

# EasyHear Grand / Grand Lite



## User Manual

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## Introduction

### Welcome

Thank you for purchasing EasyHear (EH) Grand or Grand Lite (Model No.: EH V11.04b). We are sure that you can enjoy the convenience and reliability of using this hearing device. This manual will offer you guidance on the operation and information about safety and troubleshooting, etc.

### Intended Use

EH Grand is a wearable medical device intended for compensating person for hearing loss. It doesn't sustain or support life.

EH Grand is an air-conduction hearing aid using Beamforming technology, which focuses on the sound sources on the frontal +/- 30 degrees ahead of the user and eliminates the noise outside of the frontal field. The product is embedded with Bluetooth and FM radio modules, which enables Bluetooth communication and radio function. It also provides Hearing Testing and Tinnitus functions.

### Environmental Information

This product has been designed to comply with international directives on the Restriction of Hazardous Substances (RoHS), FCC and CE certification.

### Notes on Copyright

This product incorporates copyright protection technology and intellectual property rights (patent pending) owned by Logital Co. Limited. Brand name(s) mentioned in this manual is/are trademark(s) of Logital Co. Limited.

## Safety Information

### Precautions

- In order to save power, remember to power off EasyHear Grand (EH Grand) when it is not in use.
- Children using EH Grand must be under the guidance of adults.
- Keep EH Grand dry and away from direct sunlight.
- Do not expose EH Grand to excess liquid, moisture or humidity.
- Do not expose the battery to temperatures above + 40°C or below -10°C.
- Do not expose EH Grand to open flames.
- Do not disassemble EH Grand.
- Do not drop EH Grand or subject it to strong shock.
- No user serviceable parts inside.
- Before disposal of EH Grand, please remove the Li-ion rechargeable battery and return for recycle.

### Precautions for Earphone Cable

- Do not use earphones other than described in this manual.
- Keep the earphones and accessories out of reach of children. Improper used by children may pose a threat of death or serious injury. The earphones contain small parts and a cord that may pose a risk of choking or strangulation.
- If an earbud is lodged in your ear, seek proper medical assistance to remove the earbud out, otherwise the ear may be damaged.
- Before inserting the earphones, make sure that the earbuds are attached firmly to the earphones.
- If the earphones cause discomfort or irritation, stop using them. Consult a physician or audiologist if needed.
- Do not expose the earphones to high temperatures or to strong magnetic fields. Do not immerse them in water. Avoid sharp blows to the earphones.

**Precautions for Li-ion Rechargeable Battery**

- Use only with N7100 Li-ion Rechargeable Battery.
- Risk of explosion if battery is replaced by an incorrect type.
- Do not expose the battery to high temperatures, e.g. direct sunlight or fire etc.
- Please recycle the old battery.

**Precautions for AC/DC Power Adapter**

- Only use power adapter with output DC 5V, 800mA for battery charging
- Should you notice an abnormality in the AC power adapter, disconnect it from the AC outlet immediately.

**Notes for Children (3 years or under)**

Keep out of children’s reach other than child users of EH Grand. Do not allow children to play with your EH Grand or its accessories. They could hurt themselves or others. The children could accidentally damage the product or accessories. EH Grand or its accessories may contain small parts that could become detached and create a choking hazard.

**Loudness Warning**

Improper use or listening at uncomfortably high volume levels, particularly over extended periods of time, may damage your hearing.

First time use, please turn the volume to a lower level before listening to EH Grand. After you are accustomed to EH Grand’s volume, gradually increase it if necessary.

**Main Unit & Accessories**

◆ **Main Unit:**

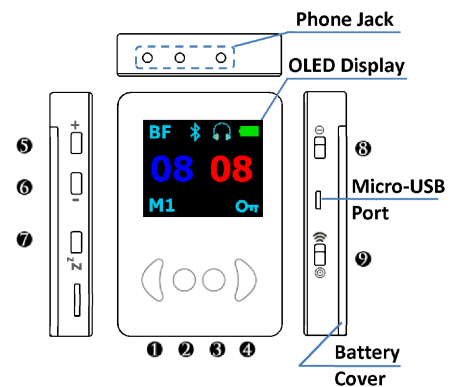
EasyHear Grand or Grand Lite x 1

◆ **Accessories:**

- (1) N7100 3.8V 3100mAh Li-ion Rechargeable Battery x 1
- (2) EasyHear Stereo Earphone Cable x 1 with Small size Earbuds fitted
- (3) Large and Meduyn size Earbuds x 1 pair each
- (4) Micro-USB Charging Cable x 1
- (5) EasyHear Grand Grand Lite User Manual x 1

**Functional Overview**

**Front and Side Panels**

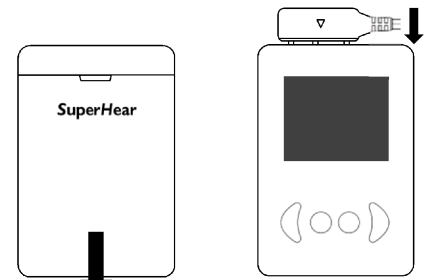


**Figure 1: Front and Side Panels of EH Grand and Grand Lite**

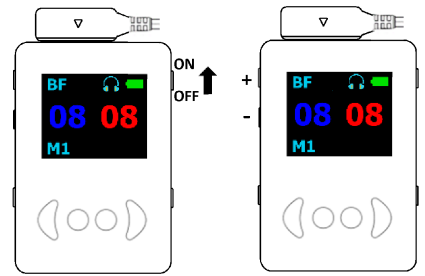
| Switch / Button        | Descriptions  |
|------------------------|---|
| ① "LEFT" Button        | Change EQ Mode or Left Selection                            |
| ② "EXIT" Button        | Exit Page   |
| ③ "ENTER" Button       | Confirm Selection or Press 3 seconds for BT/Radio Selection |
| ④ "RIGHT" Button       | Change EQ Mode or Right Selection                           |
| ⑤ "VOLUME UP" Button   | Increase Volume or Increase Level                           |
| ⑥ "VOLUME DOWN" Button | Decrease Volume or Decrease Level                           |
| ⑦ "KEYLOCK" Button     | Press 1 or 2 seconds to Lock or Unlock the Keypad           |
| ⑧ Power On/Off Switch  | Power On/Off the Unit.                                      |
| ⑨ BF/NC Mode Switch    | BF/NC Operation Mode Selection                              |

Table 2: Table of Button Functions

Operation Procedure



- (1) Open battery cover. Insert N7100 Li-ion rechargeable battery.
- (2) Insert stereo earphone cable.



