



# geemarc LoopHear 160 Small Area and Counter Loop Amplifier Instruction Manual

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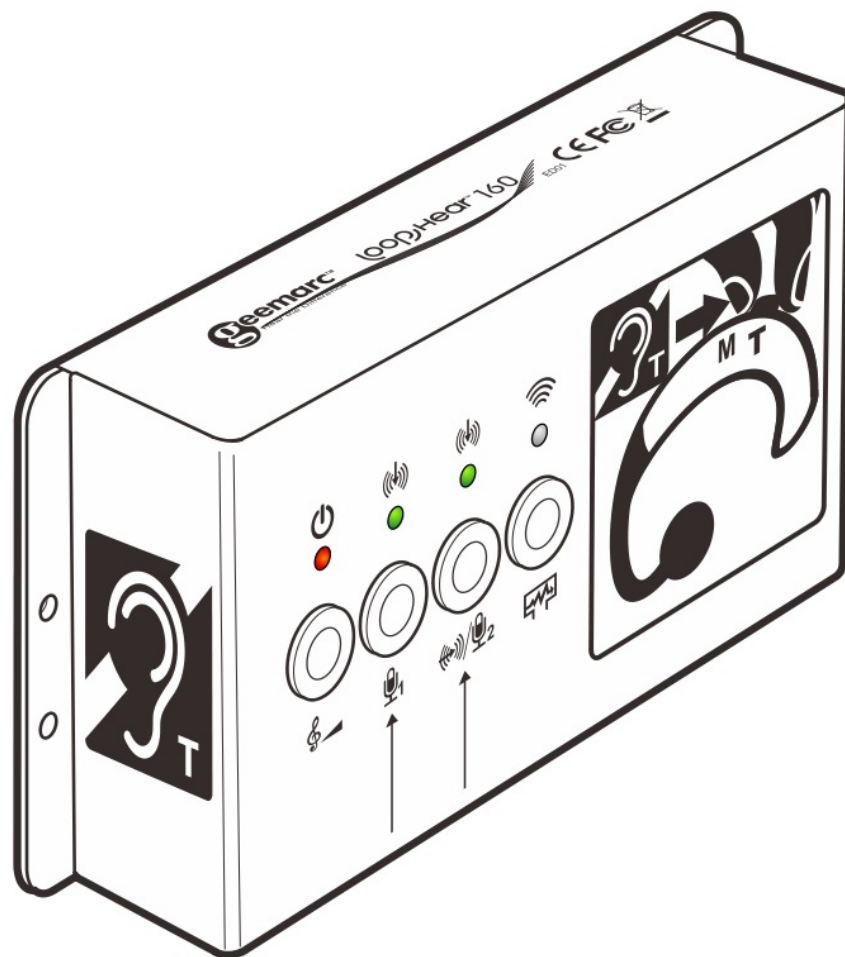


