

XenomatiX

True solid state lidar

The eyes for
self-driving
vehicles



True solid state LiDAR for:

- Autonomous Driving and ADAS
- Preview for Active Suspension
- Road Scanning & Surveying

XenomatiX is the first company offering true solid state LiDAR sensors. 'True' because XenomatiX' sensors are built with no moving parts and no scanning, based on a multi-beam system and risk-free, scalable semiconductor technology.

Designed to satisfy a range of automotive and industrial applications, including safety and comfort, robotaxis and AGVs, XenomatiX' LiDARs are also suitable for road construction, maintenance, and surveying applications.



3D + 2D



NO MOVING PARTS



MULTI-BEAM



SCALABLE



FLEXIBLE



RELIABLE

ADAS and AD applications

Object Detection and Classification • Free Space Detection • SLAM • Pedestrian Detection • Lane Assist • and more...

LiDAR being a key sensing technology for increasing level of autonomous driving. XenomatiX has developed performant and reliable **true solid state lidar** sensors suitable for highly demanding ADAS and autonomous driving (AD) applications from L3 up to L5.



Active suspension control

As we move closer towards automated vehicles, drivers become more demanding. Today, car drivers expect higher body stability in a vehicle matching that of a train ride or a smooth airlight. XenomatiX' pro-active suspension application predicts any impact from road obstacles like potholes, and allows for increased comfort and safety on the road.



Markets



AUTOMOTIVE



AGRICULTURE, & MINING



ROAD CONSTRUCTION
& MAINTENANCE



RAILWAY

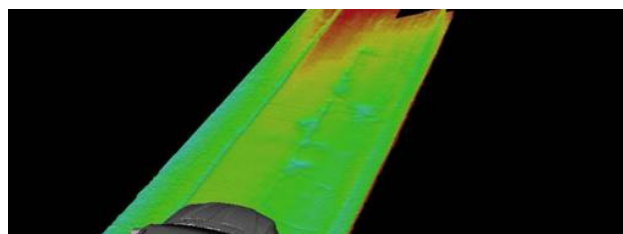


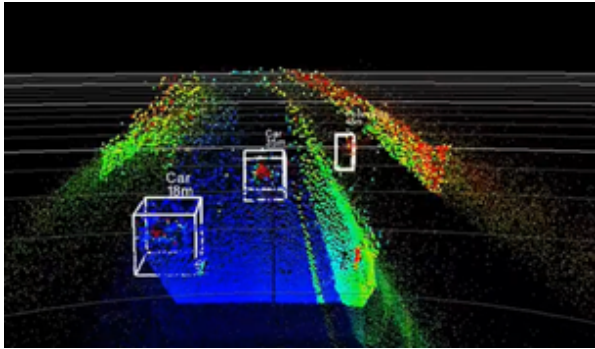
INDUSTRIAL

Road scanning and surveying

Virtual Modelling • Simulator & Testbench Input • Road Classification and Identification • BIM • Digital Twin • PMS

XenomatiX provides services and products to measure, digitize, visualize and quantify road quality and road markings. The output consists of 6 dimensions: geometrical 3D digital road, intensity information and HD 2D camera images, annotated with GPS coordinates.





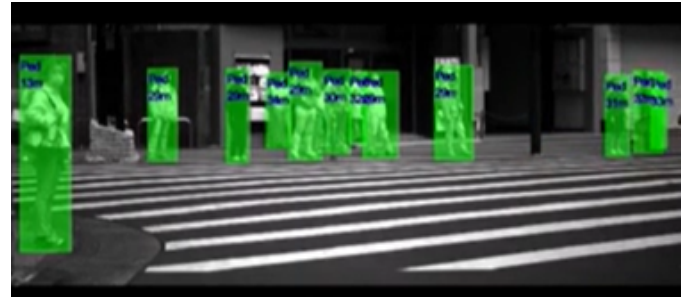
XenoLidar Object Detection with Artificial Intelligence

Combination of 3D point clouds and 2D images

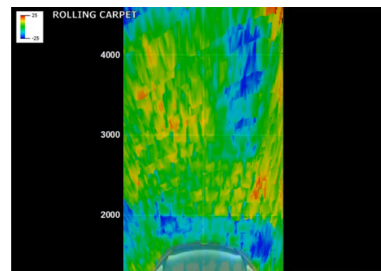
A built-in camera generating both 3D + 2D data output, together with intensity information. This rich data set reveals object position, size and shape as well as distance and motion: ideal for your perception stacks!

Multi-beam sensor

Multi-beam technology guarantees maximum level of performance and power efficiency. Reaching automotive long range performances with global shutter.



XenoLidar Pedestrian Detection with Artificial Intelligence



Cobblestone Pavement Mapping with XenoTrack

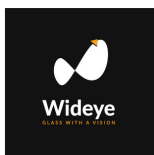
Xenomatix' unique approach to solid state LiDAR is the reason why our partners choose us.

Mature semiconductor technology

Xenomatix uses semiconductor technology to build its true solid state LiDAR sensors. Semiconductor components are proven technology which form the basis for scalable, affordable and durable LiDAR sensors.

Partners

AGC



AUTOMOTIVE
LIGHTING



SIEMENS



COSWORTH



Belgian Road Research Centre
Together for sustainable roads



XenoLidar

True solid state LiDAR

XenoLidar analyzes the vehicle's surroundings in real-time. It is designed for a wide field of view and to withstand all light and weather conditions even at high driving speeds.

4D-AI on XenoLidar pointclouds generates highly accurate and high-resolution information for ADAS and AD features.



Xenolidar

XenoTrack

Short-range Road LiDAR

Mounted on any vehicle, XenoTrack provides the complete digital twin of the road. Its mm accurate measurement feeds the calculation of road waviness (like IRI), lateral profiles and pavement damages.

Ideal for road scanning, surveying and preview suspension applications.



XenoTrack

X-Module

Custom-built lidar for automotive Tier 1

Its modular and flexible design allow for detailed customization for Tier 1 partners, on range, resolution FoVs, etc..



X-Module

XenoWare

Application software with AI

The platform for any engineering team to develop autonomous or assisted driving functions. The software uses AI algorithms to generate high reliable detected objects.

Road data and services

Road management and surveying

XenomatiX provides innovative and affordable solutions for performant and cost-effective road management. It measures and collects high-precision and up-to-date data of road networks or sections.

Engineering services

Support, integration and custom solutions

Design your own lidar with guaranteed short time to market and a risk-free engineering approach towards a full solid state lidar.