- (3) Turn on EH Grand.
- (4) Adjust the output volume.

Wearing Earphone Cable

The earphones can deliver the best performance if correctly inserted in the ears with absolute sealing achieved. To achieve the best performance, proceed as follows:

- (1) Identify the left and right earphones.
- (2) Hold the earphones with the cable pointing down, and the earbuds towards your head.
- (3) Insert the earbuds into your ear canals with a gentle push. Do not force the earphones into the ears. If you feel that the earbuds are too loose (insufficient sealing) or too tight (discomfort), try using another appropriate size.
- (4) The earbuds should seal the ear canal and fit without any discomfort.

To remove the earphones from the ears, hold them by the bud and pull them out gently with a small rotation in order to break the sealing.

Do not pull on the cable to remove the earphones from your ears!

a. Earbuds

The earphones come with earbuds which are washable. To change the earbuds, grab each earbud in the middle and pull it slowly until it comes loose. Do not use your fingernails or any other sharp object to remove the earbuds, as otherwise they could be damaged.

b. Earmold (Optional)

To enhance your hearing effect with the earphones and EH Grand, we recommend that you opt for a pair of custom-made earmolds, to be attached to the earphones and replace the standard earbuds. For the severely to profoundly hearing-impaired users i.e., those with hearing loss of 70dB or worse, this recommendation is particularly necessary and important. For further information on how to acquire custom-made earmolds, please contact hearing consultant of EH Grand.

### Special Advice to User

- (1) It is better for the Beamforming & Noise Cancellation Microphones to point straight forward.
- (2) You are recommended to use BF mode for directionality, and use NC mode to listen to music. Try switch among BF / NC modes for optimal listening in different environments.
- (3) When charging by the power adapter, the product cannot be operated as specified in user manual.

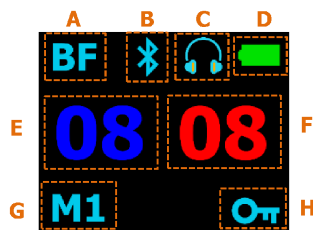
### Display & Key Functions

#### 1. Table of Functions

|                     | Grand                               | Grand Lite               |
|---------------------|-------------------------------------|--------------------------|
| <b>Equalizer</b>    | ✓                                   | ✓                        |
| Frequency Band [Hz] | 300, 500, 750, 1k, 1.5k, 2k, 3k, 4k | 300, 750, 1k, 2k, 3k, 4k |
| Gain Level [dB]     | -12 to +12                          | -6 to +6                 |
| <b>Dual Volume</b>  | 1 to 20                             | 1 to 12                  |
| <b>AGC</b>          | ✓                                   | ✓                        |
| <b>Bluetooth</b>    | ✓                                   | ✓                        |
| <b>Radio</b>        | ✓                                   | ✓                        |
| <b>Tinnitus</b>     | ✓                                   | ✗                        |
| <b>Hearing Test</b> | ✓                                   | ✓                        |

Table 1 : Functions of Grand and Grand Lite

#### 2. Main Menu



|          | Descriptions  |
|----------|---|
| <b>A</b> | Current Operation Mode (Beamforming or Noise Cancellation Mode)   |
| <b>B</b> | Bluetooth Icon (Indicates Bluetooth is On) or Bluetooth Device Icon (Indicates Bluetooth Device is Connected) |
| <b>C</b> | Earphone Icon (Indicates Earphone is Plugged in)  |
| <b>D</b> | Battery or Battery Charging Icon (Level 0 to 4)   |
| <b>E</b> | Left Volume   |
| <b>F</b> | Right Volume  |
| <b>G</b> | Current Equalizer Mode Mode 1 (M1) to 4 (M4) or Lock Mode (LM)  |
| <b>H</b> | Keylock Icon (Indicates the Keypad is Locked)   |

Figure 2: Main Menu

#### 2.1 Operation Mode

Use slide button **5** for operation mode selection, up for Beamforming mode (BF) and down for Noise Cancellation mode (NC). The current operation mode will be displayed at the upper left corner.

#### 2.2 Cable Detection

When the stereo earphone is plugged into EH Grand, the cable icon will be displayed in the upper side of OLED display within 3 seconds and user can enjoy the sound from EH Grand.

#### 2.3 Dual Volume Control

In main menu, use **5** or **6** button to increase or decrease the volume output for both left and right ears simultaneously.

#### 2.4 Battery Indication

Battery Indication (5 levels in total):

| Full | Level 3 | Level 2 | Level 1 | Empty          |
|------|---------|---------|---------|----------------|
|      |         |         |         |                |
| Full | ~75%    | ~50%    | ~25%    | Needs Recharge |

When battery level is low, the empty battery icon will flash continuously. And, EH Grand will output “Do Do” sound to alert user to charge the unit. In addition, the display brightness level will become the darkest in order to save battery power automatically.

