8 HC-SR04 ultrasonic module

1 Project process:

2 Project source code:

```c
#include <wiringPi.h>
#include <stdio.h>
#include <sys/time.h>

#define Trig      4
#define Echo      5

void ultraInit(void)
{
        pinMode(Echo, INPUT);
        pinMode(Trig, OUTPUT);
}

float disMeasure(void)
{
        struct timeval tv1;
        struct timeval tv2;
        long start, stop;
        float dis;

        digitalWrite(Trig, LOW);
        delayMicroseconds(2);

        digitalWrite(Trig, HIGH);
        delayMicroseconds(10);          //发出超声波脉冲
```

                                                                    1,1   Top

3 Result

```
pi@raspberrypi ~/keyes_树莓派高级版套件资料/HC-SR04 $ sudo ./HC-SR04
distance = 9.49 cm
distance = 11.00 cm
distance = 11.05 cm
distance = 10.56 cm
distance = 10.49 cm
distance = 11.00 cm
distance = 10.03 cm
distance = 9.16 cm
distance = 8.06 cm
distance = 5.85 cm
distance = 4.73 cm
distance = 4.18 cm
distance = 6.00 cm
distance = 6.73 cm
distance = 8.81 cm
distance = 11.03 cm
distance = 12.36 cm
distance = 12.78 cm
distance = 15.49 cm
^Cpi@raspberrypi ~/keyes_树莓派高级版套件资料/HC-SR04 $
```

4 Project circuit connection

Connection diagram

```
GND--------GND
Echo-------5
Trig-------4
Vcc------█--5V
~
~
~
```