

Direct Time of Flight (dToF) method

A ranging method that calculates distance by measuring the time it takes for light to be reflected back from an object.

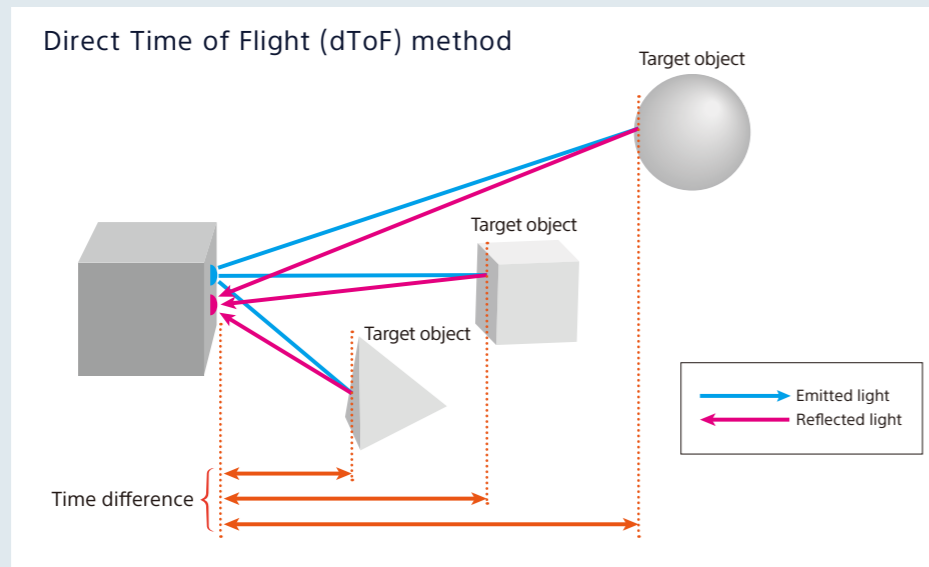


Image Sensing Products

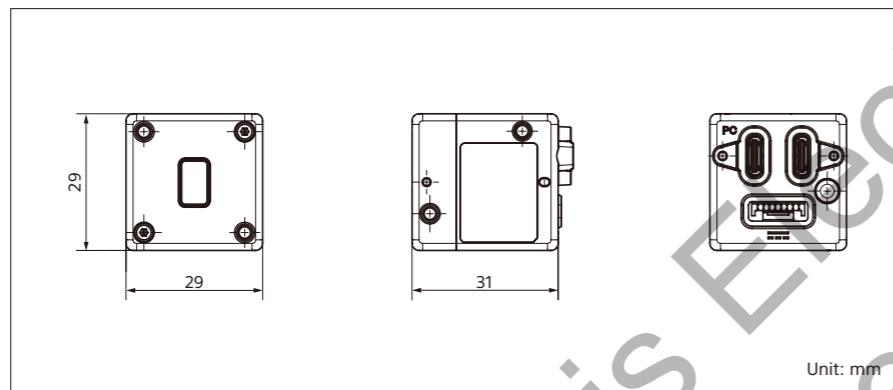
Envision the Whole Picture for a Safer World

A LiDAR depth sensor, coming with the great ranging measurement capability as well as the world's smallest and lightest*¹ housing, which makes it mountable on robots and drones.

Adopting the "Direct Time of Flight (dToF) method," which delivers highly accurate measurement, distance resolution, and measuring range.

- High Measurement Accuracy and Distance Resolution
- Long Measurement Range
- Compact, Lightweight, and Robust Housing

