Hand gestures are mainly acquired by wearable devices and camera devices presently[]. Though direction- and velocity-based wearable devices have the advantage of convenience and portability[], the devices are complex. Camera-based technology is capable of detecting fine-grained visual features[], but cannot protect our privacy.

Although the camera device has high recognition accuracy for gestures, its reliability will be reduced under poor lighting conditions. In addition, it can not protect our privacy.

physiological-based wearable sensors are protable and