

bboni Ai

Bright your future



bboni Ai



The World's Tiniest Endpoint AI Development Device

Empowering AI products with ultra-low power and ultra-high performance to go for the global market!

Bboni AI 內建高精度動作感測器，搭載奇景 WiseEye2 AI 處理器，可於裝置端即時完成動作分析、姿態辨識及行為判讀，無需仰賴雲端傳輸。透過低延遲、高效率且具備隱私保護的設備端本地 AI 推理能力，實現真正可落地、可擴展的 Endpoint AI 解決方案。Bboni AI 不僅提升系統穩定性，更符合醫療、教育等對資料即時性與安全性要求嚴格的應用場域。

Bboni AI integrates high-precision motion sensors and is powered by the Himax WiseEye2 AI processor, enabling real-time on-device motion analysis, posture recognition, and behavioral interpretation—without relying on cloud transmission. With ultra-low latency, high efficiency, and built-in privacy protection, Bboni AI delivers a truly deployable and scalable Endpoint AI solution. It enhances system stability while meeting the stringent requirements of fields like healthcare and education, where data immediacy and security are critical.

Fast Production – Your Vision Takes Flight!



創意不只是想法，Bboni AI 幫你快速實現
Join the Innovation Wave Now!

模組化設計：整合IMU感測器與 AI處理器
即插即用：支援 Arduino、ESP32、Raspberry Pi
AI Ready：內建 Tiny AI 推論引擎 (TFLite)
超低功耗：適合長時間應用
可程式化：AI 快速模型搭載
支援量產：轉製、模具、智慧穿戴、整合開發

Modular Design: Integration of behavior recognition sensors and AI algorithms
Plug-and-Play :Compatible with Arduino, ESP32, and Raspberry Pi
AI Ready: Built-in Tiny AI inference engine (TFLite supported)
Ultra-Low Power: Ideal for long-duration applications
Programmable: Supports fast deployment of AI models
Production-Ready: Covers board design, molding, smart wearables, and full-stack integration

健身/運動訓練輔助
長照/療復健
智慧教學/動作學習
遊戲控制器/體感互動
工業監測/偵測紀錄

Fitness and Athletic Training
Long-Term Care and Rehabilitation
Intelligent Teaching for Movement Learning
Interactive Gaming Controller
Industrial Surveillance and Monitoring



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感測參數			
Gyro Full Scale Range	Gyro Sensitivity	Accel Full Scale Range	Accel Sensitivity
(dps)	(LSB/°/sec)	(g)	(LSB/g)
±15.6	2097.2		16384
±31.2	1048.6		8192
±62.5	524.3	±2	4096
±125	262	±4	2048
±250	131	±8	
±500	65.5	±16	
±1000	32.8		
±2000	16.4		

感測元件

IC M-42688-P
3軸加速度計 3 軸陀螺儀

AI元件

WiseEye2(WE2) AI processor
HX6538-A0 ПТВА

外觀尺寸

4.4 x 4.4 x 1.5 cm
(不含背夾)

電池容量
充電方式

200mAh 鋰離子充電電池
Type-C 充電

無線傳輸

nRF52840 BLE Module
Bluetooth 5.3

充電時間

30 分鐘

支援作業
系統

藍芽：Android/IOS
USB：系統Windows 7以上



The device displays the charging indicator lights **only** when powered on.
In connected mode, developers can control the **color and blinking pattern** of three LEDs,
enabling rich and customizable feedback effects.



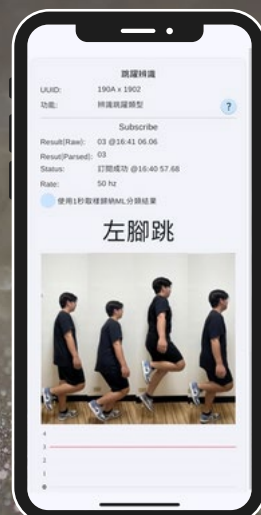
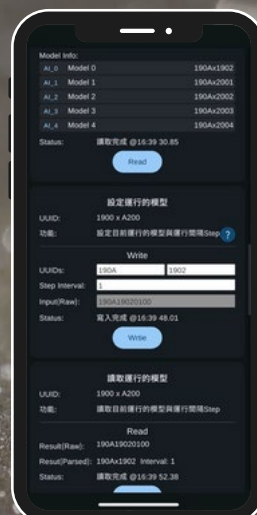
IMU Data Recording



Setup AI Model



AI Model Inference



Contact: Rabboni Co., Ltd. +886- 3- 5733 110