

BELLMAN AUDIO DOMINO



PERSONAL HEARING SYSTEM

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Bellman Audio Domino

個人聽力系統, BE2210/BE2230

簡介

感謝您選擇 Bellman & Symfon 的產品。

Bellman Audio 是一個輔助聽力的系統，它由一組元件組成，可幫助您解決在不同環境下的聽力難題。Bellman Audio 產品為許多人的日常生活帶來簡便，並讓人們贏得自由追求興趣的空間。

組成 Bellman Audio Domino 的無線聽覺產品經過特殊改造，使您在各種聽覺困難的環境下暢通無阻。採用最先進的數位通信技術、加密技術和無線技術，為您提供極佳的音質、安全可靠的無線電信號傳輸和使用本產品的極大自主性。通用的無線電波和簡單的電池充電器使產品能夠在全球範圍內安全、簡便地使用。

在使用產品前請先通讀此說明書。
請參考配件和連接選擇的圖示。

安全規則

- 請閱讀這些指示。
- 請保管這些指示。
- 請注意所有警告事項。
- 請遵照所有指示。
- 請勿在靠近水的地方使用本設備。
- 僅使用乾布進行清潔。
- 請勿堵塞任何通風孔。請按照製造廠商的指示進行安裝。
- 請勿安裝在任何熱源附近，例如散熱器、熱調節器、火爐或其他可產生熱量的設備（包括功率放大器）。
- 請勿使極性或接地型插頭喪失安全作用。極性插頭具有寬窄兩個插腳。接地型插頭有兩個插腳和第三個用於接地的插腳。較寬的插腳或第三個接地插腳具有安全保護作用。如果所提供的插頭不適合您的電源插座，請與電工聯絡以更換舊電源插座。
- 防止踩踏或擠壓電源線，尤其是插頭、電源插座以及它們在設備上的出口位置。
- 僅使用製造廠商指定的附件/配件。
- 在雷雨天氣或長時間不使用時，請拔下本設備的電源線。
- 如需各類維修服務，請諮詢合格的維修人員。如果本設備以任何方式遭受損毀，均需進行維修。其中包括電源線或插頭損毀、液體滲入或物件落入設備內、本設備遭受雨淋或受潮、無法正常操作或掉落。



請注意，BE2210 和 BE2230 Bellman Audio Domino 個人聽力系統不是助聽器。Bellman & Symfon 公司建議，如果使用者已經聽力損失請直接諮詢醫生。



警告! BE2210 和 BE2230 Bellman Audio Domino 個人聽力系統配備一個很強大的擴音器，如果操作不當，過度的音量可能會引起不適，更嚴重者可能會損害聽力。因此，為了您的健康著想，在佩戴耳機前請務必將音量調到最低。



警告! Bellman Audio Domino 個人聽力系統由可充電的鋰電子提供電量。因此，不要把電池暴露在火苗中或者直接對著陽光。電池只能由 Bellman & Symfon 的員工來更換並且只能更換同一款電池。更換電池時的錯誤操作會有爆炸的危險。在第一次使用之前，電池必須被充滿電。警告：電池只能在+5到+40攝氏度溫度範圍內進行充電。



警告! Bellman Audio Domino 個人聽力系統只能由 Bellman & Symfon 推薦的充電配件進行充電。



警告! AC/DC適配器不能接觸到水或裝有液體的物品，如花瓶，不應放在該聽力系統上。要切斷電源必須將AC/DC適配器插頭拔離電源插座。AC/DC適配器插頭不能受阻，必須易於達到其預期用途。標識信息見AC/DC適配器背面。



警告! 該產品可能包含微小部件，為了您孩子的安全起見，請將其放置在兒童接觸不到的地方。



這標誌表明，內置的電源設備絕不能把它當成是平常的生活垃圾。它應該被投放到相應的電子設備或電器回收點。您可以從當地的政府、最近的回收站或者您購買該產品的商店瞭解到更多的關於回收該產品的資訊。

盒內有什麼物品？

盒內包括使用 Bellman Audio Domino 所需要的所有物品。盒子內裏配有配件儲藏處放置配件。盒內包含：

- A BE2210 接收器
- B BE2230 發射器
- C BE9141 旅行包
- D 說明書
- E 便攜手冊
- F BE9142 國際充電器，配有四個主要插頭
- G BE9139 USB充電連接線，兩條
- H BE9136 帶夾子的麥克風
- I BE9137 立體聲轉換線，1.5米的適配器，一邊是3.5毫米的插孔，另一邊是RCA插頭
- J BE9135 帶安全扣的掛繩，兩條
- K BE9124 耳塞式耳機

