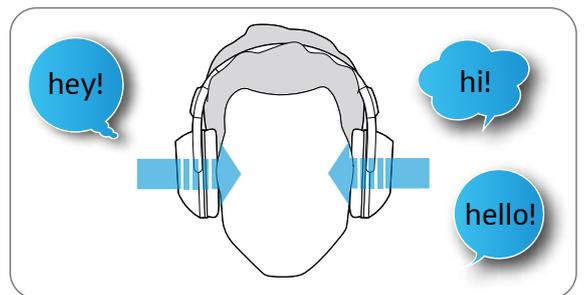
Switching TalkThrough on/off



TalkThrough allows you to communicate with other people without having to remove the headset, even when **NoiseGuard** is switched on.

To switch TalkThrough on and off while playing music:

- Quickly tap the touch pad twice. TalkThrough is activated.
 - If you are playing music using **Bluetooth** or the USB cable, the music pauses.
 - If you are playing music using the audio cable, the music is muted.





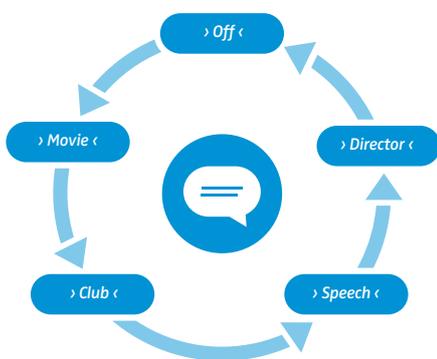
Changing the sound effect

The sound effect mode function is automatically activated when the headset and the smartphone are connected using **Bluetooth** or the USB cable.

You can use the Sound Effect Mode button to enhance the quality of your audio according to its genre or category.

Sound effect	Meaning
Off	Effect mode is switched off.
Movie	For more exciting entertainment. Best for movies.
Club	For more room impression. Best for music.
Speech	For higher intelligibility. Best for podcasts or audiobooks.

i There is another sound effect that is not available from the selection by default. The customizable "Director" mode needs to be configured in CapTune in order to be available from the selection next time you use the headset.



Changing or checking the sound effect

To change or check the sound effect:

- ▶ Press the Sound Effect Mode button. This toggles you to the next sound effect. You hear the voice prompt stating the activated sound effect.
 - "Effect Mode Club"
 - "Effect Mode Movie"
 - "Effect Mode Speech"
 - "Effect Mode Off"
- ▶ Press and hold the Sound Effect Mode button for about 4 seconds. You hear tones and the voice prompt for the activated sound effect.

i Customizing a sound effect (Director mode)

The "Director" mode is an additional sound effect that can be activated only from CapTune. This mode allows you to create a custom sound effect by changing the sound enhancements such as Boost, Spatial, Reverberation, and DLC.

Activating/deactivating Call Enhancement/Room Experience

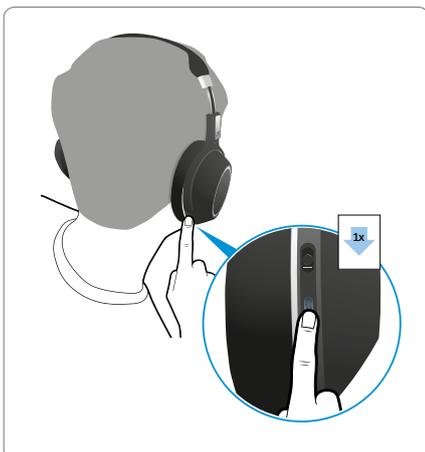


Call Enhancement is a voice-enhancing feature that utilizes Sennheiser's RoomExperience technology. Call Enhancement reproduces voice calls naturally, giving you the impression that you are talking to another person from within the same room rather than on the other side of the line.

You can activate or deactivate Call Enhancement/Room Experience during calls when the headset and the smartphone are connected using **Bluetooth** or the USB cable.

