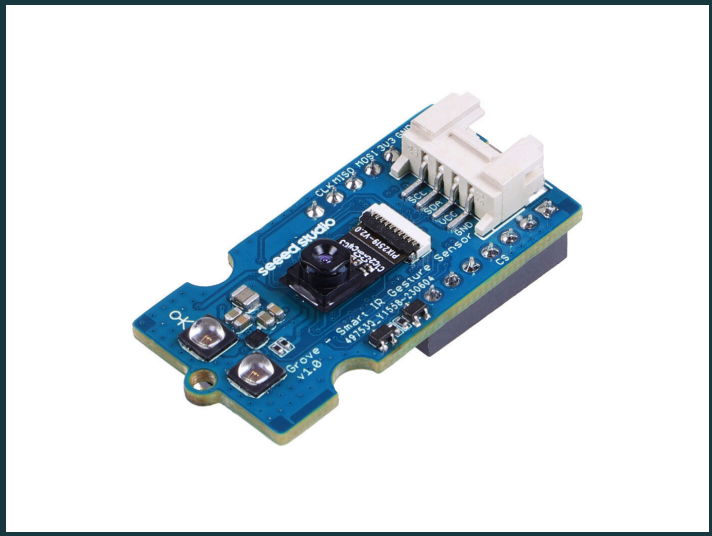
seeed studio

INDUSTRIAL PRODUCT DATASHEET

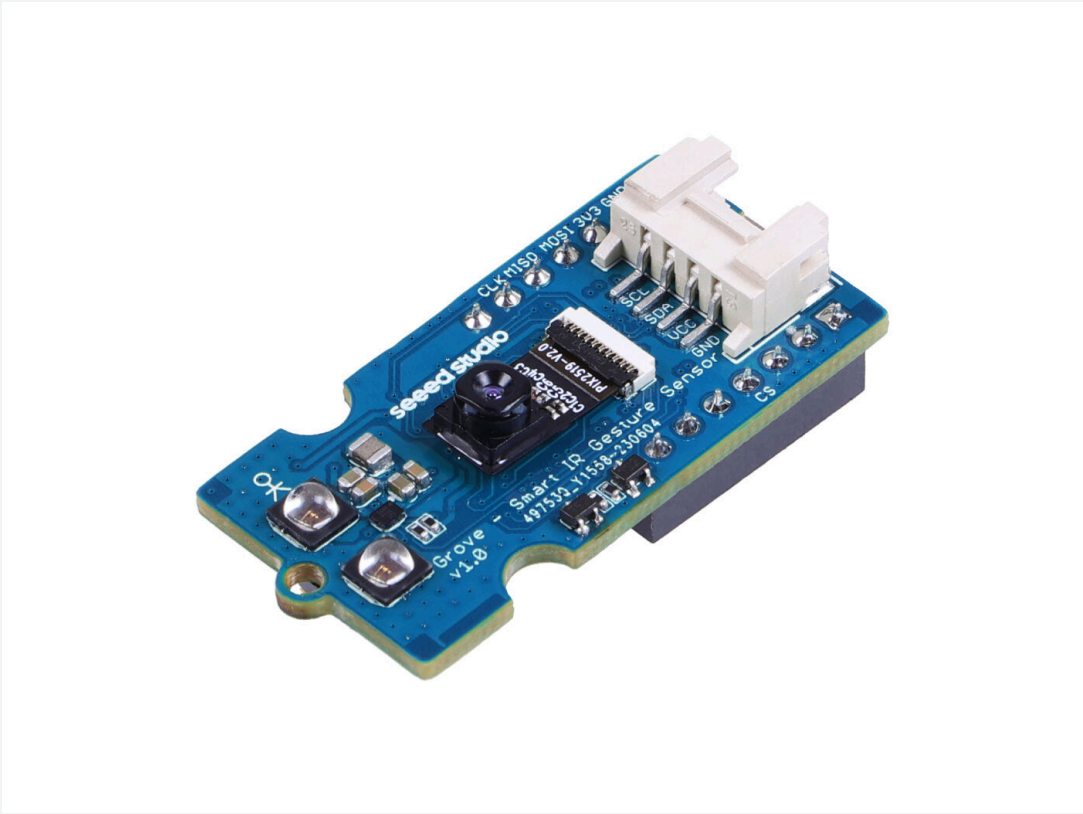
Grove Smart IR Gesture Sensor

Grove Smart IR Gesture Sensor is an intelligent gesture recognition module equipped with an infrared camera sensor and applied AI algorithm.