資料參考

接收器

- 1 接收器的內置麥克風

綠光：全方位麥克風
橘光：定向麥克風
- 2 表示內置麥克風設定的LED指示燈

綠光：全方位麥克風
橘光：定向麥克風
- 3 電池狀態LED指示燈

綠光：開啟，電池充滿電
閃爍綠光：開啟，電池電量低
閃爍橘光：開啟，電池耗盡，即將自動關閉
橘光：正在充電
- 4 表示通過發射器接聽的LED指示燈

綠光：全方位麥克風
橘光：定向麥克風
綠光和橘光：輸入（外部聲源）



- 5 選擇內置麥克風按鈕
- 6 開關按鈕
- 7 選擇通過發射器接聽的按鈕
- 8 音量和音調LED指示燈
- 9 增加音量的按鈕
- 10 減少音量的按鈕
- 11 調低音的按鈕
- 12 調高音的按鈕
- 13 3.5毫米耳機插孔
- 14 充電插孔
- 15 夾子

發射器

- 16 發射器的內置麥克風
- 17 電池狀態LED指示燈
 - 綠光: 開啟, 電池充滿電
 - 多次閃爍橘光和綠光: 一個外部聲源被接入
 - 閃爍綠光: 開啟, 電池電量低
 - 閃爍橘光: 開啟, 電池耗盡即將自動關閉
 - 橘光: 正在充電
- 18 開關按鈕
- 19 配對發射器和接收器的按鈕
- 20 2.5毫米外部聲源輸入插孔
- 21 充電插孔
- 22 夾子

開始

測試

- 1 發射器和接收器都配有內置式可充電電池。在第一次使用本品前, 發射器和接收器的電池都必須充滿電。請使用配套的充電器。
- 2 在耳機插孔(13)連上耳機, 通過開關按鈕(6)開啟接收器。試聽接收器上的麥克風並使用音量按鈕+或- (9或10)調整音量。
- 3 通過開關按鈕(18)開啟發射器, 按下外部聲源按鈕(7)轉到通過發射器的麥克風接聽。外部聲源, 譬如音樂, 可以通過外部聲源輸入插孔(20)連接到發射器。

音量控制可調整音量。+和- (9和10)可以提高和降低音量, 而音量和音調LED指示燈(8)會顯示聲級。越多的LED指示燈發亮表示音量越高。音量設定後5秒, LED指示燈會熄滅。

音調的控制可以調節聲音的品質。>(12)和<(11)可以提高降低音調。音量和音調LED指示燈(8)可以顯示音調的設置。音調設置後5秒, LED指示燈會熄滅。

使用完畢，請通過開關按鈕⏻（6, 18）關閉接收器和發射器，長按至電池狀態LED指示燈（3, 17）熄滅。

配件

我公司可供應以下配件：

- BE9122 立體聲耳機
- BE9124 耳塞式耳機
- BE9125 立體聲聽筒
- BE9126 立體聲轉換線，5米（16英尺）
- BE9127 外接麥克風，5米（16英尺）
- BE9159/BE9161 環頸線圈
- BE2210 接收器


關於我公司的所有配件和更多最新配件的信息
請瀏覽網址：<http://www.bellman.com>


如何使用 Bellman Audio Domino

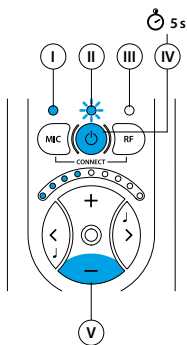
Bellman Audio Domino BE2210 和 BE2230 個人聽力系統經過專門改造，給您高品質的聽覺感受。用 Bellman Audio Domino 聽演講和音樂，效果格外明顯。您可以使用接收器和發射器的內置麥克風或者接入外部聲源。您可以使用配套的麥克風作為一個外部聲源或者用配套的立體聲轉換線連接立體聲聲源。

標誌和提示符號

说明书使用以下标志，图释如下：

 三角警告號表示為了保證產品正確運作和特殊情況下的人身安全所必須遵守的指示。

 燈泡指示一些能幫助您充分利用產品的有用資訊（提示和建議）。




- I 塗滿顏色的指示器表示LED指示燈長亮
- II 塗滿顏色並有太陽圖案的指示器表示LED指示燈閃爍
- III 空白的圓圈表示指示燈關閉
- IV 如果按鈕必須按住一個指定的時間，則用藍色的按鈕和指明所需時間的碼錶來表示
- V 藍色的按鈕表示需要按下的按鈕

充電

發射器和接收器都配有內置式可充電電池。在第一次使用本品前，發射器和接收器的電池都必須充飽電。

Bellman Audio Domino 包含鋰電池和通用充電器，適合歐洲、英國、美國和澳大利亞使用的可替換插頭使產品適用於全球的大部分國家。

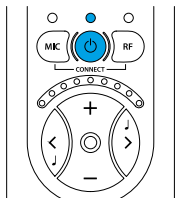
 警告：只能用配套的充電器或者是 Bellman & Symfon 的配件進行充電。

