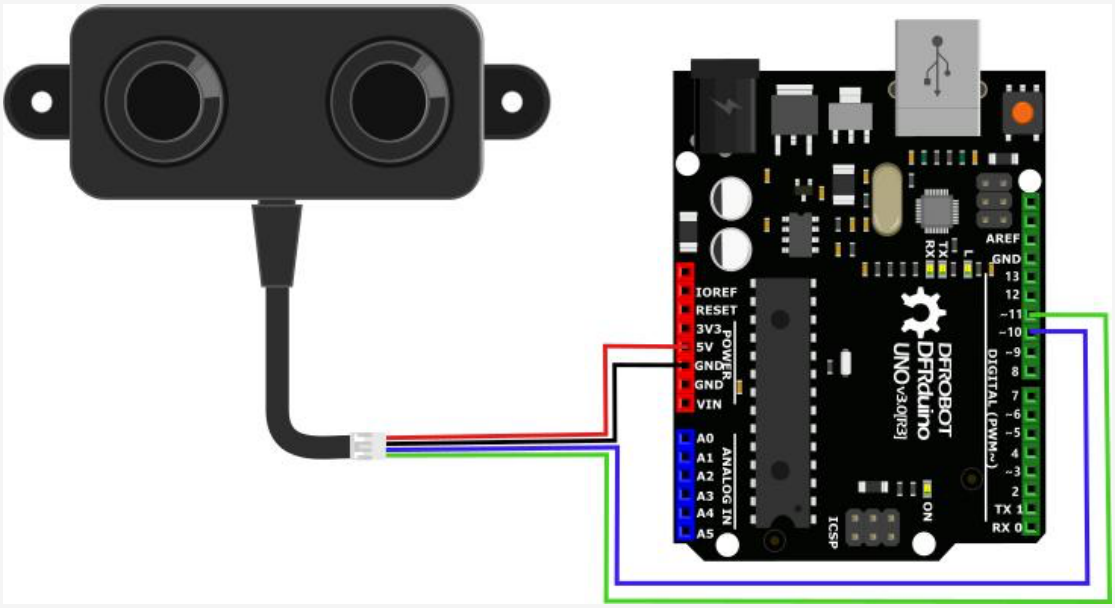
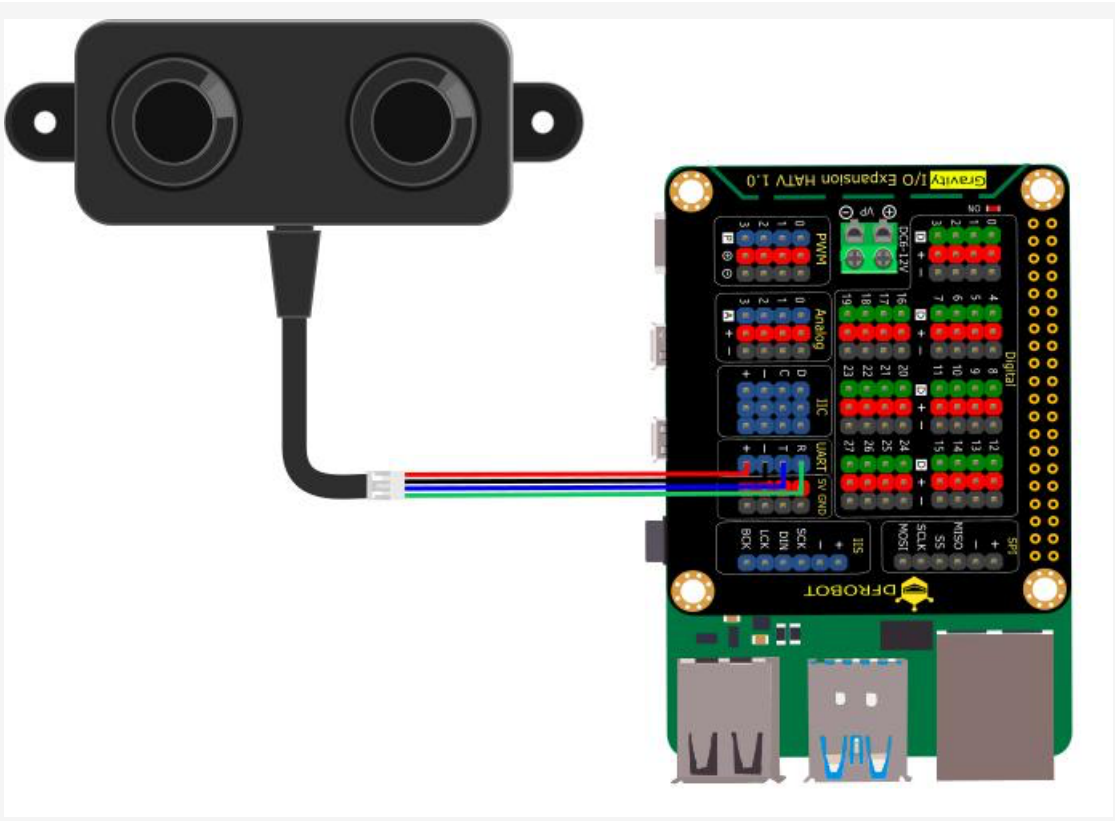
# INTRODUCTION