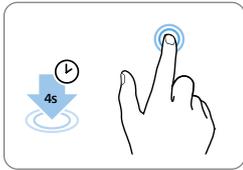
- ▶ During a call, press the Sound Effect Mode button. Call enhancement toggles between on and off.
- ▶ During a call, press and hold the Sound Effect Mode button for about 4 seconds. You hear the voice prompt for the current Call Enhancement status.

i You can also activate or deactivate Call Enhancement in CapTune.



Checking the battery life of the headset

You can check the remaining battery life at any given time except when playing music or making calls.



- ▶ Tap and hold the touch pad for about 4 seconds. You hear tones and the voice prompt stating the remaining battery life. The LEDs flash/light up depending on the battery level.

LEDs	Meaning	Voice prompt
	Battery is almost empty (less than 2% charged)	"Recharge headset"
	Battery is about 2-20% charged	"Less than 20% battery left"
	Battery is about 20-40% charged	"More than 20% battery left"
	Battery is about 40-60% charged	"More than 40% battery left"
	Battery is about 60-80% charged	"More than 60% battery left"
	Battery is more than 80% charged	"More than 80% battery left"



i You may also check the battery life of the headset in CapTune or directly on the home screen of your smartphone.

Playing music

You can play music using **Bluetooth** or using the USB or audio cable.

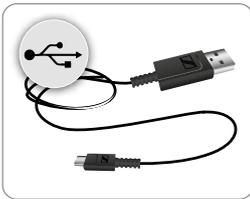
Playing music wirelessly



If your audio source supports the aptX® audio codec, the MB 660 automatically plays your music wirelessly in stunning aptX® audio quality. If your audio source does not support aptX®, the MB 660 plays your music in normal audio quality.

- ▶ Pair your headset with the smartphone, see page 14.
- ▶ Play music on your smartphone.
The music plays through the MB 660 wireless headset.

Playing music using the USB cable



With the supplied USB cable connected, you can play audio content from your computer directly through the MB 660 wireless headset.



The battery gets charged automatically when you connect the headset to a computer using the USB cable.

If you want to connect the USB cable and deactivate all wireless connections, deactivate **Bluetooth** on your headset, see page 28.

Using the headset as the default audio device of your computer



- ▶ Make sure that the MB 660 Wireless is connected to the computer using the USB cable.
- ▶ From the Systems Preferences or Control Panel of your computer, select "Sennheiser MB 660" as the default audio (input and output) device.
- ▶ Start music playback from the computer.
The music plays through the MB 660 wireless headset.

Controlling music playback



The following music functions are only available when the headset and your device are connected using **Bluetooth** or the USB cable. Some smartphones or music players may not support all functions.

Playing/pausing music

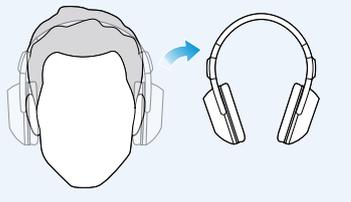
- ▶ Quickly tap on the touch pad.



Gesture	Function
	Plays or pauses music

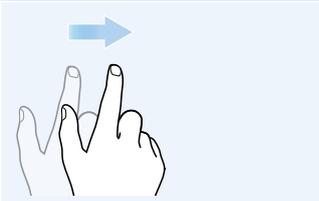
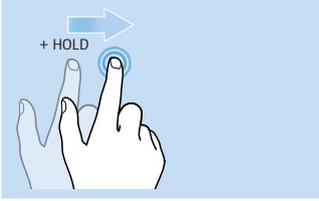
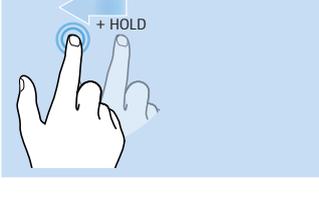
i Smart Pause is a feature that enables the headset to respond to gestures. These gestures include taking the headset off to pause music and putting it back on to resume music playback.

By factory default, Smart Pause is inactive. For the headset to respond to these gestures, ensure that Smart Pause is activated in CapTune. Some smartphones or music players may not support this feature.

