

Geophone

Version S & L

Quickstart Guide
/ Manual



Version 1v0r0
Manual 1v0r0

LeafAudio 

1. Intro

What is a Geophone?

Geophones are omnidirectional seismic sensors to capture low-frequent vibrations. Besides detecting seismic activity, Geophones are used to capture extreme low-end for sound design, music production, field recording, foley and game sound. Often the sound of them is mixed and layered with other recordings (contact- or normal microphones) of the same sound source. Sometimes this trick is a real gamechanger!

We offer two versions to meet your budget and your needs: Geophone S and Geophone L. Both come in a protective hard case, equipped

with a magnet, steel spike, clamp and suction cup.

We offer a separate add-on pack for both versions - it includes a variable clamp that allows the angle to be continuously adjusted to optimize their sound performance, a special woodscrew and an adapter from M4 to 1/4" universal camera mount.

Geophone L has an extended frequency range and sensitivity over Geophone S.

Body Sound Transmission

Geophones (like contact mics) work through body sound transmission. In comparison to airborne sound transmission (via a microphone or the diaphragm of our ear), all sounds can be listened to in a very intimate and direct way. Imagine it like listening to the materials from the inside. This shift of the hearing perspective will be your best trick to create sounds, that will captivate your listeners or even better: yourself. Out there is a completely unheard realm of sound and this sort of mics make it possible to participate and listen. There is a profound satisfaction and fascination in this listening process alone.

Included Add-Ons

- Geophone
- Hardcase with zipper, leaves space for the additional add-ons
- Magnet
- Clamp
- Suction cup
- Steel spike
- XLR cable, 2,0 m length

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2. Using the Geophone

Who needs it and what is it for?

Musicians, sound designers, field recording specialists. You can use it for recording instruments, nature sounds, plants, metal objects or whatever you like. Your imagination is the only limit.

What else do I need?

You need a standard pre-amp, recorder or mixing desk with XLR inputs. It is basically like any other microphone which has to be amplified. No phantom power needed.

Pre-amps and Inputs

Apart from seismic measurements where you can expect very low amplitude sounds, you can probably use any standard pre-amp, recorder input etc. which does a good job on dynamic microphones. If you record mechanical sound sources and objects you can expect relatively high amplitudes and therefore no special pre-amp is needed.

Mounting it on objects

You can use the magnet connected to the bottom threading or to the clamp to mount it on metal surfaces. The steel spike does a good job for soil etc. The suction cup can be mounted to the bottom threading or also to the clamp. Have in mind that the Geophone has a certain weight and think about a safety strap if you think it might fall down. Basically there is no „how to do it“. It's all about experimentation.

3. Legal stuff

Specifications

Geophone S

Width: 38 mm

Height: 70 mm

Weight: 214 g (only Geophone w. cable)

Weight: 436 g (incl. box)

2,0 m cable with balanced XLR

Frequency range: 28 Hz - 1000+ Hz

Impedance: 1850 Ohm

Distortion: 0,2 %

Sensitivity: 28 V/m/s

Geophone L

Width: 42 mm

Height: 76 mm (incl. Dingsi)

Weight: 250 g (only Geophone w. cable)

Weight: 472 g (incl. box)

2,0 m cable with balanced XLR

Frequency range: 15 Hz - 1000+ Hz

Impedance: 5222 Ohm

Distortion: 0,05 %

Sensitivity: 74,8 V/m/s

Intended use and safety instructions

The unit is NOT waterproof! Use in dry places within a temperature range between 10°C/50°F and 70°C/158°F. Generally it is ment to be handled gently. Due to the nature of Geophones it might be possible that it picks up electromagnetic fields and interferences in

some areas. The Geophone includes a strong magnet, that might have unwanted effects on credit cards, hard disks, ICDs and other devices that work on the basis of electromagnetism!

Warranty terms

Tech Creation Lab Leipzig UG warrants this product to be free of defects in material or workmanship at the time of shipment for a period from one year from the date of purchase. During that period, any malfunctions which happen while normal use will be repaired or

serviced. The warranty does not cover any problems resulting from damages during shipping, incorrect use, the use in improper working environment, abusive treatment or any other obvious user-inflicted fault.

Return policy

The device intended for repair or replacement under warranty needs to be shipped in the original packaging only! The packaging is part of the product, so keep it. Also a filled out RMA form must be included (email us, we'll send it). We cannot take any responsibility for transport damages. Before you send us anything, please

contact support@exploding-shed.com. Parcels that are not sufficiently franked or sent without request will be rejected and sent back. **If you bought it from a distributor/reseller outside EU and not from Exploding Shed directly, please contact the distributor/reseller first.**

Disposal

For private households: Information on disposal for users of WEEE

This symbol (figure on the right) on the product(s) and / or accompanying documents means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge. Alternatively, in some countries, you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point. Penalties

may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For professional users in the European Union

If you wish to discard electrical and electronic equipment (EEE), please contact your dealer or supplier for further information.

For disposal in countries outside of the European Union

This symbol is only valid in the European Union (EU). If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.



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For worldwide distributors please check LeafAudio or Exploding Shed websites.

Contact & responsible

Tech Creation Lab Leipzig UG (haftungsbeschränkt)

Nonnenstr. 19

04229 Leipzig / Germany

+49 (0) 341 / 392 965 30

support@exploding-shed.com

WEEE Reg-Nr.: DE94097895