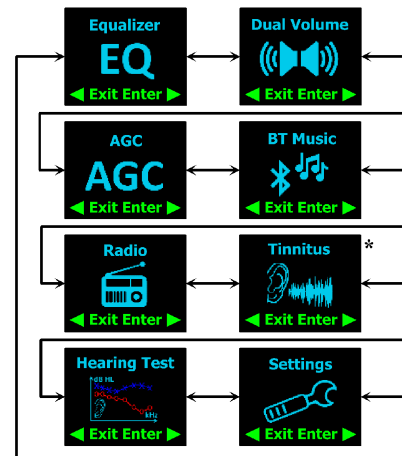
**Notes:**

- In order not to affect Hearing Test, low battery alert sound will be disabled in Hearing Test. However, the battery icon will still flash to alert user to charging.
- The low battery alert sound will also be disabled in Bluetooth Music, Bluetooth Phone Call and Radio Pages. And, the battery icon will still flash to alert user to charging.

**2.5 Main Menu Selection**

In main menu, press enter (3) button to enter the selection menu. In selection menu, use left (1) / right (4) button to select page, then use enter (3) button to confirm selection.

There are 8 selection items in total, which includes “Equalizer”, “Dual Volume”, “AGC”, “BT Music”, “Tinnitus”\*, “Hearing Test” and “Settings”.



Use left (1) or right (4) button to select main menu item. Use enter (3) button to enter selection page or use exit (2) button to exit and back to main menu.

**Figure 3: Main Menu Item Selection**

\* “Tinnitus” is not available in EH Grand Lite.

**3. Equalizer**

**3.1 Preset Mode**

In main menu, use left or right button (1 or 4) to select the equalizer (EQ) preset mode (M1 to M4). The selected EQ mode will be applied to the sound output immediately.



Use left (1) or right (4) button to select the Equalizer preset mode (M1 to M4). The selected EQ mode will be applied to the sound output immediately.

**Figure 4: Equalizer Preset Mode**

**3.2 EQ Setting**

Press enter (3) button to enter EQ Setting page. Use left (1) or right (4) button to select the EQ mode you want to set, then press enter (3) button to enter the setting page.

User can use left or right button (1 or 4) to select EQ channel. In each EQ band, user can press (5) or (6) button to increase or decrease the EQ gain level.

User can change left or right EQ channel by using enter (3) button. Use exit (2) button to return to main menu after EQ setting is finished.

In EH Grand, there are 8 equalizer bands in total, which are 300Hz, 500Hz, 750Hz, 1kHz, 1.5kHz, 2kHz, 3kHz and 4kHz. There are 9 EQ gain levels for adjustment in total, which are -12, -9, -6, -3, 0, +3, +6, +9 and +12dB respectively. In EH Grand Lite, there are only 6 equalizer bands in total, which are 300Hz, 750Hz, 1kHz, 2kHz, 3kHz and 4kHz. There are 5 EQ gain levels for adjustment in total, which are -6, -3, 0, +3 and +6dB respectively.

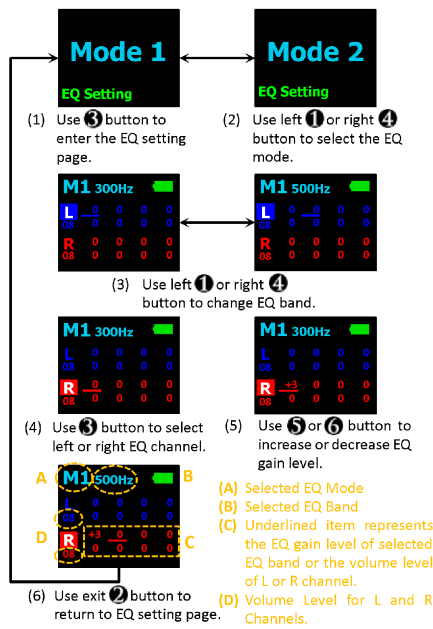


Figure 5: Equalizer Setting

4. Dual Volume

Use enter **3** button to confirm selection and enter Dual Volume page.

Use **5** or **6** button to increase or decrease the volume level of left or right channel. Use enter **3** button to change left or right channel.

The maximum volume level for EH Grand and Grand Lite is 20 and 12 respectively.

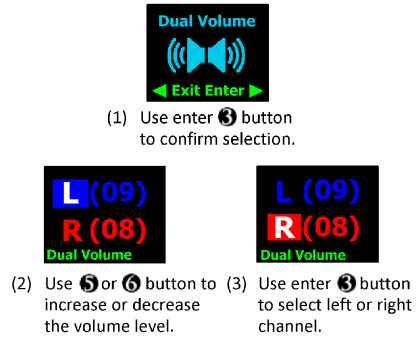


Figure 6: Dual Volume Control

5. Automatic Gain Control

Automatic Gain Control (AGC) is used to automatically adjust the output sound level of EH Grand. It can be enabled or disabled by user manually.

There are three different AGC levels for selection in total (01, 02 and 03); the corresponding recommended environments are listed in the following table:

| AGC Level | Recommended Environment                              |
|-----------|--|
| 01        | Quiet / Indoor Place (e.g. office)                   |
| 02        | Noisy / Outdoor Place (e.g. street)                  |
| 03        | Very Noisy Place (e.g. crowded street or restaurant) |

Table 3

If sound input exceeds the specified level, AGC will automatically decrease the EH Grand output sound level. It is especially good for suppressing nearby speech (e.g. user's own voice).

Use enter **3** button to enter Automatic Gain Control (AGC) page. In AGC page, use left **1** or right **4** button to change the AGC level from OFF, 01, 02 to 03. To exit to AGC menu, use exit **2** button.

