

BELLMAN AUDIO DOMINO



PERSONAL HEARING SYSTEM

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Bellman Audio Domino 个人听力系统, BE2210/BE2230

简介

感谢您选择 Bellman & Symfon 的产品。

Bellman Audio 是一个辅助听力的系统, 它由一组元件组成, 可帮助您解决在不同环境下的听力难题。Bellman Audio 产品为许多人的日常生活带来简便, 并让人们赢得自由追求兴趣的空间。

组成 Bellman Audio Domino 的无线听力产品经过特殊改造, 使您在各种听觉困难的环境下畅通无阻。采用最先进的数码通信技术、加密技术和无线技术, 为您提供极佳的音质、安全可靠的无线电信号传输和使用本产品的极大自主性。通用的无线电波和简单的电池充电器使产品能够在全球范围内安全、简便地使用。

在使用产品前请先通读此说明书。
请参考配件和连接选择的图示。

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安全规则

- 请阅读这些说明。
- 请留着这些说明。
- 请注意所有警告内容。
- 请遵循所有说明。
- 请勿在水边使用本设备。
- 只能用干布清洁。
- 请勿堵住任何通风口。按厂家说明进行安装。
- 请勿安装在热源附近，如散热器、供暖调风口、炉子或其他发热设备（包括放大器）。
- 切勿让两极插头或接地插头失去安全作用。两极插头有两个插脚，一个宽，一个窄。接地插头有两个插脚和第三个接地插脚。宽插脚和接地插脚起安全保护作用。如果提供的插头与插座不配套，请咨询电工，更换旧插座。
- 对电源线实施一定的保护措施，避免被踩踏或挤压，尤其是插头、插座以及从设备引出电源线的位置。
- 仅使用厂家指定的附件/配件。
- 雷雨天气或长期不用时，应拔下设备电源。
- 所有维修工作应由合格的维修人员完成。如果设备因以下原因被损坏，应进行维修：电源线或插头被损坏、液体溅到设备上、异物掉入设备中、设备曝露在雨中或湿气中、不能正常运行、设备被摔落。



请注意: BE2210 和 BE2230 Bellman Audio Domino 个人听力系统不是助听器。Bellman & Symfon 公司建议，如果使用者已经失去听力请直接咨询医生。



警告! BE2210 和 BE2230 Bellman Audio Domino 个人听力系统配备一个很强大的扩音器，如果操作不当，过度的音量可能会引起不适，更严重者可能会损害听力。因此，为了您的健康着想，在佩戴耳机前请务必将音量调到最低。



警告! Bellman Audio Domino 个人听力系统由可充电的锂电子提供电量。因此，不要把电池暴露在火苗中或者直接对着阳光。电池只能由 Bellman & Symfon 的员工来更换并且只能更换同一款电池。更换电池时的错误操作会有爆炸的危险。在第一次使用之前，电池必须被充满电。警告：电池只能在+5到+40摄氏度温度范围内进行充电。



警告! Bellman Audio Domino 个人听力系统只能由 Bellman & Symfon 推荐的充电配件进行充电。



警告! AC/DC适配器不能接触到水或装有液体的物品，如花瓶，不应放在该听力系统上。要切断电源必须将AC/DC适配器插头拔离电源插座。AC/DC适配器插头不能受阻，必须易于达到其预定用途。标识信息见AC/DC适配器背面。



警告! 该产品可能包含微小部件, 为了您孩子的安全起见, 请将其放置在儿童接触不到的地方。



这标志表明, 内置的电源设备绝不能把它当成是平常的生活垃圾。它应该被投放到相应的电子设备或电器回收点。您可以从当地的政府、最近的回收站或者您购买该产品的商店了解到更多的关于回收该产品的信息。

盒内有什么物品?

盒内包括使用 Bellman Audio Domino 所需要的所有物品。盒子内里配有配件储藏处放置配件。盒内包含:

- A BE2210 接收器
- B BE2230 发射器
- C BE9141 旅行包
- D 说明书
- E 便携手册
- F BE9142 国际充电器, 配有四个主要插头
- G BE9139 USB充电连接线, 两条
- H BE9136 带夹子的麦克风
- I BE9137 立体声转换线, 1.5米的适配器, 一边是3.5毫米的插孔, 另一边是RCA插头
- J BE9135 带安全扣的挂绳, 两条
- K BE9124 耳塞式耳机

数据参考

接收器

- 1 接收器的内置麦克风
- 2 表示内置麦克风设定的LED指示灯
 - 绿光: 全方位麦克风
桔光: 定向麦克风
- 3 电池状态LED指示灯
 - 绿光: 开启, 电池充满电
闪烁绿光: 开启, 电池电量低
闪烁桔光: 开启, 电池耗尽, 即将自动关闭
桔光: 正在充电
- 4 表示通过发射器接听的LED指示灯
 - 绿光: 全方位麦克风
桔光: 定向麦克风
绿光和桔光: 输入 (外部声源)

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- 5 选择内置麦克风按钮
- 6 开关按钮
- 7 选择通过发射器接听的按钮
- 8 音量和音调LED指示灯
- 9 增加音量的按钮
- 10 减少音量的按钮
- 11 调低音的按钮
- 12 调高音的按钮
- 13 3.5毫米耳机插孔
- 14 充电插孔
- 15 夹子

- 发射器**
- 16 发射器的内置麦克风
- 17 电池状态LED指示灯
 - 绿光: 开启, 电池充满电
 - 多次闪烁桔光和绿光: 一个外部声源被接入
 - 闪烁绿光: 开启, 电池电量低
 - 闪烁桔光: 开启, 电池耗尽, 即将自动关闭
 - 桔光: 正在充电
- 18 开关按钮
- 19 配对发射器和接收器的按钮
- 20 2.5毫米外部声源输入插孔
- 21 充电插孔
- 22 夹子

开始

测试

- 1 发射器和接收器都配有内置或可充电电池。在第一次使用本品前, 发射器和接收器的电池都必须充满电。请使用配套的充电器。
- 2 在耳机插孔 (13) 连上耳机, 通过开关按钮 (6) 开启接收器。试听接收器上的麦克风并使用音量按钮 + 或 - (9或10) 调整音量。
- 3 通过开关按钮 (18) 开启发射器, 按下外部声源按钮 (7) 转到通过发射器的麦克风接听。外部声源, 譬如音乐, 可以通过外部声源输入插孔 (20) 连接到发射器。

音量控制可调整音量。+ 和 - (9和10) 可以提高和降低音量, 而音量和音调LED指示灯 (8) 会显示声级。越多的LED指示灯发亮表示音量越高。音量设定后5秒, LED指示灯会熄灭。

音调的控制可以调节声音的质量。> (12) 和 < (11) 可以提高和降低音调。音量和音调LED指示灯 (8) 可以显示音调的设置。音调设置后5秒, LED指示灯会熄灭。

