Ultrasonic Sensor   IMU-100
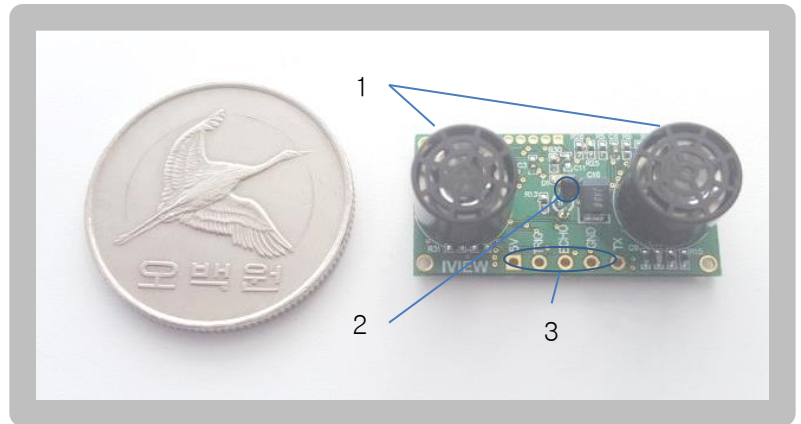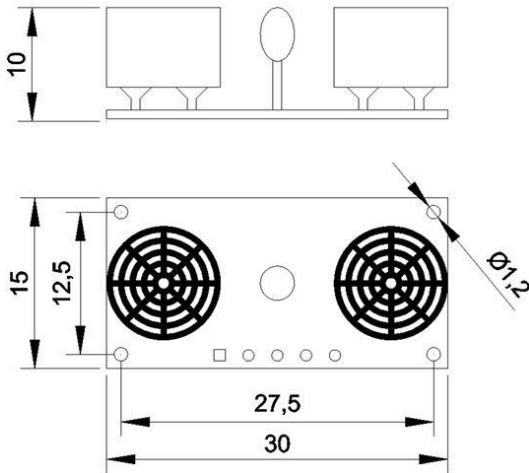
IUM-100 is the world's smallest dual type ultrasonic sensor module. It is also the first temperature compensation circuit capable of speed compensation of ultrasound. The use of ultra-high-priced parts maximizes safety. (Do not compare with Chinese parts.)

With various mode support, it can be applied to various applications such as Arduino.

■ Mechanical Dimension

1 Ultrasonic Transmitter & Receiver
2 Temperature Sensor
3 In-Out Port

■ Description

It is possible to measure distances ranging from 2cm to 6M at the minimum, and it is also possible to compensate for changes in speed depending on the temperature of the ultrasonic waves for the first time. It is fully compatible with the current Arduino-related ultrasound module, and mode conversion is achieved by using a simple hardware jumper.

In various modes, functions such as precision measurement and moving object detection can be implemented. The use of high-reliability parts boasts unparalleled quality compared to those made in China.

■ Electrical/Physical Characteristics

Category	Item	Specification	Unit	Conditions
Electrical	Input Voltage	5	V	@DC
	Current consumption	Typ. 16	mA	@Max. (13mA : Pulse 50ms)
	Frequency	40	kHz	
Physical	Measuring Distance	0.02 ~ 5	m	@Trigger, Free Run Mode @Object Detector Mode(6m)
	Beam width	80±15	°	
	Dimension	30X15X10	mm³	