M2 IEBT SW

In-Ear Wireless

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 **Bluetooth**® wireless transmission is permitted.

Preventing damage to health and accidents

- Protect your hearing from high volume levels. Permanent hearing damage may occur when headphones are used at high volume levels for long periods of time. Sennheiser headphones sound exceptionally good at low and medium volume levels.
- Do not insert the ear canal phones too deep into your ears and never insert them without ear adapters. Always extract the ear canal phones from your ears very slowly and carefully.
- Keep the headphones at least 10 cm/3.94” from cardiac pacemakers or implanted defibrillators. The headphones contain magnets that generate a magnetic field which could cause interference with cardiac pacemakers and implanted defibrillators.
- 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 or when performing skilled jobs).

Preventing damage to the product and malfunctions

- Always keep the product dry and do not expose it to extreme temperatures to avoid corrosion or deformation. The normal operating temperature is from 10 to 40°C/50 to 104°F.
- Only use attachments/accessories/spare parts supplied or recommended by Sennheiser.
- Clean the product only with a soft, dry cloth.
- Use the product with care and store it in a clean, dust-free environment.

Intended use/Liability

These in-ear wireless headphones are designed for use with mobile devices (e.g. mobile music players, mobile phones, tablets) that support wireless communication via **Bluetooth**. Compatible **Bluetooth** devices include those that support the following profiles: Hands Free Profile (HFP), Advanced Audio Distribution Profile (A2DP), and Audio/Video Remote Control Profile (AVRCP).

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

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

Before putting the product into operation please observe the respective country-specific regulations!

Safety instructions for the Lithium-Polymer battery pack

WARNING

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

- explosion
- fire development
- heat generation
- smoke or gas development

	Dispose of products with built-in rechargeable batteries at special collection points or return them to your specialist dealer.
	Only use rechargeable batteries and chargers recommended by Sennheiser.
	Charge products with built-in rechargeable batteries at ambient temperatures between 10 and 40°C/50 and 104°F.
	Switch battery-powered products off after use.
	When not using the product for extended periods of time, charge its built-in rechargeable batteries regularly (about every 3 months).
	Do not heat above 70°C/158°F, e.g. do not expose to sunlight or throw into fire.
	Do not charge a product with built-in rechargeable batteries if the product is obviously defective.

The M2IEBTSW In-Ear Wireless headphones

The M2 IEBT SW In-Ear Wireless headphones delivers uncompromised style, sound performance and take-anywhere mobility. The high-quality design of the headphones isn't complete without the exceptional wireless sound assured by **Bluetooth** 4.2 and Qualcomm® aptX™ or AAC audio codec.

Features

- Custom-machined, stainless-steel, in-ear sound tunnels for superior acoustic precision
- Supports Qualcomm® aptX™ for true Hi-Fi sound
- Supports AAC (Advanced Audio Coding) for greater sound quality and transparency
- 6 hour battery life with 1.5 hour charging

Bluetooth

The M2IEBTSW In-Ear Wireless headphones comply with the **Bluetooth** 4.2 standard and are compatible with all **Bluetooth** 1.1, 1.2, 2.0, 2.1, 3.0, 4.0 and 4.1 devices with the following profiles: Hands Free Profile (HFP), Advanced Audio Distribution Profile (A2DP), and Audio/Video Remote Control Profile (AVRCP).

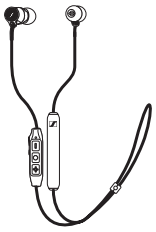
aptX™

With AAC or 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.

aptX™ LL

Qualcomm® aptX™ LL (Low Latency) audio ensures your **Bluetooth**® wireless enabled device can deliver sound in sync with visual media. It reduces delay and improves end-to-end speed of the audio transmission, resulting in a high quality, synchronized user experience. With aptX Low Latency you can enjoy the freedom of wireless for applications such as gaming and watching videos.