使用完毕, 请通过开关按钮① (6, 18) 关闭接收器和发射器, 长按至电池状态LED指示灯 (3, 17) 熄灭。

配件

我公司可供应以下配件:

- BE9122 立体声耳机
- BE9124 耳塞式耳机
- BE9125 立体声听筒
- BE9126 立体声转换线, 5米 (16英尺)
- BE9127 外接麦克风, 5米 (16英尺)
- BE9159/BE9161 环颈线圈
- BE2210 接收器

关于我公司的所有配件和更多最新配件的信息

请浏览网址: <http://www.bellman.com>

如何使用 Bellman Audio Domino

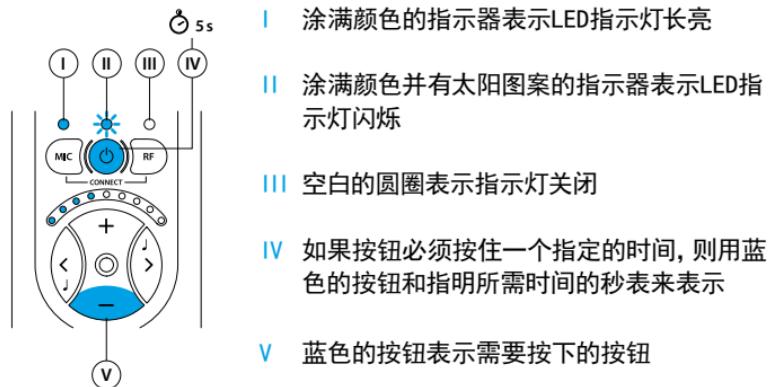
Bellman Audio Domino BE2210 和 BE2230 个人听力系统经过专门改造, 给您高质量的听觉感受。用 Bellman Audio Domino 听演讲和音乐, 效果格外明显。您可以使用接收器和发射器的内置麦克风或者接入外部声源。您可以使用配套的麦克风作为一个外部声源或者用配套的立体声转换线连接立体声声源。

标志和提示符号

说明书使用以下标志, 图释如下:

 三角警告号表示为了保证产品正确运行和特殊情况下的人身安全所必须遵守的指示。

 灯泡指示一些能帮助您充分利用产品的有用信息(提示和建议)。



充电

发射器和接收器都配有内置或可再充电电池。在第一次使用本品前, 发射器和接收器的电池都必须充满电。

Bellman Audio Domino 包含锂电池和通用充电器, 适合欧洲、英国、美国和澳大利亚使用的可替换插头使产品适用于全球的大部分国家。

 警告: 只能用配套的充电器或者是 Bellman & Symfon 的配件进行充电。

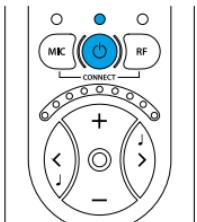
按照本说明书的折叠式插页图所示连接到充电器。

选择适合本地区的充电插头, 连到壁上插座前请先检查充电插头是否与充电器紧贴。当充电连线接到充电器时, 发射器和接收器上的电池状态 LED显示灯(3,17)会从绿光变成桔光, 表明充电正在进行。充电完成(大概4小时以后), 指示灯会再一次变成绿光; 关机时, 指示灯熄灭。充电器可同时为发射器和接收器充电, 也可以为其中之一充电。

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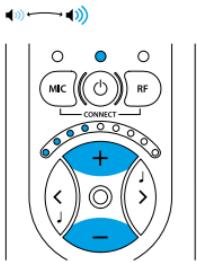
接收器的使用

把BE9122 Bellman 立体声耳机，BE9159/BE9161 Bellman 环颈线圈，BE9125 Bellman 立体声听筒，BE9124 Bellman 耳塞式耳机或者是其它 Bellman & Symfon 推荐的听力产品连接到右面的耳机输出口(13)如本说明书折页式插图所示。



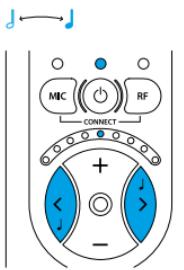
开启接收器

按住开关按钮 ⌂ (6) 约3秒, 电池状态LED显示灯(3)开始闪烁, 绿灯表明机器处于开启状态。



音量设置

使用音量控制键+ (9) 来升高或- (10) 来降低音量。音量、音调的指示灯表明音量的大小。音量越大亮灯越多。为了节省用电, 指示灯会在音量设置完成5秒内关闭。

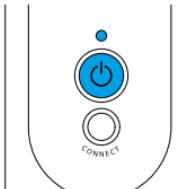


音调设置

使用音调控制键< (11) 来降低或> (12) 来升高音调。音量、音调的指示灯表明音量的大小。音量越大亮灯越多。为了节省用电, 指示灯会在音调设置完成5秒内关闭。



注意: 接收器本身也可以作为一个便携式的扩音器使用, 但是如果配合发射器一起使用, 您将会体会到前所未有的听觉感受并享受接收器和发射器为您提供的极大的便利。

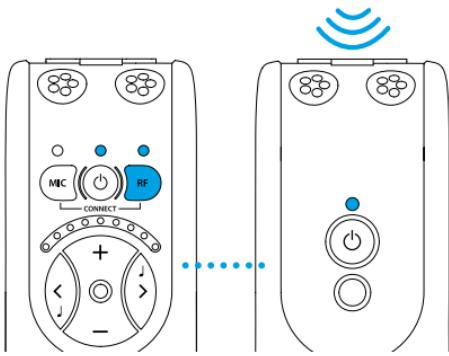


发射器的使用

开启发射器

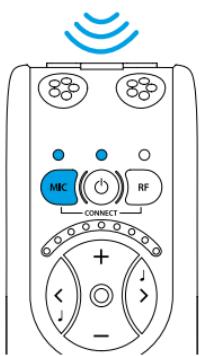
按住开关按钮 ⌂ (18), 电池状态LED显示灯开始闪烁, 绿灯表示机器处于开启状态。

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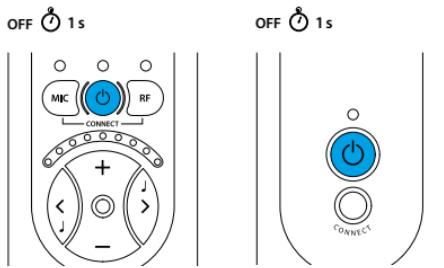
通过发射器接听

要接听来自发射器麦克风的声音，可按下接收器上的R按钮(7)，轻松切换。外部声源LED指示灯(4)长亮，此时，耳机可接听发射器侦察到的声音。



再次通过接收器内置麦克风接听

短暂按下**MIC**按钮(5)可再次选择接收器的内置麦克风作为声源。内置麦克风LED指示灯(2)发亮，此时，耳机再一次接听到来自内置麦克风(1)的声音。



关机

使用完毕，可通过开关按钮(6, 18)关闭发射器和接收器。长按开关按钮直到电源状态指示灯(3, 17)熄灭。

麦克风的选择

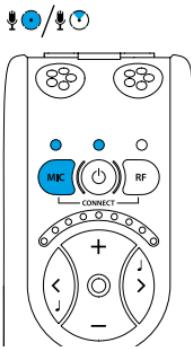
Bellman Audio Domino 的麦克风提供全方位接听和定向接听两种选择，您可以轻松转换。

发射器上和接收器上的麦克风都具备这一功能。

如果您在内置麦克风和发射器上的麦克风之间进行了转换，接收器会记忆您对麦克风设置。

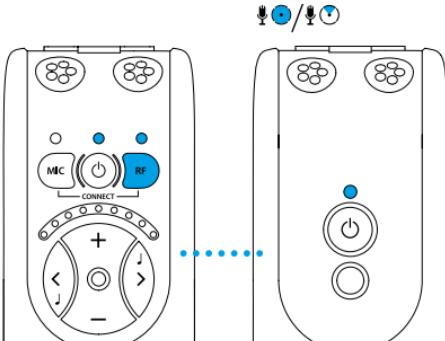


选择定向接听功能，您可以把麦克风指向您感兴趣的声源从而减少来自其它方位的杂音。在某些特殊的场合，这个功能特别有用，例如：在一些很吵杂的环境或者在人群里。



选择接收器上的麦克风

按下**MIC**按钮 (5) 在全方位接听和定向接听之间进行转换。内置麦克风LED指示灯 (2) 亮绿光表示是全方位接听，桔光则表示接收器处于定向接听状态。



选择发射器上的麦克风

按下**R**按钮 (7) 选择通过发射器来接听时，您可以再按一次**R**按钮 (7) 在全方位接听和定向接听之间进行切换。外部声源LED指示灯 (4) 亮绿光表示全方位接听，桔光则表示发射器处于定向接听状态。

外部声源

如果配备的音频转换线（在一端附有2.5毫米的插孔）或者外部的麦克风被连接到发射器的外部声源输入插孔 (20)，发射器的内置麦克风会自动断开连接，而外部设备的声源将自动被选择。电池状态LED显示灯显示桔光，并闪烁几次，以确认外部的声源已连接。外部声源LED指示灯 (4) 将会同时亮起绿光和桔光来指示声音属于外部声源。

如果外部声源断开连接，声音将重新连接到发射器的内置麦克风。

用音频转换线连接发射器和电视、音响设备、MP3播放器或者类似的声源，您将体会到绝对一流的立体声感受，并且不受电线约束。

输入灵敏度会根据声源类别自动进行调整。

外部麦克风

把外部的麦克风连接到发射器上2.5毫米的插孔 (20)，电池状态LED显示灯显示桔光，并闪烁几次，已确认一项外部声源被连接。外部声源LED指示灯 (4) 同时亮起绿光和桔光表示声音来自外部声源。

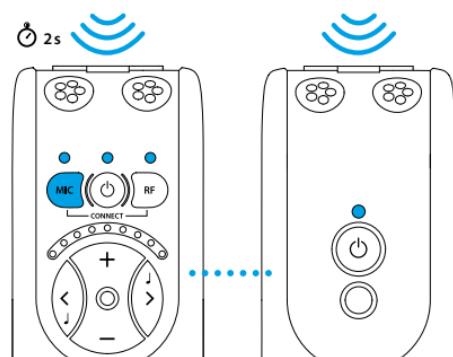
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在某些情况下，例如，演讲者可以很轻易地携带一个外部麦克风并把一个发射器放在他\她的衣袋里来扩大音量，而不用大声说话或者使用有线麦克风。

一个发射器能够把演讲同时发射到几个接收器。

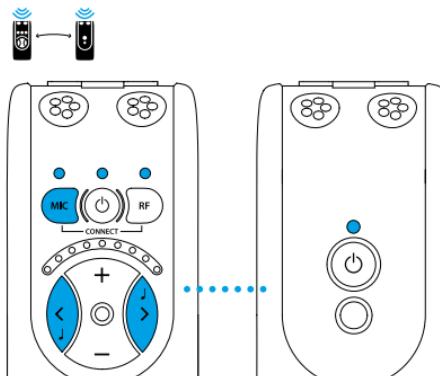
一旦外部麦克风接入，输入端灵敏度将自动调节到最适合的范围。

 请注意：当外部声源插入时，发射器的电池状态LED指示灯(17)交替闪烁绿光和桔光。



联合信号资源

当您接听来自发射器的麦克风或者是外部声源的声音时，这些声音可以和接收器内置麦克风接收到的声音联合在一起。按下R按钮(7)选择接听来自发射器的声音；按住**MIC**按钮(5)直到**MIC**指示灯(2)和**RF**指示灯(4)齐亮。



来自发射器的声音和来自内置麦克风的声音混合在一起。按住**MIC**按钮(5)的同时，再通过按下按钮<(11)或>(12)，就可以调节发射器和接收器之间的均衡。

短按R按钮(7)，就可以轻松切换至接听来自发射器或者外部声源的声音。如果您想切换至接听来自内置麦克风的声音，请按下**MIC**按钮(5)。

无线数码传输

Bellman Audio Domino 使用了最新的无线通信技术通过数码传输声音，声音具有超凡的音质就像来自于音响一样。而且无线传输是加密的，这样可以保证高水平的安全性和保密性。

SI-CN

 注意，无线通信发生在2.4GHz的频率范围，这是在全球范围内都允许使用的一个频率。

电量指示

电池状态LED指示灯(3,17)在一般状态下显示绿光。这表明机器处于开启状态并且电量在一个令人满意的水平。

当电量低的时候,电池状态LED指示灯(3,17)闪烁绿光直到电量差不多耗尽时会变成桔光。在机器闪烁绿光时,请充电。电量耗尽将自动关机。

当充电器连接到充电器插孔(14, 21)的时候,机器将会自动充电。充电的进度会同时在充电器和机器上用桔光显示出来。一旦电池充满电,指示灯会显示绿光,并且电池会一直保持充电状态直到充电器断开连接。

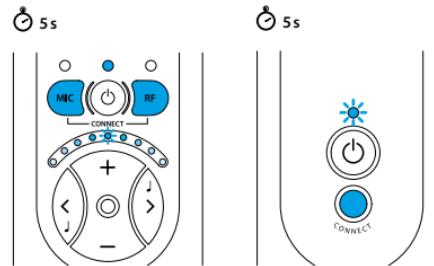
与另一个发射器建立临时连接

为了保证无线通信的正常运行,Bellman Audio Domino发射器和接收器之间必须建立无线连接。为了方便入门,发射器和接收器总是成对提供使用的。

无论何时,只要您想接听来自另一个发射器的声音,都要与之建立临时的连接。一旦关闭接收器,它会重新与之前配对的发射器联合工作。

建立接收器和发射器的临时连接步骤如下:

- 按下开关按钮⑥(6, 18)
- 按住发射器上的CONNECT按钮(19)
- 同时按住接收器上的MIC按钮(5)和RF按钮(7)。



音量和音调LED指示灯(8)两边向中间部分滑动闪烁表明临时的连接已经成功建立。

只有在发射器CONNECT按钮被按下时,它才能和接收器连接。此步骤出于安全性考虑,以防止发射器在毫无防备之下被其它接收器连接。



请注意:通过同样的操作,您能够很容易地用同一个发射器连接到多个接收器。然而,接收器的数量可能会影响该系统的正常运行。

简单故障处理

常见问题	解决
按下开关时没反应	连接充电器, 检查充电是否在10秒内开始。  请注意: 如果充电没有在10秒内开始,请马上断开充电器连接并联系最近的销售商。
接收器处于开启状态, 但听不到任何声音	按下音量按钮(9), 扩大音量。 检查内置麦克风是否被选中作为声源, 用手指轻轻触碰麦克风(1)检查是否运作。 检查耳机是否正确插入了耳机插孔。 把耳机连接到其它的声源设备(附有3.5毫米的耳机插孔), 检查耳机是否能够正常运作。
接收器处于开启状态, 并且外部声源已被选择, 依然听不到任何声音	检查发射器是否开启。 检查外置麦克风是否被选中作为声源, 用手指轻轻触碰麦克风(16)检查是否运作。

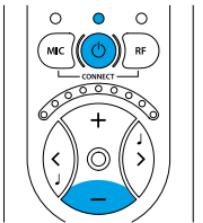
常见问题	解决
	检查发射器是否处于使用范围之内。 检查无线连接是否正确。 检查发射器是否能在全方位接听和定向接听中进行转换。 如果音响转换线被连接到外部声源插孔(20)请检查声源是否正确连接到发射器。
耳机里的高音噪音	调低音量或者增大麦克风和耳机之间的距离。 使麦克风远离自己。
声音很分散并且断断续续	接收器与发射器之间的距离太远了。 把两个机器靠近些。 不止一个接收器连接到发射器上并且至少有一个接收器离发射器太远。 太多接收器连接到同一个发射器上。 有太多2.4GH的发射器或者有太多Domino在附近, 彼此间互相影响。  请注意: 墙壁、水泥板、金属等都会影响到接收范围。

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Appendix

Settings

Bellman Audio Domino has more settings than those you can access in user mode. By going into the Settings Menu you can adjust settings that you do not normally need to change or which are adjusted when first used and never need to be changed again.



Settings menu

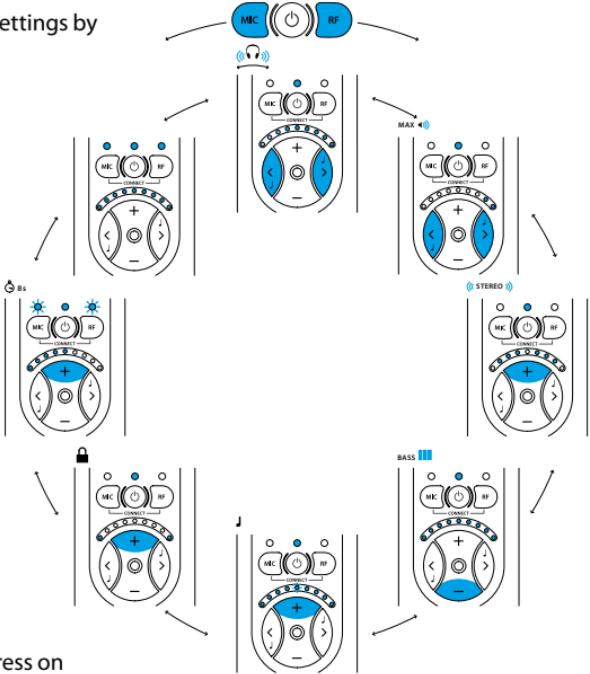
Start the Receiver Unit with the On/Off button (6) for about 3 seconds.

Hold down the On/Off button (6) and press the Volume Button — (10) within 1 second for at least 3 seconds.

You are now in Balance Control mode.

Overview of the Settings Menu

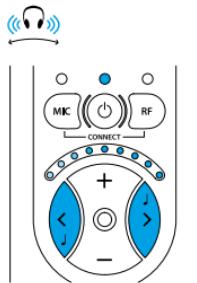
In the settings menu you can move between the different settings by pressing the **RF** button (7) or the **MIC** button (5). Each press on the **RF** button moves you clockwise on to the next setting in the list and the **MIC** button takes you anti-clockwise to the previous setting in the list.



When you have finished adjusting your settings, give a short press on the On/Off button (6) to return to normal user mode.

Balance control

The balance between the right and left-hand channels can be set to compensate, for example, for a hearing loss in one ear.



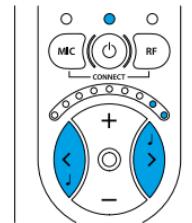
Press the **<** button (11) to adjust the balance on the left and the **>** button (12) to adjust the balance on the right.

The standard setting is centred balance.

Basic attenuation

Different headphones have different sensitivity levels and you can compensate for this with basic attenuation. What you actually set is the attenuation you require at the maximum power output you want to have (which is therefore 0 dB attenuation). This setting is useful when you want to adjust the maximum volume in user mode for a pair of headphones or in-ear phones with a higher sensitivity than the BE9122 Bellman Stereo Headphones or, for example, if you want to limit the volume for a child.

MAX

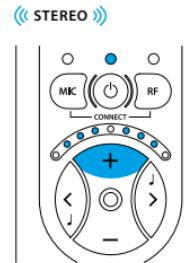


Use the **>** button (12) to reduce the basic attenuation (increase the volume) and the **<** button (11) to increase the basic attenuation (reduce the volume). The basic attenuation is adjusted in increments of 3 dB.

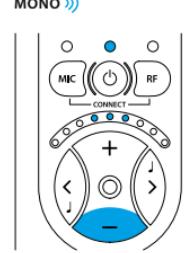
The standard setting is 0 dB attenuation, which corresponds to the maximum output signal.

Stereo/Mono

The line-in signal can be rendered in either Stereo or in Mono. The speech intelligibility can be increased in certain listening situations such as when watching TV if the signal is in Mono.



Press the **+** button to select Stereo.



Press the **-** button to select Mono.

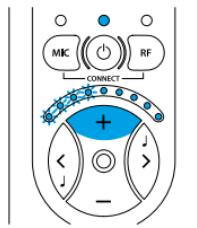
APP

The standard setting is Stereo.

Bass reduction

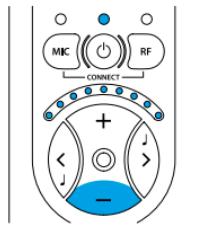
Low-frequency interference such as fans and road noise can be tiring if you are exposed to it for a long period. By activating bass reduction, low-frequency interference and sounds are reduced.