Small area and counter loop  
Amplifier

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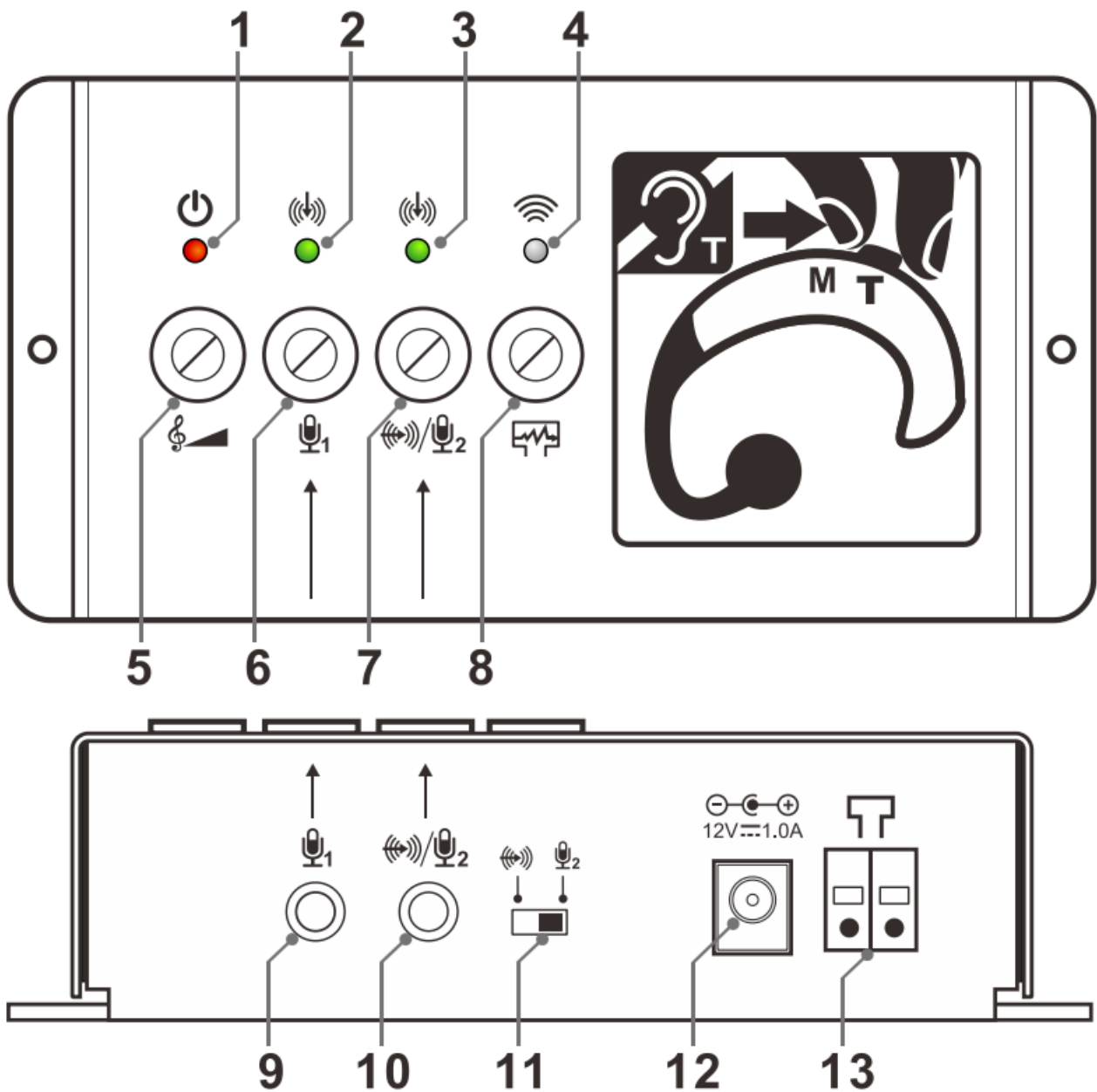
**LoopHear 160 Small Area and Counter Loop Amplifier**



[www.geomarc.com](http://www.geomarc.com)

## INTRODUCTION

The LH160 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 Geomarc multi-turn loop antenna (optional accessory) which can cover an area of about 1m<sup>2</sup> or a local area loop covering an area up to 40m<sup>2</sup>. The functions and features include the following:



1. Power On indicator
2. MIC1 indicator
3. MIC2 or AUX input indicator
4. Loop current indicator
5. TONE adjustment
6. MIC1 level adjustment
7. MIC2 or AUX input level adjustment
8. Loop current adjustment
9. MIC1 input socket
10. MIC2 or AUX input socket
11. Selector switch for MIC2 or AUX input
12. Power input socket
13. Loop antenna connector

The functions and features include the following:

- Microphone input for use with standard desktop or lapel Microphones.
- Dual function input for a second Microphone or Aux signal (like from an MP3 player) selectable via a switch.
- Power input from a car battery via a car cigarette lighter socket or a 12 or 13 V 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 the installation and use of LH160

1. Install the LH160 onto a panel or wall under the counter, ensuring that the cables are securely anchored.
2. Connect the loop antenna (optional accessory) or another compatible loop coil to the loop output terminals. For optimal performance, the loop antenna or coil should be located about 80cm 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 a compatible Geemarc Microphone to the Mic1 jack.
4. If required connect a second compatible Microphone or Aux input to the Mic2/Aux jack. Use the switch to select the type of input.
5. Using a small common blade flat screwdriver, turn the Mic1, Mic2/Aux, Tone, and Field Strength controls fully anti-clockwise (to their minimum levels).
6. Select the power source (car battery or mains AC adaptor) and connect the car adaptor cable or AC power adaptor to the power input socket.
7. Switch on the external power and check that the Power ON LED illuminates
8. Apply the input signal (for example speaking into the Mic) to Mic1 or Mic2/Aux and turn the corresponding control clockwise until the corresponding LED begins to light up.
9. Repeat the above for the second input if used. While setting up, apply only one input at a time.
10. While the input signal is present, adjust the Loop Current adjustment control clockwise to get the desired loop output level. The Loop Current Indication LED will become brighter as the Loop current is increased
11. 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 the loss of higher frequency signal during transmission.
12. To connect the LH160 inside a motor vehicle please contact Geemarc at [enquiries@geemarc.com](mailto:enquiries@geemarc.com)