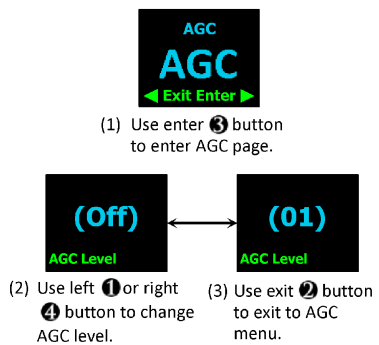


Figure 7: Automatic Gain Control (AGC)

## 6. Bluetooth (BT)

### 6.1 Bluetooth ON/OFF

In EH Grand Main Menu, press enter **3** button for more than 3 seconds, to enter the BT / Radio selection page. Use left **1** or right **4** button to choose BT, then press enter **3** button to switch on / off BT. If BT is switched on successfully, the BT icon will be displayed at the upper side of OLED display.



(1) Bluetooth / Radio selection page.



(2) Bluetooth is Off.



(3) Bluetooth is On.

**Figure 8: Bluetooth ON/OFF**

(Note: In order not to affect Hearing Test, BT will be powered off automatically in Hearing Test page. After exiting the Hearing Test, BT will be resumed.)

## 6.2 BT Device Pairing Up

### 6.2.1 First Connection

- (i) Turn on EH Grand Bluetooth.
- (ii) In your BT device, search and pair "EasyHear Grand" or "EasyHear Grand Lite".
- (iii) After successful connection, the BT icon will be replaced by the BT Phone icon.

(Note: In order to save power, EH Grand BT pairing function will last for 3 minutes only. If user fails to connect his/her BT device within 3 minutes, please switch off and on EH Grand BT once and repeat the above pairing process.)



(1) Bluetooth is switched on.



(2) BT device is connected successfully

**Figure 9: Bluetooth Device Pairing Up**

### 6.2.2 Auto Connection

After the first connection, auto connection with BT device that was paired last time will be made, for every switch-on of EH Grand BT.

### 6.3 Bluetooth Music

In EH Grand Main Menu, choose BT Music and press enter **3** button to confirm selection. When user enters BT Music page without switching on BT power, BT will be powered on automatically, and will search BT device for connection.

When the BT device is connected successfully, user can enjoy any media entertainment through EH Grand, including other multi-media programs.

In BT Music page, use enter **3** button to play or pause your BT music player. And, you can use left **1** or right **4** button to choose previous or next music track.

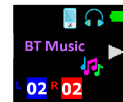
In BT Music player, left and right volume can be adjusted independently. You can press **5** or **6** button for 3 seconds to select left / right / dual volume control. Then, use **5** or **6** button to increase or decrease the corresponding music volume level (1 to 20).

Due to the different features of different BT devices, after the first BT connection, the BT music volume may not be resumed at the same volume level as last connection.

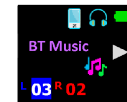
If keypad is locked in BT Music page, user can press **7** button for 2 seconds to unlock the keypad. Or, user can press **7** button for 4 seconds to unlock and exit the BT Music page directly.



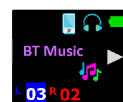
(1) Use enter **3** button to confirm BT Music selection.



(2) Press **5** or **6** button for 3 seconds to choose L / R / dual volume control.



(3) Use **5** or **6** button to increase or decrease the music volume.



(4) Use enter **3** button to play or pause music. And, use left **1** or right **4** button to choose previous or next track.

**Figure 10: Bluetooth Music**

### 6.4 Bluetooth Phone Call

#### 6.4.1 Phone Call Display

For incoming call, phone call number will be displayed if available. Use left **1** or right **4** button to reject or accept phone call.



- (1) Use left **1** or right **4** button to reject or accept phone call.
- (2) Use **5** or **6** button to increase or decrease Ringtone (RT) volume.

**Figure 11: Bluetooth Phone Call**

#### 6.4.2 Phone Call Control

When phone call is connected, use **5** or **6** button to increase or decrease the phone call volume. And, use left **1** button to end the phone call.



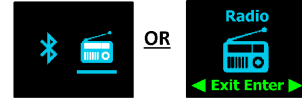
- (1) Press **5** or **6** for 3s to select L / R / dual volume control. Use **5** or **6** to increase or decrease the phone call volume.
- (2) Use left **1** button to end the phone call, or right **4** button to change voice to BT device or EH Grand.

**Figure 12: Bluetooth Phone Call Control**

### 7. Radio

#### 7.1 Radio On

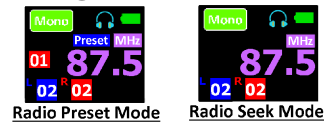
In EH Grand Main Menu, press enter **3** button for more than 3 seconds, to enter the BT / Radio selection page. Use left **1** or right **4** button to choose Radio, then press enter **3** button to switch on Radio. Or, choose "Radio" in Main Menu selection page, and press enter **3** button to confirm selection.



- (1) "Bluetooth / Radio Selection Page" or "Radio Page" in Main Menu.



- (2) Use left **1** or right **4** button to select "Preset Mode" or "Seek Mode", then press enter **3** button to confirm selection.



**Figure 13: Radio On**

### 7.2 Seek Mode

#### 7.2.1 Manual Seek

FM radio frequency ranges from 87.5 to 107.9MHz. User can use left **1** or right **4** button to tune down or up the radio frequency in a step of 0.1MHz. And, use **5** or **6** button to increase or decrease the radio volume level (1 to 20).



- (1) Use left **1** or right **4** button to tune up or down the radio frequency. And, use **5** or **6** button to increase or decrease the radio volume.

**Figure 14: Manual Seek**

#### 7.2.2 Auto Seek

In Radio page, press left **1** or right **4** button for more than 3 seconds, EH Grand will seek down or up to the valid radio channel automatically.



