DIGITAL HEALTH

Non-invasive long-term care platform for aging in place

As the population ages, digital health providers are looking for simple ways to track health at home. This demo shows a comprehensive turnkey health platform that enables non-contact vital sign monitoring. This continuous, non-invasive healthcare tracking solution monitors SpO2 (oxygen saturation), HRV (heart rate variability), and sleep apnea.

Benefits

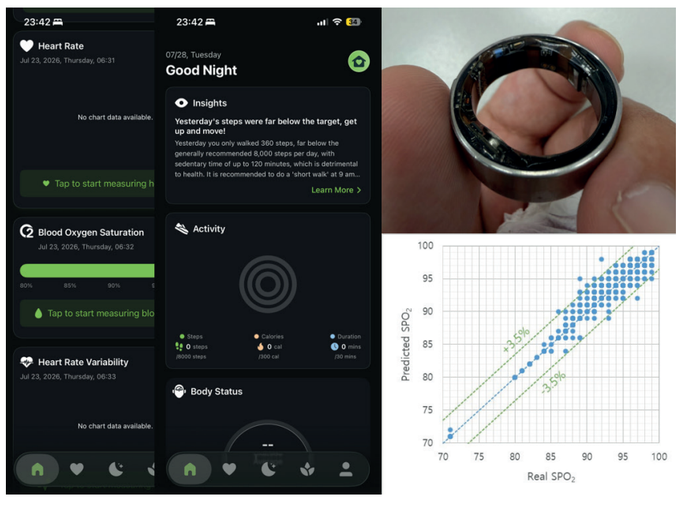
- Contactless and privacy-safe: Continuous heart rate and respiration monitoring with zero cameras or wearables required
- Medical-grade accuracy: High-precision SpO2 and non-invasive glucose trending
- Comprehensive safety: Real-time sleep apnea tracking, motion/presence analysis, and multi-bed occupant safety

Highlight products

- Radar module with our XENSIV™ BGT60TR13C radar sensor and turnkey FMCW solution
- Ultra-lightweight (2–3 g) PPG sensor ring powered by PSOC™ 6 MCU (CY8C624ABZI)

Applications

- Aging in place: Bedside non-contact vital monitoring, sleep quality assessment, and fall alert
- Smart home and baby care: Non-invasive infant breathing tracking and ambient occupant detection
- Automotive in-cabin safety: Child presence detection (CPD) and driver monitoring system (DMS)





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