

SAFETY AIRY



The World's First Industrial 3D Safety LiDAR



Ultra-wide 3D FoV



Large-scale 3D protection
& warning zones



Multi-level ranging
and resolution



High-beam-count
3D point cloud



Ultra-compact size



Low power
consumption

Safety Airy is the world's first 3D safety LiDAR. It is built on a next-generation digital architecture, and based on **PL d, SIL 2, and Type 3** industrial safety standards. It provides a quasi-hemispherical 3D safety protecting zone, surpassing the previous generation of 2D safety laser scanner, and can detect intruding objects such as overhanging shelves, thin rods, guardrails, and human hands, providing enhanced safety protection for mobile devices and personnel in fixed areas.

In addition to providing safety warnings and protection, Safety Airy simultaneously outputs high-resolution 3D point clouds with a high beam count, enabling autonomous mobile devices to navigate and avoid obstacles, while identifying objects that are approaching fixed safety zones. A single Safety Airy unit can replace a multi-sensor combination of safety and navigation LiDARs, substantially reducing the number of sensors deployed and thereby optimizing system design while controlling costs. It is significantly smaller than traditional 2D safety LiDARs and can be widely deployed at scale across scenarios including autonomous forklifts, AGV/AMR, mobile manipulators, industrial safety zones, and smart ports.

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