

# USER GUIDE

*ReSound Unite™ Mini Microphone*



# ReSound



rediscover hearing

## Welcome

Congratulations on your purchase of a ReSound Unite™ Mini Microphone, a high quality streamer of speech and sound.

ReSound Unite™ Mini Microphone streams speech directly to your hearing instrument.

The line-in functionality of the Mini Microphone will provide you with a streamed audio signal (mono) from your HiFi stereo, personal computer, TV or similar device directly to your hearing instruments.

Please read this manual carefully to fully benefit from the ReSound Unite™ Mini Microphone. Ask your hearing care professional if you have any questions.

For further information you can also visit the [www.resound.com/unite](http://www.resound.com/unite) web site.

*For your safety, carefully read the chapter Important Information, Starting on page 23.*

FCC ID: X26SM-1

## Statement:

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 interference that may cause undesired operation.

*Note:* This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the Mini Microphone 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.

Changes or modifications can void the user's authority to operate the equipment.

### **Intended use**

ReSound Unite™ Mini Microphone is intended to enable ReSound hearing instrument users to better follow speech or listen to other audio signals. The essential performance of the ReSound Unite™ Mini Microphone is to transfer signals from the microphone or other audio devices to a ReSound wireless hearing instrument.

### **List of countries**

Products are intended for sale in countries within European Economic Area as well as Switzerland.

### **National restrictions:**

Norway: You are not allowed to operate the equipment within 20 km of the centre of Ny Ålesund.

France: You are not allowed to operate the equipment outdoors.

Italy: Product is for private use. You are not allowed to operate the equipment outside own premises.

This product is in compliance with the following regulatory standards:

In EU: The device conforms to the essential requirements according to - Annex I of Council directive 93/42/EEC for medical devices (MDD) and essential requirements and other relevant provisions of directive 1999/5/EC (R&TTE). The declaration of conformity may be consulted at [www.resound.com](http://www.resound.com)

In US: FCC CFR 47 Part 15, subpart C, section 15.247

In Canada: IC 6941C-SM1

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.

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.

Other identified applicable international regulatory requirements in countries outside EU and US. Please refer to local country requirements for these areas.

Products are categorized as receiver class 2 according to EN 300 328.

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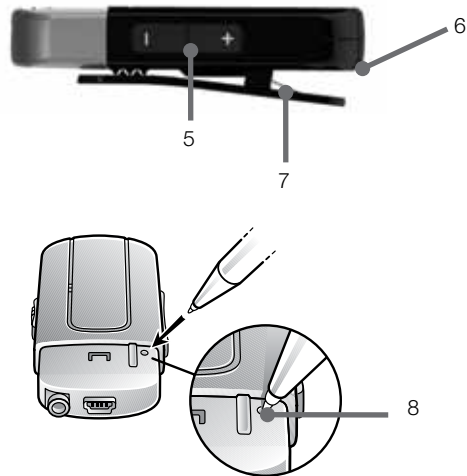
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## Description

- 1 Mini-USB connector for charging
- 2 Microphone inlet
- 3 Line-in input
- 4 ON/OFF switch



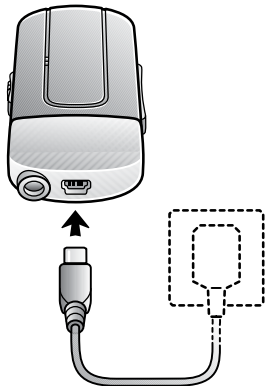
- 5 Volume control
- 6 Light indicator (LED)
- 7 Clip
- 8 Pairing button



## Getting Started

### *Charging the Battery*

Before using your ReSound Unite™ Mini Microphone, you need to fully charge the rechargeable battery. To charge it, plug the charging cable as shown in the picture to the right. Then plug the other end of the charging cable into a power outlet.



During the charging process, the LED indicator will show a solid red light. When fully charged and still connected to the charger, the LED will turn solid green interrupted by a red blink every 2 seconds.

