# The easy-to-configure 3D vision sensor

Intuitive 3D inspection with TriSpector1000 from SICK

Waldkirch, November 2015 – The new TriSpector1000 is SICK's first 3D vision sensor, which, thanks to its simple configuration, can carry out inspection tasks standalone and without any programming. This means that the concept of 2D vision sensors, like SICK Inspector, is easy to carry over into the 3D world.

For example, it's ideally suited for use in quality control systems in the consumer goods and packaging industry, where TriSpector1000 counts and positions objects, measuring their volume and thickness. However, it's best suited for measuring volume in the food industry and monitoring the integrity of totes including contents, completeness, and emptiness.

Easily capture 3D images

The TriSpector1000 creates 3D images of moving objects directly on the product line, for example. It uses laser triangulation to capture height profiles, which it uses to generate a 3D image of the object. A configurable object finder and analysis tools are applied to the 3D image in the TriSpector1000 directly. The higher-level control system can access the results of these analyses via simple switching outputs or an Ethernet network. Depending on the object size, the TriSpector1000 with its three different fields of view can be used for a variety of applications.

Intensity data improves 3D navigation and allows the system to check for the presence of labels, printed patterns, or object rotation. Thanks to its intuitive user interface, the TriSpector1000 allows easy commissioning and operation. What's more, the device has a large field of view and can reuse stored settings, meaning that it can be replaced quickly without a hitch. The rugged IP67 metal housing with plastic windows ensures that the sensor has the necessary protection. As a result, the TriSpector1000 can withstand even the harshest of conditions in the food industry.

For more information visit our YouTube channel:  
<https://www.youtube.com/watch?v=ypioDBPD0WE>

Image: TriSpector1000\_IM0061672.jpg  
TriSpector1000 from SICK for capturing and evaluating 3D images directly

SICK is one of the world's leading manufacturers of sensors and sensor solutions for industrial applications. Founded in 1946 by Dr. Erwin Sick, the company is headquartered in the German town of Waldkirch, in the Breisgau region near the city of Freiburg. It is a technology and market leader, maintaining a global presence with more than 50 subsidiaries and equity investments as well as numerous agencies. In the 2014 fiscal year, SICK had around 7,000 employees worldwide and generated Group revenues of €1,099.8 million.