Small area and counter loop Amplifier
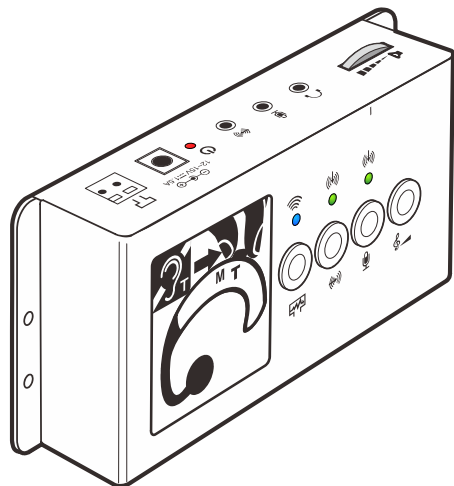
Geemarc™
LoopHear™160 v2

Hear the Difference

**www.geemarc.com**

UNPACKING THE LOOPHEAR

When unpacking the LoopHEAR™160v2, you should find the following in the box :
● 1 LoopHEAR™ main unit
● 1 user guide.
● 1 power adaptor 15V 1,5A DC (optional)
● 1 Loop Antenna (optional)
● 1 hand held HAC receiver (optional)
● 1 external lapel microphone (optional)

INTRODUCTION

The LH160v2 has been designed as a standalone Induction Loop system for use inside a vehicle, point of sale desks, banks, ticket counters or other customer service locations. It is easy to install and use.

The unit is designed for use with the standard Geemarc multi turnsloop antenna which can cover an area of about 1m^2.
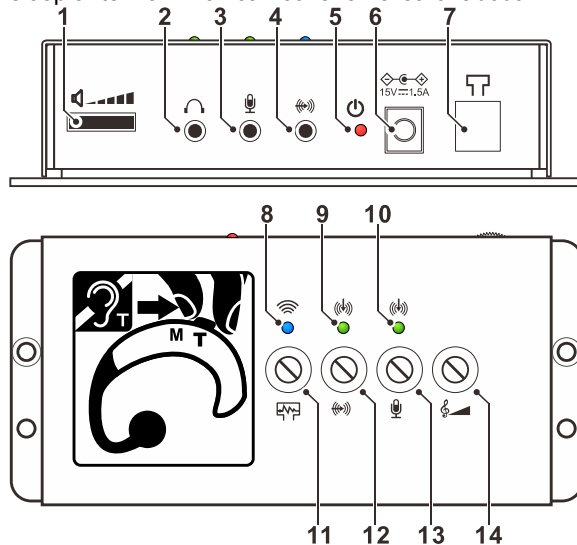
The functions and features include the following:

1. Headset volume control	8. Loop current indicator
2. Headset Output socket	9. AUX input indicator
3. MIC input socket	10. MIC input indicator
4. AUX input socket	11. Loop current adjustment
5. Power On indicator	12. AUX level adjustment
6. Power input socket	13. MIC level adjustment
7. Loop antenna connector	14. TONE adjustment

● Microphone input for use with standard desktop or lapel Microphones.
● Input for Aux signal (like from a MP3 player).
● Headset output
● Power input from a car battery via a car cigarette lighter socket or a 15V 1.5A DC power adaptor.
● Loop output with spring clamps for easy connection.
● Individual level controls for each input and loop output.
● LED indication of Power, Input signals and Loop output current for easy set up.

INSTALLATION & OPERATION

Choose a suitable location, free from magnetic or electrical interference for installation and use of LH160v2.

(1) Install the LH160v2 onto a panel or wall, ensuring that the cables are securely anchored.

(2) Connect the loop antenna or other compatible loop coil to the loop output terminals. For optimal performance the loop antenna should be located about 40 to 60cm in front of the customer.
Press the tab above the connector terminal and release after inserting the wire of the loop antenna (or coil). Polarity is not important.

(3) Connect the supplied (optional) lapel microphone or any other compatible Geemarc Microphone to the Mic jack.

(4) If required connect Aux input to the Aux jack.

(5) Using a small common blade flat screwdriver, turn the Mic, Aux, Tone and Field Strength controls fully anti-clockwise (to their minimum levels).

(6) Connect the AC power adaptor (optional) to the power input socket. Check that the Power ON LED illuminates.

(7) Apply the input signal (for example speaking into the Mic) to Mic and turn the corresponding control clockwise until the corresponding LED begins to light up.

