

The versatility of Saturn

Technical data



3D Laser triangulation sensor

Saturn

smart, cost-effective, compact

Mechanics & connections

Dimensions	50 x 140 x 102 mm
Weight	650 g
Data port	GigE
Voltage supply	24V
Digital inputs and outputs	M12 GigE, M14 I/O isolated, encoder interface
PC requirements	Gigabit Ethernet, Windows or Linux

Parameters

Sensor	Sony IMX273LLR Global Shutter
Sensor Resolution	1440 x 1080 pixels
Sensor Speed	Up to 3000 Hz - 3D Lines per Second

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COST-EFFICIENT 3D SENSOR

Small, compact and easy to handle!



Saturn is a smart laser triangulation sensor. A laser line generated by Saturn is recorded with an integrated camera and thus the profile of a height object is recorded. Thanks to a sampling rate of up to 3 kHz, a high-

precision point cloud of the object can be generated. The EyeVision software evaluates these profiles or point clouds with the highest precision and outputs the results via all interfaces used in the industry.

Flexible

Thanks to different lasers, in terms of color and power, various optics, mechanical parameters and resolutions, the Saturn can be optimally adapted to almost any application. It is available as an Ethernet sensor or smart sensor with its own evaluation processor.

Configuration possibilities

Individual adaptation to the requirements of the application is possible thanks to a wide range of configuration options:

- Resolution
- Working distance
- Field of view
- Laser color
- Laser line

Possible applications



Food inspection

- Separation of food products according to quality
- Reduction of rejects

Tire production OCR/OCV and profile

- 100% quality control
- Inspection of tire treads and surfaces

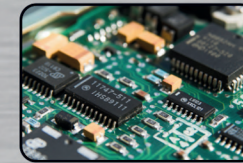


Measurement technology

Checking dimensional properties and geometric characteristics

Battery inspection

- Inspection of the battery surface during assembly
- Pole check

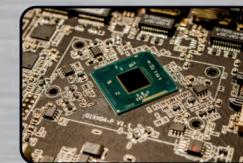
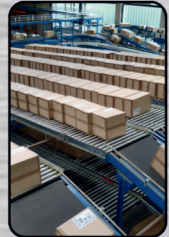


Electronic inspection

- Automatic optical inspection (AOI) e.g. solder paste inspection (SPI)

Logistics and packaging

- Quality control of packaging and sealing

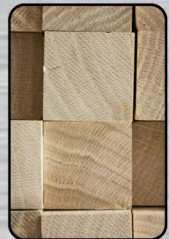


Semiconductors

- Inspection of silicone wafers
- Testing of electronic components

Wood and lumber

- Inspection of end products made of wood
- Optimization of production in the sawmill



...and many more!

More information here:

