Impact Technical Resources

SensaNeuro

The proven platform behind your next MedTech wearable

OVERVIEW

SensaNeuro is an EEG headband module within the Sensa platform, built for non-invasive brain activity monitoring and early-stage MedTech validation. Optimized for multi-channel EEG acquisition and stable signal capture, it gives development teams and researchers a proven hardware foundation to start collecting neurophysiological data and testing from day one.

As part of the broader Sensa ecosystem, SensaNeuro connects with SensaSDK and SensaHub - enabling a more efficient path from early neuro signal exploration to a fully customized product tailored to the customer's specific clinical and regulatory needs. Developed under ISO 13485 with processes aligned to IEC 62304.

CORE FEATURES

- **Form Factor**: Flexible headband with adjustable fit
- **Sensors**: EEG multi-channel, PPG, 6-Axis IMU
- **Connectivity**: Bluetooth 5.4 LE
- **Battery Life**: Up to 24 hours per charge
- **SensaSDK**: Raw data access for algorithm & application development
- **SensaHub**: Centralized data collection, visualization & secure download

APPLICATIONS

- EEG-based sleep staging and architecture analysis
- Seizure prediction and detection research
- Cognitive research and attention monitoring
- Mental health monitoring (depression, anxiety markers)
- Brain-computer interface (BCI) research
- Neuroscience clinical trials and studies

SAVE 06 MONTHS OF DEVELOPMENT

READY TO ACCELERATE YOUR MEDTECH PROGRAM?

Weeks 1-4

Phase 1. POC Development

Select SensaNeuro hardware. Develop on SensaSDK. Deploy to beta users. Collect sensor data via SensaHub.

Months 1-3

Phase 2. Funding & Validation

Raise funding with POC proof. Conduct pilot studies. Validate clinical assumptions with real data. Finalize regulatory pathway.

Months 3-9

Phase 3. Product finalization

ITR customizes hardware and optimizes firmware for target use cases. Conduct lab testing. Prepare Design History File and ensure manufacturing readiness.

Months 9-12+

Phase 4. Market preparation

Regulatory submission (FDA/EU MDR). Ramp up manufacturing. Sales and distribution launch. Post-market surveillance.

FULL ACCESS TO RAW BIOSIGNALS FROM DAY ONE

Compliant with international standard

ISO 13485 IEC 62304

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ITR VN hello@itrvn.com www.itrvn.com