## LOOP ANTENNA & PERFORMANCE

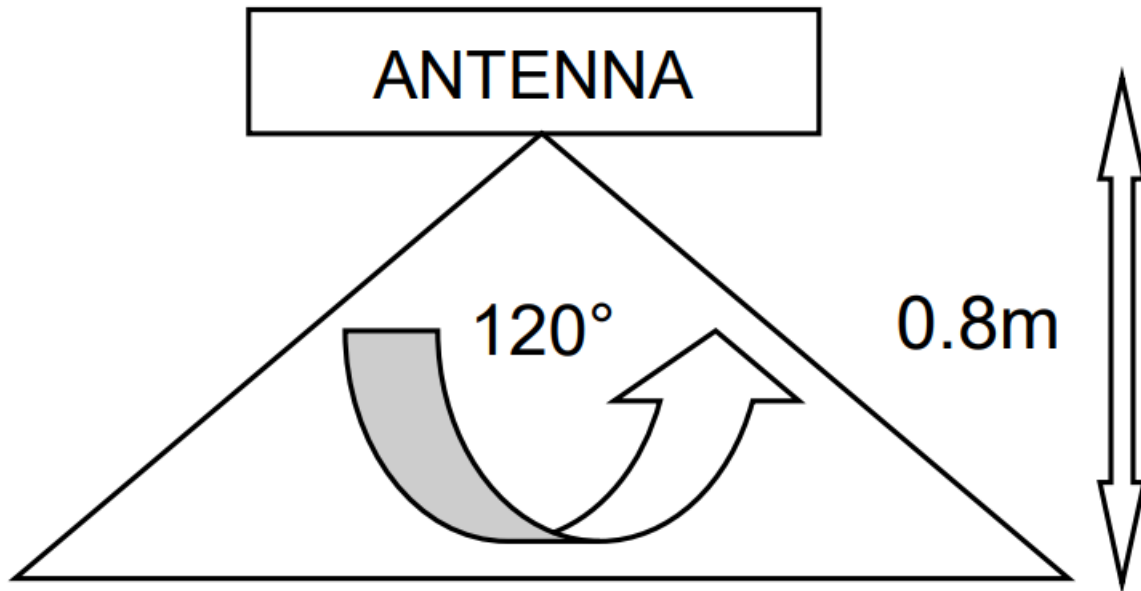
For optimum performance, use the loop antenna (optional accessory) or a local area loop with the following specifications:

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<sup>2</sup> or 22 to 16 AWG

The area covered by the unit is about 80cm ± 60° from the center point of the loop antenna/coil



## SAFETY INFORMATION

### General

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

### Cleaning

Clean the LoopHEAR™ 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™
- 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™ product is purchased, Geemarc™ guarantee it for a 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 helpline or visit our website at [www.geemarc.com](http://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 authorized Geemarc™ representative. The Geemarc™ 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 product is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Directive.

The UKCA declaration of conformity may be consulted at [www.geemarc.com](http://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 EN62368-1 standard), or from the 1213Vdc car battery cord adaptor.

This device complies with Part 15 of the FCC Rules [and with RSS-210 of Industry Canada].

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 to be recycled in the best way.

When this product is finished, 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.



For product support and help, visit our website at [www.geemarc.com](http://www.geemarc.com)

For our Customer Helpline

E-mail: [help@geemarc.com](mailto:help@geemarc.com)

