





Ultrasonic Ranging Module

HC-SR04

Ultrasonic ranging module HC - SR04 provides 2cm - 400cm non-contact measurement function, the ranging accuracy can reach to 3mm. The modules includes ultrasonic transmitters, receiver and control circuit. The basic principle of work:

- Using IO trigger for at least 10us high level signal
- The Module automatically sends eight 40 kHz and detect whether there is a pulse signal back.
- IF the signal back, through high level, time of high output IO duration is the time from sending ultrasonic to returning.

Test distance = (high level time×velocity of sound (340M/S) / 2

Ultrasonic Ranging Module For BBC micro:bit

ELECTRIC PARAMETERS

Working Voltage DC 5 V

Working Current 15mA

Working Frequency 40Hz

Max Range 4m

Min Range 2cm

MeasuringAngle 15 degree

Trigger Input Signal 10uS TTL pulse

Echo Output Signal Input TTL lever signal and the range in proportion

Dimension 45*20*15mm

Wire connecting direct as following:

- 5V Supply
- Trigger Pulse Input
- Echo Pulse Output
- **OV** Ground









