

SONY LIDAR

AS-DT1

Sony LiDAR Depth Sensor

- Extremely small and light – only 29 × 29 × 31 mm and ≤50 g for easy integration into drones and compact robots
- Reliable 3D detection – dToF + SPAD measures length/width/depth and also handles low contrast/low reflectivity
- Long measuring range – up to 40 m indoors and 20 m outdoors
- Industrially built – robust aluminium housing that combines low weight with strength
- Integration-ready I/O – 2× USB-C, external power, UART and trigger simplifies system integration



PRODUCT DESCRIPTION

The Sony AS-DT1 is a compact and lightweight LiDAR depth sensor for robotics, AMR/AGV and drone integrators. The sensor uses Direct Time of Flight (dToF) with SPAD detector to deliver accurate 3D distance measurements even in challenging environments with low reflectivity and bright light.

Thanks to a robust aluminium housing and the smallest and lightest form factor on the market (approx. 29 × 29 × 31 mm, ≤50 g), the AS-DT1 is easy to install where space and weight are critical—without compromising on performance.

Its long range—up to 40 m indoors and 20 m outdoors—and an HFoV of ≥30° make it suitable for everything from inventory in warehouses to inspection flights and safe navigation in retail environments.

TECHNICAL DATA

Camera model	Sony
Connections	2× USB-C
Field of view	30° horizontal
Frame rate max	30 fps
Height	29 mm
Length	31 mm
Resolution	24 × 24 grid
Sensor model	SPAD
Supply voltage dc max	12 V DC
Supply voltage dc min	5 V DC
Weight	50 g
Width	29 mm