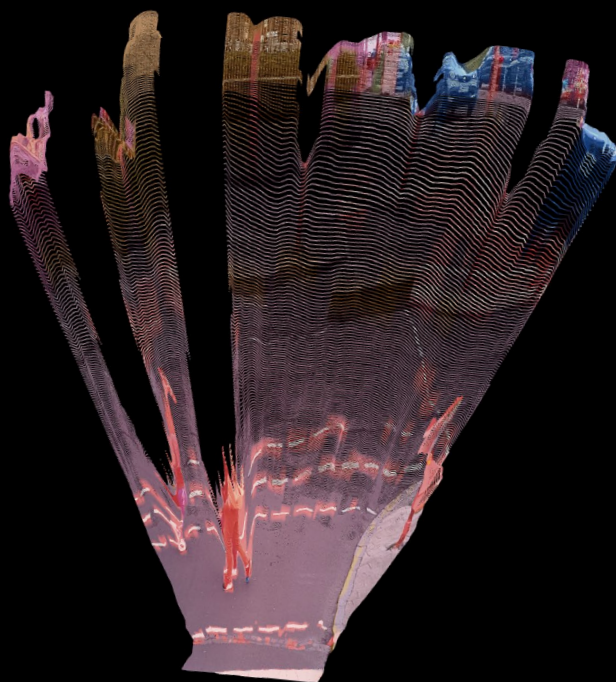


Replace your LiDAR with AiDAR™



A Revolution of the 3D Sensor Market

AiDAR™ is a new kind of sensor that gives you LiDAR-like performance **for the price of a camera.**

The Core: A new Spatial AI Sensor that predicts a segmented and classified 3D point cloud from monocular vision. At the heart of AiDAR™ our technology Better AI™ adds a new state-of-the-art Discovery AI providing a new level of safety.

AiDAR™ gives you a **3D point cloud**, like a LiDAR but better, because there are no misses for wet surfaces.

AiDAR™ sees everything, like a radar but better, because there are no ghost objects.

AiDAR™ classifies every point, like a Deep Learning AI but better, because it discovers all unknowns with no undefined behaviour.

AiDAR™ comes pre-trained and auto-adapts to the performance of your previous perception system by learning from its output, with no additional training data.

AiDAR™ auto-learns all the unknowns once encountered as new classes to continuously decrease the number of disengagements.

AiDAR™ is fully certifiable up to ASIL B with aerospace-grade operational performance.

A New Level of Safety

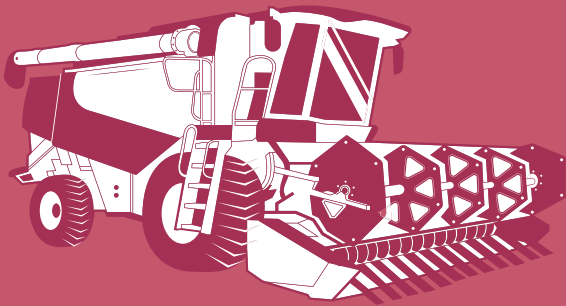
Like a LiDAR, AiDAR™ will not miss any safety-critical objects. AiDAR™ is based on a new kind of AI that has been designed by our engineers with an expert focus on safety each step of the way towards true autonomy. AiDAR™ is certifiable for safety with an aerospace-grade performance (ISO 26262, SOTIF+).

Specifications

- Functional Safety ASIL B
- Basic Performance 95 %
- Open-World Performance 99,5 %
- Joined Performance 99,9975 %

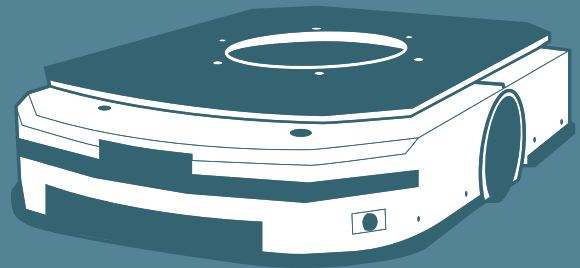
More than just Driving: Providing the most accurate understanding of the environment, our AiDAR™ sensor offers enormous potential in a broad variety of industries.

Use Cases (examples)



Agricultural Technology

In agriculture, harvesting and subsequent processes have to be managed under conditions that are difficult to predict. Here, autonomous robotic systems play an important role in improving efficiency and productivity. Our sensors already power a fleet of autonomous agricultural machines. AiDAR™ can help you automate your fleet quickly while guaranteeing exceptional safety at low cost. AiDAR can reliably detect all safety critical objects like humans, animals and unknown objects. AiDAR™ learns and adapts to new environments without any labelled training data, training itself to classify previously unknown objects like a ditch or a trench. AiDAR™ is certifiable for tractors and machinery safety standards like ISO 25119.



Warehouse and Delivery Robots

Warehouse and Delivery robots rely on LiDAR due to its outstanding performance. AiDAR™ can provide the same safety and performance only 5 times cheaper. AiDAR™ can easily train itself to classify all the obstacle your robot might encounter on the pavement, in the warehouse, or in a store, with no labelled training data necessary. You can also use the new objects and classes discovered by AiDAR™ for your own map making. AiDAR™ implements UL4600 and is certifiable for public road safety standards like ISO 26262 and ISO/PAS 21448.

Flexible Integration Packages: AiDAR™ is available in various packages fitted to your requirements. Our OEM Package includes a camera, an AI processor and our technology **Better AI™**. For Tier-1 AiDAR™ is available as software-only package. Our Developer Package is coming soon.