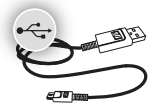
Package includes



Headphones

Carry case

Ear adapters



USB cable for charging

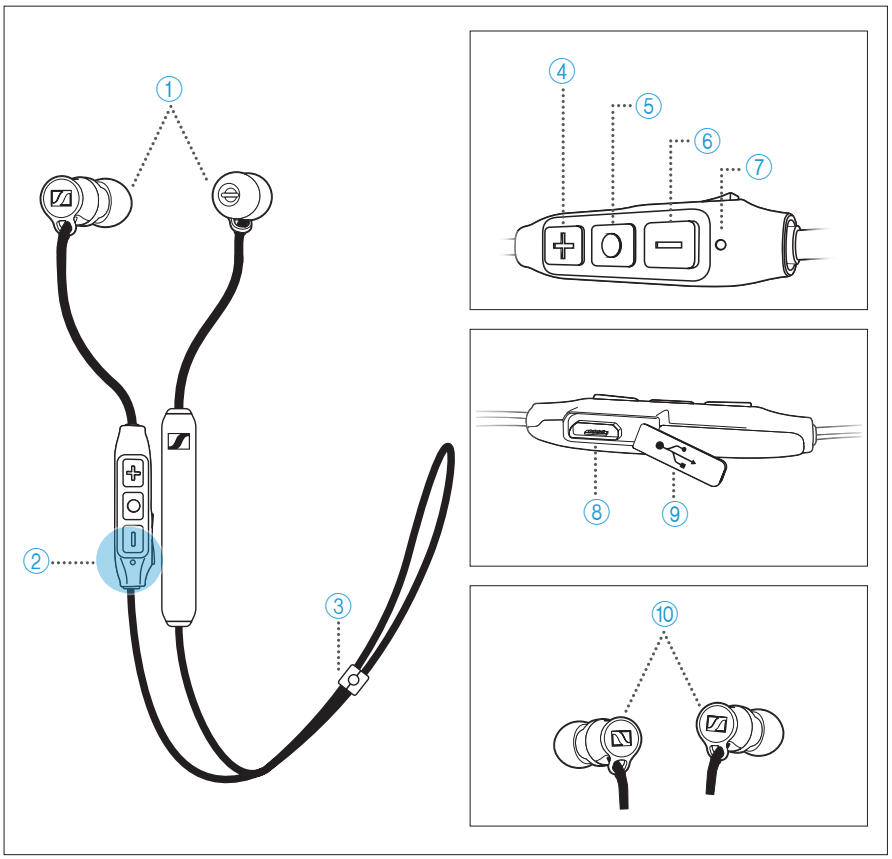
Quick guide

Safety guide

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 headphones



1. Ear adapters
2. **Bluetooth** antenna (not visible)
3. Cable organizer
4. Volume/track + button
5. Multifunction button
6. Volume/track - button
7. LED
8. Micro-USB input
9. Micro-USB cover
10. Magnetic clasp

Overview of pictograms

Pictograms for pressing a button

Pictogram	Meaning
	Press and immediately release the button
	Press the button twice
	Press the button and hold for 2 seconds

Pictograms for the LED

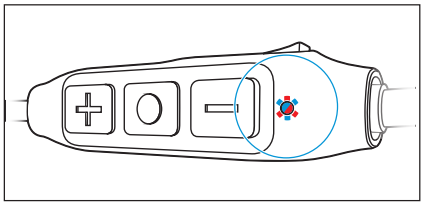
Pictogram	Meaning
	The LED lights up
	The intervals signify flashing
...	The LED lights up/flashes continuously
	The time the LED lights up before blinking

Examples of pictograms that may be used in this manual:

Pictogram	Meaning
	The LED flashes continuously
	The LED lights up for 3 seconds, then off, and repeat
	The LED lights up, then off for 2 seconds, and repeat
	The LED lights up continuously
	The LED continuously flashes blue and red per second

The pictogram “i”

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

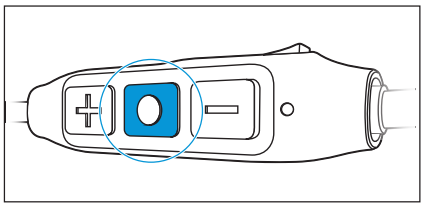


Overview of the LED indications

LED indications during operation

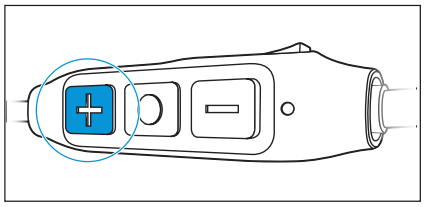
LED	Meaning
	The headphones switch on Pairing/connecting with a device is successful
	The headphones switch off Pairing with a device is unsuccessful
	The headphones are in pairing mode
	Incoming call
	The device is/devices are successfully cleared from the headphones
	The headphones are in idle mode (e.g. headphones are paired but not connected to the device)