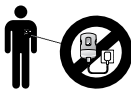
Charging an empty battery typically takes about 3 hours. It is safe to leave the charger connected overnight – the battery cannot be overcharged.

- When charging your ReSound Unite™ Mini Microphone for the first time, leave it to charge for at least 3 hours, even if the battery indicator indicates that the battery is fully charged.

- For safety reasons, recharge the battery only with chargers supplied by ReSound.



Do not charge the Unite Mini Microphone while it is on your body.



### *Turning your Mini Microphone ON and OFF*

To turn ON your ReSound Unite™ Mini Microphone slide the ON/OFF switch (4 on page 8) down to the ON position. A white "I" icon will be visible on the switch and the LED indicator will now blink green every 2,5 second.

To turn it OFF, slide the ON/OFF switch up to the OFF position. The LED will now stop blinking.

If battery level is low the LED will blink yellow every 2 seconds.

## Pairing to your hearing instruments

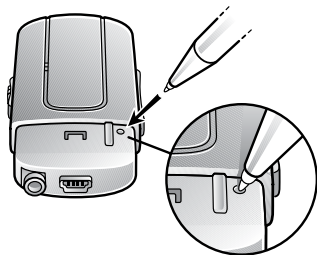


*Note! The following information is intended primarily for your hearing care professional, who in most cases will complete the tasks that are necessary before the ReSound Unite™ Mini Microphone can be used with your hearing instruments. However, the process is designed to be simple and most people can do it themselves.*

*It is possible to pair up to three Unite™ streaming devices - e.g. one Mini Microphone and two TV streamers (optional Unite™ accessory) - with a given pair of hearing instruments. Therefore, channel 1, 2 or 3 must be selected when starting the pairing process.*

### Pairing the Mini Microphone in channel 1

1. Make sure ReSound Unite™ Mini Microphone is turned ON. Your hearing instruments must be OFF – open the battery door.
2. Remove the silver cap from the Mini Microphone. With the tip of a pen or similar object, press the small pairing button one time on the front of your ReSound Unite™ Mini Microphone (see picture on the next page). The LED will now blink yellow once every 2 seconds to indicate that it is ready to be paired in channel 1. Your ReSound Unite™ Mini Microphone will remain in pairing mode for 20 seconds.



3. While pairing mode is activated, close the battery doors of both hearing instruments and make sure they are ON. A successful pairing will be indicated by an audible melody played in both hearing instruments.

You are now ready to use the ReSound Unite™ Mini Microphone!

### Pairing the Mini Microphone in channel 2 or 3

To pair the Mini Microphone in channel 2, press the pairing button twice. The LED will now blink yellow twice every 2 seconds to indicate that it is ready to be paired in channel 2. Close the battery doors on the hearing instruments.

To pair the Mini Microphone in channel 3, press the pairing button three times. The LED will now blink yellow three times every 2 seconds to indicate that it is ready to be paired in channel 3. Close the battery doors on the hearing instruments.

Pairing blinking pattern:

Pairing button pushes	LED blinking pattern	Channel
1	①    ①    ①    ①	1
2	①②   ①②   ①②   ①②	2
3	①②③ ①②③ ①②③ ①②③	3

## Start streaming

Turn on the Mini Microphone and make sure your hearing instruments are turned on as well. Streaming may be started in one of two ways.

1. Press and hold the push button on both hearing instruments for about three seconds in order to listen to the streamed audio signal. Once ReSound Unite™ Mini Microphone has been connected an audible melody will play in your hearing instruments and will be followed by the streamed sound.
2. If you have a ReSound Unite™ Remote Control (optional), simply press the Unite™ streaming button. Doing so will briefly show a search icon in the remote control display. Once the hearing instruments connect to ReSound Unite™ Mini Microphone, a short melody will be played in both ears to confirm the presence of streamed audio and a streaming icon will appear in the display. The streamed sound can now be heard in your hearing instruments.



