

Appendix F

Wiring instructions

- 1.KV-037: The sound sensor (KV-037) uses pin A0 connected to pin A3 of slave2
- 2.LCD1602:LCD1602 adopts 4-bit data line connection method, and uses D4 ~ D7 to transmit data. D4 to D7 of LCD1602 correspond to D4 to D7 of slave1, RS pin is connected to D9 of slave1, RW is connected to GND, E is connected to D8 of slave1, and V0 is connected to D5 of slave2
- 3.SD module: The MISO, MOSI, SCK, and CS of the SD module are connected to the ICSP pin on slave1
- 4.ISD1820: The ISD1820 recording voice module is only connected to VCC and GND
- 5.SV5W: The TX pin of the SV5W voice module is connected to pin D10 of the master, RX is connected to pin D11 of the master, GND and BUSY are connected to GND, and the serial port mode is configured as con1-0, con2-0, and con3- 1
- 6.The devices using IIC and SPI communication are connected to the corresponding IIC and SPI pins