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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Wearable device | Company | Cost | Placement | Sensors | Run Time | Target Market | Access to Raw data | Notes |
| The Dash | Bragi ltd | EUR 299 | In Ear | * Right side   + Accelerometer   + Gyroscope   + Magnetometer   + Dual PPG * Left side   + Accelerometer   + Gyroscope   http://www.bragi.com/thedash/#techSpecs | Up to 4 hours, depending on usage | Consumer | Not sure  Although  They have a developer website | They do have a website for developers but requires Log in. They did say they will release SDK to developers who signed up on kickstarter when they launch their product. <https://www.youtube.com/watch?v=H_HHt7POSVI>  \*I have emailed them to ask about how to become a developer and what resources will be available. Ie raw data. |
| Fitbit charge 2 (new version released this quarter) | Fitbit | GBP 129 | Wrist | * Accelerometer * PPG * Altimeter * Vibration motor   https://www.fitbit.com/uk/charge2 | Up to 5 days | Consumer | Provides API for their products | Fibit Charge 2 claims to provide continuous HR. but previous generation has bad reviews. |
| Microsoft Band 2 | Microsoft | GBP  160  cheapest on Amazon | Wrist | * PPG * Accelerometer/grro * GPS * Ambient light sensor * Skin temperature * UV sensor * Capacitive sensor * GSR * Barometer   https://www.microsoft.com/microsoft-band/en-gb/features | Up to 48 hours of normal use | Consumer | Did provide SDK.  No more support for developers | They discontinued the support for Microsoft band SDK. But the SDK is still available elsewhere.  The SDK does provide RR interval, but do not have the raw PPG data  \*Seems like they are pulling out of wearable tech |
| E4 wristband | Empatica | USD 1690 | Wrist | * Accelerometer * PPG * Event Mark Button (good for tagging events) * GSR * Skin Temperature * Internal Real Time Clock   https://www.empatica.com/e4-wristband | Memory mode 36+h  Streaming mode 20+h | Research /Medical | Can download data from their secure cloud platform | Easy to access raw data,  Provides Desktop integration and mobile API  \*However, although this wearable seems to be very good as its targeted at for research. It doesn’t really meet the aim of using simple readily available tech for consumers. |
| BodyTrak | Inova | NA | In Ear | * RR intervals * Raw accelerometer data. * Tympanic temperature   <http://www.inovadesign.co.uk/products.html> | 4 hours | N/A | Should be accessible | Risk of Potential delays. Bodytrak could be used as a secondary device. |

AliveCor,

Their products detect ECG by placing their sensors on the wrist or fingers.

Kardia Mobile captures single lead ECG. They claim its medical grade and FDA-cleared

Kardia Band is a Apple watch band which provides on demand heart rate monitoring

https://www.alivecor.com/en/