Gesture	Function
	 Pauses the music
	 Plays back the music

Playing the next/previous track

► Quickly swipe the touch pad horizontally.

Gesture	Function
	 Plays the next track in the playlist
	 Fast-forwards the track
	 Plays the previous track in the playlist
	 Rewinds the track

Making calls via the MB 660



The following call functions are only available when the MB 660 wireless headset and the smartphone are connected using **Bluetooth** or the USB cable. Some smartphones may not support all functions.

Making a call

► Dial the desired number on your smartphone.

i If your smartphone does not automatically transfer the call to the MB 660, select the MB 660 as the audio source on your smartphone (see the instruction manual of your smartphone if necessary).

Accepting/rejecting/ending a call

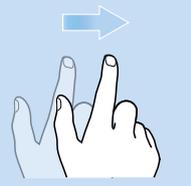
When you receive a call, you hear the ring tone in the MB 660 Wireless and the LED flashes white rapidly. If you are playing music when you receive a call, the music pauses until you end the call.



► Tap the touch pad accordingly:

Press	Function	Signal
1x		Accepts a call
1s		Ends a call "Call ended"
1s		Rejects a call "Call rejected"
1x	 	Accepts an incoming call and ends the active call
2x		Puts the call on hold
2x	 	Accepts an incoming call and puts an active call on hold
2x	 	Toggles between 2 active calls
1s	 	Rejects an incoming call and continues the active call

While on a call, you can mute or unmute the microphone using these swipes.

Gesture	Function	Voice prompt
	 Mutes the microphone	"Mute on"
	 Unmutes the microphone	"Mute off"

i Smart Pause is a feature that enables the headset to respond to gestures. These gestures include taking the headset off to put a call on hold and putting it back on to resume the call.

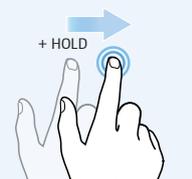
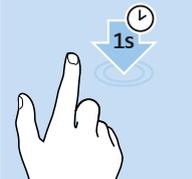
By factory default, Smart Pause is inactive. For the headset to respond to these gestures, ensure that Smart Pause is activated in CapTune. Some smartphones or softphones may not support this feature.

Gesture	Function
	 Accepts a call Resumes a hold call
	 Puts the call on hold
	  Rejects an incoming call and holds the active call

Redialing

The redialing function must be supported by your smartphone or **Bluetooth** device (with HFP profile). This function may be required to be activated on your smartphone.

- Swipe forward on the touch pad and hold.

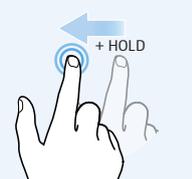
Press	Function	Voice prompt
	 Redials the last number called	"redial"
	 Cancels redialing	"redial cancelled"

Voice control function

The voice control function is only supported by **Bluetooth** smartphones with HFP profile.

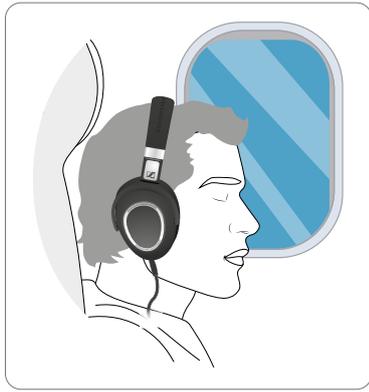
You can use the voice control function at any given time except when playing music or making calls.

1. Swipe backward on the touch pad and hold.

Press	Function	Voice prompt
	 Starts voice dialing	"voice dial"
	 Cancels voice dialing	

2. Say your voice command, such as "Call Jane".

The **Bluetooth** smartphone dials the phone number of Jane.

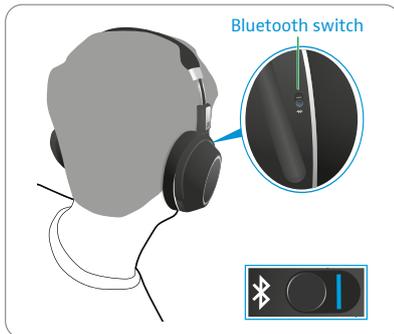


Setting the MB 660 to flight mode

During taxi, take-off, and landing, the use of portable electronic devices is allowed, provided that they are set to flight mode. You can use your headset without violating civil aviation regulations by deactivating **Bluetooth** wireless transmission.