BASS 



Press the **+** button (9) to activate Bass Reduction.

BASS 



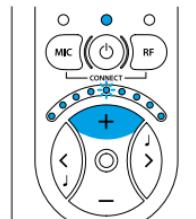
Press the **-** button (10) to deactivate Bass Reduction and get level frequency response.

The standard setting is deactivated Bass Reduction.

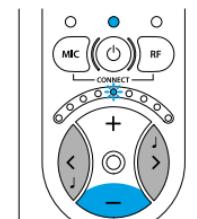
Adjusting the Tone Control

The Tone Control Blocking function has been developed in case you want to make it easier for the user to use Bellman Audio Domino. This setting can be used to choose whether the user should be able to adjust the tone control or not. If you choose to switch off the tone control buttons, you can preset the tone control that will be used in user mode.

J



X

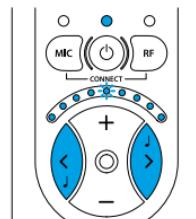


Activating and deactivating Tone Control in User Mode

Press the **+** button (9) to activate the tone control buttons and the **-** button (10) to deactivate them.

The standard setting is tone control activated.

J ← J



Presetting the Tone Control

Press the **<** button (11) and the **>** button (12) to preset the tone control to the level that will be used in user mode.

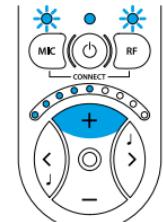
The standard setting is Tone Control centred (level frequency response).

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Please note that if the tone control is on, the preset value will be changed as soon as the Tone Control is changed in user mode.

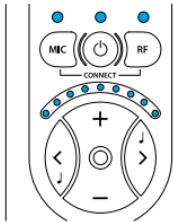
⌚ 8s



Resetting to the factory setting

You can use this to reset all settings to the standard settings that the products were supplied with from the factory.

Press and hold down the **+** button (9) until all the LEDs on the display are lit. After resetting is completed, the display will blink for a short period.



Version information

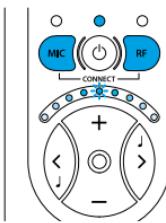
The product version information is presented here via a pattern of lit and blinking LEDs. This internal information is only intended as an aid for servicing and support.

Pairing of units

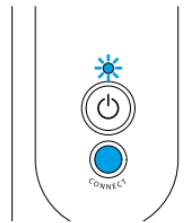
The Transmitter and Receiver Units in the Bellman Audio Domino system must have the radio link established in order for radio communication to operate.

To make it easier to get started, a Receiver Unit and a Transmitter Unit which are paired together are always supplied so that they will work together. Where you want to pair a Receiver Unit with a Transmitter Unit which is different from the Receiver Unit it was originally supplied with, you can do this in the Settings Menu. Proceed as follows to pair up the units:

⌚ 5s



⌚ 5s



- Start both the units with the On/Off buttons ⏻ (6, 18).
- Go into the Settings Menu.
- Hold down the **CONNECT** button (19) on the Transmitter Unit.
- Hold down both the **MIC** button (5) and the **RF** button (7) on the Receiver Unit.

A "running light" on the Receiver Unit's Volume and Tone LED Indicator (8) moving towards the centre indicates that the link has been established.

APP

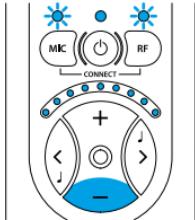


Please note! If you pair up a Transmitter Unit and a Receiver Unit in the Settings Menu, this replaces the pairing carried out in the factory. This can be useful when changing a Transmitter Unit under guarantee or if you want to pair up several Receiver Units to a Transmitter Unit (e.g. in a conference room).

Educational Mode

The Domino Pro has a mode especially developed for use in an educational setting. This mode sets the microphone in the transmitter to be active by default. The microphone in the receiver can be momentarily activated to allow conversation with peers and support staff around the user.

- By pressing and holding the MIC button, the sound from the local microphone will be mixed with the sound from the transmitter microphone
- When the MIC button is released, the receiver will go back to the transmitter microphone again



Turn On the Educational mode

- 1) Enter the "Settings menu" (refer to Page 314)
- 2) Use the MIC (5) button to move between settings until the LED's over the MIC (5) and RF (7) buttons flash (this is the "Resetting to the factory setting" menu).
- 3) Press and hold the Volume down – button (10) for 20 seconds.
- 4) The LED lightbar will flash to acknowledge the change of mode.
- 5) Press the power button once shortly to set education mode and return to the normal menu.

Turn Off the Educational mode

The Educational mode is turned OFF by restoring Factory settings (refer to Page 320). Note: The factory default setting is Educational mode OFF.

Testing

It is easy to test the Bellman Audio Domino Personal Hearing System. If Bellman Audio Domino does not operate as described below, you can carry out further troubleshooting as instructed under Troubleshooting.

How to test

The testing of Bellman Audio Domino has been divided into three parts. One part for the Receiver Unit for which only the Receiver Unit is required, one part for the Transmitter Unit for which both units are required and finally one for charging the two units.

Receiver Unit

- Switch on the unit and make sure that the Battery Status LED (3) lights up green.
- Connect the headphones to the Headphone Socket (13) and scrape carefully on the round microphone (1) with your finger and check that there is a scraping sound in the headphones.
- Press the **MIC** button (5) and make sure that the Microphone LED (2) changes colour and lights up orange.
- Scrape carefully on the small microphone hole on the top (1) and the round microphone (1) with your finger and check that there is a scraping sound in the headphones.
- Press the buttons (9, 10, 11, 12) and check that the Volume and Tone Indicator changes.

Transmitter Unit

- Switch on the unit and make sure that the Battery Status LED (17) lights up green.
- Press the **RF** button (7) and make sure that the External Sound LED (4) lights up green.
- Carefully scrape on the round microphone hole (16) on the top of the Transmitter Unit with the finger and check that there is a scraping sound in the headphones.
- Press the **RF** button (7) and make sure that the External Sound LED (4) changes colour and lights up orange.
- Carefully scrape on the round microphone (16) on the Transmitter Unit with the finger and check that there is a scraping sound in the headphones.
- Connect an external sound source to the External Sound Source Input (20) and check that the sound from the sound source is heard in the headphones. The external sound source input (20) can be tested, for example, by connecting a CD player or a radio to the input via the audio cable supplied. The transmitter unit automatically switches to an external sound source when a connector is connected to the External Sound Source Input (20).

Charging

- Connect the charger to the mains socket and check that the LED on the charger light up green.
- Connect the charging cables to both the charger and to the charging sockets on the Receiver Unit and the Transmitter Unit (14, 21), see the fold-out section of the manual.
- Check that the LED on the charger change from green to red.
- Check that the Battery Status LEDs on both the Transmitter Unit and Receiver Unit light up orange.