Telephone : 01707 387602

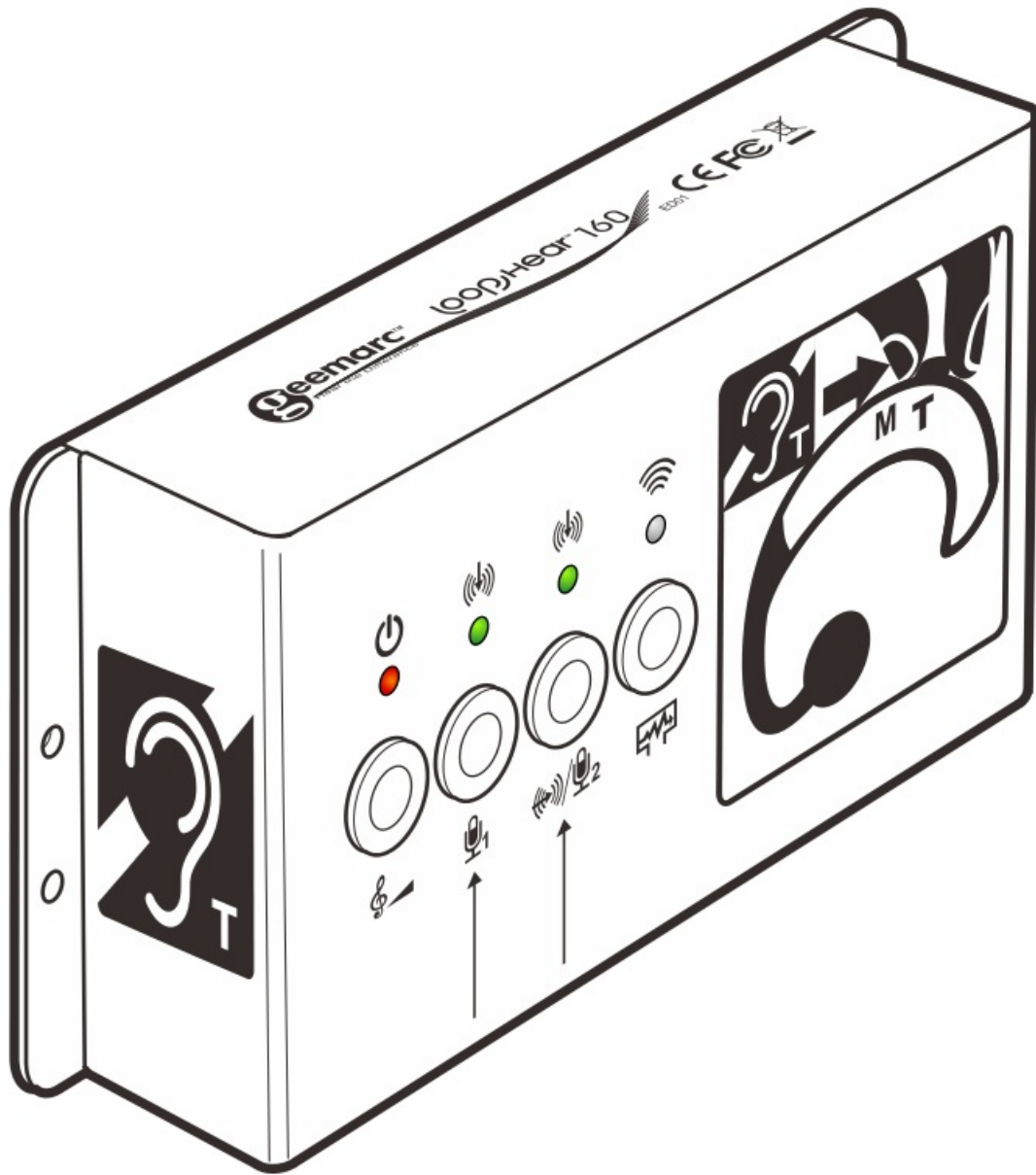
lines are open 09h00 to 16h00 Mon to Fri



Produktsupport und Hilfe erhalten Sie auf unserer Webseite unter

[www.geemarc.com/de](http://www.geemarc.com/de)

E-mail : [kontakt@geemarc.com](mailto:kontakt@geemarc.com)




UGLoopHEAR160\_EnFrGe\_Ver1.1

59791 GRANDE-SYNTHÉ CEDEX,  
FRANCE

[www.geomarc.com](http://www.geomarc.com)

Documents / Resources

 <p>Small area and counter loop Amplifier Amplificateur pour Boucle Magnétique Induktionsschleife</p> <p>English P1 Français P10 Deutsch P18</p> <p>www.geemarc.com</p>	<p><a href="#">geemarc LoopHear 160 Small Area and Counter Loop Amplifier</a> [pdf] Instruction Manual LoopHear 160 Small Area and Counter Loop Amplifier, LoopHear 160, Small Area and Counter Loop Amplifier, Counter Loop Amplifier, Loop Amplifier, Amplifier</p>
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## References

- [Home - Geemarc UK](#)
- [Home - Geemarc UK](#)
- [STARTSEITE - Geemarc Germany](#)

Manuals+