Capture2Go

sensor recording made simple

What is Capture2Go?

Capture2Go is the wearable sensor platform by SensorStim Neuro-technology GmbH. The Capture2Go IMU is a wireless motion sensor with advanced on-chip sensor fusion. The modern measurement app makes sensor data recording simple and efficient. Power users can use the SDK or the BLE protocol documentation to integrate the sensors in their own applications.

Capture2Go Inertial Measurement Unit (IMU)

- Dimensions: 32x29x11 mm, weight: 12 g
- Output of raw data and orientations with up to 200 Hz
- 3D gyroscope & accelerometer
    - acceleration: 16 bit, range ± 16 g
    - rate of turn: 16 bit, range ± 2000 °/s
    - internal sampling rate: 1666 Hz
- 3D magnetometer
    - 16 bit, range ± 49 Gauss, internal sampling rate 50 Hz
- Connectivity: Bluetooth Low Energy (BLE) 4.2 and USB-C
- 200 mAh LiPo battery, up to 10 hours (streaming/recording)
- Memory: 64 MB for recording
    - 4 hours full data at 200 Hz
    - 17 hours full data at 50 Hz
- Streaming via BLE or USB-C
- Synchronization of multiple sensors (<1 ms accuracy)
- Pre-processing and on-chip sensor fusion at 1666 Hz
- Innovative VQF orientation estimation on the IMU
  https://doi.org/10.1016/j.inffus.2022.10.014
- Transport mode: Prevents accidental wake-up and battery drain
- Python SDK (Mac OS, Windows, Linux) and BLE protocol documentation

Capture2Go Docking Station

- Charging of up to four sensors
- Dimensions: 101x38x27 mm
- Weight: 64 g
- Connectivity: USB-C, Hi-Speed
- Supports data transfer from sensors via USB
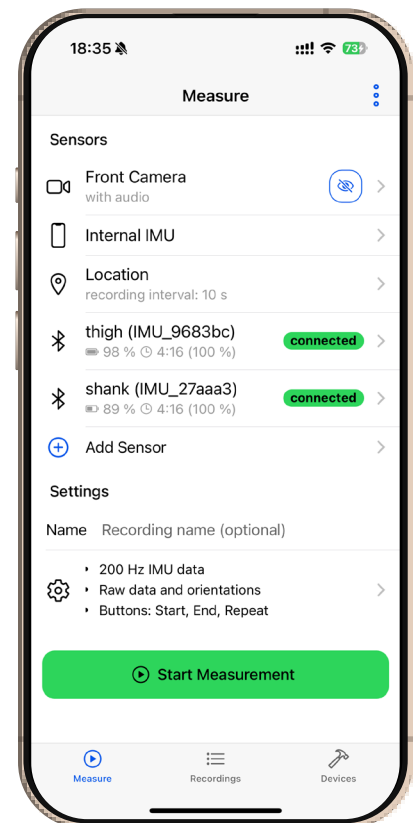- Button to put sensors into transport mode

Capture2Go Straps, Strap Holder, and Foot Clip

- Straps in sizes XS, S, M, L, and XL for placing the sensors on the human body using strap holders
- Foot clip for attaching the sensor to shoes

Capture2Go App

Capture2Go

capture2go.com/app

- Recording with up to 10 Capture2Go IMUs (device-dependent)
- Recording of internal device sensors (camera, microphone, location, internal IMU)
- Annotation during the measurement to mark important events
- Management of different recordings
- Exporting of experiment data as CSV files
- Magnetometer calibration
- Put sensors to sleep or transport mode
- Firmware update of Capture2Go sensors

Contact

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