There are 2 ways to set the headset to flight mode:

- ▶ Deactivate **Bluetooth** on the headset.
- ▶ Use the audio cable to listen to music.



Activating/deactivating Bluetooth

In instances where you just want to block out aircraft/ambient noise during a flight, ensure that **Bluetooth** is deactivated and **NoiseGard** is switched on. To switch **NoiseGard** on in full or set it to Adaptive Mode, see page 20.

- ▶ Use the **Bluetooth** switch to activate or deactivate **Bluetooth** on the headset:
 - Activate **Bluetooth** "1" if you want to use the wireless features of the headset, such as pairing another device with the headset or playing music wirelessly.
 - Deactivate **Bluetooth** "0" if wireless transmission is restricted, such as during aircraft taxi, take-off, and landing.



Using the audio cable

There are 2 connection modes when you use the audio cable:

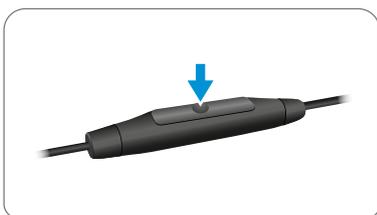
- **Active mode** - the connection mode when the audio cable is used on the headset with sufficient battery life.
- **Passive mode** - the connection mode when the audio cable is used on the headset with empty battery. **NoiseGard** is inactive.

Regardless of the position of the **Bluetooth** switch, **Bluetooth** is deactivated when the audio cable is plugged into the audio input of the headset. If the USB cable is being used, the transmission via USB is disabled and the headset enters the flight mode when the audio cable is plugged in.

When you are using the in-flight entertainment (IFE) system of your airline, the audio from the IFE may be interrupted by important announcements from the public address (PA) system. In most cases, the announcements are much louder than the audio of the IFE. The MB 660 Wireless headset recognizes this and eliminates the volume jump when the sound source switches between PA and IFE system.

After the announcement from the PA system, the volume of the headset stays low. If you want to increase the volume of your audio, adjust the volume on the IFE system.

i If you want to increase the volume on the headset and the volume does not increase as usual, restart the headset by switching it off and on again.



Using the answer/end button of the audio cable

Optionally, you can play or pause music by pressing the answer/end button of the supplied audio cable. You can also make, accept, and end calls using the button.

Using the headset in flight mode

1. Insert the 2.5 mm jack plug into the audio input of the headset.
Bluetooth is deactivated.

 If you are playing music on the headset using **Bluetooth** and the audio cable is plugged in, **Bluetooth** is deactivated and the music stops.

2. Connect the 3.5 mm jack plug to:
 - the audio output of your smartphone
 - the in-flight adapter if you want to use the headset with an IFE system



CAUTION

Bluetooth may transmit radio waves when the audio cable is pulled off!



Only use the product in environments where **Bluetooth** wireless transmission is permitted.

- ▶ Deactivate **Bluetooth** on the headset (see page 28), to ensure that the headset does not transmit radio waves when the audio cable is unplugged.

 You can also play higher resolution music when in flight mode by connecting your headset to your computer using the supplied USB cable. If you use the USB cable to listen to music in environments where **Bluetooth** wireless transmission is restricted, you have to deactivate **Bluetooth** on all devices.

Care and maintenance

CAUTION

Liquids can damage the electronics of the product!



Liquids entering the housing of the product can cause a short-circuit and damage the electronics.

- ▶ Keep all liquids away from this product.
- ▶ Do not use any solvents or cleaning agents.