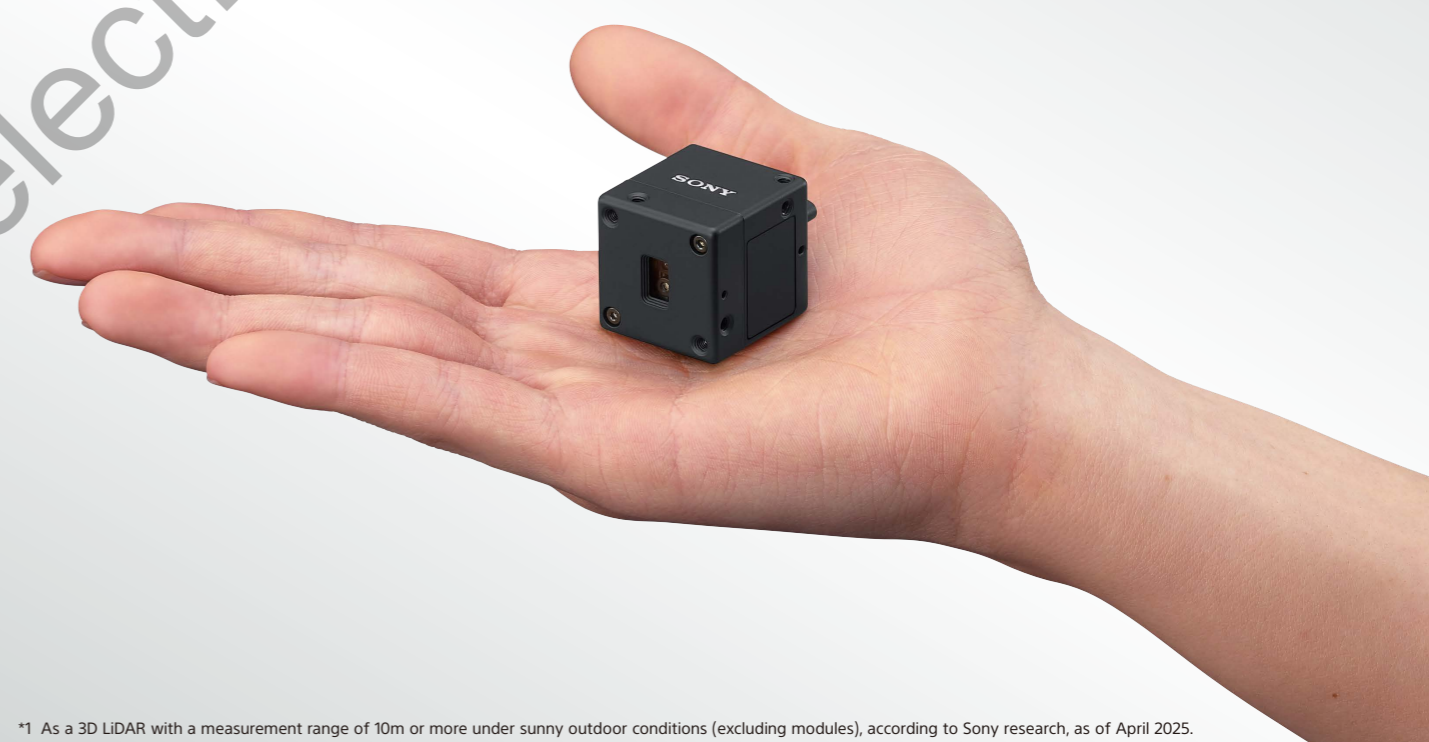
External Dimensions



Specifications

Features	Specifications
HFoV	30° or more * ²
Maximum measurement range @15 fps, 50% reflectivity, center	Indoor: 40 meters* ² Outdoor: 20 meters* ²
Measurement accuracy @10 m	Indoor/Outdoor: ±5 cm* ²
Distance resolution	0.25 mm
Frame rate	30 fps 15 fps @ Maximum ranging distance mode
Number of ranging points	576 (24x24)
Laser wavelength	940 nm
Dimensions	W29 x H29 x D31 mm (excluding protrusions)* ²
Weight	50 g or less* ²

*² These figures are provisional and may differ from final specifications.

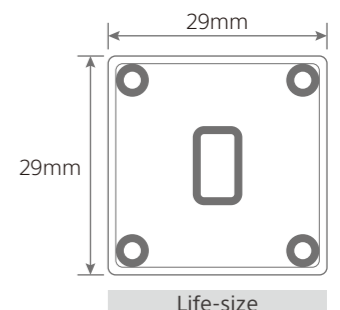


*¹ As a 3D LiDAR with a measurement range of 10m or more under sunny outdoor conditions (excluding modules), according to Sony research, as of April 2025.

Provisional version
LiDAR Depth Sensor

NEW

AS-DT1



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