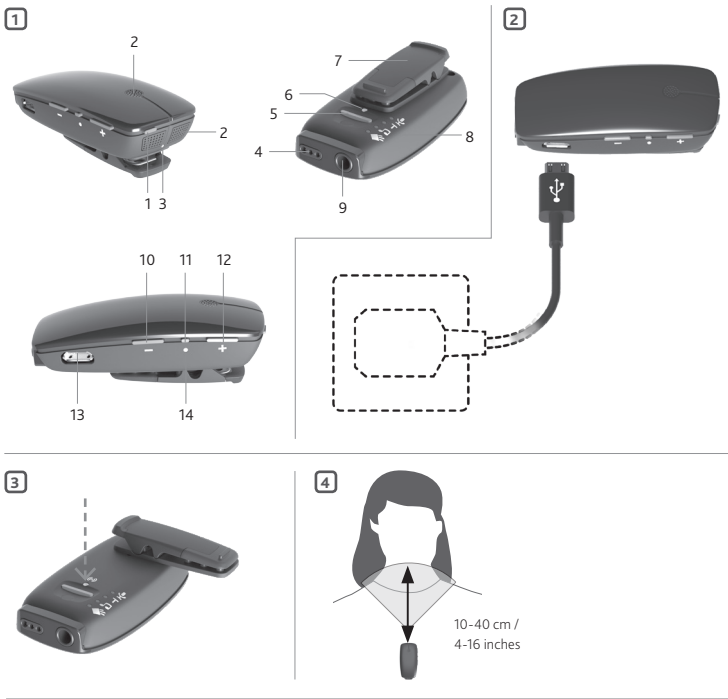




Welcome

Congratulations on your purchase of a Cochlear® Wireless Mini Microphone 2+, a high-quality portable speech and audio streamer.

Key to device

- ON/OFF button
- Microphones
- Status indicator light (LED)
- FM connector
- Mode selector button
- Pairing button
- Mounting clip
- Mode and battery indicator lights (LED)
- Line-in connector
- Volume down
- Volume up
- Micro USB for charging
- Mute indicator light (LED)

Introduction

The microphone supports one-to-one communication and can be used as a table microphone to pick up speech from multiple speakers. Additionally, the microphone supports connection with induction loop systems, FM systems (Europin FM receiver required) and Line-in signals.

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

For more information visit www.cochlear.com.

For your safety, carefully read the chapter "Important Information".

Warranty

The warranty does not cover defects or damage arising from, associated with, or related to the use of this product with any non-Cochlear processing unit and/or any non-Cochlear implant. See "Cochlear Global Limited Warranty card" for more details.

Contacting customer service

We strive to provide the best possible products and services to our clients. Your views and experiences with our products and services are important to us. If you have any comments you would like to share, please contact us.

Key to symbols

The following symbols will be used throughout these documents.

	"Caution" or "Caution, consult accompanying documents"
	CE-mark
	Serial Number
	Refer to instructions/booklet
	Wireless enabled
	ACMA (Australian Communications and Media Authority) compliant
	Please ask your hearing care professional concerning disposal of this device.

Intended use

The microphone is intended to further improve your ability to follow speech or listen to other audio signals. The essential performance of the microphone is to transfer signals from the microphone or other audio devices to a Cochlear sound processor.

Charge the battery

- Charge the battery for at least 3 hours before using your microphone for the first time, even if the battery indicators indicate it is fully charged.

Other modes of operation

The microphone also offers extended audio source connectivity options.

Telecoil (TC)

From the built-in Telecoil, receiving audio from a induction loop system (available at some theatres, schools, churches, etc).

FM

From an external FM receiver attached via the FM connector. To use this mode, insert a Europin DAI or FM receiver into the FM connector.

Line-in

From an external audio source (smartphone, tablet, laptop, TV, etc.) attached via the Line-in connector.

To use this mode, insert the included jack cable into the Line-in connector and plug the other end of the cable into the AUDIO OUT on the external audio device.

Change mode

To view the current mode of operation press the mode button once. The corresponding mode LED on the backside of the microphone will light up.

- To change the mode of operation press the mode button again and repeat until the desired mode is obtained.
- Note:**
 - Line-in and FM Modes can only be selected if a cable or FM receivers are inserted into the microphone.
 - The microphone will automatically switch into Line-in Mode when inserting a mini-jack plug.
 - The microphone will automatically switch into FM Mode when inserting an FM or DAI receiver.

Battery status

To view the current battery status press and hold the mode button for at least 3 seconds until one or more of the Mode LEDs start to flash.