Replacing the ear pads

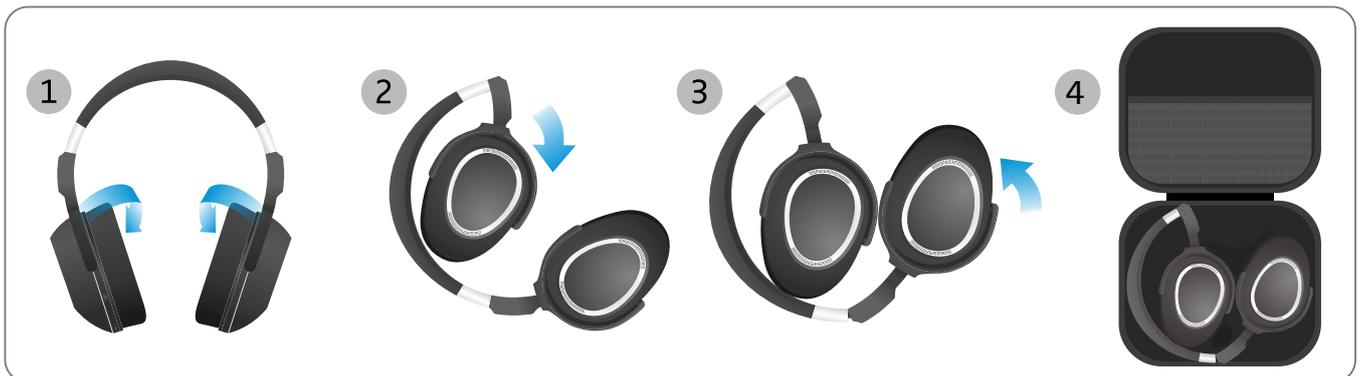
For reasons of hygiene, you should replace the ear pads from time to time. Spare ear pads are available from your local Sennheiser partner.

1. Lightly pull the ear pad away until it is detached from the ear cup hooks.
2. Secure the new ear pad by inserting the plastic base of the ear pad to the hooks on the ear cup.
3. Lightly pull the ear pad evenly on all sides to ensure that the base of the ear pad is securely hooked to all corners of the ear cup.

Storage and handling

To keep the headset in good condition and to avoid nicks and scratches, store the headset in a carry case when not in use or when carrying it around.

- ▶ Follow the illustrations below to fold and store your headset.



Removing the rechargeable battery

CAUTION

Danger of damage to the product!

During the warranty period, the rechargeable battery must only be replaced by an authorized Sennheiser service center, otherwise the warranty will be null and void.

- ▶ Contact your Sennheiser service center if the rechargeable battery needs to be replaced or removed. To find a Sennheiser service partner in your country, visit www.sennheiser.com.

Outside the warranty period, the rechargeable batteries may be removed by any qualified service center in an appropriate manner. Instructions for qualified service centers on how to remove the batteries are available from the Sennheiser service partner.

Troubleshooting

Problem	Possible cause	Possible solution	Page
Headset cannot be switched on	Battery is empty	Charge the headset	14
	Battery is completely exhausted/ worn out	Visit an authorized Sennheiser service center for battery replacement	30
No audio signal	Headset is not paired with the smartphone/ Bluetooth device	Check if the headset is paired. If necessary, pair the headset with the smartphone again	14
	Volume too low	Increase the volume	19
	Headset is in pairing mode	Ensure that the headset and smartphone are paired successfully	14
Headset cannot connect	Bluetooth is deactivated on your smartphone	Activate Bluetooth on your smartphone	28
	Smartphone is switched off	Switch your smartphone on	
	Pairing does not work	Check if your smartphone supports the HFP or HSP Bluetooth profile	
Headset does not respond to any button press	Headset is not functioning properly	Restart the headset by switching it off and on again. If necessary, do a reset	33
The LED flashes red while connecting	The connection is not established	Ensure that the distance between headset and smartphone is less than 20 cm Ensure that Bluetooth is activated on both the headset and the smartphone	
Smartphone cannot detect the headset	Bluetooth is deactivated on the headset	Activate Bluetooth on the headset	28
	Audio cable is plugged into the audio input (the headset is in flight mode)	Unplug the audio cable	
Voice prompts specified in this instruction manual cannot be heard	Voice Prompt is deactivated in CapTune	Activate Voice Prompt in CapTune	
Headset does not respond to Smart Pause gestures	Smart Pause is deactivated by factory default	Activate Smart Pause in CapTune	
	Smart Pause may not be compatible with your music player	Try another music player or streaming app	
Headset and Bluetooth device cannot connect using Bluetooth / NFC	Headset is switched off	Ensure that the headset is switched on during pairing	14
	Device does not support NFC pairing	Pair the headset and the device manually using Bluetooth	16
	Headset is in flight mode or the audio cable is plugged into the audio input	Activate Bluetooth on the headset and/or unplug the audio cable from the audio input	28
	Bluetooth is deactivated on the headset	Activate Bluetooth on the headset	28
Headset does not automatically go to pairing mode	Bluetooth is deactivated on the headset	Activate Bluetooth on the headset	28
	Headset must have been paired previously to some devices	Press the Sound Effect Mode button for 4 seconds	16

