



Luhd microphones



PM-01 Binaural microphones

PM-01 Binaural are based on a set of amplitude-matched (within 0.5dB) omni-characteristic microphone capsules mounted in housings made for binaural or quasi-binaural recording. The microphones are chosen for their sensitivity, size and acoustic properties. This set is meant to offer beginners and advanced users a way to explore, record and document sounds in a surprisingly realistic way, without using fortunes on equipment. The microphones run on plug-in-power (p-i-p). Because of the low voltage demand, there should be no need for an extra battery-pack, and the microphones should function well with the p-i-p found on most consumer and prosumer recorders. The cable is interwoven with kevlar for extra tensile strength.

Supplied:

Luhd PM-01 Binaural Microphones
1 pair of rubber earhooks
1 tie clip (6mm)
1 pair of silicone fittings
1 pair of foam screens

This set comes as a flexible and customizable kit, meant for the user to adapt the microphones to his or her unique preferences. To ease the process of adapting the microphones to your liking, we have included some different parts for you to try out. It is recommended you use some time in the start to fit the microphones to your ears. Should you lose any of the parts, these are picked for their general availability.

The microphones can be used with or without the earhook, the silicone fittings or the tie clip. The cord can go over or under your ears. You may find gravity may help the microphones stay in place, or maybe not. The silicone pads may provide a better fit, but will inhibit your hearing. Using the microphones without the silicone pads, but with the ear-hooks, will ease monitoring and anchor the microphones close to your ears, but may present less comfort. For a convincing recording, however, we recommend you mount the microphones as close to the ear canals as possible, so that the outer ear can partake in shaping the sound. If you wear glasses, we recommend you try fitting the earhook while wearing your glasses.

Directional Characteristics: Omni -directional
Sensitivity: 32 dB \pm 3dB at 1kHz (0dB=1V/Pa)
Impedance: 1.6 k \pm 30 at 1kHz (R =2 k)
S/N Ratio: Typ. 74 dB at 1kHz (1Pa, A weighted network)
Operating Voltage: 3 V (1.5V -10V)
Max S.P.L.: 115dB
Current Consumption: 500 A max (V =3 V)
Matched within \pm 0.5dB 94dB/1kHz

Some tips while recording

binaurally;

- Remember that your every head movement will cause panning in the recording.
- Check with the recorder once in a while. Adjust recording-volume to max expected sound-source to avoid clipping.
- Be aware of your breathing, as it is easily picked up by the microphones.
- To save space and price, these microphones are unbalanced. Although shielded, the wire may pick up electromagnetic noise. To minimize this problem, keep electronic devices (mobile phones etc) at some distance. Don't store the recorder and your phone in the same pocket while recording.