Overview of buttons



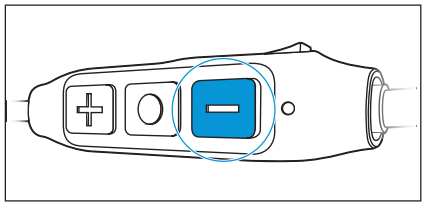
Multifunction button

Press	Function	Page
1x	Accepts/ends a call	22
	Accepts an incoming call and ends the active call	22
	Plays/pauses a track	21
1s	Rejects a call	22
	Transfers a call between the headphones and the smartphone	23
2x	Accepts an incoming call and holds the active call/Toggles between 2 calls	22
3x	Activates the voice control	24



Volume/track + button

Press	Function	Page
1x	Increases the volume	18
1s	Plays the next track	21



Volume/track - button

Press	Function	Page
1x	Decreases the volume	18
1s	Plays the previous track	21

Getting started

Charging basics

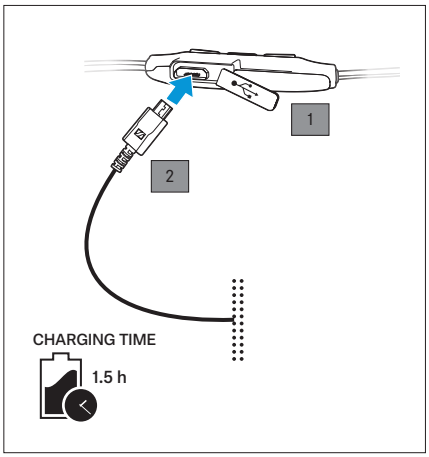
A complete charging cycle takes about 1.5 hours. Before using the headphones for the first time, charge their rechargeable battery for a complete charging cycle without interruption.

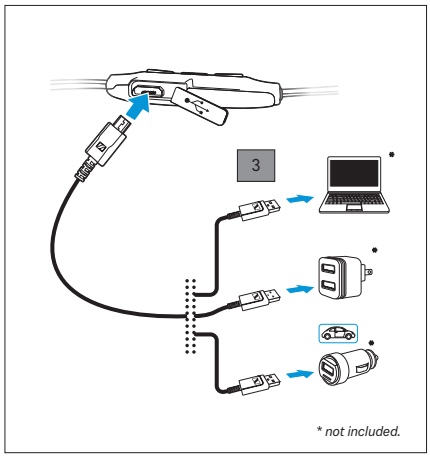
It is recommended to charge the headphones using only the supplied USB cable. If you are charging using an external USB power adapter, it is recommended to use an adapter with an output rating of 500 mA or higher.

LED	Meaning
	Charging
	Fully charged

Charging the headphones

1. Open the micro-USB cover to access the micro-USB input.
2. Connect the micro-USB plug of the charging cable to the micro-USB input of the headphones.
3. 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 LED flashes/lights up depending on the battery life of the headphones. The headphones utilize an intelligent battery charging technology that prevents overcharging.





Charging time may take longer at ambient temperatures below 15°C/59°F.

Pairing the headphones

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 headphones in locations where **Bluetooth** wireless transmission is permitted.

The M2IEBTSW In-Ear Wireless headphones comply with the **Bluetooth** 4.2 standard. In order that data can be transmitted wirelessly using **Bluetooth** technology, you have to pair your headphones with compatible **Bluetooth** devices that support the following profiles:

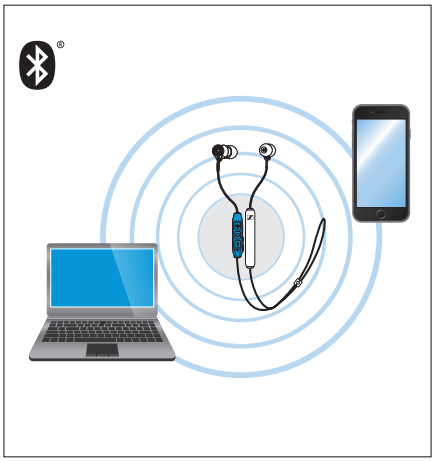
▶ Hands Free Profile (HFP)