## Start streaming on a 2nd or 3rd ReSound Unite™ Mini Microphone unit

If your hearing instrument is paired to more than one streaming device, you can start streaming in two ways.

1. Press and hold the hearing instrument push button for about 3 seconds a 2nd or 3rd time to access the 2nd or 3rd ReSound Unite™ streaming device.
2. If you use a Unite™ Remote Control, press the streaming button on the Unite™ Remote Control a 2nd or 3rd time to access the 2nd or 3rd ReSound Unite™ streaming device.



Searching for Mini Microphone



Connected to Mini Microphone

Streaming button



The up to 3 ReSound Unite™ streaming devices are initially labeled by letter designator A, B or C, and the device in use is shown on the Remote Control display.

## Stop streaming

- With the ReSound Unite™ Remote Control (optional) you just have to press the “P” button, located in the center of the key pad. This will return the hearing instruments to the last program used. You may also press the home button to return to your default settings.
- If you are using the telephone with ReSound Unite™ Phone Clip or PhoneNow™, streaming of ReSound Unite™ Mini Microphone will be temporarily disrupted. When you have ended your phone call, streaming will resume.










*Note! You may get out of range (>7m) from your ReSound Unite™ Mini Microphone. If you get back in range within 5 minutes, your hearing instruments will automatically reconnect and continue streaming.*

## Wearing Your ReSound Unite™ Mini Microphone

Clip your ReSound Unite™ Mini Microphone on the speaker's jacket or other clothing. Place the device within a range of 10-20cm from the speaker's mouth.

## Light Indicator (LED)

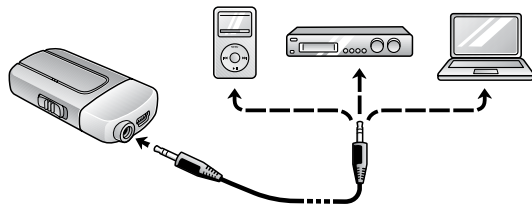
The Light indicator (6 on page 9) on your ReSound Unite™ Mini Microphone serves as a multipurpose user interface, providing information on the status of your device.

Blinks	Meaning
	Normal operation
	Battery low
	Charging
	Fully charged – still connected to charger
	Pairing in channel 1
	Pairing in channel 2
	Pairing in channel 3

## Using the Line-in

The Line-in (3 on page 8) can be used to stream audio signals from most auxiliary audio devices through the ReSound Unite™ Mini Microphone's line input directly to your hearing instrument

- 1 Insert the included jack cable into the Line-in plug on the ReSound Unite™ Mini Microphone
- 2 Plug the other end of the jack cable into the AUDIO OUT on the audio device you want to stream from.





*Note: When using the ReSound Unite™ Mini Microphone with a TV the HEADPHONE output terminal is usually located on the side or front of the TV. When using the HEADPHONE output terminal on the TV, usually only the person wearing the hearing instruments will hear the sound, and the TV speakers are muted. Your TV may support speakers and HEADPHONE being on simultaneously, check your TV manual for instructions.*

## **Volume Control**

ReSound Unite™ Mini Microphone has been designed to provide a comfortable listening level from the moment it is activated. However, for some devices or listening environments it may be desirable to adjust the listening volume. This can be accomplished in a variety of ways. Keep in mind that volume adjustments apply to the streamed signal only, not the volume of normal environmental sounds.

- Use the “+” and “-” keys (5 on page 9) to adjust volume to a comfortable level. Make sure that your hearing instruments are comfortably adjusted before you change the settings with the volume control.