- 75 – 100 % – All mode LEDs flash
- 50 – 75 % – Three mode LEDs flash (FM + Line-in + TC)
- 25 – 50 % – Two mode LEDs flash (FM + Line-in)
- <25 % – One mode LED flashes (FM)

Note: When less than 30 minutes of operating time is left the status LED will flash yellow.

Volume control

Use the volume "+" and "-" buttons to adjust the volume to a comfortable level.

A short yellow flash of the mute LED indicates every volume change. A longer yellow flash indicates that the maximum or minimum volume level has been reached.

Note: The microphone will revert to its define default level when restarted.

The volume can in some cases be further adjusted at the signal source, e.g. by turning the TV volume up or down.

In many cases this will adjust the volume of both streamed audio (transmitted wirelessly to your sound processor) and non-streamed audio (sounds reaching the sound processor microphones in the normal fashion). Of course, this will also affect listening volume for others in the room.

Mute

- To **mute** the signal press the mute button. The mute LED will flash yellow while muted.

- To **unmute** the signal press the mute button again.

Note: Restoring the microphone while muted will unmute the signal.

Volume Control Lock

For special purposes the volume of the microphone can be locked to a specific level. When the volume control is locked, it will be fixed to the level it had when the microphone was powered OFF and it is still possible to use the mode functionality.

- Determine the right volume level to lock in place.
- To lock the volume control switch off the microphone.
- Press and hold the volume "-" button and at the same time, press the ON/OFF button until the status LED turns green.
- Continue holding the volume "-" button until a green-yellow-red sequence is shown on the status LED.
- To unlock the volume control follow the same 3 steps described above but hold the volume "+" button instead of the volume "-" button.

The volume can be adjusted independently for Microphone and FM Mode. When locked, the volume levels for both Microphone Mode and FM Mode will be locked at the volume levels last used or set for each of these modes.

- Determine the right volume level to lock in place.
- To lock the volume control switch off the microphone.
- Press and hold the volume "-" button and at the same time, press the ON/OFF button until the status LED turns green.
- Continue holding the volume "-" button until a green-yellow-red sequence is shown on the status LED.
- To unlock the volume control follow the same 3 steps described above but hold the volume "+" button instead of the volume "-" button.

The volume can be adjusted independently for Microphone and FM Mode. When locked, the volume levels for both Microphone Mode and FM Mode will be locked at the volume levels last used or set for each of these modes.

Drop detection

In the event that the microphone falls from at height of more than 75 cm, a built-in sensor will mute the output stream to the sound processor for up to 2 seconds. This is done to protect you from very loud and unpleasant impact noise should the unit be dropped during use.

Test Mode

(Test Mode information is intended for hearing care professionals.)

The Test Mode is primarily intended to be used for paediatric transparency measurements. The transparency measurement evaluates if the local (sound processor) and wireless (microphone) microphones provide equal outputs from the microphone when presented with the same 65 dB SPL input stimulus.

When in Test Mode the microphone is set to omnidirectional mode with 0 dB gain when placed horizontally in the test chamber. Please refer to relevant guidelines for performing transparency measurements.

- To **enter Test Mode** switch off the microphone.
- Press and hold the mute button and at the same time, press and hold the ON/OFF button until the status LED turns green

- Continue holding the mute button until a green-yellow-red sequence is shown on the status LED.
- When in Test Mode the status LED will be solid yellow.
- When entering Test Mode the default volume is applied. If needed, volume can be adjusted on the microphone until transparency has been verified.
- To **exit Test Mode** and save settings turn off the microphone and lock the volume control (see the "Volume Control Lock" section).
- If left unused, a fully charged battery will lose its charge over time.
- Leaving the product in hot places will reduce the battery's capacity and service life.
- A product with a cold battery may not work temporarily, even if fully charged. Battery performance is particularly limited in temperatures well below freezing.

Note: Adjustments to reach transparency can be made on the microphone. For Baha users, the mixing ratio can be adjusted in the Baha Fitting Software.

Status indicator lights (LED)
Power on: long green flash
Normal operation: continuous green flashes
Volume locked: continuous green flashes
Power off: long red flash
Low battery: continuous yellow flashes
Low battery + volume locked: continuous yellow flashes
Test mode: solid yellow
Charging: solid red
Fully charged, still connected to charger: short green and long red flashes
Charging and turned on: quick green and long red flashes
Fully charged and turned on: short red and long green flashes
Charging and turned on + volume locked: quick green and long red flashes
Fully charged and turned on + volume locked: quick red, green, red and long green flashes

Important Information

Maintenance and Care

Clean the microphone using a damp cloth. Never use household cleaning products (washing powder, soap, etc.) or alcohol to clean the device.