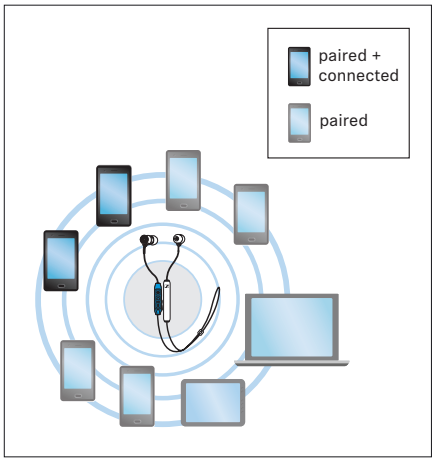
▶ Audio/Video Remote Control Profile (AVRCP)

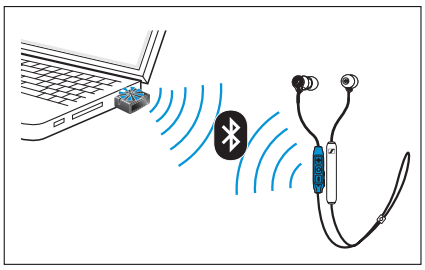
▶ Advanced Audio Distribution Profile (A2DP)

When you switch the headphones on for the first time, they automatically go to pairing mode. If the headphones have already been paired with a few devices, they automatically try to connect to the two most-recently connected **Bluetooth** devices. The headphones can save the connection profiles of up to eight **Bluetooth** devices or smartphones.

If you pair the headphones with a 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 the headphones again.







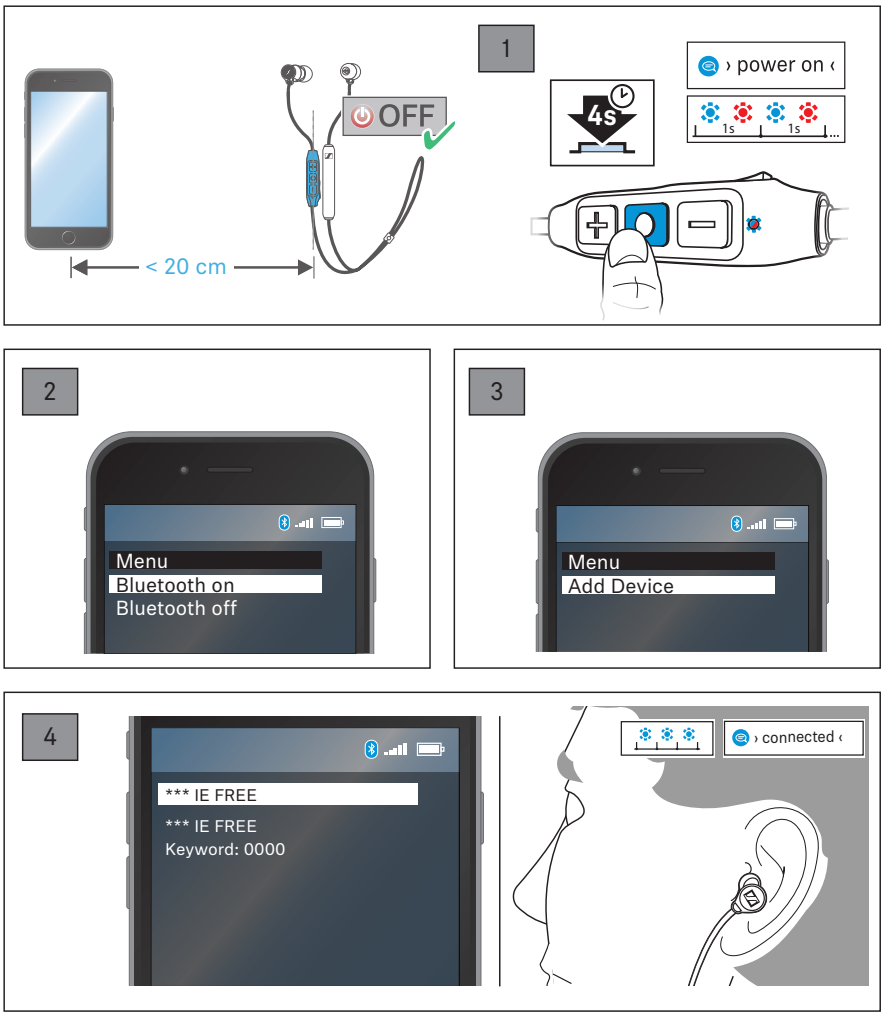
To pair and connect the headphones to a PC or Mac, it is recommended to use a Sennheiser **Bluetooth** USB dongle, such as the BTD 800 USB.

