

## Operating Instructions

### 1. Overview

#### Wireless mode:

MCU (74HC165) after collecting the wake-up button, it starts to work. Press SYNC key, MCU sends pairing instructions to Bluetooth (ZC32RF1M), handles will enter pairing mode. After matching, the MCU will remember the Bluetooth address of the host, and then reconnect and press the HOME button to connect back.

MCU uploads the collected keys or values of 3D and gyroscope to the host via Bluetooth. The host sends the LED light and vibration information to the handle through Bluetooth. When the MCU of the handle receives the instructions, it controls the mode of lighting the LED lamp module and the mode of vibration of the vibration module.

#### Wired mode:

At this point Bluetooth goes to sleep. MCU connects to host via USB. Upload keys or 3D and gyroscope values to the host. The host transmits the indicator lamp and vibration function to MCU through USB. And charge the handle battery.

BT/BLE: 2402MHz-2480MHz

BT: GFSK,  $\pi/4$ DQPSK, 8DPSK

BLE: GFSK

Antenna Type: PCB antenna

Antenna Gain: -2.3dBi

Crystal: 26MHz