- (1) Press left **1** or right **4** button for more than 3 seconds to seek down or up to the valid radio channel automatically.

**Figure 15: Auto Seek**

User can store the radio channel into memory by pressing enter **3** button. And, use left **1** or right **4** button to choose the memory location (1 to 16), then press enter **3** button to confirm storage or press exit **2** button to cancel storage.



- (1) Press enter **3** button to store the radio channel.



- (2) Use left **1** or right **4** button to choose the memory location, and press enter **3** button to confirm.

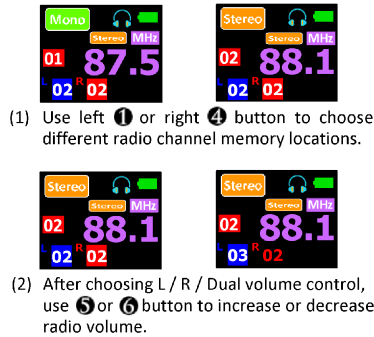


- (3) The stored location will be shown in left of the radio channel.

**Figure 16: Radio Channel Storage**

**7.3 Preset Mode**

In Radio Preset Mode, use left **1** or right **4** button to listen to different stored FM radio channel. User can press **5** or **6** button to choose left, right or dual volume control. Then, press **5** or **6** button to increase or decrease the radio volume (1 to 20). Then, press exit **2** button to exit radio preset mode.



**Figure 17: Radio Preset Mode**

Tinnitus function aims at reducing the effects caused from tinnitus, and making users' ears feel comfortable. It does not contain any therapy function. User should choose the appropriate tinnitus sound at suitable volume level, according to his/her own tinnitus level.

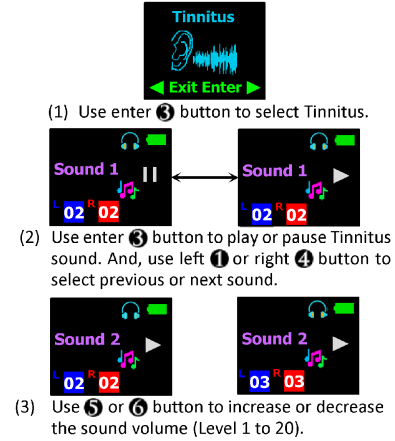
**(Note:** If battery level is low, user cannot enter Tinnitus page. If battery drops to low level after entering Tinnitus page, EH Grand will exit Tinnitus automatically. And, EH Grand will remind user to charge the battery.)

**8. Tinnitus\***

\* "Tinnitus" is not available in EH Grand Lite.

Select Tinnitus in EH Grand main menu, and use enter **3** button to confirm selection.

In Tinnitus page, use left or right button (**1** or **4**) to choose previous or next tinnitus sound, and use enter **3** button to play or pause the tinnitus sound. In addition, user can use **5** or **6** button to increase or decrease the sound volume (1 to 20).



**Figure 18: Tinnitus**

**9. Hearing Test**

**9.1 Hearing Test Start**

In EH Grand main menu, select Hearing Test and use enter **3** button to confirm selection. If battery level is low, user cannot enter Hearing Test. EH Grand will remind user to charge the battery.

In Hearing Test page, user has to insert the earphone cable, then press **3** button to start the Hearing Test. Hearing test will be started at left or right ear randomly. Sound with different frequencies and different sound levels will be outputted. If user can hear the sound, press **3** button to confirm. If user cannot hear any sound, please wait for the next sound patiently. Hearing test for the next ear will be followed once the first ear testing is finished. If user can hear the sound at right ear, press **3** button to confirm.

When hearing test for both left and right ears is completed, the test result will be displayed and stored in Result 1 automatically. And, the past test results

will be stored in Result 2 to 4 respectively, with the oldest record being removed.

(1) Use enter **3** button to confirm selection of Hearing Test.

(2) Press enter **3** button to start the hearing test. Left ear test will start first.

(3) Press **3** button if you can hear any beep sound. Test will then move to next frequency.

(4) Test for left ear will be followed by right ear test. Test result will be displayed once after the test is completed.

Figure 19: Hearing Test

In order not to affect Hearing Test, the low battery “Do Do” alert sound will be disabled and BT power will be switched off. All functions will be resumed after user exits the Hearing Test page.

**Notes:**

- (1) The reliability of this hearing test result depends on your test environment. The test result can only reflect your hearing status, and not appropriate for diagnostic purpose. Please seek professional advice if you have any questions regarding audiological aspect.
- (2) Please carry out the hearing test alone in a quiet environment, to avoid disturbance. The quieter the environment, the more accurate the hearing test result.
- (3) To guarantee the most accurate result, please ensure the earbuds are fully inserted into the ears when wearing the earphones.
- (4) User should be healthy and relaxed during the hearing test.
- (5) If unwell, e.g. cold or flu, please do not conduct hearing test.
- (6) Please turn off mobile phone before the test, to avoid disturbance.
- (7) Please perform the hearing test at least twice, to familiarize with the testing procedure. Use only the latest hearing test result.

**9.2 Hearing Test Result**

Hearing Test result will be displayed in three different formats: (1) list out the detailed hearing level figures of user, (2) left ear hearing profile plot and (3) right ear hearing profile plot. Use left **1** or right **4** button to change the hearing test result format.

(1) Detailed hearing figures of test result.

(2) Left ear hearing profile plot.

(3) Right ear hearing profile plot.

Figure 20: Hearing Test Result

User can press **2** button to exit Hearing Test page, and choose whether to apply the hearing test result to EH Grand or not. If user chooses to apply the result, the EH Grand volume level and EQ settings will be adjusted according to the hearing test result automatically.

User can choose the EQ store position as they want (Mode 1 to 4), and can apply the corresponding settings to EH Grand in Equalizer page.