Pairing the headphones with a Bluetooth device

Ensure that the headphones are off and within the 20 cm range of your smartphone when performing this procedure.

The headphones automatically go to pairing mode when switched on for the first time.

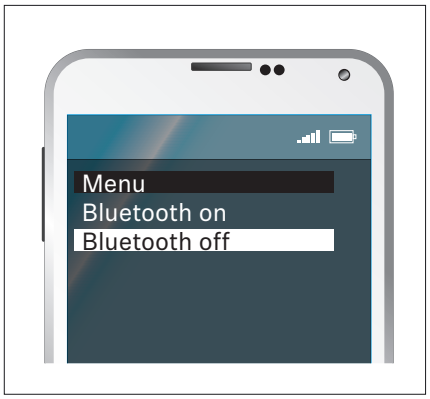
1. Press the multifunction button for 4 seconds.
   You hear the voice prompt “power on”, followed by a beep sound. The LED flashes blue and red. The headphones are in pairing mode.
2. Activate **Bluetooth** on your smartphone.
3. On your smartphone, start a search for **Bluetooth** devices.
   All active **Bluetooth** devices in the proximity of your smartphone are displayed.
4. From the list of **Bluetooth** devices found, select “*** IE FREE”. If necessary, enter the default PIN code “0000”.
   If pairing was successful, you hear the voice prompt “connected”. The LED flashes blue 3 times.

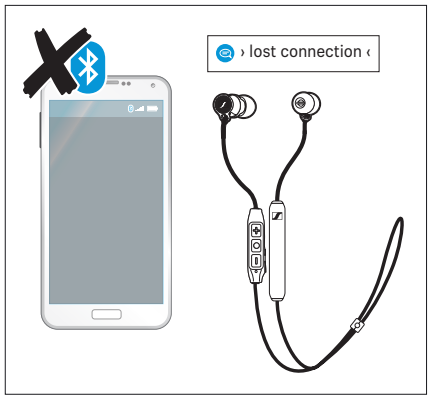


If no connection is established within 5 minutes, pairing mode is terminated and the headphones switch off. If necessary, repeat the pairing procedure.

Disconnecting the headphones from your Bluetooth device

▶ Deactivate **Bluetooth** on your smartphone.
The headphones are disconnected from the smartphone. The headphones then search for other paired devices. If no device is found, you hear the voice prompt “lost connection”. The headphones go to idle mode.

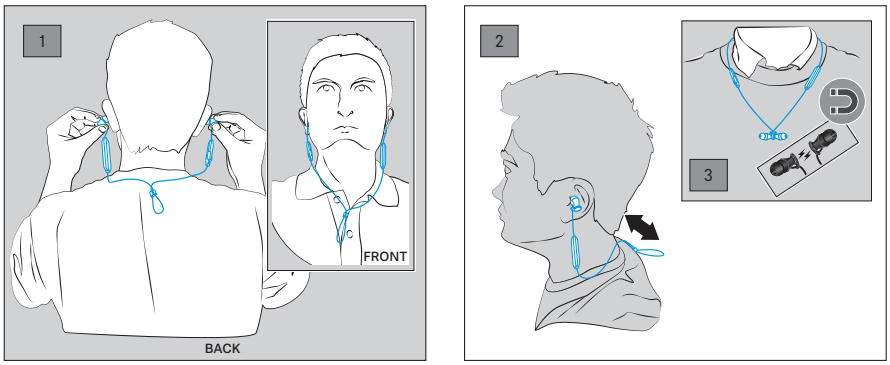




Using the headphones

Wearing the headphones

1. You can wear the in-ear headphones with the cables either behind your head or in front.
2. Adjust the cable organizer for a perfect fit.
3. If necessary, snap the magnetic clasps together to keep the in-ear headphones secure around your neck.