按照本說明書的折疊式插頁圖連接充電器。

選擇適合本地區的充電插頭，連到壁上插座前請先檢查充電插頭是否與充電器緊貼。當充電連線接到充電器時，發射器和接收器上的電池狀態LED指示燈(3,17)會從綠光變成橘光，表明充電正在進行。充電完成大概4小時以後，指示燈會再一次變成綠光；關機時，指示燈熄滅。充電器可同時為發射器和接收器充電，也可以為其中之一充電。

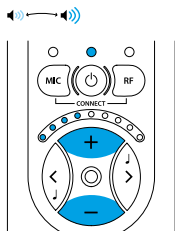
接收器的使用

把 BE9122 Bellman 立體聲耳機, BE9159/BE9161 Bellman 環頸線圈, BE9125 Bellman 立體聲聽筒, BE9124 Bellman 耳塞式耳機或者是其他 Bellman & Symfon 推薦的聽力產品連接到右面的耳機輸出(13)如本說明書折頁式插圖所示。



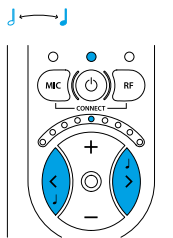
開啟接收器

按住開關按鈕 (6) 約3秒, 電池狀態LED指示燈 (3) 開始閃爍, 綠燈表明機器處於開啟狀態。



音量設置

使用音量控制鍵 + (9) 來升高或 - (10) 來降低音量。音量、音調的指示燈表明音量的大小。音量越大亮燈越多。為了節省用電, 指示燈會在音量設置完成5秒內關閉。

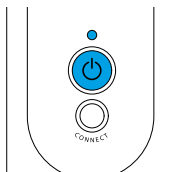


音調設置

使用音調控制鍵 < (11) 來降低或 > (12) 來升高音調。音量、音調的指示燈表明音量的大小。音量越大亮燈越多。為了節省用電, 指示燈會在音調設置完成5秒內關閉。



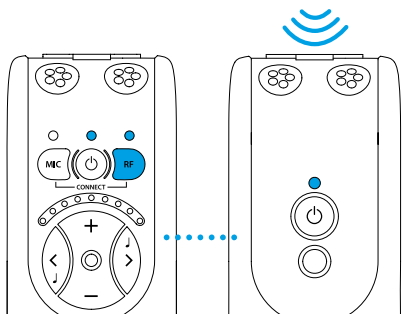
注意: 接收器本身也可以作為一個可攜式的擴音器使用, 但是如果您配合發射器一起使用, 您將會體現到前所未有的聽覺感受並享受接收器和發射器為您提供的極大的便利。



發射器的使用

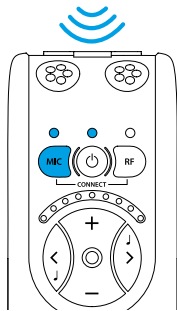
開啟發射器

按住開關按鈕 (18), 電池狀態指示燈開始閃爍, 綠燈表示機器處於開啟狀態。



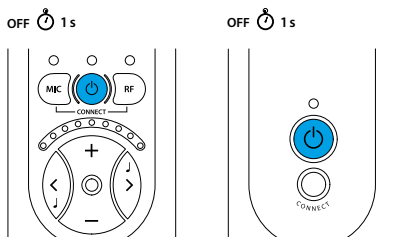
透過發射器接聽

要接聽來自發射器麥克風的聲音，可按下接收器上的**RF**按鈕(7)，輕鬆切換。外部聲源LED指示燈(4)長亮，此時，耳機可接聽發射器偵察到的聲音。



再次透過接收器內置麥克風接聽

短暫按下**MIC**按鈕(5)可再次選擇接收器的內置麥克風作為聲源。內置麥克風LED指示燈(2)發亮，此時，耳機再一次接聽到來自內置麥克風(1)的聲音。



關機

使用完畢，可通過開關按鈕(6, 18)關閉發射器和接收器。長按開關按鈕直到電池狀態指示燈(3, 17)熄滅。

麥克風的選擇

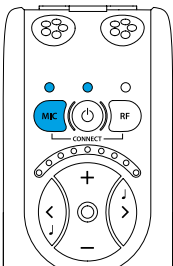
Bellman Audio Domino 的麥克風提供全方位接聽和定向接聽兩種選擇，您可以輕鬆轉換。

發射器上和接收器上的麥克風都具備這一功能。

如果您在內置麥克風和發射器上的麥克風之間進行了轉換，接收器會記憶您對麥克風設置。

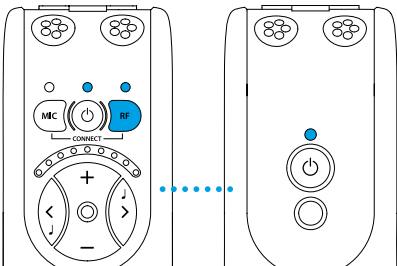


選擇定向接聽功能，您可以把麥克風指向您感興趣的聲源從而減少來自其他方位的雜音。在某些特殊的場合，這個功能特別有用，例如：在一些很吵雜的環境或者在人群裏。



選擇接收器上的麥克風

按下**MIC**按鈕 (5) 在全方位接聽和定向接聽之間進行轉換。內置麥克風LED指示燈 (2) 亮綠光表示是全方位接聽，橘光則表示接收器處於定向接聽狀態。



選擇發射器上的麥克風

按下**RF**按鈕 (7) 選擇通過發射器來接聽時，您可以再按一次**RF**按鈕 (7) 在全方位接聽和定向性接聽之間進行切換。外部聲源LED指示燈 (4) 亮綠光表示全方位接聽，橘光則表示發射器處於定向接聽狀態。

外部聲源

如果配備的音訊轉換線 (在一端附有2.5毫米的插孔) 或者外部的麥克風被連接到發射器的外部聲源輸入插孔 (20)，發射器的內置麥克風會自動斷開連接，而外部設備的聲源將自動被選擇。電源狀態LED指示燈顯示橘光，並閃爍幾次，以確認外部的聲源已連接。外部聲源LED指示燈 (4) 將會同時亮起綠光和橘光來指示聲音屬於外部聲源。

如果外部聲源斷開連接，聲音將重新連接到發射器的內置麥克風。

用音頻轉換線連接發射器和電視、音響設備、MP3播放器或者類似的聲源，您將體會到絕對一流的立體聲感受，並且不受電線約束。

輸入靈敏度會根據聲源類別自動進行調整。


外部麥克風

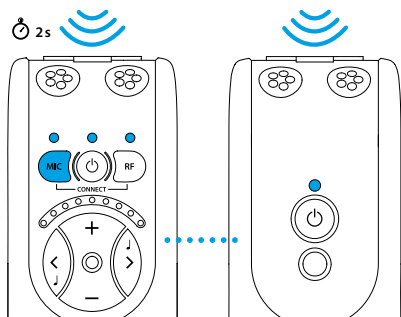
把外部的麥克風連接到發射器上2.5毫米的插孔 (20)，電池狀態LED指示燈顯示橘光，並閃爍幾次，已確認一項外部聲源被連接。外部聲源LED指示燈 (4) 同時亮起綠光和橘光表示聲音來自外部聲源。

在某些情況下，例如，演講者可以很輕易地攜帶一個外部麥克風並把一個發射器放在他\她的衣袋裏來擴大音量，而不用大聲說話或者使用有線麥克風。

一個發射器能夠把演講同時發射到幾個接收器。

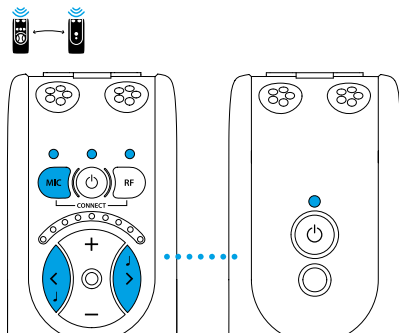
一旦外部麥克風接入，輸入端靈敏度將自動調節到最適合的範圍。

 請注意：當外部聲源插入時，發射器的電池狀態LED指示燈 (17) 交替閃爍綠光和橘光。



聯合信號資源

當接聽到來自發射器的麥克風或者是外部聲源的聲音時，這些聲音可以和接收器內置的麥克風接收到的聲音聯合在一起。按下 **RF** 按鈕 (7) 選擇接聽來自發射器的聲音；按住 **MIC** 按鈕 (5) 知道 **MIC** 指示燈 (2) 和 **RF** 指示燈 (4) 齊亮。




來自發射器的聲音和來自內置麥克風的聲音混合在一起。按住 **MIC** 按鈕 (5) 的同時，再通過按下按鈕 **<** (11) 或 **>** (12)，就可以調節發射器和接收器之間的平衡。

短按 **RF** (7) 按鈕，就可以輕鬆切換至接聽來自發射器或者外部聲源的聲音。如果您想切換至接聽來自內置麥克風的聲音，請按下 **MIC** 按鈕 (5)。

