

SENSE EVERY MOMENT OF LIFE
守护生命的千万个瞬间

QIANYU

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腕式低频神经刺激手环

WRIST-WORN LOW-FREQUENCY
NERVE STIMULATION BAND



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针对特发性震颤的腕带形态解决方案，医疗标准设计，以非侵入式方式实现震颤频率监测到刺激的闭环调控

A wrist-worn solution for essential tremor, designed with medical standards and enabling non-invasive closed-loop control from tremor-frequency monitoring to stimulation

面向成年特发性震颤患者的非侵入式、可穿戴电刺激治疗设备，用于缓解手部震颤症状。产品由主机、腕带电极和移动端 APP 组成，通过经皮传入模式刺激 (TAPS) 技术，对腕部正中神经和桡神经输出双向低频电脉冲。主机内置传感与控制模块，可采集震颤状态、完成治疗前校准、控制刺激输出并进行异常监测；腕带电极负责稳定贴合皮肤并实现神经区域定位；APP提供设备绑定、校准引导、强度调节、治疗控制、状态查看和记录管理等辅助功能。

A non-invasive, wearable electrical-stimulation device for adults with essential tremor, designed to alleviate hand tremor. The system comprises a control unit, a wristband electrode, and a mobile app. Using transcutaneous afferent patterned stimulation (TAPS), it delivers bidirectional low-frequency electrical pulses to the median and radial nerves at the wrist. The control unit integrates sensing and control modules to measure tremor, perform pre-treatment calibration, regulate stimulation output, and monitor abnormal conditions. The wristband electrode maintains stable skin contact and accurate positioning over the target nerves. The app supports device pairing, guided calibration, intensity adjustment, therapy control, status monitoring, and treatment-record management.



应用场景 APPLICATION SCENARIOS

日常辅助干预

Daily Assistive Intervention



腕表形态，适用于居家、办公等日常场景下的手部震颤辅助管理

A watch-style device designed to support hand-tremor management at home, in the workplace, and in other everyday settings

临床评估随访

Clinical Evaluation & Follow-Up



医生端APP，支持实时刺激参数调节、数据记录与分析、抑制效果观察，辅助临床评估

A clinician-facing app that supports real-time stimulation parameter adjustment, data recording and analysis, and tremor suppression monitoring to assist clinical evaluation



核心优势 KEY ADVANTAGES



非侵入、腕式、小型化

Non-invasive, wrist-worn, miniaturized



检测到刺激输出可形成闭环

Stimulation output can be detected to form a closed loop

适合临床疗效评价与注册证据链建设

Suitable for clinical efficacy evaluation and regulatory evidence-chain development



产品参数 PRODUCT SPECIFICATIONS

参数项 PARAMETER	技术指标 TECHNICAL SPECIFICATION
输出电流调节范围 Output Current Range	0-5mA可调 0-5mA adjustable
最大输出电流 Max Output Current	5mA 5mA
强度步进 Intensity Step	0.1mA 0.1 mA
最大输出电压 Max Output Voltage	2.5V@500Ω、50V@10KΩ 2.5V@500Ω、50V@10kΩ
最大相电荷 Max Phase Charge	1.5uC@500Ω 1.5uC@500Ω
最大平均电流 Max Average Current	0.45mA@500Ω 0.45mA@500Ω
震颤频率范围 Tremor Frequency Range	4-12Hz作为算法覆盖范围 4-12 Hz algorithm coverage range
单次治疗时间 Treatment duration per session	40min 40min