By default, medium-sized ear adapters are provided with the headphones. If necessary, replace the ear adapters with the size that perfectly fits your ears.

Switching the headphones 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 headphones on, set the volume to a low level.
- ▶ Do not continuously expose yourself to high volume levels.

▶ Press the multifunction button for 2 seconds.
You hear the voice prompts “power on” and “connected”. The LED flashes blue 3 times.

Ensure that **Bluetooth** is active on your smartphone when switching the headphones on.

Switching the headphones off

▶ Press the multifunction button for 4 seconds.
You hear the voice prompt “power off”. The LED flashes red 3 times.

Adjusting the volume

WARNING

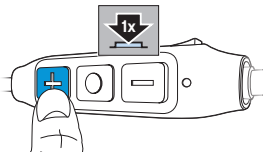
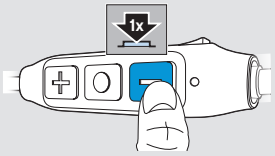
Danger due to high volume levels!

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 headphones 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 and phone calls, depending on your preferred sound level.

- ▶ Press the volume/track + or - button once to increase or decrease the volume.
  When the minimum or maximum volume is reached, you hear an alert.

Press	Function
	Increases the volume
	Decreases the volume

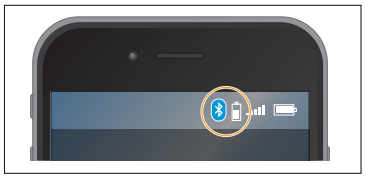
Checking the battery life of the headphones

You can check the remaining play and talk time when the headphones are in idle mode, are not actively playing music, or are not used for making calls.

▶ Quickly press the Volume/track - button.
You hear the voice prompt announcing the remaining play time.

Voice prompt	LED	Meaning
“recharge headset”		Battery is almost empty (less than 2% charged)
“below 1 hour play time”		Battery is less than 10% charged
“between 1 and 2 hours play time”		Battery is less than 20% charged
“between 2 and 4 hours play time”		Battery is less than 50% charged
“between 4 and 6 hours play time“		Battery is more than 50% charged

Battery life indicator on your device



The battery life of your headphones may also be displayed on the screen of your smartphone or device.

Playing music/videos

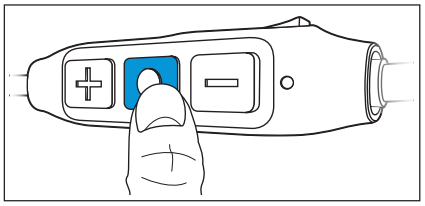
If your audio source supports the AAC, aptX, or aptX LL codec, the M2 IEBT SW In-Ear Wireless automatically plays your music wirelessly in stunning high-resolution audio quality. If the audio source does not support any of these audio codecs, the M2IEBTSW In-Ear Wireless plays music in standard audio quality.

If you are using the headphones to watch videos on a device that supports the aptX LL codec, the synchronization of sound to the visual media is automatically optimized, thus giving you a highly accurate audio-visual experience.

- ▶ Pair and connect the headphones with your smartphone, see page 14.
- ▶ Play music/videos on your smartphone or device.
  The audio plays through the M2IEBTSW In-Ear Wireless headphones.

Controlling music playback

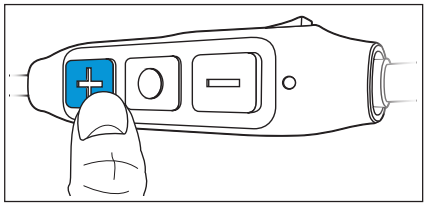
The following music functions are available when the headphones and device are connected using **Bluetooth**. Some smartphones or music players may not support all functions.



Playing/pausing music

▶ Quickly press the multifunction button.

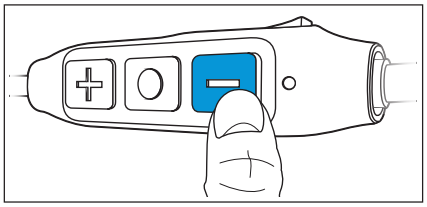
Press	Function
1x	Plays or pauses music



Playing the next track

▶ Press and hold the volume/track + button for a second to play the next track.