- When the microphone is not in use, turn it off and store it safely.
- Protect the microphone from excessive moisture (bathing, swimming) and heat (radiator, car dashboard).
- Protect it from excessive shock and vibration
- Protect the microphone and charger sockets from debris and dirt.

General warnings

- Keep this device out of reach of children.
- The microphone uses low-powered digitally coded transmissions in order to communicate with other wireless devices. Although unlikely, nearby electronic devices may be affected. In such cases, move the microphone away from the affected electronic device.
- When using the microphone and it is affected by electromagnetic interference, move away from the source of the interference.
- Avoid exposing your product to rain, moisture or other liquids to protect against damage to the product or personal injury.
- Keep the product and any cords and cables away from operating machinery.
- If the product overheats, has been dropped or damaged, has a damaged cord or plug, or 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 is a risk of explosion.

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 equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

General precautions

- Do not use this device in locations where the use of electronic devices are prohibited.
- X-ray radiation (e.g., CT/MRI scans) may adversely affect the functioning of this device. Switch it off before undergoing the procedure and keep it away from the room.
- High-powered electronic equipment, larger electronic installations and metallic structures may impair and significantly reduce the operating range.
- If the sound processor does not respond to the device because of an unusual type of interference, move away from the source of this interference.

Your sound processors and this device were given unique communication codes during fitting. This ensures that the device will not affect sound processors worn by others.

- Do not alter or modify this device.
- Opening the microphone might damage it. If problems occur that cannot be resolved, consult your hearing care professional.
- The microphone may only be repaired by an authorised service centre.
- Do not use the microphone in areas where RF transmission is prohibited, e.g., in planes, etc.
- Only connect the microphone to connections for which it is explicitly intended.

Built-in battery care

Please observe the following:

- Your product is powered by a rechargeable battery. A new battery performs optimally 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 main socket 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 will reduce the battery's capacity and service life.
- A product with a cold battery may not work temporarily, even if 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 misused.
- The battery in your product cannot be removed or replaced by the user. Do not attempt to open the product. Any attempt to do so may result in damage. Using other batteries may present a risk of fire or explosion and void the warranty.
- Only recharge the microphone with the charger that was supplied with the product.
- Dispose of batteries according to local regulations. Please recycle when possible.
- Do not dispose of the battery as household waste or in a fire as it may explode.
- Batteries may also 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 other chargers may damage or destroy the product and could be dangerous. Use of other chargers may invalidate any approval or void the warranty.
 - For availability of approved accessories, please check with your hearing care professional.
 - Charge the product according to the instructions provided.

Charge warning

- When you disconnect the power cord, grasp and pull the plug, not the cord.
- Never use a power supply that is damaged.
- Do not attempt to disassemble the power supply as it may expose you to dangerous electric shock.
- 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 microphone while it is being worn.

Technical specifications

Operating range	Up to 7 metres
Power supply	External wall adapter
Wireless	2.4 GHz
Operating temperature	0 to 45 °C
Storage temperature	-20 to 45 °C

Temperature test, transport and storage information

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

Wireless Accessory type designations for models included in this User Manual are:

SM-2P, FCC ID: QZ35M-2P, IC: 8039C-SM2P

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 equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

List of countries:

- The products are in compliance with the following regulatory requirements:
- 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.cochlear.com.
- Products with wireless functionality are intended for sale in countries within the European Economic Area as well as Switzerland. Specification of restrictions: You are not allowed to operate the equipment within 20 km of the center of Ny Ålesund, Norway.
- In US: FCC CFR 47 Part 15, Subpart C, section 15.249.
- Other identified applicable international regulatory requirements in countries outside the EU and US. Please refer to local country requirements for these areas.
- Products are in compliance with EN 300 328.
- In Canada the Mini Microphone is certified under the following certification number: IC:8039C-SM1.
- This device complies with Industry Canada license exempt RSS standard(s).

- 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. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
- Equipment includes RF transmitter.



Bienvenido

Enhorabuena por su compra del Cochlear® Wireless Mini Microphone 2+ (Mini Micrófono 2+), un dispositivo de streaming de voz y sonido de primera calidad.