無線數位傳輸

Bellman Audio Domino 使用了最新的無線通信技術通過數位傳輸聲音，聲音具有超凡的音質就像來自於音響一樣。而且無線傳輸是加密的，這樣可以保證高水準的安全性和保密性。

 注意，無線通信發生在 2.4GHz 的頻率範圍，這是在全球範圍內都允許使用的一個頻率。

電量指示

電池狀態LED指示燈(3,17)在一般狀態下顯示綠光。這表明機器處於開啟狀態並且電量在一個令人滿意的水準。

當電量低的時候，電池狀態LED指示燈(3,17)閃爍綠光直到電量差不多耗盡時會變成橘光。在機器閃爍綠光時，請充電。電量耗盡將自動關機。

當充電器連接到充電器插孔(14,21)的時候，機器將會自動充電。充電的進度會同時在充電器和機器上用橘燈顯示出來。一旦電池充滿電，指示燈會顯示綠光，並且電池會一直保持充電狀態直到充電器斷開連接。

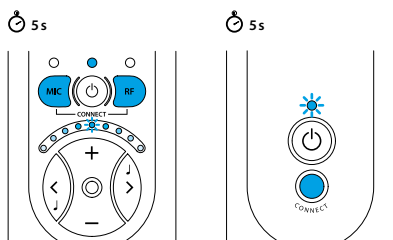
與另一個發射器建立臨時連接

為了保證無線通信的正常運行，Bellman Audio Domino 發射器和接收器之間必須建立無線連接。為了方便入門，發射器和接收器總是成對提供使用的。

無論何時，只要您想接聽來自另一個發射器的聲音，都要與之建立臨時的連接。

建立接收器和發射器的臨時連接步驟如下：

- 按下開關按鈕(6,18)
- 按住發射器上的CONNECT按鈕(19)
- 同時按住接收器上的MIC按鈕(5)和RF按鈕(7)



音量和音調LED指示燈(8)兩邊向中間部分滑動閃爍表明臨時的連接已經成功建立。

只有在發射器CONNECT按鈕被按下時，它才能和接收器連接。此步驟出於安全性考慮，以防止發射器在毫無防備之下被其他接收器連接。



請注意：通過同樣的操作，您能夠很容易地用同一個發射器連接到多個接收器。然而，接收器的數量可能會影響該系統的正常運行。

簡單故障處理

常見問題

解決

按下開關時沒反應

連接充電器，檢查充電是否在10秒內開始。



請注意：如果充電沒有在10秒內開始，請馬上斷開充電器連接並聯繫最近的銷售商。

接收器處於開啟狀態，但聽不到任何聲音

按下音量按鈕(9)，擴大音量。
檢查內置麥克風是否被選中作為聲源，用手指輕輕觸碰麥克風(1) 檢查是否運作。
檢查耳機是否正確插入了耳機插孔。
把耳機連接到其他的聲源設備（附有3.5毫米的耳機插孔，檢查耳機是否能夠正常運作。

接收器處於開啟狀態，並且外部聲源已被選擇，依然聽不到任何聲音

檢查發射器是否開啟。
檢查外置麥克風是否被選中作為聲源，用手指輕輕觸碰麥克風(16) 檢查是否運作。

常見問題

解決

檢查發射器是否處於使用範圍之內。
檢查無線連接是否正確。
檢查發射器是否能在全方位接聽和指向接聽中進行轉換。
如果音響轉換線被連接到外部聲源輸入口(20) 請檢查聲源是否正確連接到發射器

耳機裏的高音噪音

調低音量或者增大麥克風和耳機之間的距離。
使麥克風遠離自己。

聲音很分散並且斷斷續續

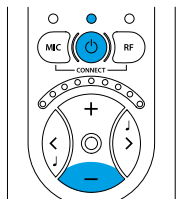
接收器與發射器之間的距離太遠了。把兩個機器靠近些。
不止一個接收器連接到發射器上並且至少有一個接收器離發射器太遠。
太多接收器連接到同一個發射器上。
有太多 2.4GH 的發射器或者有太多 Domino 在附近，彼此間互相影響。
請注意：牆壁、水泥板、金屬等都會影響到接收範圍。



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 \odot (6) for about 3 seconds.

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

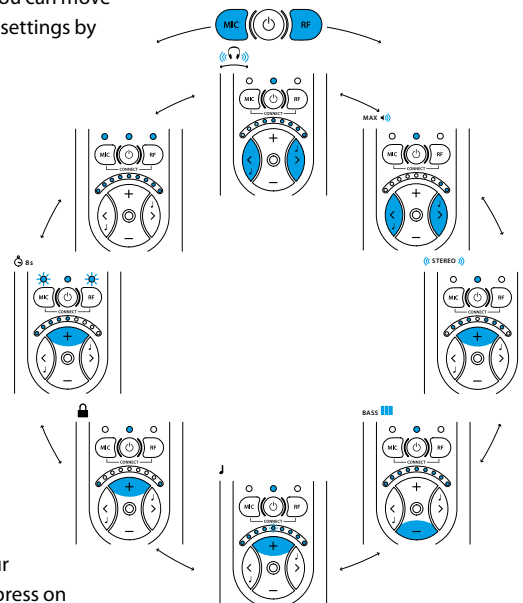
You are now in Balance Control mode.

