



树莓派高级版套件

<http://keyes-robot.taobao.com>

## 1 遥感模块实验

1实验操作过程:

```
pi@raspberrypi: ~/keyes_树莓派高级版套件资料/PS2游戏摇杆模块/PS2.c
pi@raspberrypi ~$ cd keyes_树莓派高级版套件资料/PS2游戏摇杆模块/
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PS2游戏摇杆模块$ ls
PS2.c
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PS2游戏摇杆模块$ vi PS2.c
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PS2游戏摇杆模块$ gpio readall
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2   | 8   | SDA.1    | ALT0 | 1 | 3        | 4 |      | 5V       |     |     | |
| 3   | 9   | SCL.1    | ALT0 | 1 | 5        | 6 |      | 0v       |     |     |
| 4   | 7   | GPIO. 7   | IN    | 0 | 7        | 8 | 1    | ALT0     | TxD  | 15  | 14  |
|     |     | 0v       |      |   | 9        | 10| 1    | ALT0     | RxD  | 16  | 15  |
| 17  | 0   | GPIO. 0   | IN    | 0 | 11       | 12| 1    | ALT5     | GPIO. 1 | 1  | 18  |
| 27  | 2   | GPIO. 2   | IN    | 0 | 13       | 14|      |          | 0v   |     |     |
| 22  | 3   | GPIO. 3   | IN    | 0 | 15       | 16| 0    | IN       | GPIO. 4 | 4  | 23  |
|     |     | 3.3v     |      |   | 17       | 18| 0    | IN       | GPIO. 5 | 5  | 24  |
| 10  | 12  | MOSI     | ALT0 | 0 | 19       | 20|      |          | 0v   |     |     |
| 9   | 13  | MISO     | ALT0 | 0 | 21       | 22| 0    | IN       | GPIO. 6 | 6  | 25  |
| 11  | 14  | SCLK     | ALT0 | 0 | 23       | 24| 1    | ALT0     | CE0   | 10  | 8   |
|     |     | 0v       |      |   | 25       | 26| 1    | ALT0     | CE1   | 11  | 7   |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 28  | 17  | GPIO.17   | IN    | 0 | 51       | 52| 0    | IN       | GPIO.18 | 18 | 29  |
| 30  | 19  | GPIO.19   | IN    | 0 | 53       | 54| 0    | IN       | GPIO.20 | 20 | 31  |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| BCM | wPi |   Name   | Mode | V | Physical | V | Mode |   Name   | wPi | BCM |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PS2游戏摇杆模块$ gcc PS2.c -o PS2 -lwiringPi
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PS2游戏摇杆模块$ ls
PS2 PS2.c
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PS2游戏摇杆模块$ sudo ./PS2
Raspberry Pi - Quick2Wire Analog Test
value=130 value=127 value=0
value=129 value=127 value=0
value=129 value=127 value=0
value=129 value=127 value=0
value=129 value=127 value=0
^Cpi@raspberrypi ~/keyes_树莓派高级版套件资料/PS2游戏摇杆模块$
```

2实验源程序:

```
pi@raspberrypi: ~  
1 //   
2 * bright.c:   
3 * Vary the Q2W LED brightness with the analog card   
4 *   
5 * Copyright (c) 2012-2013 Gordon Henderson. <gordonh@riscopen.com>   
6 * *****   
7 * This file is part of wiringPi:   
8 * http://gordonhendonson.com/raspberry-pi/wiringPi/   
9 *   
10 * wiringPi is free software: you can redistribute it and/or modify   
11 * it under the terms of the GNU Lesser General Public License as published by   
12 * the Free Software Foundation, either version 3 of the License, or   
13 * (at your option) any later version.   
14 *   
15 * wiringPi is distributed in the hope that it will be useful,   
16 * but WITHOUT ANY WARRANTY; without even the implied warranty of   
17 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the   
18 * GNU Lesser General Public License for more details.   
19 *   
20 * You should have received a copy of the GNU Lesser General Public License   
21 * along with wiringPi. If not, see <http://www.gnu.org/licenses/>.   
22 * *****   
23 */   
24   
25 #include <stdio.h>   
26 #include <wiringPi.h>   
27 #include <pcf8591.h>   
28   
29 #define LED 1   
30 #define Q2W_ABASE 120   
31 /*#define Q2W_ABASE 121   
32 /*#define Q2W_ABASE 122   
33 int main (void)   
34 {   
35     int value ;   
36     int value1;   
37     int value2;   
38   
1,1 Top
```

3实验效果:

```
pi@raspberrypi: ~/keyes_鑲裝板焗鷄聯編x增濃榆欢望勤枰/PS2焗告坑鑲困湮焯"激
pi@raspberrypi ~/$ sudo ./PS2
Raspberry Pi - Quick2Wire Analog Test
value=129 value=127 value=0
value=129 value=128 value=0
value=129 value=127 value=0
value=129 value=127 value=0
value=255 value=255 value=0
value=255 value=255 value=0
value=255 value=255 value=0
value=255 value=255 value=0
value=129 value=127 value=0
value=129 value=127 value=0
value=129 value=127 value=0
value=129 value=127 value=0
value=0 value=0 value=0
value=0 value=0 value=0
value=0 value=0 value=0
value=0 value=0 value=0
value=0 value=0 value=0
value=129 value=127 value=0
value=129 value=127 value=0
value=129 value=127 value=0
value=126 value=255 value=0
value=129 value=255 value=0
value=129 value=255 value=0
value=129 value=157 value=0
value=129 value=127 value=0
value=129 value=0 value=0
value=129 value=0 value=0
value=129 value=135 value=0
value=129 value=128 value=0
value=129 value=127 value=255
value=130 value=128 value=255
value=129 value=127 value=0
value=131 value=127 value=0
value=126 value=128 value=0
value=130 value=127 value=255
value=130 value=128 value=255
value=129 value=127 value=0
```

4实验接线图:

