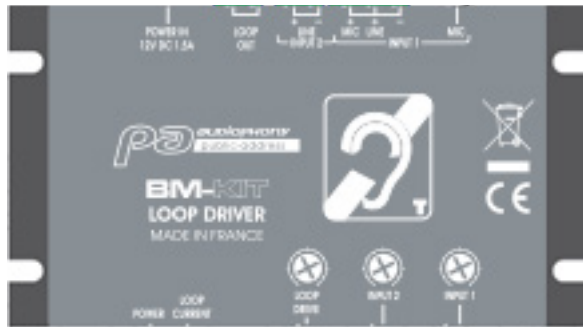


Magnetic loop amplifier kit



BM-KIT

1 - Safety information

Important safety information



This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.



Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.



This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.

Symbols used



This symbol signals an important safety precaution.



The WARNING symbol signals a risk to the user's physical integrity. The product may also be damaged.



The CAUTION symbol signals a risk of product deterioration.

Instructions and recommendations

1 - Please read carefully :

We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

2 - Please keep this manual :

We strongly recommend to keep this manual with the unit for future reference.

3 - Operate carefully this product :

We strongly recommend to take into consideration every safety instruction.

4 - Follow the instructions:

Please carefully follow each safety instruction to avoid any physical harm or property damage.

5 - Avoid water and wet locations :

Do not use this product in rain, or near washbasins or other wet locations.

6 - Installation :

We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools.

Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

7 - Ceiling or wall installation :

Please contact your local dealer before attempting any ceiling or wall installation.

8 - Ventilation :

The cooling vents ensure a safe use of this product, and avoid any overheating risk. Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never be operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose .

9 - Heat exposure :

Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc...

CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN

WARNING : This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer.
In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.

Sound levels

Our audio solutions deliver important sound pressure levels (SPL) that can be harmful to human health when exposed during long periods. Please do not stay in close proximity of operating speakers.

Recycling your device

- As HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
- When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

10 - Electric power supply :

This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

11 - Power cords protection:

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at lugs, convenience receptacles and the point where they exit from the fixture.

12 - Cleaning precautions :

Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

13 - Long periods of non use :

Disconnect the unit's main power during long periods of non use.

14 - Liquids or objects penetration :

Do not let any object penetrate this product as it may result in electric shock or fire. Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

15 - This product should be serviced when :

Please contact the qualified service personnel if :

- The power cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the appliance.
- The appliance has been exposed to rain or water.
- The product does not appear to operate normally.
- The product has been damaged.

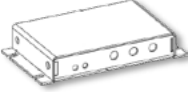



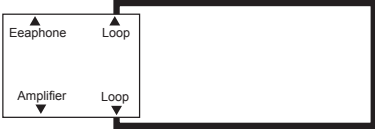






16 - Inspection/maintenance :

Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

17 - Operating environment :

Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).
Do not operate this product in a non-ventilated, very humid or warm place.

2 - Package content

<p>A</p>  <p>x1 BM-KIT Amplifier</p>	<p>B</p>  <p>x1 12V, 1,5A power block</p>	<p>C</p>  <p>x1 Power cord</p>	<p>D</p>  <p>x1 Micro</p>
<p>E</p>  <p>X1 Loop adapter</p>		<p>F</p>  <p>x1 Link cord</p>	<p>G</p>  <p>x6 Adhesive clips for cables</p>
<p>H</p>  <p>x2 2 points connectors</p>	<p>I</p>  <p>x1 3 points connectors</p>	<p>J</p>  <p>x2 Stickers « Adapted for hearing-impaired area »</p>	<p>K</p>  <p>x1 User guide</p>

3 - Loop system planning

The majority of the concerns of induction loop happen when the installation hasn't been correctly considered. Let's take some time before starting the installation and let's have time and results benefits.

Ideally, the loop amplifier must be placed near to the area it has to cover. It can entail to place the amplifier on a panel, under a desk or a table.

The sound recording microphone must be placed as near as possible to the amplifier input.

To position the loop in the area that you have to equip, it is important to take future users into account.

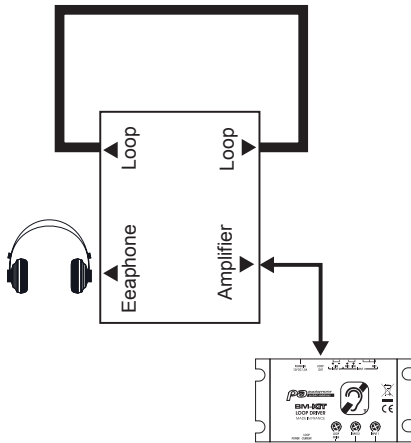
For example, if you only have to plan speaker and client, a loop around the desk can be a better solution rather than a loop around the perimeter of the room. It will limit shinning and will increase confidentiality. For a TV room equipment, it's recommended to tug the loop around the room to enables several user to use the equipment.

4 - Counter loop system installation

The coil provided in BM-KIT kits enables to ensure a fast installation of a loop system in a reception desk, counter or cash desk.

In order to optimize the magnetic field shining and to ensure a better result, the coil must be placed as near as possible to the customer.

4-1 Loop's composition and assembly



The loop includes 3 elements : loop adapter (E), a loop ► amplifier link (F) and a kit of adhesive clips (G).

To create the loop that will equip the counter, position the clips (H) and position the flat cable.

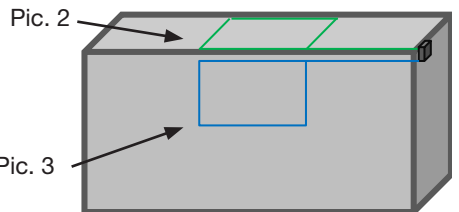
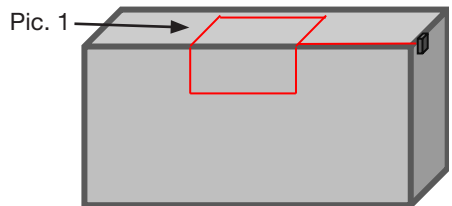
Then connect the connecting cable (G) to the terminal block of the adapter.

Your final loop is now created.

4-2 Counter loop installation

There are 3 counter loop placement possibilities as described below, however, we recommend you to use the first one :

1. Place the loop on the vertical and horizontal section as illustrated on the figure 1. This kind of installation ensure a better coverage in front of the desk. **Picture 1.**
2. Place the loop on the horizontal section of the counter while placing the wire as near as possible to the client. **Picture 2.**
3. Place the loop on the horizontal section of the counter while placing the wire as near as possible to the customer. **Picture 3.**



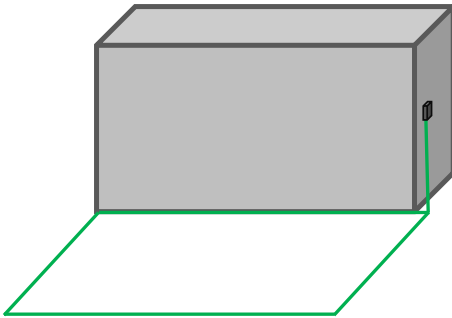
Fix the loop thanks to fixations clips provided for the purpose. For more durability, it may be appropriate to install the loop in a plastic plastic cable duct.

The coil provided in the BM-KIT kit produces a magnetic field shining over a 1,2 meter perimeter which enables a person to receive comfortably the signal.



The loop can't be placed under a metallic structure such as cash register. The magnetic field would be absorbed by the metallic mass which could not equip the counter properly. It exists other solutions for the installation of a loop in a metallic counter (see below)

4-3 Installation of the loop on the ground



For a wider coverage around the counter, you can install a wire on the ground. The loop can be placed in the slab (under the metallic lattice), under a coating (parquet, carpet ... etc) thanks to a copper roller or stuck under a floor mat.

See adjacent example

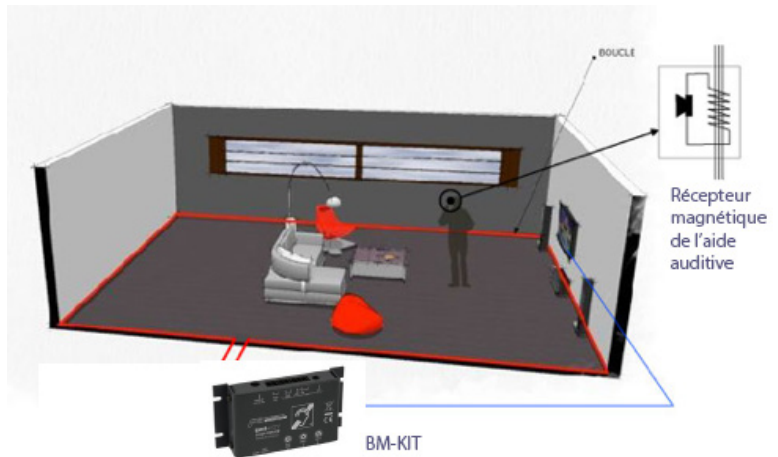
5 - Installation of a loop system in a room