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).

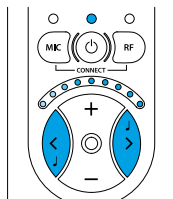
Each press on the **RF** button moves you clockwise on to the next setting in the list and the **MIC** button takes you anti-clockwise to the previous setting in the list.



When you have finished adjusting your settings, give a short press on the On/Off button \odot (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.



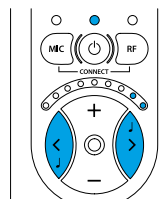
Press the **<** button (11) to adjust the balance on the left and the **>** button (12) to adjust the balance on the right.

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 settings 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.

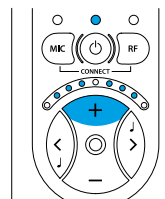
MAX **<>>**



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 »

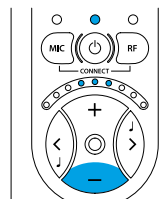


Stereo/Mono

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.

MONO **>>**



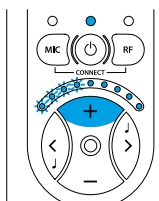
Press the **-** button to select Mono.

The standard setting is Stereo.

Bass reduction

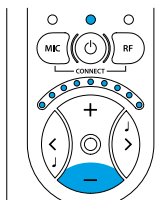
Low-frequency interference such as fans and road noise can be tiring if you are exposed to it for a long period. By activating bass reduction, low-frequency interference and sounds are reduced.

BASS 



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

BASS 

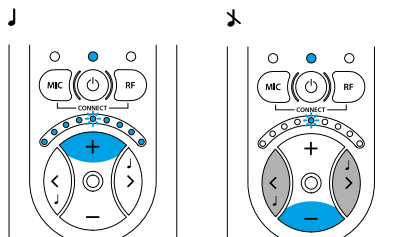


Press the **-** button (10) to deactivate Bass Reduction and get level frequency response.

The standard setting is deactivated Bass Reduction.

Adjusting the Tone Control

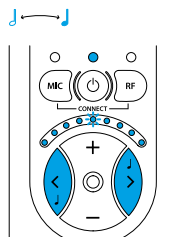
The Tone Control Blocking function has been developed in case you want to make it easier for the user to use Bellman Audio Domino. This setting can be used to choose whether the user should be able to adjust the tone control or not. If you choose to switch off the tone control buttons, you can preset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



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.



Presetting the Tone Control

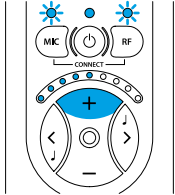
Press the **<** button (11) and the **>** button (12) to preset the tone control to the level that will be used in user mode.

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



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



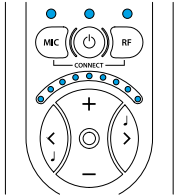
Resetting to the factory setting

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

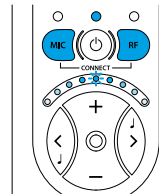
The product version information is presented here via a pattern of lit and blinking LEDs. This internal information is only intended as an aid for servicing and support.



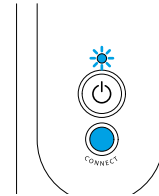
Pairing of units

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.



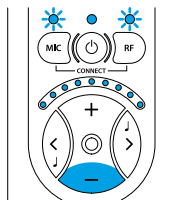
Please note! If you pair up a Transmitter Unit and a Receiver Unit in the Settings Menu, this replaces the pairing carried out in the factory. This can be useful when changing a Transmitter Unit under guarantee or if you want to pair up several Receiver Units to a Transmitter Unit (e.g. in a conference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

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 insignal, 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

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:	More than one Receiver is connected to a Transmitter and at least one of the Receivers is too far away from the Transmitter. Too many Receivers are connected to the same Transmitter. Too many transmitters on 2.4 GHz or too many Domino systems close to one another.

