

iBG535 - Convenient, Contactless Air Gesture Control - iBG Module

Non-Contact Air Gesture Operation



In some situations, it may not be necessary or even possible to pay full attention, yet interaction with the device is still required. In other cases, only simple and intuitive controls (such as volume adjustment) are needed, without the hassle of more complicated operation methods. In these scenarios, non-contact air gestures are an excellent choice. iBG provides a simple and parameterizable way to define gestures, allowing for intuitive and effortless operation through air gestures. The principle involves capturing the dynamic changes of 微弱 signals from moving objects (gestures) within a defined electrostatic field range. The iBG algorithm then identifies different gestures and uses them to perform relevant HMI (Human-Machine Interface) controls.

Specifications and Features:

- The electric field range (height) is conservatively estimated to be from zero to five centimeters.
- The implementation range is conservatively set from 3.5 inches squared to 7 inches squared.
- Approximately 10 gestures are built-in, and additional gestures can be customized via the GUI.
- Connection to the backend is facilitated through USB or I2C.
- High quality yet not expensive.

Please refer to the relevant module specifications :

- **iBG535**
- **iBGS2412**