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QIANYU

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神经交互手环

EMG GESTURE AND NEURAL INTERACTION BAND



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面向空间计算、AR终端与具身智能的下一代人机交互入口

Next-generation human-machine interaction interface for spatial computing, AR terminals, and embodied intelligence

佩戴复杂影响真实动作采集
Complex wearing affects natura movement capture

传统肌电设备难以边缘AI
Traditional EMG devices are difficult to deploy with edge AI

VR/AR识别缺少精密识别
VR/AR recognition lacks precise sensing

通过腕带式佩戴与干电极接触，采集前臂多通道肌电与运动姿态数据，为文旅场景沉浸体验、机器人遥操作与运动意图识别、AR场景空间交互等多领域控制提供稳定的数据。结合先进的边缘AI训练和部署技术，实现实时采集、超低功耗数据传输与多终端控制。

Worn as a wristband with dry-electrode contact, the device captures multichannel forearm EMG and motion/posture data, providing reliable input for immersive cultural and tourism experiences, robot teleoperation, motor-intent recognition, augmented-reality spatial interaction, and other control applications. Advanced edge AI enables real-time acquisition, ultra-low-power data transmission, and control across multiple terminals.



应用场景

APPLICATION SCENARIOS

智能手势交互

Intelligent Gesture Interaction



通过腕带采集肌电与 IMU 信号，识别手势意图，实现对虚拟界面、数字内容或智能设备的自然交互控制

The wristband captures EMG and IMU signals to recognize gesture intent and enable natural control of virtual interfaces, digital content or smart devices

具身机器人

Embodied Robotics



将手部动作意图转化为控制指令，用于机械手、康复设备或机器人末端执行器的人机协同

Translates hand-movement intent into control commands, enabling human-machine collaboration with prosthetic hands, rehabilitation devices, and robotic end effectors

文旅场景互动

Cultural-Tourism Interaction



在展陈、教育、文旅等空间中，通过手势完成内容触发、对象选择和互动浏览，提升无接触式交互体验

In exhibition, education, and cultural-tourism spaces, gestures trigger content, select objects, and support interactive browsing, improving touch-free interaction experiences

核心优势

KEY ADVANTAGES

轻量佩戴 使用便捷

Lightweight and easy to wear

干电极接触 减少准备时间

Dry-electrode contact reduces setup time



边缘AI加持

Powered by edge ai

表带材质亲肤透气

Skin-friendly, breathable strap material

产品参数

PRODUCT SPECIFICATIONS

参数项 PARAMETER	指标 SPECIFICATION
主控平台 Main Control Platform	最新一代边缘AI计算平台 Latest-generation edge AI computing platform
采集配置 Acquisition Configuration	500~2000 sps; PGA 1~12; 带宽0~1kHz 500~2000 SPS; PGA: 1~12 ; Bandwidth: 0~1 kHz
信号质量 Signal Quality	短接噪声≤3μVrms; 佩戴静息噪声≤15μVrms; CMRR≥90dB Short-circuit noise ≤3 μVrms; resting wearing noise ≤15 μVrms; CMRR ≥90 dB
通信 Communication	WiFi 6E; 蓝牙BLE 5.4 WiFi 6E; Bluetooth BLE 5.4
续航 Battery Life	连续工作>8h; 待机>16h Continuous operation >8 h; standby >16 h
算法接口 Algorithm Interfaces	自定义手势本地识别; 原始数据、手势事件、校准、设备管理开发接口 On-device recognition of custom gestures; open APIs for raw data, gesture events, calibration, and device management

* 图片展示效果仅供参考，以实物为准。 Images are for reference only. Please refer to the actual product.