The BM-KIT amplifier covers a 25 m² x 5m x 5m square room. If the room is rectangular, the unit will cover 60m² (10m x 6m)

The loop wire must be placed on the ceiling (heigh 3m), in a baseboard or on the ground around the room or on a bounded area (example : row of seats).

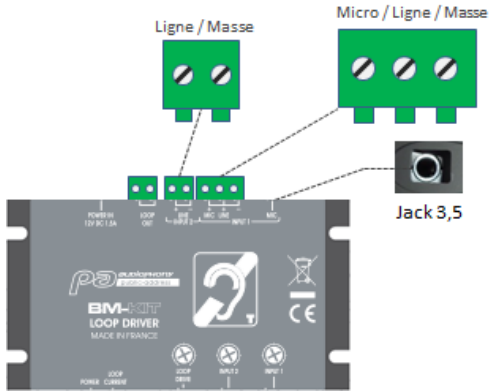
If the ground contains a lot of steel or aluminum, or if the wire is placed higher than 3m, then the coverage will be substantially reduced (approximatively 20% per additionnal meter).

For a better reception, we recommend you to place the loop on the ground or in a suspended ceiling if it is lower than 3,5m.



6 - Connection

6-1 Audio connection



To connect the microphone provided with the BM-KIT kit, insert the 3,5 jack in the micro input 1.

To connect an audio source on the BM-KIT, connect your wire to the line input 1 on both « Line » and « Mass » terminal block connectors.

To connect your TV on the BM-KIT, connect the provided wire in the line input 1.

Connection to an intercom or a specific source: Connect your source on the BM-KIT input 2. This input accept following sources : Line, 100V and low impedance.

Micro input 1 :

Type : 3,5 jack

Caractéristic : phantom power

Input 2 :

Type : terminal block

Input type : line / 100V / low impedance

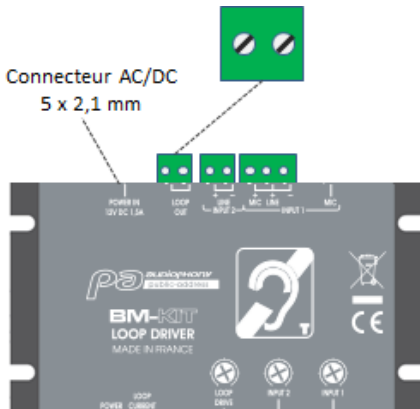
Line input 1 :

Type : Terminal block

Input type : Line or micro

Screw connection

6-2 Loop and power connection



Connect the loop wire on the BM-KIT « loop » input.

Nota : « Loop » input does can be connected anyway.

Power supply :

Connect the power block provided in the kit to the « power supply » input.

7 - Characteristics

Inputs

Audio inputs	2 (1 micro or line input and 1 line input)
Type	3,5 micro jack, Phoenix terminal block
Phantom	4,5V 1mA

Power supply

Caractéristiques	12V DC 1,5A
Type	Separated power block
Voltage	230V 50/60 Hz
Power	20W max
Fuse	Thermal

Audio processor

Compressor	Variable 1:1 to 20:1
Etching	10mS
Descent	Automatic 500mS or 1500mS
Noise reduction	Bandwith limits for 8 KHz total gain, 16KHz to -6dB
Dynamic	> 60dB
THD	THD+N <0,5% at 1kHz

Output

Type	Current
Loop resistance	0,1 Ohm to 1 Ohm
Peak current	5A
RMS Current	3,5A at 1 KHz
Protection	Thermal, short-circuit and start

Size (mm) and weight

BM-KIT	92 x 52 x 18 (L x H x P)
Packaging	190 x 190 x 50
Weight	0,350 kg

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