SKU	UPDATED	PRICE
101991067	2026-11-11 08:58:43	$17.99(Excl. VAT)



Overview



Grove Smart IR Gesture Sensor is an intelligent gesture recognition module equipped with an infrared camera sensor and applied AI algorithm. It can detect over 15 gestures with wide detection while supporting both IIC and SPI communication. This module also allows Grove, Type-C, and Seeed Studio XIAO direct connecting.

Key Features

01

15+ Built-in Hand Gesture Recognition

Recognize over 15 built-in hand gestures including swipe, pinch, tap, grab, rotation, thumb up/down and static gestures. No model training or algorithm development is required, allowing developers to quickly add gesture interaction to their projects.

02

Ready to Use — No Vision Algorithm Required

Built-in AI gesture recognition eliminates the need for OpenCV, camera calibration or model training. Simply connect to your MCU and receive gesture results directly through I²C.

03

Easy Integration with Grove and XIAO

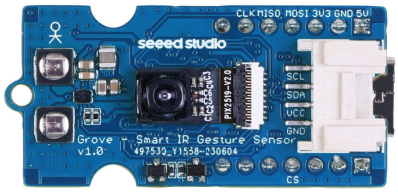
Supports Grove and Seeed Studio XIAO interfaces for quick connection through I²C. Images can also be transmitted to a PC through the USB Type-C interface, making development, debugging and evaluation easier.

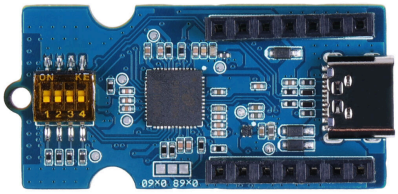
04

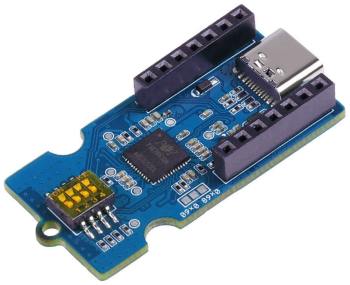
Reliable Gesture Detection in Different Lighting Conditions

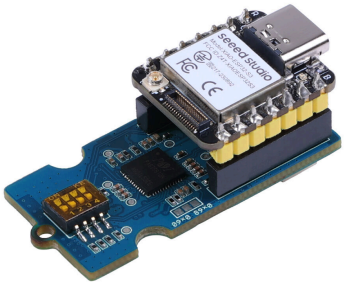
Equipped with an infrared camera and onboard LED fill light, the sensor delivers stable gesture recognition in both bright and low-light environments with a detection range of 5–40 cm.

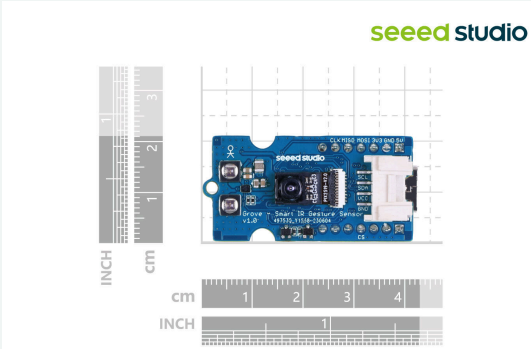
Product Gallery











Applications

- **Wireless Gesture Interaction**
- **Light Switch**
- **Function Panel Switch**
- **PPT interaction**
- **Robot Control**
- **Music Player Control**

Resource Links

- https://www.seeedstudio.com/Grove-Smart-IR-Gesture-Sensor-p-5721.html
- Multi-Object Gesture demo AP_UG_v1.0.pdf
- Multi-Object Gesture demo Software.zip
- PAG7646J1 General Product Datasheet.pdf
- PAG7661QN General Product Datasheet.pdf
- PAJ7620U2_DS_v1.5_05012022_Confidential.pdf

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