Troubleshooting

Problem	Solution
The sound is louder in one ear than in the other.	Adjust the Balance in the Settings Menu.
The sound volume is low even though the volume is set to max.	Adjust the Basic Attenuation in the Settings Menu.
The sound is only in Mono even though it is connected via a stereo cable to a sound source which provides stereo sound.	Change to Stereo in the Settings Menu.
The bass reproduction is weak.	Switch off Bass Reduction in the Settings Menu.
The Tone Control cannot be adjusted.	Use the Settings Menu to activate the Tone Control buttons or to adjust the sound.
The Receiver Unit is behaving strangely.	Reset the unit to the factory settings in the Settings Menu.
The Receiver Unit loses its link to the Transmitter Unit when you switch off the Receiver Unit.	Pair up the Receiver Unit and Transmitter unit permanently in the Settings Menu.

Problem	Solution
Humming occurs when connecting the stereo cable during charging.	Only use the charger supplied, BE9142.

APP

Technical information

Power supply

Battery power Built-in rechargeable lithium-ion battery 3.7 V, 860 mAh



CAUTION:

*Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.*

Operating time, fully charged • Up to 12 hours using BE9124 earphones
• Up to 8 hours using BE9159 neckloop

Transmitter charging time 4 hours

Receiver charging time 4 hours

 Please note! The battery capacity may deteriorate over time. If you find that the operating time is too short, please contact your service center for replacement of the rechargeable battery.

Input signals

Microphone Internal electret condenser type
(omni-directional or directional)

External sound source input 2.5 mm stereo tele jack plug 0 dBV sensitivity
(max input level)

Automatically selects Aux. in or Ext. mic.

Output signals

Headphone socket 3.5 mm stereo jack plug

Output power	100 mW @ 16 Ω load
Distortion	BE9122 Headphones 0.6 % THD BE9124 Ear Phones 0.08 % THD
Dynamic range	95 dB SNR (electrical)
Frequency range	40 – 10.000 Hz (electrical)
Max output level, saturation	
BE9122 Headphones	BE2210: 124.3 dB SPL / BE2230: 124.3 dB SPL (@ 2.5 kHz)
BE9124 Ear Phones	BE2210: 132.0 dB SPL / BE2230: 130.5 dB SPL (@ 5 kHz)
BE9125 Stetoclips	BE2210: 133.7 dB SPL / BE2230: 133.6 dB SPL (@ 1 kHz)
Full on gain	(60 dB SPL input signal @ 1 kHz):
BE9122 Headphones	BE2210: 42.5 dB / BE2230: 44.0 dB
BE9124 Ear Phones	BE2210: 55.0 dB / BE2230: 57.5 dB
BE9125 Stetoclips	BE2210: 58.2 dB / BE2230: 64.2 dB
Full on gain	(60 dB SPL insignalf, HFA):
BE9122 Headphones	BE2210: 46.5 dB / BE2230: 49.0 dB
BE9124 Ear Phones	BE2210: 51.5 dB / BE2230: 56.0 dB
BE9125 Stetoclips	BE2210: 52.0 dB / BE2230: 59.4 dB
Radio function	
Digital radio technology	2.4 GHz frequency band, three channels Co-exists with other equipment Automatic channel selection 128 bits encryption
Topology	Point-to-point or Point-to-multipoint
Diversity	2 antennas for reception, one antenna for transmission (Rx + Rx/Tx)
Transmitting output power	Max. 25 mW

APP

Radio function	
Operating range radio	Up to 25 meters indoors clear line of sight, up to 100 meters outdoors clear line of sight. Walls, concrete and metal reduce the range.
The following may also affect the performance:	<p>More than one Receiver is connected to a Transmitter and at least one of the Receivers is too far away from the Transmitter.</p> <p>Too many Receivers are connected to the same Transmitter.</p> <p>Too many transmitters on 2.4 GHz or too many Domino systems close to one another.</p>
Features	
Volume control	9 steps (5 dB/step)
Tone control	+/- 10 dB in 9 steps, cutoff frequency 1,6 kHz
Power switch	On/Off toggle button
Microphone and RF-mode	Separate mode select buttons
R/L-channel balance setting	0-20 dB programmable attenuation (in steps of 5 dB)
Maximum volume setting	0-21 dB programmable attenuation (in steps of 3 dB)

Bass reduction setting	Attenuation of frequencies below 400 Hz with 10 dB
Dynamic compressor:	10 channels Dynamic gain range 0-35 dB Compression 3:1 Expansion 1:1,5 Attack time 20 ms <3kHz, 25 ms ≥3kHz Release time 110 ms <3kHz, 200 ms ≥3kHz
Dynamic noise reduction	10-channel adaptive noise reduction
Feedback cancellation	Adaptive phase shift type
Digital signal processing	22.050 kHz sampling frequency, 16-bit resolution in stereo
Additional information	Stereo/Mono setting Reset of factory default settings High-polished gloss coating for reduction of handling noise
Additional information	
For indoor use only.	
Dimensions H x W x D	99 x 48 x 22 mm
Weight	BE2210: 74g, BE2230: 70g
Colour	Black/dark grey metallic, silver-coloured buttons.

Regulatory requirements

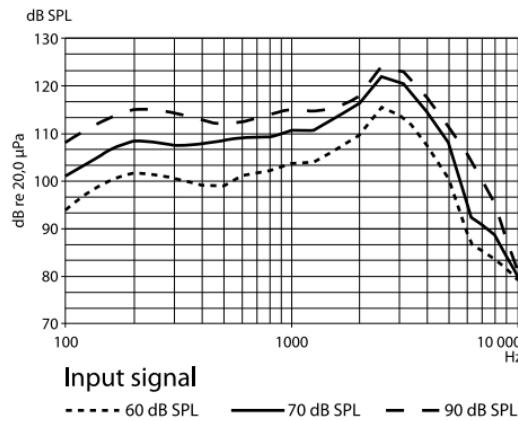
CE, RoHS, WEEE, FCC VOC,
FCC ID, RCM



Measurements

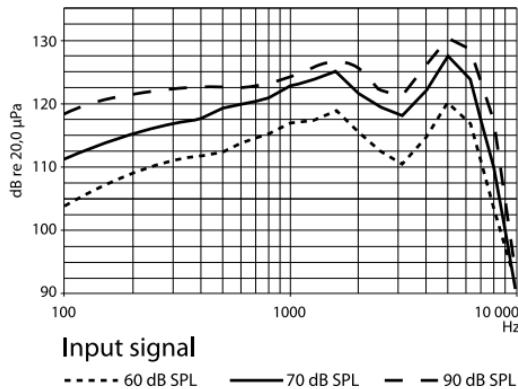
Frequency response

Acoustical (BE9122 Headphones, BE9124 Ear Phones
and BE9125 Stetoclips). See diagrams below.