(1) Press **2** to exit Hearing Test. Press **1** or **4** buttons to choose whether to apply the hearing test result or not. Press **3** to confirm the selection.

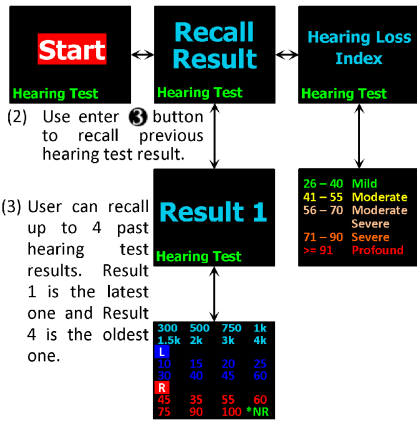
(2) If user chooses applying the hearing test result, press **1** or **4** button to choose the EQ store position, then press **3** to confirm the selection and exit.

Figure 21: Apply Hearing Test Result and Store in Equalizer Mode

(Note: In order to protect users’ hearing, the volume and equalizer settings adjusted according to the Hearing Test result have an upper limit. User may need to fine tune the settings, in order to achieve the best hearing effect. Please contact the hearing consultant if need.)

### 9.3 Recall Result

- (1) In Hearing Test page, use left 1 or right 4 button to choose "Start", "Recall Result" or "HL Index", and use enter 3 button to confirm selection or use exit 2 button to return to main menu.



- (2) Use enter 3 button to recall previous hearing test result.
- (3) User can recall up to 4 past hearing test results. Result 1 is the latest one and Result 4 is the oldest one.

Figure 22: Recall Hearing Test Result

### 9.4 Hearing Loss Index

Hearing Test result indicates the hearing loss level of user. Generally, hearing loss level can be classified into **Normal**, **Mild**, **Moderate**, **Moderate Severe**, **Severe** and **Profound**.

In Hearing Test result, user can use his/her hearing loss value [dBHL] to identify his/her hearing loss level, according to the following hearing loss index table.

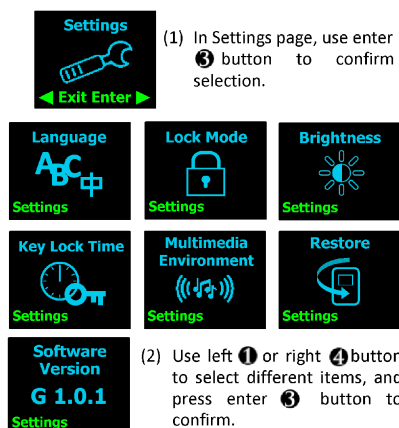
| Hearing Loss [dBHL] | Hearing Loss Level |
|---------------------|--------------------|
| 10 – 25             | Normal             |
| 26 – 40             | Mild               |
| 41 – 55             | Moderate           |
| 56 – 70             | Moderate Severe    |
| 71 – 90             | Severe             |
| >= 91               | Profound           |

Table 4: Hearing Loss Index

In Hearing Test result plot, green area represents Mild, yellow area represents Moderate, mild orange area represents Moderate Severe, orange area represents Severe and red area represents Profound. In addition, \*NR represents No Response from user at that frequency sound.

## 10. Settings

In Main menu, choose "Settings" and confirm selection by using enter 3 button. In Settings menu, there are 6 items for selection, "Language", "Lock Mode", "Brightness", "Key Lock Time", "Multimedia Environment", "Restore" and "Software Version". User can use left 1 or right 4 button to select item and press enter 3 button to confirm selection.



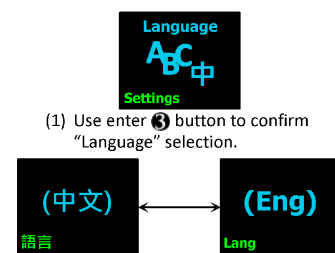
- (1) In Settings page, use enter 3 button to confirm selection.

- (2) Use left 1 or right 4 button to select different items, and press enter 3 button to confirm.

Figure 23: Selection in Settings

### 10.1 Language

Select "Language" in Settings menu, use enter 3 button to confirm selection. User can press left 1 or right 4 button to choose different display languages. The selected language will be applied to EH Grand immediately. Use exit 2 button to exit to EH Grand main menu.



- (1) Use enter 3 button to confirm "Language" selection.

- (2) Use left 1 or right 4 button to change display language. Press 2 button to exit.

Figure 24: Language Selection

### 10.2 Lock Mode

Select "Lock Mode" in Settings menu, use enter **3** button to confirm selection. Use left or right ( **1** / **4** ) button to switch On or Off lock mode and press exit **2** button to exit.

When lock mode is on, user can only increase / decrease the EH Grand volume by at most 3 levels. They cannot change or adjust the EQ settings. And, Hearing Test result cannot be applied to EQ and volume. In main menu, "LM" will be displayed in the lower left corner.

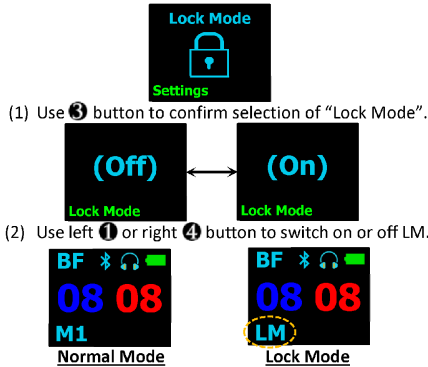


Figure 25: Lock Mode

### 10.3 Brightness

Select Brightness in Settings page, and press enter **3** button to confirm selection. Use left **1** or right **4** button to select different brightness levels (1 to 4). 1 is the darkest (most power efficient) and 4 is the brightest (least power efficient). The brightness level will be applied to the display immediately. Finally, press exit **2** button to exit.

