

About Ears

Our take on Tom Whitwell's *Mikrophonie* module, **Ears** is a perfect match for physical synthesis modules like Rings or Elements, but it can also be the gateway between external audio sources and your modular system.

Installation

Ears requires a **-12V / +12V power supply (2x5 pin connector)**. The ribbon cable connector must be aligned so that the red stripe of the ribbon cable (-12V) is on the same side of the module's power header as the "Red stripe" marking on the board. The module draws **5mA** from both the +12V and the -12V supply rails.

The full manual can be found online at mutable-instruments.net/modules/ears/manual

For help and discussions, head to mutable-instruments.net/forum



Mutable
Instruments



 Ears

Contact microphone





A. Gain control, 0 to 40dB (loud! may cause clipping).

B. Contact microphone.

1. Hi-Z Audio input. Amplifies an external source. Patching a cable here disconnects the contact microphone.

2. Audio output. The red LED indicates clipping.

3. Envelope CV output. The white LED indicates the envelope CV level.

4. Gate output. Emits +8V when the envelope exceeds a threshold. Indicator: orange LED.

The jumpers at the back of the module adjust the response of the envelope follower and gate detector.

Envelope Follower

Gate Detector



fast

1V

medium

2V

slow

4V

The last setting is obtained by removing the jumper.