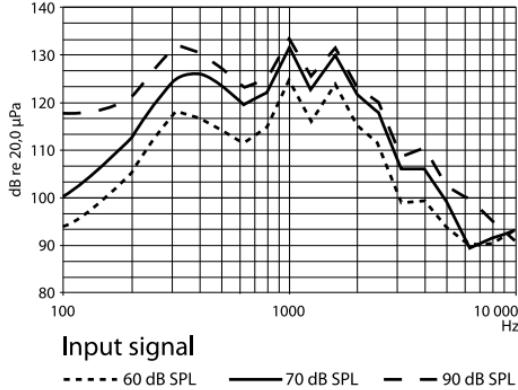
Output signal with
BE9122, Stereo head-
phones

dB SPL



Output signal with
BE9124, In-ear phones

dB SPL



Output signal with
BE9125, Stetoclips

APP

FCC compliance 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.



Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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.



Statement for Industry Canada

Le fonctionnement de cet équipement est soumis aux conditions suivantes:
(1) l'équipement concerné ne doit pas causer d'interférences, et (2) il doit accepter toute interférence reçue, y compris les interférences risquant d'engendrer un fonctionnement indésirable.



EAR PHONES



HEADPHONES



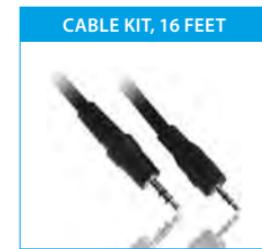
STETOCLIPS



NECK LOOP



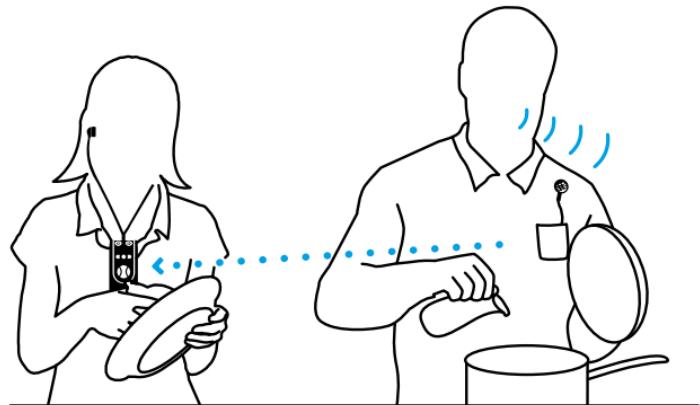
MICROPHONE



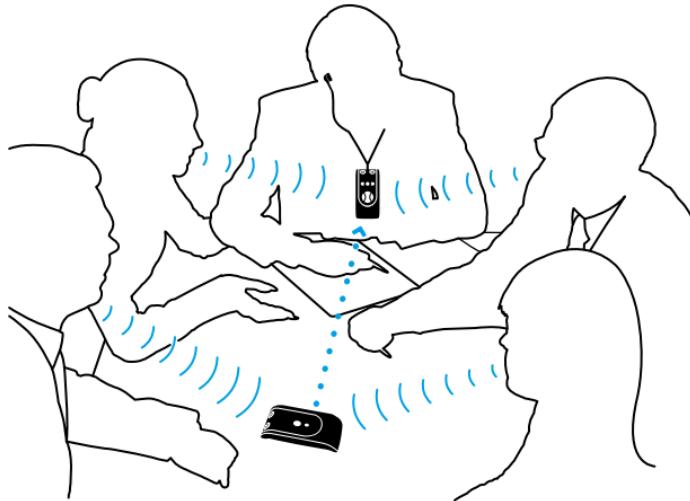
CABLE KIT, 16 FEET

These original accessories are especially developed to maximize the performance of your Domino. Contact your nearest dealer or visit: www.bellman.com

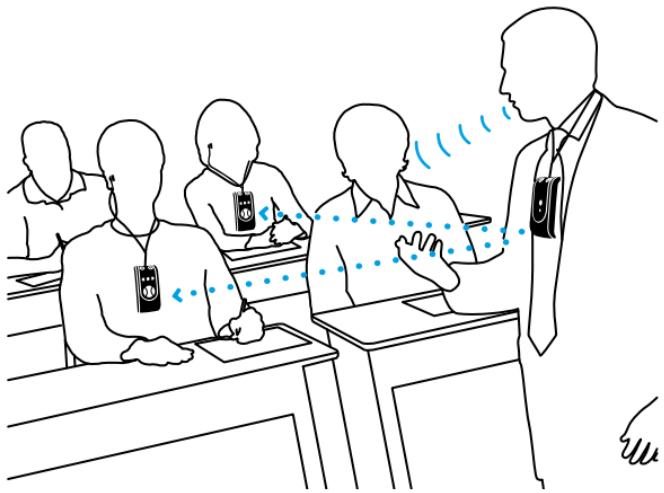
Einsatzgebiete • Anvendelsesområder • Areas of application •
Áreas de aplicación • Käyttökohteet • Champ d'application •
Ambiti di applicazione • 用途事例 • Toepassingen • Obszary
zastosowań • Anväldningsområden • 使用場合 • 使用場合 •



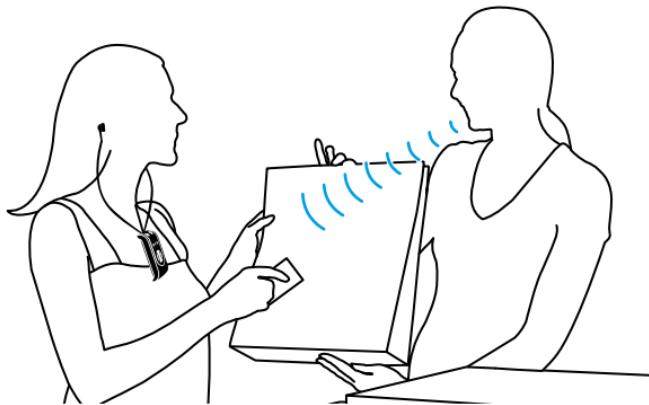
Zuhause • Indendørs • Indoors • Interiores • Sisätiloissa • À l'intérieur • Interni •
室内 • Binnen • W budynkach • Inomhus • 在室内 • 在室内



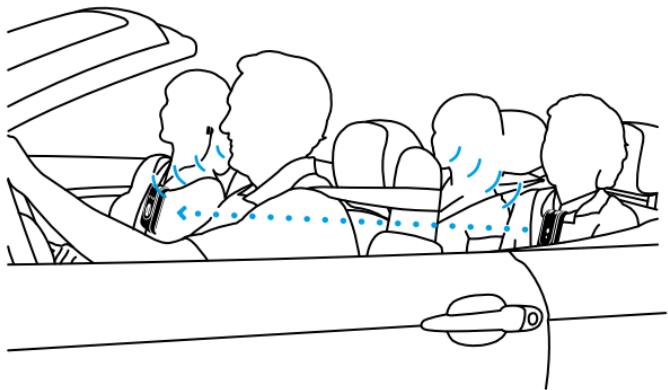
Auf der Arbeit • På arbejdspladsen • At work • En el trabajo • Työpaikalla •
Au travail • Al lavoro • 会议 • Op het werk • W pracy • På jobbet • 在工作 • 在工作