Problem	Possible cause	Possible solution	Page
Headset does not go to pairing mode after the 4-second press of the Sound Effect Mode button	Bluetooth is deactivated on the headset	Activate Bluetooth on the headset	28
	Music is playing through the headset or a call is in progress	Restart the headset by switching it off and on again. The headset cannot enter pairing mode when music is being played or calls are being made	
Headset does not attenuate the ambient noise even though NoiseGard is active	Ear pads are not attached properly after replacement/removal	Ensure that ear pads are securely hooked to all corners of the ear cups	30
Audio stops when adjusting the headset	Smart Pause is active and adjusting or taking the headset off triggers a pause command	Ensure that the headset fits comfortably around the ears with gentle pressure Deactivate Smart Pause in CapTune if necessary	17

If you encounter a problem that is not listed in the table, or if the solutions provided do not work, please contact an authorized Sennheiser service partner for assistance.

To find a Sennheiser service partner in your country, visit www.sennheiser.com.



Leaving the Bluetooth transmission range

Wireless calling and streaming are only possible within the **Bluetooth** transmission range of your smartphone. The transmission range largely depends on environmental conditions such as wall thickness, wall composition etc. With a free line of sight, the transmission range of most smartphones and **Bluetooth** devices is up to 25 meters.

If the headset leaves the **Bluetooth** transmission range of the smartphone, the sound quality deteriorates until you hear the voice prompt “lost connection... phone x disconnected”. At this point, the connection breaks down completely. If you immediately return to the **Bluetooth** transmission range, the connection is automatically re-established and you hear the voice prompt “connected”.

Resetting the headset

If the headset is not functioning properly, reset the headset.

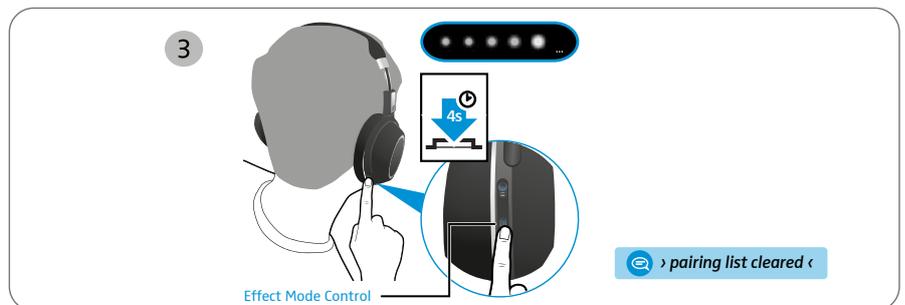
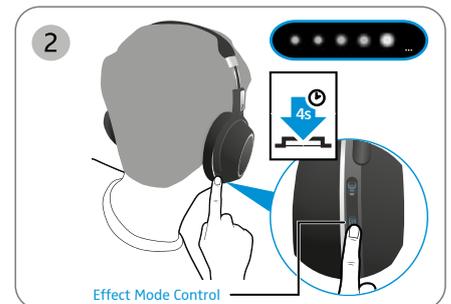
1. Switch the headset off. See page 18.
2. Press the Sound Effect Mode button for 4 seconds.