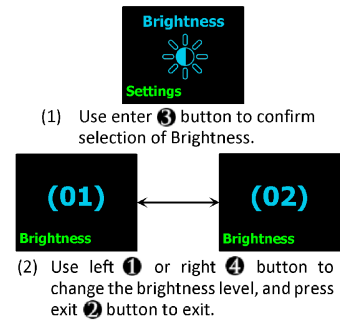


Figure 26: Brightness Setting

### 10.4 Key Lock Time

Select Key Lock Time in Settings page, and press enter **3** button to confirm selection. Use left **1** or right **4** button to select different key lock time (30, 60 or 90 seconds). Finally, press exit **2** button to exit.

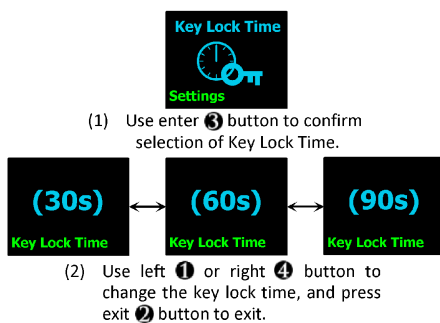


Figure 27: Key Lock Time Selection

### 10.5 Multimedia Environment

Select Multimedia Environment in Settings page, and press enter **3** button to confirm selection. Use left **1** or right **4** button to switch off or select different environmental sound levels for multimedia player (25%, 50%, 75% or 100%). If Multimedia Environment is switched on, user can hear environmental sound even when he/she is enjoying multimedia. Finally, press exit **2** button to exit.

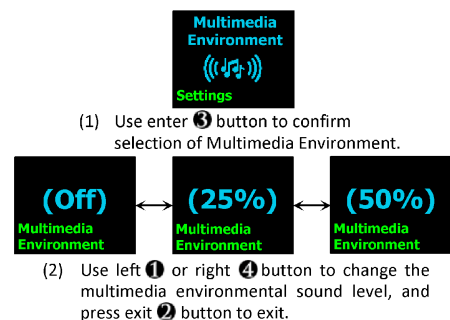


Figure 28: Multimedia Environment Selection

### 10.6 Restore

Select Restore in Settings page, and press enter **3** button to confirm selection. Use left **1** or right **4** button to select whether restore to factory reset point or not. And press enter **3** button to confirm selection.

If user chooses “Yes” to factory restore, all volume levels, equalizer settings and hearing test results will be deleted, and restore to factory reset levels. EH Grand will return back to main menu after the factory restore process. If user chooses “No” to factory restore, EH Grand will return back to restore page.

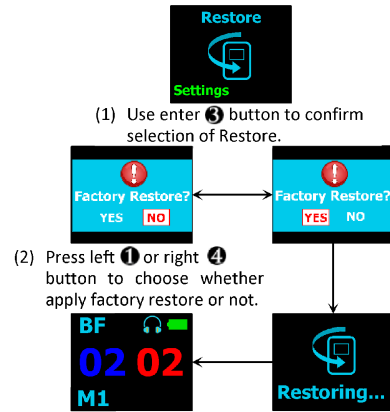


Figure 29: Factory Restore

### 10.7 Software Version

Select Software Version in Settings page, user can check the current EH software version.



Figure 30: Software Version

### 11. Keypad Lock & Unlock

EH Grand will lock the keypad after it is lit for the user selected key lock time, in order to save power. Or, user can lock the keypad by pressing **7** button for more than 1 second. When keypad is locked, the lock icon will be displayed at the lower right corner. User can press **7** button for more than 2 seconds to unlock the keypad.

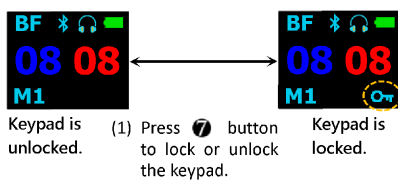


Figure 31: Keypad Lock and Unlock

If keypad is locked, user can still use **9** button to change BF/NC operation mode.

### 12. Battery Charging

If USB charging cable is inserted, the battery charging icon will be displayed at the upper right corner. The battery charging icon will flash when battery is charging, and it will stop flashing when the battery is fully charged. The battery icon will be displayed again when the charging cable is detached.

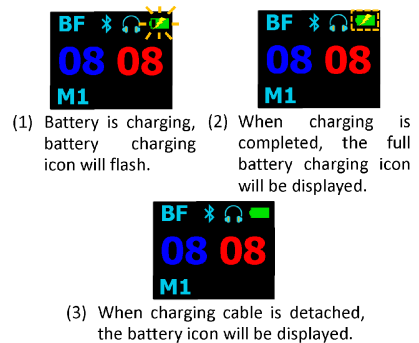


Figure 32: Battery Charging Display

If the battery icon keeps flashing after charging for a long time, please replace a new battery or contact EH customer service center or your distributor.

## Maintenance & Storage

### Maintenance:

- Please keep EH Grand clean.
- Please use flexibly dry cloth to clean dust on EH Grand.  
(Please avoid any liquid penetrates into EH Grand.)
- Please ensure earbuds are dry and clean before wearing the earphone cable.
- The earbuds should be cleaned regularly with water and mild soap, or with an antiseptic wipe. Always make sure that the earbuds are dry before reusing.

### Storage:

- Do not store EH Grand or accessories in the following environments:
  - (1) An environment which can get wet easily.
  - (2) An environment with high temperature, high humidity, direct sunlight, air contains dust or corrosive gases.
- Please remove the Li-ion rechargeable battery if EH Grand will not be used for more than 3 months.