Press	Function
1s	Plays the next track in the playlist



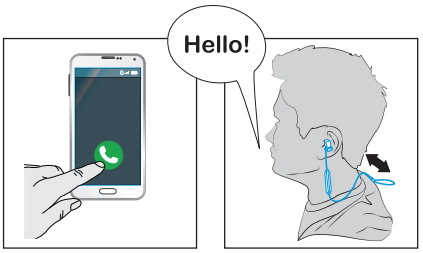
Playing the previous track

▶ Press and hold the volume/track - button for a second to play the previous track.

Press	Function
1s	Plays the previous track in the playlist

Making calls on the headphones

The following call functions are available when the headphones and the smartphone are connected using **Bluetooth**. Some smartphones may not support all functions.



Making a call

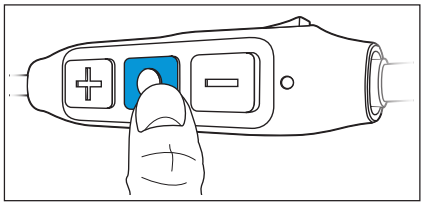
▶ Dial the desired number on your smartphone.

If your smartphone does not automatically transfer the call to the headphones, select M2IEBTSW In-Ear Wireless (*** IE FREE) as the audio source on your smartphone (see the instruction manual of your smartphone if necessary).

Accepting/rejecting/ending a call

If your headphones are connected to a smartphone and you receive a call, the ring tone plays in the headphones and the LED flashes purple.

If you are playing music when you receive a call, the music pauses until you end the call.



▶ Press the multifunction button accordingly:

Press	Function	Voice prompt
1x	Accepts a call	
1x	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	

Muting/unmuting a call

▶ Quickly press the multifunction button twice while on a call.

Press	Function
	Mutes the call
	Unmutes the call

Transferring a call to/from the headphones

When a call has been established, you can transfer the call between the headphones and the smartphone.

▶ Press and hold the multifunction for a second.

Press	Function
	Transfers a call from the headphones to the smartphone
	Transfers a call from the smartphone to the headphones

Redialing

You can use this function when the headphones are not actively playing music or are used for making calls.

▶ Press the multifunction button twice.

Press	Function	Voice prompt
	Redials the last number called	“redialing”
	Cancels redialing	“call ended”

Voice control function

You can use this function when the headphones are not used for making calls.

1. Press the multifunction button three times.

Press	Function	Voice prompt
	Starts voice control	“voice dialing”

2. Say your voice command, such as “Call Jane”.
   The **Bluetooth** smartphone calls Jane.

Care and maintenance

CAUTION

Liquids can damage the electronics of the product!

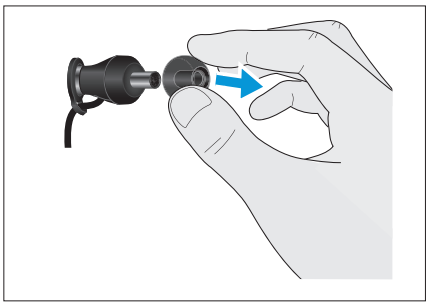
Liquids entering the housing of the product can cause a short-circuit and damage the electronics.

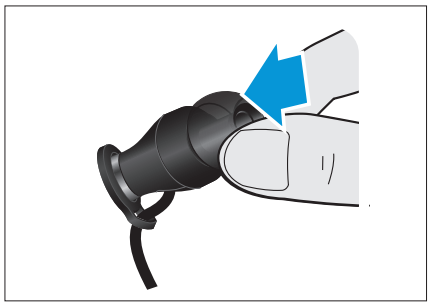
- ▶ Keep all liquids away from this product.
- ▶ Do not use any solvents or cleaning agents.

Changing ear adapters

You can change ear adapters depending on the size of your ear canal. Spare ear adapters are available from your local Sennheiser partner.

1. Lightly pull the ear adapter away from the in-ear sound tunnel until it is completely detached.
2. Secure the new ear adapter by pushing it back onto the in-ear sound tunnel. Ensure that it completely locks into place.





Storage and handling

To keep the headphones in good condition and to avoid nicks and scratches, always store the headphones in the carry case when not in use or when carrying them around.