(8) Repeat the above for the AUX input from an MP3 player, if used. While setting up, apply only one input at a time.

(9) While the input signal is present, adjust the Loop Current adjustment control clockwise to get the desired loop output level. The BLUE LED Loop Current Indication will become brighter as the Loop current is increased.

(10) Test the performance of the system using a field strength meter. Adjust the Tone and Loop Current controls to achieve the desired performance. The Tone adjustment enables compensation for loss of higher frequency signal during transmission.

(11) Connect the handheld HAC receiver(optional) to the Audio output socket and adjust the volume as desired using the volume control.

(12) To connect the LH160v2 inside a motor vehicle please contact Geemarc at **help@geemarc.com**

LOOP ANTENNA & PERFORMANCE

For optimum performance, use the Geemarc loop antenna (optional accessory) pack or a local area loop with the following specifications:

Loop resistance 0.3 to 1 ohm.

Loop Impedance 1.3 ohm at 1.6 KHz.

For local area loops, use wire 0.5 to 1.5 mm^2 or 22 to 16 AWG

The area covered by the unit is about **60cm ± 45°** from the center point of the loop antenna/coil.

device
Reference point
10 cm
30 cm
20 cm
Area to ear the signal
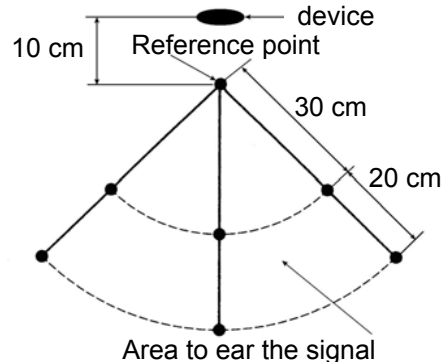
SAFETY INFORMATION

General
Do not open the unit. Contact the helpline for all repairs.

Cleaning
Clean the LoopHEAR^{TM} with a soft cloth. Never use polish or cleaning agents - they could damage the finish or the electronics inside.

Environmental
● Do not expose to direct sunlight.
● Always ensure there is a free flow of air over the surfaces of the LoopHEAR^{TM}
● Do not place any part of your product in water and do not use it in damp or humid conditions e.g. bathrooms.
● Do not expose your product to fire or other hazardous conditions.

GUARANTEE

From the moment your Geemarc^{TM} LoopHEAR^{TM}160v2 is purchased, Geemarc^{TM} guarantee it for the period of two years. During this time, all repairs or replacements (at our discretion) are free of charge. Should you experience a problem then contact our help line or visit our website at **www.geemarc.com**. The guarantee does not cover accidents, negligence or breakages to any parts. The product must not be tampered with or taken apart by anyone who is not an authorised Geemarc^{TM} representative. The Geemarc^{TM} guarantee in no way limits your legal rights.

IMPORTANT : YOUR RECEIPT IS PART OF YOUR GUARANTEE AND MUST BE RETAINED AND PRODUCED IN THE EVENT OF A WARRANTY CLAIM.

Please note: The guarantee applies to the United Kingdom only

DECLARATION: Geemarc Telecom SA hereby declares that this LoopHEAR^{TM}160v2 is in compliance with the essential requirements and other relevant provisions of the RED 2014 / 53 / UE.

The declaration of conformity may be consulted at www.geemarc.com

Electrical connection: The apparatus is designed to operate from a 100 to 230Vac 50-60Hz supply. (Classified as 'hazardous voltage' according to EN60950 standard), or from 12-13Vdc car battery cord adaptor.

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.

RECYCLING DIRECTIVES

The WEEE (Waste Electrical and Electronic Equipment) has been put in place for the products at the end of their useful life are recycled in the best way.

When this product is finished with, please do not put it in your domestic waste bin.

Please use one of the following disposal options:

- Remove the batteries and deposit them in an appropriate WEEE skip. Deposit the product in an appropriate WEEE skip.
- Or, hand the old product to the retailer. If you purchase a new one, they should accept it.

Thus, if you respect these instructions you ensure human health and environmental protection.

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For product support and help visit our website at
ww.geemarc.com
E-mail : **help@geemarc.com**
Telephone : **01707 387602**
lines are open 09h00 to 16h00 Mon to Fri
2 Rue Galilée, Parc de l'Etoile, 59791 Grande-Synthe, Cedex France.

This product is made in China To Geemarc Telecom

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