## Troubleshooting

| Problem(s)                                  | Suggested Solution(s)  |
|---|--|
| No display is shown when power is on.       | (a) Re-insert the battery and power on EH Grand again.<br>(b) Battery is empty, recharge the battery.  |
| EH Grand Earphone cable cannot be detected. | (a) Please ensure the Earphone cable is plugged in completely.<br>(b) Power off & on the EH Grand and re-plug in the EH Grand cable.   |
| EH Grand powers off automatically.          | (a) Battery level is too low. Recharge the battery or replace with a fully charged battery.  |
| BT connection fails.                        | (a) Turn on the BT function of EH Grand before switching on the pair-up function on your BT device.<br>(b) EH Grand BT pairing time is over. Please switch off and on EH Grand BT, and reconnect your BT device with EH Grand again. |

|  |  |
|--|--|
| BT function cannot work properly.                            | (a) In your BT device, unpair EH Grand. Turn off and on BT in EH Grand once. Finally, reconnect your BT device with EH Grand again.                        |
| No sound output.   | (a) Please ensure the Earphone cable is plugged in completely.<br>(b) Volume is too low, adjust the volume.<br>(c) Battery is empty, recharge the battery. |
| Charge indicator is not shown when USB cable is connected.   | (a) Check the USB connection between EH Grand and PC / power adapter.<br>(b) Make sure EH Grand power is on.   |
| Charging icon keeps flashing after charging for a long time. | (a) Please replace with a new battery.   |

Note: EH Grand can still be charged with power switch in OFF position, although the charge indicator will not show up in this case.

Please contact EH customer service centre or your distributor, if problem(s) cannot be fixed by the above-suggested solutions.

## Specification

**Product** : Grand / Grand Lite

**Model** : EH V11.04b

**Power Input** : Li-ion Rechargeable Battery N7100 (DC3.8V 500mA)

### Operation and Charging Time

- ◆ Normal battery duration: about 9 – 10 hours if Bluetooth is disabled.
- ◆ Normal charging time:
  - about 7 – 7.5 hours when using 5V 800mA power adapter

### Operating, Storage and Transport Environmental Conditions

- ◆ Temperature : -10°C to +40°C
- ◆ Relative Humidity : 15% to 93%
- ◆ Atmospheric Pressure : 1000hPa

### Typical Service Life

- ◆ Main Unit : 2 Years
- ◆ Earphone Cable : 2 Years
- ◆ Rechargeable Battery : Charge for at least 300 times

## Accessory List

### (1) Li-ion Rechargeable Battery

Model : N7100  
Output : 3.8V 3100mAh  
Manufacturer : Logital Co. Limited

### (2) EH Stereo Earphone Cable

Model : HP\_0003

### (3) Micro-USB Charging Cable

Model : USB\_0002

### (4) AC/DC Power Adapter (Optional)

Manufacturer : Fujikon International Ltd.  
Model : SAW10-05.0-0800DTC  
Input : AC 100-240V 50/60Hz 0.5A  
Output : DC 5V 800mA

(EMC directive 2004/108/EC, LVD directive 2006/95/EC)

Please use original Logital accessories. Using third-party accessories may decrease product performance and/or pose a risk to personal safety.

Never use accessories from other manufacturers. They are not compatible with EH Grand and can modify the frequency response of your earphones and/or the EH Grand main unit, damage them or even cause injury.

- 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.

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.

Prolonged exposure of your skin to an overheated device may cause low temperature burn symptoms, such as red spots and pigmentation.

## Warning

**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:

## Additional Safety Information

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

To completely disconnect the power input, the AC/DC adaptor of apparatus shall be disconnected from the mains.

The disconnect device is the AC/DC adaptor of apparatus. The AC/DC adaptor of apparatus should not be obstructed OR should be easily accessed during intended use.

Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

Excessive sound pressure from earphones or headphones can cause hearing loss.

The normal function of the product may be disturbed by strong Electro-Magnetic Interference. If so, simply reset the product to resume normal operation by following the instruction manual. In case the function could not resume, please use the product in other location.






### Disposal of Product





To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this product and its electronic accessories from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste. Follow all local regulations when disposing of used battery or device and/or recycle them through your local, free battery return system.

### Symbol & Descriptions

Warning symbols are indicated for safe and proper use of this product and prevention of any injury to you and others. See table below for description of warning symbols.

| Symbol  | Descriptions  |
|---|---|
|  | Type B Applied Part   |
|   | Symbol for "Consult Instructions for Use" or "Consult Instruction Manual"   |
|   | Refer to Instruction Manual.  |
|   | Mandatory marking for devices entering the European market to indicate conformity with the essential health and safety requirements set out in European Directives. |
|   | This device complies with Part 15 of the FCC Rules.   |

|   |  |
|---|--|
|  | Direct Current.  |
|  | This marking on the product, accessories or literature indicates that the product and its electronic accessories should not be disposed of with other household waste. |
|  | The official recycling symbol of Environmental Protection Administration, Executive Yuan, Taiwan.  |
|  | Recycled Paper Symbol indicates product contains recycled paper.   |

### Disclaimer

Logital Co. Limited does not assume any liability, obligation or legal responsibility for any damage to the hearing or any other bodily harm whatsoever that using EH Grand or Grand Lite may have caused to the users. Users are strongly advised to read and are supposed to have read this User Manual with care.

## Contact Information

**Manufacturer:**

Logital Co. Limited

**Manufacturer Address:**

Rm 901-902, 9/F, Nathan Centre,  
580G-K Nathan Road,  
Mongkok, Kowloon, HK

**Customer Service Centre:**

Unit 10C, 10/F,  
Hua Chiao Commercial Centre,  
678 Nathan Road,  
Mongkok, Kowloon, HK

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