



# SmartSonic™

## PRIMARY APPLICATIONS



### Smart Lock

Always-on battery powered smart locks utilize ultra-low power Ultrasonic ToF sensors to enable feature-rich smart locks



### Presence Detection

Ultra-low power and low latency Ultrasonic ToF sensors detect presence and minor motion in any lighting condition



### AR & VR

Compact, low-power ultrasonic ToF sensors enable user experiences in gaming under any lighting conditions



### Robotic/RVC

Ultrasonic ToF sensors enable cliff detection, material composition identification, and obstacle avoidance

## FEATURED PRODUCTS

### ICU-20201



Ultrasonic Time-of-Flight Range Sensor, ideal for measuring the range of objects between 20 cm and 5m, and offers a customizable field-of-view of up to 180°

## PRODUCT CATEGORIES

### ICU-20201

#### Long Range Sensor

High-performance ultrasonic Time-of-Flight sensor that is ideal for measuring the range of objects between 20cm and 5m.

High flexibility thanks to a large amount of embedded program and data memory.

### CH101

#### Short Range Sensor

Accurate range measurements to targets at distances up to 1.2m. The sensor works in any lighting condition and provides millimeter-accurate range measurements independent of the target's color and optical transparency.

### CH201

#### Long Range Sensor

Accurate range measurements to targets at distances up to 5 m. Using ultrasonic measurements, CH201 works in any lighting condition from full sunlight to complete darkness, providing millimeter-accurate range measurements independent of the target's color & optical transparency. Its wide Field-of-View can be customized and enables simultaneous range measurements to multiple objects.

## PRODUCT DETAILS

Product Number	Package Size (mm)	Range (m)	Current Consumption (1 sample/s, 1m range)	Interface	Comments
ICU-20201	3.5 × 3.5 × 1.26	Up to 5	26 µA	SPI 13 MHz	Field-of-View (FoV): Configurable Up to 180°
CH101	3.5 × 3.5 × 1.26	Up to 1.2	15 µA	I <sup>2</sup> C	Field-of-View (FoV): Configurable Up to 180°
CH201	3.5 × 3.5 × 1.26	Up to 5	13.5 µA	I <sup>2</sup> C	Field-of-View (FoV): Configurable Up to 180°



Scan Here for additional materials and information.