

# Ultrasonic

SKU:U098



## Description

**Ultrasonic** is an ultrasonic distance measuring sensor unit, with the capability of simultaneous reception and transmission. The ultrasonic probe has a sound frequency of 40KHz, a direction angle of  $\pm 20^\circ$  and an accuracy of 1mm. The internal part is calculated by an RCWL-9600 ultrasonic distance measuring chip, and the measurement results can be directly obtained through I2C interface (0x57). The effective distance is 30 - 150cm.

## Product Features

- Split transceiver
- 30 - 150cm distance effectiveness
- Wide angle range
- I2C communication, result output directly

## Includes

- 1x Ultrasonic Unit
- 1x Grove Cable(20cm)

## Application

- Measuring distance
- Avoid obstacles

## Specification

| Resources                           | Parameter  |
|-------------------------------------|------------|
| Ranging chip                        | RCWL-9600  |
| Communication protocol              | I2C: 0x57  |
| Measuring distance                  | 30 - 150cm |
| Sound pressure level of transmitter | 108dB      |
| Accuracy                            | 1mm        |
| Blind area                          | 20mm       |
| Receiver sensitivity                | -68dB      |
| Net Weight                          | 9g         |
| Gross Weight                        | 23g        |
| Product Size                        | 56*24*12mm |
| Package Size                        | 60*55*16mm |

## EasyLoader

EasyLoader is a concise and fast program writer, which has a built-in case program related to the product. It can be burned to the main control by simple steps to perform a series of function verification.

[Download Windows Version Easyloader](#)

[Download MacOS Version Easyloader](#)



### Description:

Measuring distance

## PinMap

| M5Core(PORT A)  | GPIO22 | GPIO21 | 5V | GND |
|-----------------|--------|--------|----|-----|
| Ultrasonic Unit | SCL    | SDA    | 5V | GND |

## Related Link

- [Ceramic Ultrasonic Sensor TC40-10T/R](#)

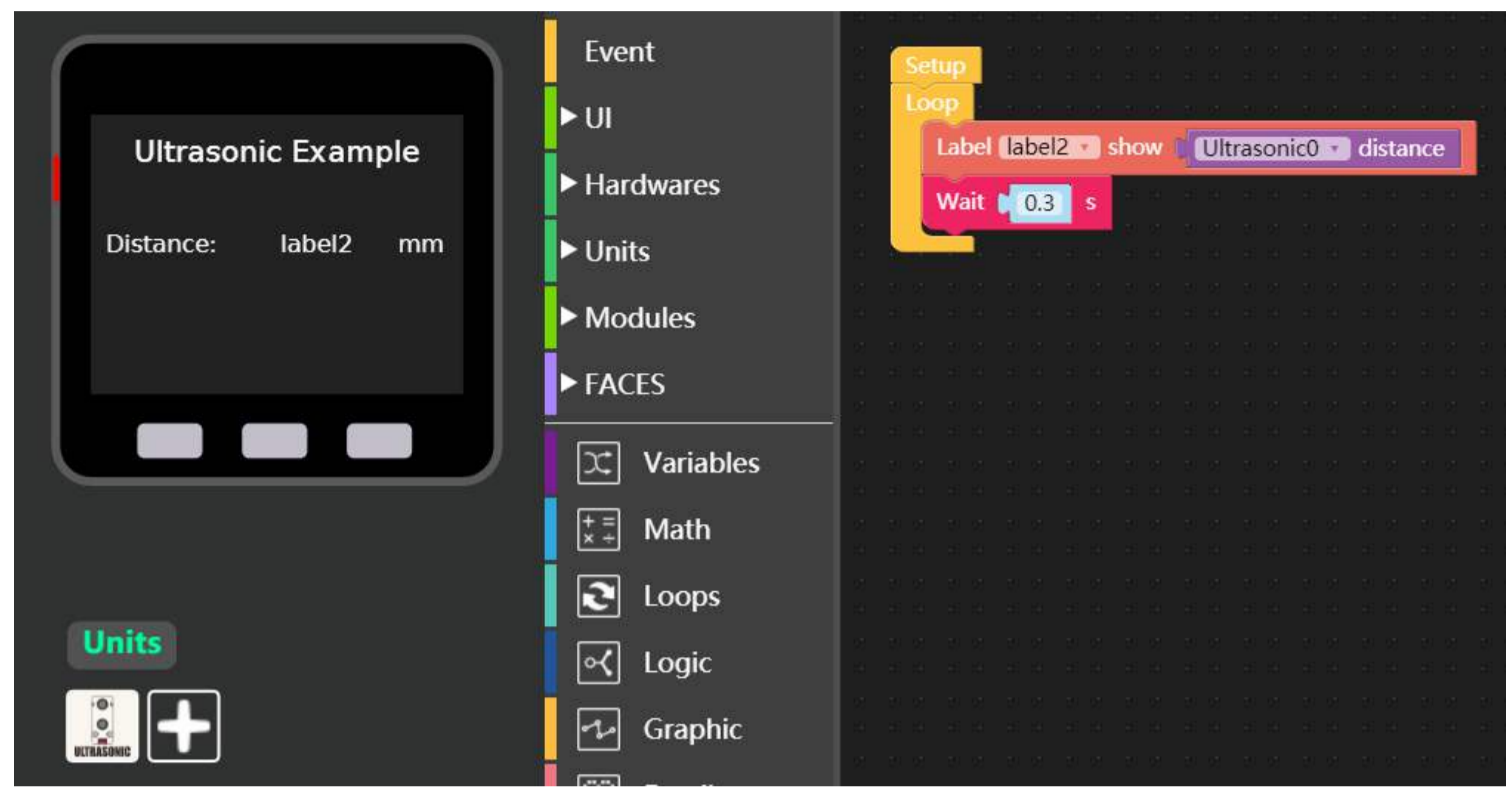
## Example

# Arduino

- Click [here](#) to download code

# UIFlow

- [Click here to download the UIFlow example](#)



Last updated: 2020-12-14