*Note: When using the Mini Microphone as a microphone the last volume setting will be stored. When using the Line-in, the volume setting will revert to the default level when the Mini Microphone is turned OFF and ON again to avoid an uncomfortable loud initial sound level when used with different audio sources.*

- Use the Resound Unite™ Remote Control (optional) to adjust the streaming volume in the hearing instrument. Ask your hearing care professional for more information about this accessory.
- The volume can in some cases be further adjusted at the signal source, for example by turning the TV itself down. In many cases this will adjust the volume of both streamed audio (transmitted wirelessly to your hearing instruments) and non-streamed audio (sounds reaching the hearing instrument microphones in the normal fashion). Of course, this will also affect listening volume for others in the room.

## Important Information



### *Maintenance and Care*

- Clean the ReSound Unite™ Mini Microphone using a damp cloth. Never use household cleaning products (washing powder, soap etc...) or alcohol to clean the device
- When ReSound Unite™ Mini Microphone is not in use, turn it OFF and store it safely
- Protect ReSound Unite™ Mini Microphone from excessive moisture (bathing, swimming) and heat (radiator, car dashboard). Protect it from excessive shock and vibration.
- Protect the microphone and charger inlets from debris and dirt. If necessary, use the cleaning brush provided with your hearing instruments to clean these areas.

### General warnings



- Young children can wrap cords and lanyards / key chains around their neck causing the risk of strangulation. Therefore, always keep cords and lanyards / Key chains out of reach of children.
- ReSound Unite™ Mini Microphone uses low-powered digitally coded transmissions in order to communicate with other wireless devices. Although unlikely, nearby electronic devices may be affected. In that case, move the ReSound Unite™ Mini Microphone away from the affected electronic device.
- When using ReSound Unite™ Mini Microphone and the device is affected by electromagnetic interference, move away from the source.
- Avoid exposing your product to rain, moisture or other liquids to protect against damage to the product or injury to you.
- Keep the product and any cords and cables away from operating machinery.
- If the product overheats, if the product has been dropped or damaged, if the product has a damaged cord or plug, or if

the product has been dropped in a liquid, discontinue use and contact your hearing care professional.

- Dispose of the product according to local standards and regulations.
- Do not use in areas where there are explosive hazards.

### *Ignition of flammable atmospheres*

- Do not use the product in environments where there is a danger of ignition of flammable gasses

### General precautions



- Do not use this device in locations where it is forbidden to use electronic devices.
- X-ray radiation (e.g. CT scans, MRI scans) may adversely affect the correct functioning of this device. We recommend that you switch the device OFF before undergoing X-ray procedures and keep it outside the room.
- High-powered electronic equipment, larger electronic installations and metallic structures may impair and significantly reduce the operating range.

- If the hearing instruments do not respond to the device because of an unusual field disturbance, move away from the disturbing field.
- Your hearing instruments and this device were given a unique communication code during the fitting. This ensures that the device will not affect hearing instruments worn by others.
- Do not make any changes or modifications to this device.
- Opening the ReSound Unite™ Mini Microphone might damage it. If problems occur which cannot be resolved, consult your hearing care professional.
- ReSound Unite™ Mini Microphone may only be repaired by an authorized service center.
- Do not use ReSound Unite™ Mini Microphone in areas where RF transmission is prohibited, e.g. air planes etc.
- Do only connect ReSound Unite™ Mini Microphone to connections which it is explicitly intended for.

*BUILT-IN BATTERY CARE: Please observe the following if the product contains a battery*



- Your product is powered by a rechargeable battery.
- The full performance of a new battery is achieved only after two or three complete charge and discharge cycles.
- The battery can be charged and discharged hundreds of times, but will eventually wear out.
- Unplug the charger from the electrical plug and the product when not in use.
- If left unused, a fully charged battery will lose its charge over time.
- Leaving the product in hot places, such as in a closed car in the summer conditions, will reduce the capacity and lifetime of the battery.
- A product with a cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

*Battery warning!*



- "Caution" – The battery used in this product may present a risk of fire or chemical burn if mistreated.
- Do not attempt to open the product or replace the battery. It is built-in and not changeable. Use of other batteries may present a risk of fire or explosion and the warranty will be terminated.
- The battery in your product can not be removed or replaced by the user. Any attempt to do so is risky and may result in damage of the product.
- Only recharge the ReSound Unite™ Mini Microphone only with a power supply unit that has been supplied together with the product.
- Dispose of batteries according to local regulations. Please recycle when possible.
- Do not dispose the battery as household waste or in a fire as it may explode.
- Batteries may explode if damaged.

