GeneBM (for *Genesis Binaural Microphones*) is a pair of microphones dedicated to binaural sound recording on a human head. The high-quality miniature microphones are placed in the ear pinnae of the user in a reproducible manner, and its light and ergonomic design allows for a use in everyday-life situations where artificial heads are impractical.

GeneBM is a high-fidelity solution to capture a sound scene with its spatial attributes. The playback is ideally achieved through headphones, or through a transaural multi-speaker system (GeneTrans technology).

GeneBM is also a suitable solution for the individual equalization of headphones, and transaural systems, in order to ensure an optimal rendering of the binaural recordings. It can also be used to measure the individual Head-Related Transfer Functions (HRTFs) of the user. These filters are useful for an artificial 3D positioning of sound sources in virtual reality applications, thanks to binaural synthesis (GeneVR technology).

**Features**
- Miniature high-quality microphone capsules.
- Reproducible, ergonomic and easy positioning of the microphones.
- Light and stable head-mount.
- Adaptable to any morphology.
- Both balanced XLR (+48V phantom) and ICP standards are available.
- Specifications
  - Frequency Response: 20 Hz to 20 kHz
  - Sensitivity: 16.0 mV/Pa
  - Equivalent Acoustic Noise: 24 dBA SPL
  - Overload Sound Level: 120 dB SPL
Binaural recording is the most natural way to capture a spatial audio scene.

GeneBM is the perfect solution to achieve such recordings, as its ergonomics enable a use in any situation.

GeneBM can be connected to any pro audio recording device or data acquisition card thanks to its balanced XLR and ICP outputs.

Binaural recordings are ideally rendered directly through headphones, or through a transaural multi-speaker system. The latter solution requires a processing of the signals, which can be achieved with GeneTrans.

GeneBM can be used to perform the individual equalization of these systems, in order to obtain a perfectly transparent rendering.

GeneBM can be connected to any pro audio recording device or data acquisition card thanks to its balanced XLR and ICP outputs.

GeneBM can be used to measure individual Head-Related Transfer Functions (HRTFs), in order to obtain the best immersion in virtual reality systems based on binaural synthesis.