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

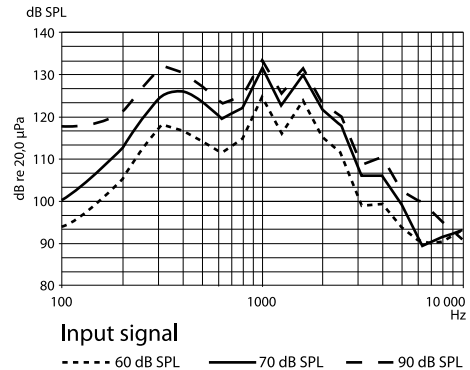
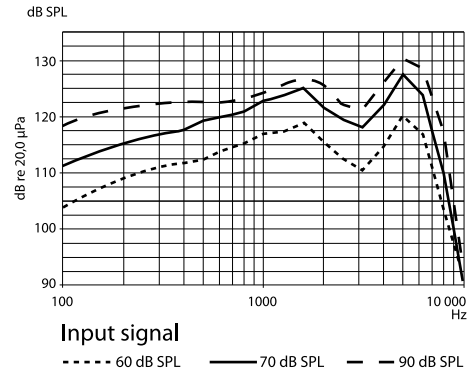
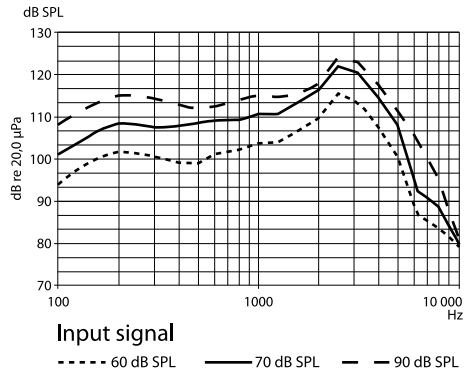
CE, RoHS, WEEE, FCC VOC,
FCC ID, RCM



Measurements

Frequency response

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



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



STETOCCLIPS



NECK LOOP



MICROPHONE

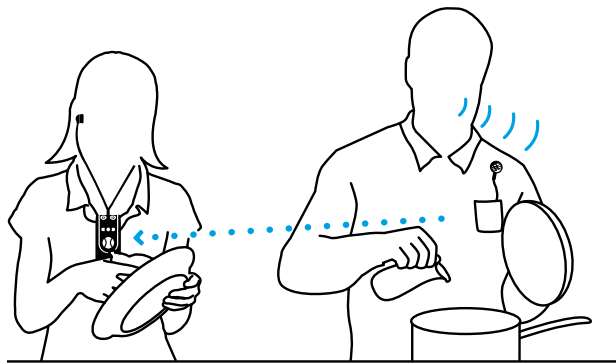


CABLE KIT, 16 FEET

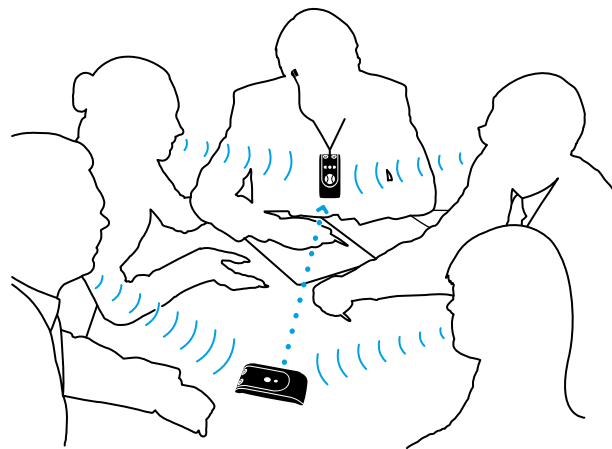


These original accessories are especially developed to maximize the performance of your Domino. Contact your nearest dealer or visit: www.bellman.com

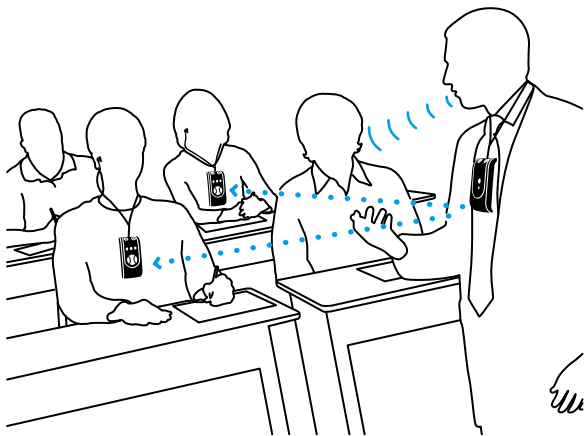
Einsatzgebiete • Anvendelsesområder • Areas of application •
Áreas de aplicación • Käyttökohteet • Champ d'application •
Ambiti di applicazione • 用途事例 • Toepassingen • Obszary
zastosowań • Användningsområden • 使用场合 • 使用場合 •