*CHARGER CARE: Please observe the following if the product is supplied with a charger*



- Do not attempt to charge your product with anything other than the AC adapter provided. The use of any other types may damage or destroy the product and could be dangerous. Use of other chargers may invalidate any approval or warranty.
- For availability of approved enhancements, please check with your hearing care professional.
- Charge the product according to the instructions supplied with the product.

*Charger warning!*



- When you disconnect the power cord or any enhancement, grasp and pull the plug, not the cord.
- Never use a charger that is damaged.
- Do not attempt to disassemble the charger as it may expose you to dangerous electric shock.
- Incorrect reassembly can cause electric shock or fire when the product is subsequently used.
- Avoid charging your product in extremely high or low temperatures and do not use the charger outdoors or in damp areas.
- Do not charge the ReSound Unite™ Mini Microphone while it is on your body.

**Technical specifications**

Operating range:	up to 7 meters or more
Power supply:	External wall adapter
Wireless:	2,4 GHz
Operating temperature:	0 to 45 degree C
Storage temperature:	-20 to 45 degree C

**Temperature test, transport and storage information**

The product is subject to various tests in temperature and damp heating cycling between -25 C and +70C according to internal and industry standards.



## Warranty

The ReSound Unite™ Mini Microphone is covered by a limited warranty issued by the manufacturer for a period of 12 months from the day of the original purchase. Please notice that extended warranties may apply in your country. Please contact your local Hearing Care Professional for more information.

### What is covered by this warranty?

Any electrical component, that because of workmanship, manufacturing or design defects fails to function properly under normal use during life of this warranty will be replaced or repaired at no charge for parts or labour when returned to the point of purchase.

If it is determined that repair is not feasible, the entire unit may be replaced with an equivalent unit upon mutual agreement of the Hearing Care Professional and the customer.

### What is not covered by this warranty?

Problems arising from improper handling or care, excessive use, accidents, repairs made by an unauthorized party, exposure to corrosive conditions or damage due to foreign objects entering the device are NOT covered by the limited warranty and may void it. The above warranty does not affect any legal rights that you might have under applicable national legislation governing sale of consumer products. Your Hearing Care Professional may have issued a warranty that goes beyond the clauses of this limited warranty. Please consult your Hearing Care Professional for further information.

Serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

## TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
<i>The streaming button on the Remote Control is pressed but with no effect at all</i>	<p>The Unite Mini Microphone and hearing instruments have not been paired</p> <p>The Remote Control and hearing instruments are not within wireless range</p>	<p>Carry out pairing process</p> <p>Assure that Remote Control and hearing instruments are within wireless range and activate streaming again</p>
<i>The push button on the hearing instrument has been pressed for more than 3 seconds but with no effect at all</i>	<p>The Unite Mini Microphone and hearing instruments have not been paired</p>	<p>Carry out pairing process</p>
<i>The pairing button on the Unite Mini Microphone is pressed but no pairing melody is played in the hearing instrument</i>	<p>The Unite Mini Microphone and hearing instrument are not within wireless range</p> <p>The Unite Mini Microphone and hearing instrument have not been simultaneously in pairing mode</p>	<p>Assure that Unite Mini Microphone and hearing instruments are within wireless range and repeat pairing process</p> <p>Repeat pairing process and assure that the battery doors on both hearing instruments are closed within 20 seconds after the pairing button has been pressed on the Unite Mini Microphone</p>

## TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
<i>The streaming button on the Remote Control is pressed but no streamed audio signal is found when searched for (indicated by an 'X' icon on the display)</i>	The Unite Mini Microphone and hearing instrument are not within wireless range	Assure that Unite Mini Microphone and hearing instruments are within wireless range and activate streaming again
	The Unite Mini Microphone is not powered on	Power on the Unite Mini Microphone and activate streaming again
	The battery level of the Unite Mini Microphone is too low to support streaming	Charge the battery
	An audio device has been connected to the Line-in plug but the device is powered off or the output has been muted	Power on or unmute the external audio device

# TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
<i>There is no sound in the hearing instruments although still being in the streaming program</i>	The Unite Mini Microphone and hearing instrument have become out of wireless range	Assure that Unite Mini Microphone and hearing instruments are within wireless range again
	The Unite Mini Microphone is no longer powered on	Power on the Unite Mini Microphone and activate streaming again
	The battery level of the Unite Mini Microphone has become too low to support streaming	Charge the battery
	An audio device has been connected to the Line-in plug but the device has been powered off or the output muted	Power on or unmute the external audio device

## TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
<i>A hearing instrument unintentionally drops out of the streaming program</i>	At least one of the causes described for the 'no sound' symptom above has persisted for more than 5 minutes	Take the necessary corrective action as described for the 'no sound' symptom above and activate streaming again
	The battery in the hearing instrument is so depleted that it no longer supports audio streaming	Replace the battery in the hearing instrument with a new one, and activate streaming again
<i>The sound from the Unite Mini Microphone is too high or is distorted</i>	An audio device has been connected to the Line-in plug and the audio level from this device is too high	Adjust the volume using the "+" and "-" keys on the Unite Mini Microphone, or using the volume control on the external audio device itself, until the best sound level and quality is obtained.

## TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
<i>The sound level from the Unite Mini Microphone is very low</i>	The Unite Mini Microphone is not worn correctly by the speaker	Clip the Unite Mini Microphone on the speaker's jacket or other clothing or hang it around the speaker's neck using the lanyard, so that the device is within 10-20 cm from the speaker's mouth
	The sound received by the microphone is very low	Increase the volume using the "+" key on the Unite Mini Microphone
	An audio device has been connected to the Line-in plug and the audio level from this device is too low	Adjust the volume using the "+" and "-" keys on the Unite Mini Microphone, or using the volume control on the external audio device, until the best sound level and quality is obtained.

## TROUBLESHOOTING GUIDE

SYMPTOM	CAUSE	POSSIBLE REMEDY
<i>The sound from the Unite Mini Microphone is still either too low or too high</i>	The audio volume level of the hearing instruments is not suitable for listening	Adjust the volume either on the hearing instruments themselves (if provided with a volume control), or alternatively (option), using the “+” and “-“ keys on the Remote Control
<i>The sound from the Unite Mini Microphone is distorted or drop-outs occur frequently</i>	The Unite Mini Microphone and hearing instruments are on the edge of the wireless range	Assure that Unite Mini Microphone and hearing instruments are within wireless range
	The Unite Mini Microphone and hearing instruments are not within sufficient “line-of-sight”	Assure that no significant obstacles will obstruct the hassle-free streaming from the Unite Mini Microphone to the hearing instruments

Be aware of information marked with the warning symbol



**WARNING** points out a situation that could lead to serious injuries,

**CAUTION** indicates a situation that could lead to minor and moderate injuries



Advice and tips on how to handle your ReSound Unite™ accessory better.



Equipment includes RF transmitter



Product is a Type B applied part



Please ask your local hearing care professional concerning disposal of your Unite accessory



Any issues relating to the EU Medical Device Directive 93/42/EEC and R&TTE Directive 1999/5/EEC should be directed to GN Hearing A/S, Lautrupbjerg 7, DK 2750 Ballerup, Denmark



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# ReSound



rediscover hearing