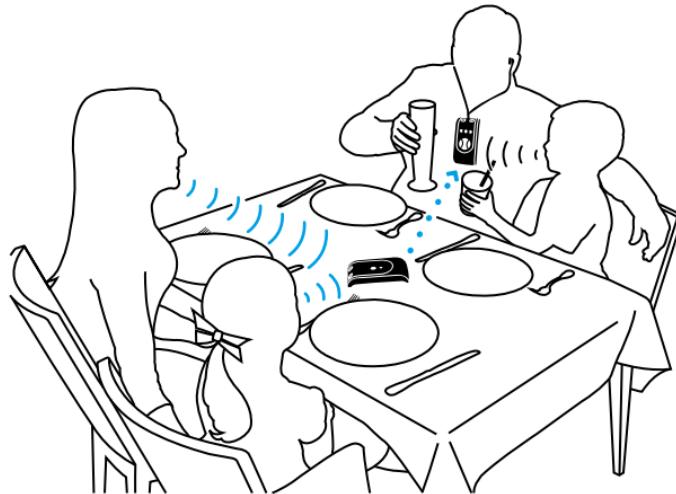
In der Schule • I skolen • At school • En clase • Koulussa • À l'école • A scuola •
学校 • Op school • W szkole • I skolan • 在学校 • 在學校



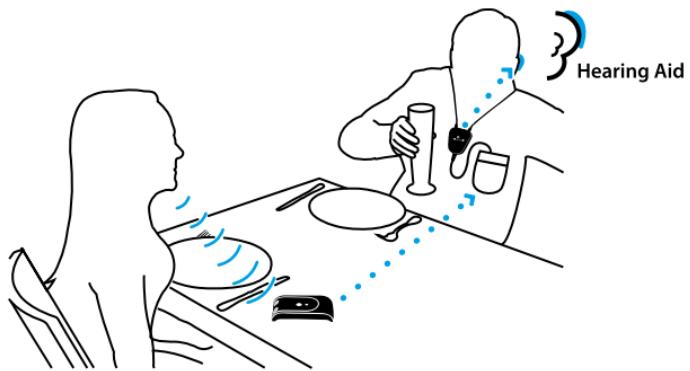
In der Stadt • I byen • In town • De paseo • Kaupungilla • En ville • In città •
街中 • In de stad • W mieście • På stan • 在城里 • 在城裏



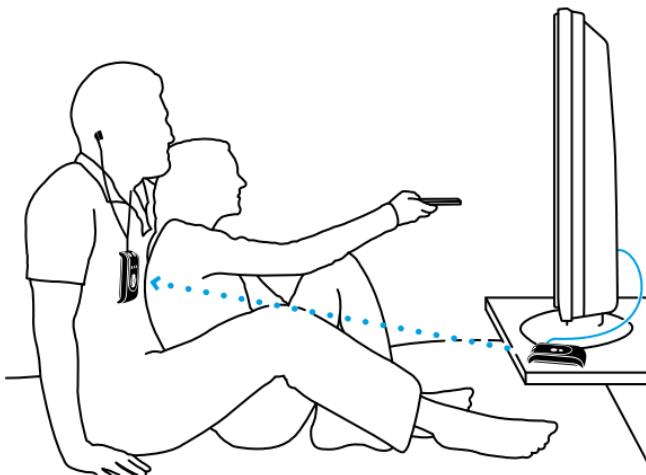
Auf Reisen • Under reiser • When travelling • De viaje • Matkoilla • En voyage •
Quando si viaggia • 旅行 • Op reis • W podrózy • På resan • 在旅游 • 在旅遊



Beim Essen • Ved aftensmaden • At dinner • Durante una cena • Illallisella •
À table • A cena • 食卓 • Tijdens een diner • Na obiedzie • Vid middagen •
在餐厅 • 在餐廳



Mit Hörgerät • Med et høreapparat • With a hearing aid • Con un audífono •
Kuulokojeen kanssa • Avec appareil auditif • Con un apparecchio acustico •
補聴器をしたまま • Met een gehoorapparaat • Z aparatem słuchowym •
Med hörapparat • 配合助听器 • 配合助聽器



Vor dem Fernseher • Foran tv'et • In front of the TV • Frente al televisor •
TV:n katselu • Devant la télévisio • Di fronte alla TV • TVの前で •
Voor de televisie • Przed telewizorem • Framför TV:n • 在看电视时 • 在看電視時

Warranty conditions

Dear customer. Thank you for your purchase of this Bellman & Symfon® product. Our vision is to supply outstanding products that are of great value for our customers. For this reason, we have put all our best efforts into designing and manufacturing this product. However, if you should have any questions about the product or if you require repair, please contact us.

General warranty conditions. Your Bellman & Symfon® product is covered by a limited warranty. Please read the following conditions carefully and keep this information in a safe place. Please also save your receipt or other proof of purchase as you will need this for warranty claims.

Warranty period. The warranty is depending on the type of product purchased and is valid from date of purchase. Bellman & Symfon offers warranty as per below:

Bellman Products in general	Two years of warranty from date of purchase
Bellman Neckloop	One year of warranty from date of purchase
Rechargeable batteries	One year of warranty from date of purchase
Bellman Accessories	90 days of warranty from date of purchase

Warranty conditions. Bellman & Symfon warrants that the Product that you have purchased is free from manufacturing defects in materials and workmanship when dispatched from our warehouse. Your sales receipt is your proof of the date of purchase and the warranty period commences as of that date. During the warranty period, Bellman & Symfon will have the option for the defective product to be repaired or replaced. The replacement product will be of equal or greater function and in good working and physical order. Such a replacement will be supplied from refurbished stock. The repaired or replaced product will be under warranty for the remainder of the original product's warranty period.

Warranty limitations. This warranty automatically becomes void if the product has been physically damaged or rendered defective (a) as a result of accident, misuse, or abuse, or other circumstances beyond Bellman & Symfon's control; (b) by the use of parts or peripherals not authorized by Bellman & Symfon; (c) as a result of normal wear and tear; (d) by use within an improper operating environment; (e) by modification of the product; (f) by the serial number or product code sticker being removed or defaced; (g) as a result of service rendered by anyone other than a Bellman & Symfon Authorized Service Agent; (h) as a result of the product being operated other than in accordance with Bellman & Symfon AB's users manual. Neither does the warranty cover failure due to causes outside Bellman & Symfon's control such as failure in your phone carrier's line service (if applicable) or Acts of God. No warranty is offered for disposable batteries.

Return policies / warranty claim. Please see www.bellman.com/warranty