Partes del dispositivo

- Botón de Encendido/Apagado
- Micrófonos
- Indicador luminoso de estado (LED)
- Conector FM
- Botón selector de modo
- Botón de emparejamiento
- Clip de colocación
- Indicadores luminosos de modo y batería (LED)
- Conector de entrada de línea (line-in)
- Botón para bajar el volumen
- Botón de silencio
- Botón para subir el volumen
- Mico USB para carga
- Indicador luminoso de estado (LED)

Introducción

El micrófono facilita la comunicación entre dos personas y se puede utilizar como micrófono de mesa para captar lo que dicen varias personas. Asimismo, el micrófono facilita la conexión con sistemas de circuito cerrado, sistemas FM (se requiere un receptor FM Europin) y señales de una entrada de línea (line-in).

Le pedimos que lea atentamente este manual para aprovechar todas las ventajas del micrófono. Consulte al profesional que cuida su audición si tiene alguna pregunta.

Para obtener más información, visite www.cochlear.es.

Para su seguridad, lea detenidamente el capítulo "Información importante".

Garantía

La garantía no cubre defectos o daños causados por, asociados con, o relativos al uso de este producto con un procesador de sonido o implante que no sean de Cochlear. Véase la "Tarjeta de garantía global limitada de Cochlear" para más detalles.

Contacto con Atención al Cliente

Intentamos proporcionar los mejores productos y servicios posibles a nuestros clientes. Sus opiniones y experiencias de nuestros productos y servicios son importantes para nosotros. Si tiene algún comentario que quisiera hacer, póngase en contacto con nosotros.

Aclaración de los símbolos

Los siguientes símbolos se utilizarán en estos textos documentos.

	"Aviso" o "Aviso, consultar los documentos que se incluyen"
	Marca CE
	Número de serie
	Consultar las instrucciones/ el folleto
	Acceso inalámbrico
	Cumple con la Autoridad Australiana de Comunicaciones y Medios (ACMA, por sus siglas en inglés)
	Consulte al profesional que le cuida la audición acerca de la eliminación de este dispositivo.

Uso previsto

Este micrófono está destinado a mejorar su capacidad de seguir el habla o escuchar otras señales de audio. La función básica del micrófono es transferir señales del micrófono u otros dispositivos de audio a un procesador de sonido Cochlear.

Carga de la batería

- Cargue la batería durante al menos 3 horas antes de usar el micrófono por primera vez, incluso si los indicadores de la batería muestran que está totalmente cargada.
- Durante el proceso de carga, el LED de estado brillará de color rojo. Cuando la batería esté totalmente cargada y siga conectada al cargador, el LED de estado brillará de color verde con parpadeos rojos intermitentes cada 2 segundos.
- Cargar una batería agotada dura unas 3 horas. El cargador se puede conectar durante la noche; no es posible sobrecargar la batería.
- Por razones de seguridad, solo recargue la batería con cargadores suministrados por Cochlear.

Aviso: No cargue el micrófono mientras lo tiene colocado.

Encendido y apagado

- Para **encender** su micrófono pulse y mantenga presionado el botón de Encendido/Apagado hasta que el LED de estado cambie a color verde. Después de

- soltar el botón de Encendido/Apagado, el LED de estado parpadeará de color verde. El micrófono se encenderá siempre en el modo de micrófono.
- Para **apagar** su micrófono, pulse y mantenga presionado el botón de Encendido/Apagado hasta que el LED de estado cambie a color rojo.

Note: Para proteger el micrófono mientras no lo utiliza, colóquelo en la bolsa de transporte que se incluye con el producto.

Emparejamiento con el procesador de sonido

Es posible emparejar su procesador de sonido Cochlear con tres dispositivos de streaming Cochlear como máximo. Seleccione un canal separado para cada dispositivo conectado con el procesador de sonido.

- Apague su procesador de sonido Cochlear.
- Encienda su micrófono.
- Véase la figura 3
- Pulse el botón de emparejamiento una vez (dos veces para el canal 2, tres veces para el canal 3) utilizando la punta de un bolígrafo o un objeto similar. El LED de estado parpadeará de color amarillo y el dispositivo estará en modo de emparejamiento durante 20 segundos. El número de parpadeos del LED en cada secuencia corresponderá al canal con el que se esté emparejando el micrófono (dos parpadeos - canal 2, tres parpadeos - canal 3).
- Mientras el modo de emparejamiento está activado, encienda su procesador de sonido. El éxito del emparejamiento se indicará mediante una melodía audible reproducida en el procesador de sonido, o una luz parpadearante en el procesador de sonido (según el tipo de procesador de sonido).

Iniciar el streaming

- Encienda el micrófono y el procesador de sonido.
- Pulse y mantenga presionado el botón de streaming/ programa inalámbrico en su procesador de sonido durante 3 segundos aproximadamente.
- Si su procesador de sonido es emparejado con más de un dispositivo de streaming, simplemente pulse y mantenga presionado el botón de streaming/programa inalámbrico una o dos veces más para acceder al 2º o 3º dispositivo de streaming Cochlear.

