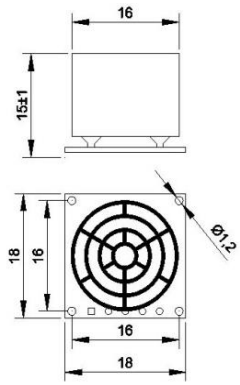
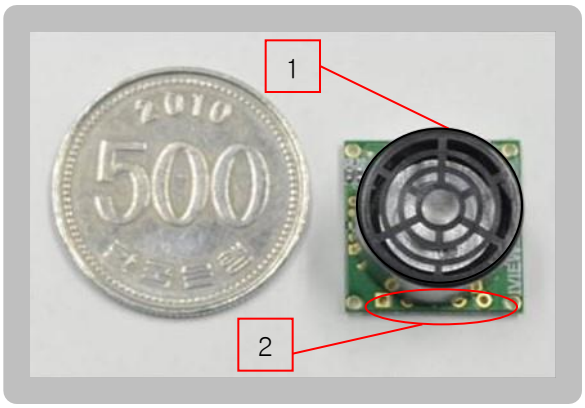
Ultrasonic Sensor IMU–D16

IMU-D16 are ultra-small single type ultrasonic sensor modules. By automatically calibrating the temperature compensation circuit with ultrasonic speed, more accurate distance measurement is possible. The use of ultra-high-priced parts and the use of digital processing methods have significantly reduced parts to minimize the possibility of defects. With various mode support, it can be applied to various applications such as Arduino.

Mechanical Dimension





1 Ultrasonic Transmitter & Receiver 2 In-Out Port

Description

It is possible to measure distances ranging from a minimum of 24 cm to a maximum of 6.5 M, and for the first time it is possible to compensate for changes in speed depending on the temperature of the ultrasound. It is fully compatible with the current Arduino related ultrasonic module and mode conversion is done with a simple command. In various modes, functions such as precision measurement and moving object detection can be implemented.
It boasts high quality by using highly reliable parts.
It can be used for sending, receiving, sending and receiving by changing commands, and it is possible to configure various arrays by daisy chaining up to 15.

Electrical/Physical Characteristics

Category	Item	Specification	Unit	Conditions
Electrical	Input Voltage	3.3 ~ 12	V	@DC Typ. 5V
	Current consumption	Typ. 8	mA	@Max. (13mA : Pulse 50ms)
	Frequency	40	kHz	
	Output	Trig out & UART		@ Trig. Pulse Width 10us @3.3~5V(UART)
Physical	Measuring Distance	0.27 ~ 6	m	@Trigger, Free Run Mode @Object Detector Mode(6m/6.5m)
	Beam width	70±15	°	
	Dimension	18X18X15	mm^3	

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