Press Release

Symeo at TOC Europe 2024

The future of radar sensor technology
in container terminals

Neubiberg, May 2, 2024 – From June 11 to 13, Symeo will once again exhibit at the TOC Europe trade fair in Rotterdam. At Booth L46 in Hall 1 of the world’s largest trade exhibition for port, ship, and terminal technology at the Ahoy Rotterdam event center, Symeo will present industrial radar technology for reliable positioning in all weather conditions. In addition to showing its current products, Symeo will also discuss future technologies with the experts in attendance and provide information on the current status of HD Imaging Radar, a field in which the company is currently conducting research and development.

With HD Imaging Radar, the experts at Symeo want to combine the reliability of radar sensors with the high resolution of laser scanners in order to ultimately replace optical sensors in areas where dust or weather conditions cause too many problems. At the TOC Europe, port logistics and crane technology experts will have the opportunity to learn about this latest development in industrial radar technology at an early stage and to discuss its potential for automation tasks.

“After about six years of intensive research, we are now at the exciting point where the biggest technical challenges of HD Imaging Radar technology have been solved and we can transition into the concrete product development phase. We believe that this is a breakthrough in the development of radar technology that offers completely new solutions for numerous fields of application. I look forward to discussing the resulting opportunities in more depth with our customers and interested parties at the TOC Europe industry event,” says Thomas Hörl-Weinhold, VP Industry Business Development at Symeo, who will be available for discussions on all three days of the trade fair.

**Failure safety on display**

Symeo’s patented LPR® (Local Positioning Radar) technology has proven itself worldwide in ports and container terminals as a fail-safe and maintenance-free solution that can reliably detect positions, distances, and movements. In addition to its accuracy, the great advantage of this technology lies in its robustness: radar sensors work reliably even in the presence of dirt, extreme dust, vibrations, high levels of sunlight, fog, or precipitation. Visitors to Symeo’s TOC booth can experience these properties on a demonstrator featuring a sensor that measures the distance to a moving reflector through boxes in which adverse conditions such as rain or a snowstorm are simulated.

**Sensors and software**

Symeo will also present the Collision Control Center (CCC), a modular assistance and management software application specifically designed to avoid collisions between cranes and objects. Three sensor systems will also be on display:

* LPR‑1DHP-291 for the precise real-time measurement of distances of up to 50 meters with a single sensor and up to 500 meters in combination with several sensors.
* LPR‑1DHP-350, which measures just 90 x 90 x 35 mm and is primarily used as a replacement for ultrasonic and laser sensors.
* LPR‑1D24 for measuring distances of up to 1,000 meters, which is primarily used for collision avoidance and reliable positioning applications in seaports, container terminals and bulk goods warehouses as well as in steel processing.

**Available image material**

The following printable images are available for download on the Internet:
<https://kk.htcm.de/press-releases/symeo/>

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| Image source: Symeo**Symeo will discuss the use of HD Imaging Radar in the container terminal environment at TOC Europe.** |

**Symeo GmbH**

Symeo GmbH develops and markets products and solutions for precise, non-contact, maintenance-free position detection, distance measurement, and collision avoidance. Symeo GmbH’s products feature extremely robust designs to make them suitable for applications in harsh industrial environments.

Symeo GmbH’s LPR® locating technology offers a wireless and real-time-capable measuring system that is ideally suited for industrial applications. Symeo has many years of experience in the development of cost-efficient and customer-specific industrial solutions on the basis of LPR® technology.

The company delivers standardized products and complete solutions to system integrators, original equipment manufacturers (OEMs), and end customers worldwide.

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