 You can restore the headset to its factory default settings using CapTune.

Clearing previously paired devices

Ensure that **Bluetooth** is activated on the headset when performing this procedure.

1. Restart the headset by switching it off and on again (see page 18).
2. Press the Sound Effect Mode button for 4 seconds.
You hear tones and the voice prompts “phone x disconnected” and “pairing” and the LEDs flash white in sequence.
3. Press the Sound Effect Mode button again for 4 seconds until you hear tones and the voice prompt “pairing list cleared”.
The LEDs flash white in sequence. The headset is permanently disconnected from all devices and enters pairing mode.



Specifications

MB 660 Wireless Headset

Ear coupling	around ear
Frequency response	17 Hz - 23 kHz
Transducer principle	dynamic, closed
Sound pressure level (SPL)	110 dB (passive: 1 kHz/ 1 V _{rms})
Impedance	<i>active mode:</i> 490 Ω <i>passive mode:</i> 46 Ω
THD (1 kHz, 100 dB SPL)	< 0.5 %
Pick-up pattern (speech audio)	3-mic beamforming array
Noise cancellation	NoiseGard™ hybrid technology with 4 pick-up microphones
Total noise attenuation	up to 30 dB
Input power	3.7 VDC, 700 mAh: built-in rechargeable Lithium-Polymer battery 5 VDC, 345 mA: USB charging
Operating time	20 hours (Bluetooth and NoiseGard on) 30 hours (only NoiseGard on, with or without audio cable for flight mode)
Temperature range	<i>operation:</i> 0 to 40°C/32 to 104°F <i>Sstorage:</i> -20 to 60°C/-4 to 140°F
Relative humidity	<i>operation:</i> 10 to 80%, non condensing <i>storage:</i> 10 to 90%
Charging time	approx. 3 hours
Weight (headset)	227 g



Bluetooth

Version	4.2, class 1
Transmission frequency	2402 MHz to 2480 MHz
Modulation type	GFSK, π/4 DQPSK / 8DPSK
Profiles	HSP, HFP, AVRCP, A2DP, DIP
Output power	10 mW (max)
Codec	aptX®



NFC

Frequency	13.56 MHz
Modulation type	ASK
Output power	within 500 μV/m

Manufacturer Declarations

Warranty

Sennheiser Communications A/S gives a warranty of 24 months on this product. For the current warranty conditions, please visit our website at www.sennheiser.com or contact your Sennheiser partner.

Sennheiser product warranty FOR AUSTRALIA ONLY

In Sennheiser's goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is in addition to other rights or remedies under law. Nothing in this warranty excludes, limits or modifies any liability of Sennheiser which is imposed by law, or limits or modifies any remedy available to the consumer which is granted by law.

To make a claim under this warranty, contact

Sennheiser Australia Pty Ltd, Unit 3, 31 Gibbes Street Chatswood NSW 2067, AUSTRALIA

Phone: (02) 9910 6700, email: service@sennheiser.com.au.

All expenses of claiming the warranty will be borne by the person making the claim. The Sennheiser International Warranty is provided by Sennheiser Australia Pty Ltd (ABN 68 165 388 312), Unit 3, 31 Gibbes Street Chatswood NSW 2067 Australia.

In compliance with the following requirements



- WEEE Directive (2012/19/EU)

Please dispose of this product by taking it to your local collection point or recycling center for such equipment. This will help to protect the environment in which we all live.



- Battery Directive (2006/66/EC & 2013/56/EU)

The product's built-in rechargeable batteries can be recycled. In order to protect the environment, please dispose of defective products with their rechargeable batteries as special waste or return them to your specialist dealer.

- Product Safety Directive (2001/95/EC)

Headphones for mobile players:
EN 60065/A12 or EN 60950/A12, EN 50332-2

CE Conformity

- R&TTE Directive (1999/5/EC)
- RoHS Directive (2011/65/EU)

The CE Declaration of Conformity is available on our website at www.sennheiser.com/download, and search for product by name.

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