

SmartSonic™

PRIMARY APPLICATIONS



Presence Detection

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



Smart Lock

Always-on battery-powered smart locks utilize ultra-low power Ultrasonic ToF sensors to enable a rich variety of features



Liquid Level

Contactless, low-power ultrasonic ToF sensors enable remote liquid level measurements and touchless water dispensing



Robotics / Drones / RVC

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

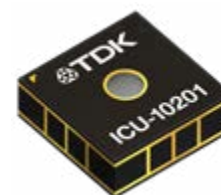
FEATURED PRODUCTS

ICU-20201



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

ICU-10201



High performance ultrasonic Time-of-Flight Range Sensor, ideal for measuring the range of objects between 3 cm and 1.2 m; offers a customizable field-of-view of up to 180°

PRODUCT CATEGORIES

ICU-20201

High performance Long Range Sensor

- High-performance ultrasonic Time-of-Flight sensor that is ideal for measuring the range of objects between 20 cm and 5m
- High flexibility thanks to large amounts of embedded program and data memory
- Works in any lighting condition from full sunlight to complete darkness, providing millimeter-accurate range measurements

ICU-10201

Short Range Sensor

- High-performance ultrasonic Time-of-Flight sensor that is ideal for measuring the range of objects between 3cm and 1.2m.
- Accurate range measurements with sub-millimeter resolution to target at distance up to 70cm
- Works in any lighting condition and provides millimeter-accurate range measurements independent of the target's color and optical transparency

PRODUCT DETAILS

Product Number	Package Size (mm)	Range (m)	Current Consumption (1 sample/s, 1m range)	Interface	Field of View (FoV) (degrees)
ICU-20201	3.5 × 3.5 × 1.26	Up to 5	26 μA	SPI 13 MHz	Configurable Up to 180°
ICU-10201	3.5 × 3.5 × 1.26	Up to 1.2	17 μA	SPI 13 MHz	Configurable Up to 180°
CH201	3.5 × 3.5 × 1.26	Up to 5	13.5 μA	I ² C	Configurable Up to 180°
CH101	3.5 × 3.5 × 1.26	Up to 1.2	15 μA	I ² C	Configurable Up to 180°



Scan here for additional materials & information.