Cuando esté activado el streaming, se emitirá una melodía audible o una luz parpadearante (según el tipo de procesador de sonido) y después se producirá la transmisión de audio a través del micrófono.

Note: También puede iniciar y detener el streaming, ajustar los niveles de volumen y silenciar el micrófono desde un Cochlear Baha® Remote Control (Control Remoto, accesorio opcional) o un Cochlear App que ofrezca la función de control. También puede iniciar y detener el streaming utilizando un mando a distancia CR230 o CR210. Solicite más información al profesional que cuida su audición.

Detener el streaming

- Pulse el botón de streaming/programa inalámbrico en su procesador de sonido. Con ello, el procesador de sonido retornará al último programa.

Note: Si sale del campo de su micrófono pero regresa a él antes de que haya transcurrido 5 minutos, su procesador de sonido se reconectará automáticamente y continuará el streaming.

Modo de micrófono

Conexión del micrófono

Enganche su micrófono en la chaqueta de la persona que habla, en otra prenda o colgáelo alrededor del cuello con la correa suministrada. Coloque el micrófono a una distancia de 10 a 40 cm (4 a 16 pulgadas) de la boca de la persona que habla. Si utiliza el clip, asegúrese de colocar el micrófono en posición vertical con el LED de estado dirigido hacia la boca. Si se utiliza en posición vertical, el micrófono cambia automáticamente a modo direccional, reduciendo los ruidos de fondo al mínimo.

Uso como micrófono de mesa

Coloque el micrófono en posición horizontal sobre una superficie plana (por ejemplo, una mesa) cerca de los altavoces. Al colocar el micrófono en posición horizontal sobre una mesa, el mismo cambia automáticamente a modo omnidireccional optimizado, captando las voces de varios interlocutores.

Otros modos de funcionamiento

El micrófono también ofrece más opciones de conexión con la fuente de audio.

Telecoil (TC)

Desde un telecoil incorporado, recibiendo el audio de un sistema de circuito cerrado (disponible en algunos teatros, escuelas, iglesias, etc.).

FM

Desde un receptor FM externo conectado a través del conector FM.

Para usar este modo, inserte un Europin de entrada directa de audio o un receptor FM en el conector FM.

Entrada de línea (line-in)

De una fuente de audio externa (smartphone, tablet, ordenador portátil, televisor, etc.) conectado mediante el conector de entrada de línea.

Para usar este modo, insertar el cable jack suministrado en el conector de entrada de línea y enchufar el otro extremo del cable jack al terminal "AUDIO OUT" en el dispositivo de audio externo.

Cambio de modo

Para ver el modo de funcionamiento actual, pulse una vez el botón de prueba. Se iluminará el LED del modo correspondiente en el lado posterior del micrófono.

Para cambiar el modo de operación, pulse nuevamente el botón de modo y repita este paso hasta obtener el modo que desea.

- Note:**
 - Solo es posible seleccionar los modos de entrada de línea y FM si hay insertado un cable o receptores FM en el micrófono.
 - El micrófono cambiará automáticamente al modo de entrada de línea cuando se inserte un enchufe mini jack.
 - El micrófono cambiará automáticamente al modo FM cuando se inserte un receptor FM o EDA.

Estado de la batería

Para ver el estado actual de la batería, pulse y mantenga presionado el botón de modo durante 3 segundos como mínimo hasta que uno o más de los LED de modo empiecen a parpadear.

- 75 – 100 % – Todos los LED de modo parpadear
- 50 – 75 % – Tres LED de modo parpadear (FM + entrada de línea + TC)
- 25 – 50 % – Dos LED de modo parpadear (FM + entrada de línea)
- <25 % – Un LED de modo parpadear (FM)

Note: Cuando resten menos de 30 minutos de tiempo de funcionamiento, el LED de estado parpadeará de color amarillo.

Control del volumen

Utilice los botones de volumen "+" y "-" para ajustar el volumen en un nivel agradable.

Un parpadeo corto de color amarillo del LED de silencio indica un cambio de volumen. Un parpadeo largo de color amarillo indica que se ha alcanzado el nivel de volumen máximo o mínimo.

Note: Al encender nuevamente el micrófono, este volverá a su nivel de volumen por defecto.

En algunos casos, se puede controlar ajustando el volumen en la fuente de señal, por ejemplo subiendo o bajando el volumen del televisor.

