



## Performance. Mobility. Flexibility.

Mentalab **Explore** was designed around three core principles.  
The result: experimental **freedom**.

### High **Performance**

- 4 or 8 ExG input channels
- Accelerometer, gyroscope & magnetometer sensors
- True-DC ExG with 24-bit resolution (0.1 $\mu$ V/bit)
- $\pm$  400mV operating range
- 1G $\Omega$  input impedance
- 0.4 $\mu$ Vrms input referred noise

### Exceptionally **Mobile**

- 4x4x2cm; only 27g
- Wireless data via Bluetooth (> 10m range)
- Optional internal flash memory
- Battery life: 8h streaming, 12h offline recording



### Fully **Flexible**

- Configurable ExG sampling rates: 250, 500 or 1000Hz
- Modular design: flexible positioning, wet/dry/custom electrodes
- Real-time visualization, recording, conversion & device configuration
- Open-source APIs in Python, Java, C++ and MATLAB
- Full integration with ADI LabChart Lightning, LSL & more

Mentalab Explore's ultra mobile design promotes true **freedom of movement**.  
Data can be streamed live via **Bluetooth** or recorded to an internal memory card.  
**Open source APIs** integrate all device functionality with countless applications,  
including LSL.

Visit [mentalab.com](https://mentalab.com) or email us  
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