Information about the rechargeable battery

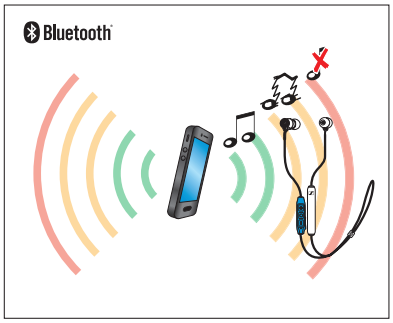
Sennheiser ensures and guarantees that the battery performs at the optimum upon purchase of the headphones. Upon purchase or within the warranty period, if you suspect that the battery is obviously defective, please immediately return the headphones to any Sennheiser service partner.

Troubleshooting

Problem	Possible cause	Possible solution	Page
Headphones cannot be switched on	Battery is empty	Charge the headphones.	13
No audio signal	Headphones are not paired with your device	Check if the headphones are paired. If necessary, pair the headphones with your device again.	14
	Volume too low	Increase the volume.	18
	Headphones are switched off	Switch the headphones on.	17
Headphones cannot connect	Smartphone is switched off	Switch your smartphone on.	
	Bluetooth is deactivated on your smartphone	Activate **Bluetooth** on your smartphone.	
Headphones do not respond to any button press	Function of the headphones is faulty	Clear the pairing settings from the headphones, and pair again.	29

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

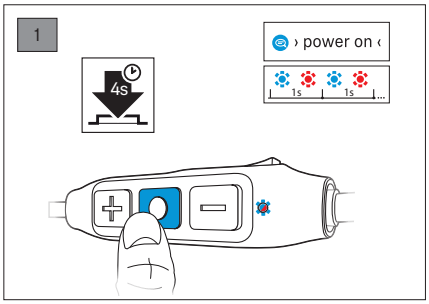
Wireless calling and streaming are only possible in the **Bluetooth** transmission range of your smartphone. The transmission range largely depends on environmental conditions such as wall thickness, wall composition etc. With a free line of sight, the transmission range of most smartphones and **Bluetooth** devices is up to 10 meters.

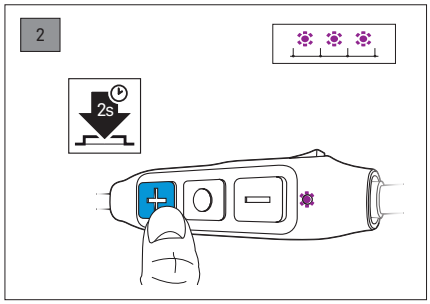
If the headphones leave the **Bluetooth** transmission range of the smartphone, the sound quality deteriorates and you hear the voice prompt “lost connection”. At this point, the connection breaks down completely. You can re-establish the connection if you re-enter the **Bluetooth** transmission range and you hear the voice prompt ”connected”.

▶ To re-establish the connection, press the multifunction button.

Clearing previously paired devices

1. Set the headphones to pairing mode, see page 14.
   The LED flashes blue and red. The headphones are in pairing mode.
2. Press the Volume/track + button for 2 seconds.
   The LED flashes purple 3 times. The headphones are permanently disconnected from all devices and immediately go into pairing mode.





Specifications

M2 IEBT SW In-Ear Wireless headphones	
Ear coupling	ear canal
Frequency response	15 - 22,000 Hz
Transducer principle	dynamic
Sound pressure level (SPL)	112 dB (passive: 1 kHz/ 0 dBFS)
THD (1 kHz, 100 dB)	< 0.5 %
Pick-up pattern (speech audio)	omni-directional
Input power	*3.7 V⎓, 100 mAh:* built-in rechargeable lithium-polymer battery *5 V⎓, 500 mA:* USB charging
Operating time	Up to 6 hours (A2DP)/ 8.5 hours (HFP)
Temperature range	*operation:* 0 to 40°C/32 to 104°F *storage:* -25 to 70°C/-13 to 158°F
Charging time	1.5 hours
Weight	approx. 17 g

Bluetooth	
Version	4.2, class 1
Transmission frequency	2402 – 2480 MHz
Modulation type	GFSK, π/4 DQPSK
Profiles	HFP, AVRCP, A2DP
RF output power	10 mW (max)
Supported codec	SBC, AAC, aptX, aptX LL

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