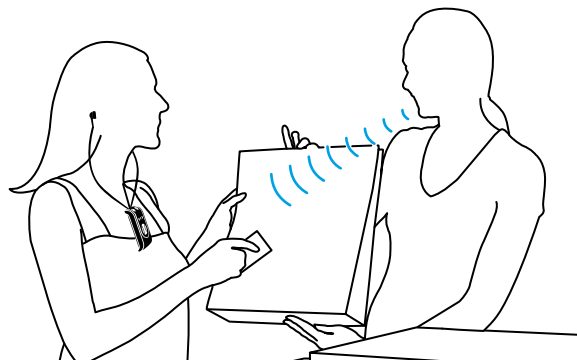
Zuhause • Indendørs • Indoors • Interiores • Sisätiloissa • À l'intérieur • Interni •
室内 • Binnen • W budynkach • Inomhus • 在室内 • 在室内



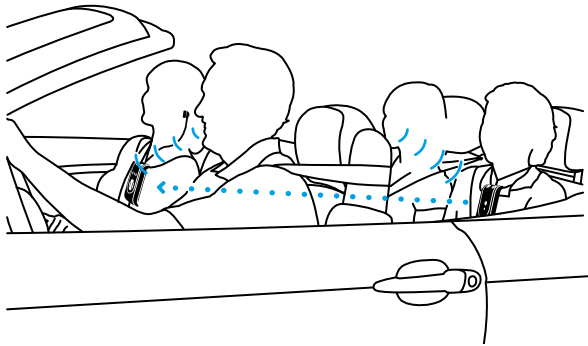
Auf der Arbeit • På arbejdspladsen • At work • En el trabajo • Työpaikalla •
Au travail • Al lavoro • 会議 • Op het werk • W pracy • På jobbet • 在工作 • 在工作



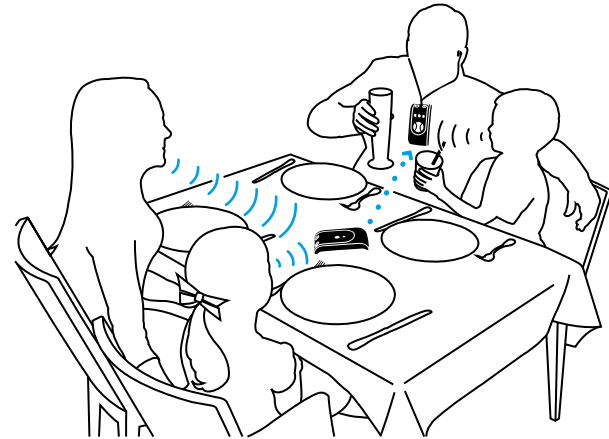
In der Schule • I skolen • At school • En clase • Koulussa • À l'école • A scuola •
学校 • Op school • W szkole • I skolan • 在学校 • 在學校



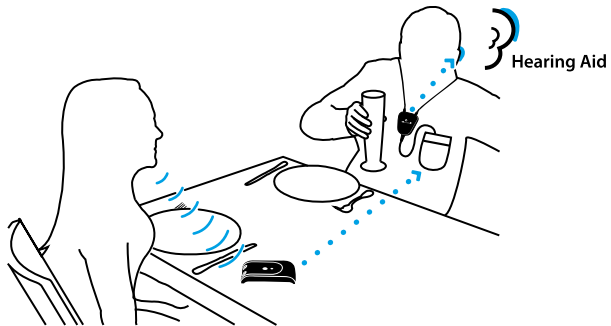
In der Stadt • I byen • In town • De paseo • Kaupungilla • En ville • In città •
街中 • In de stad • W mieście • På stan • 在城里 • 在城裏



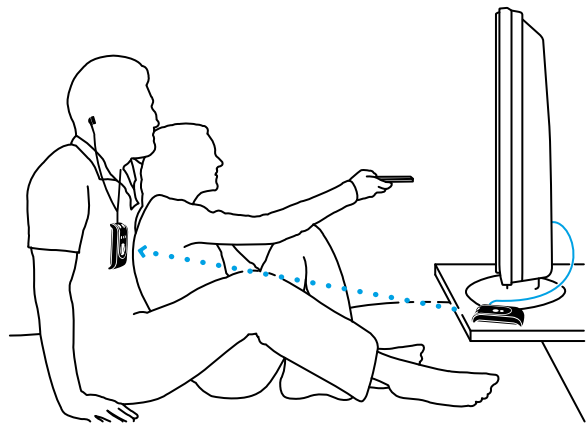
Auf Reisen • Under rejser • When travelling • De viaje • Matkoilla • En voyage •
Quando si viaggia • 旅行 • Op reis • W podróży • På resan • 在旅游 • 在旅遊



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 audit • 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 télévision • 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 conditons

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