Ultrasonic distance sensor determines the distance to a target by measuring time lapses between the sending and receiving of the ultrasonic pulse. This is an easy-to-use commercial-grade ultrasonic sensor module of high performance and reliability, featuring much smaller blind zone, wider sensing angle and a certain penetration power(smog, dust) compared with other similar sensors .



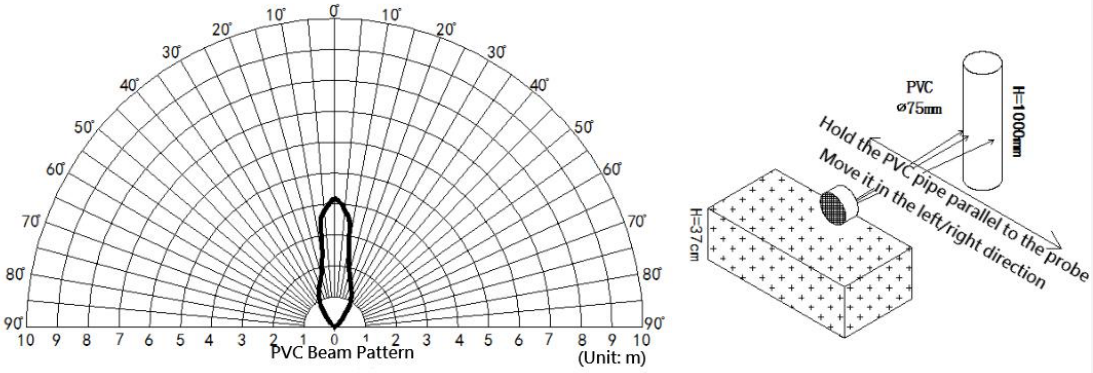

**Connection with Arduino**

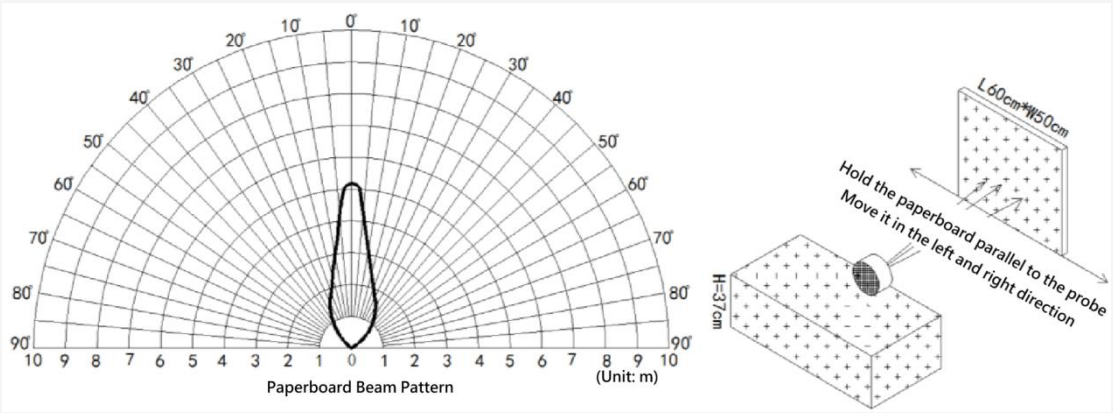
The ultrasonic sensor adopts closed separated probe, waterproof and dustproof, which could be well suitable for harsh and moist measuring environment. All the signal processing units are integrated inside the module, so users can directly obtain the distance value through Asynchronous Serial Interface. With 9600bit/s band rate, the sensor can easily communicate with upper-host or other MCU, which greatly shortens the developing cycle for users.



