

PRESS RELEASE

New ToF camera for automation technology

Schmersal to showcase Time-of-Flight technology for the first time at Hannover Messe 2023

Wuppertal, 28 March 2023. At the Hannover Messe 2023, the Schmersal Group will present for the first time a 3D camera for the automated acquisition of digital process data in real time in **Hall 09, Stand D09**. The AM-T100 is a Time-of-Flight camera (ToF), which uses a Sony DepthSense™ sensor to create 3D depth images with millimetre accuracy. The camera uses ToF technology, i.e., runtime measurement of emitted light pulses in the infrared range (850 Nm), which are reflected off the objects being captured. This enables high-speed creation of a 3D image of the scene with millimetre accuracy that is available as a point cloud.

The high image rate of up to 60 fps allows efficient use in industrial manufacturing processes as well as in logistics and robotics. The camera can be used for tasks such as packaging support, box filling, stacking, volume detection and labelling in logistics and packaging as a means of boosting the efficiency and accuracy of processes.

The camera is also capable of 'looking into' containers or large load carriers to detect their current fill level. In addition, the camera facilitates volume determination of general cargo and birds-eye monitoring of staging areas in production, assembly, storage and order picking. Other uses include the capture of dimensions and surface quality. With high-performance IR illumination and an image resolution of 640 x 480 pixels, the AM-T100 achieves a visual range of 67° x 51° at a range of 6 metres.

The image data are made available over the standardised GenICam data interface and can be edited with common image processing software. An Ethernet interface enables rapid and comprehensive data transmission, as well as a 24 V power supply if required (Power over Ethernet).

Pre-installed configuration software

The AM-T100 comes pre-installed with the CONSAM-T configuration software. This software allows the camera to be configured to monitor complex and individually defined 3D zones. If it detects an object within the zone, it will switch digital outputs. In addition, digital inputs allow for switching back and forth between different 3D zones. An integrated SDK (software development kit) offers support to software developers and system integrators with software configuration and application creation.

Visit Schmersal at Hannover Messe between 17 and 21 April 2023: **Stand D09, Hall 09**

Photo in print quality for download:

https://products.schmersal.com/media/images/PHO_PRO_PRE_kamt1f06_SALL_AINL_V1.jpg

Image caption:

The AM-T100 3D camera from Schmersal enables automated capture of digital process data in real time.

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Founded in 1945, the company is represented by seven manufacturing sites on three continents with its own companies and sales partners in more than 60 countries. The Schmersal Group employs more than 1900 people worldwide.

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