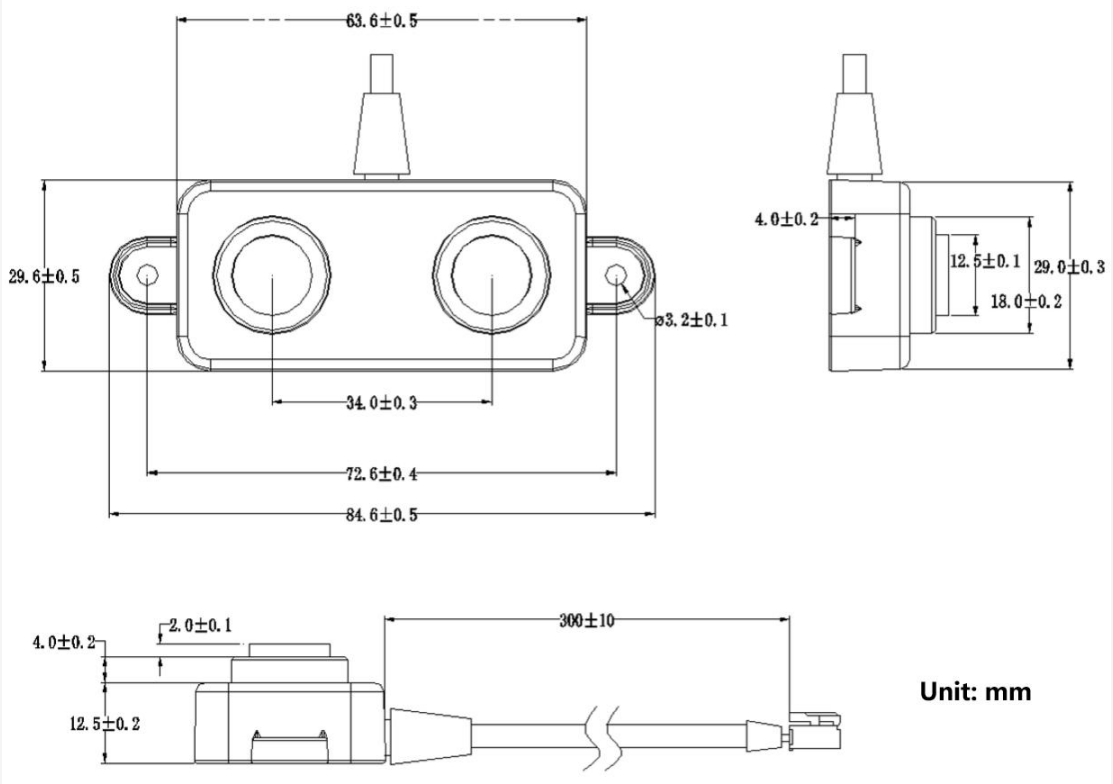

**Connection with [Raspberry Pi]**

Use the sensor with [Arduino] controller to build up your projects, such as backing car annunciator, obstacle avoidance [robot,] object approaching detection etc.






**Beam Directionalities Diagram**




**Dimension Diagram**

# SPECIFICATION

- Accuracy: ±1cm
- Operating Voltage: 3.3~5V
- Average Current: <8mA
- Blind Zone Distance: 3cm
- Detecting Range(Flat object): 3-450cm
- Output: UART
- Response Time:100ms

- Operating Temperature: -15~60℃
- Storage Temperature: -25~80℃
- Reference Angle: 60º
- Waterproof Grade: IP67

## DOCUMENTS

- Product wiki

## SHIPPING LIST

- A02YYUW Waterproof Ultrasonic Sensor x1
- PH2.0-4P Connector x1