Valeo

Mobility Kits: LiDAR

plug & play sensor systems

for generic use

WHO WE ARE
OUR PROFILE

VALEO COMFORT & DRIVING ASSISTANCE SYSTEMS

Digital mobility & autonomous cars:

- **Detection**
- **Artificial Intelligence**
- **Human-Machine Interfaces**
- **Connectivity solutions**

Full ADAS technologies and systems for automated cars

Car sharing, Cars access control, telematics and acoustics

Intuitive controls, cameras and advanced interaction

Telematics and predictive solutions

cda.valeo-mobilitykits.mailbox@valeo.com

ADAS Advanced Driver Assistance Systems

30 years expertise in making driving more safe and enjoyable

Every 4th new car worldwide is equipped with Valeo ADAS technology

World's 1st and only automotive-grade 3D laser scanner
1st & 2nd for Lv3 mass production passenger vehicles

Broadest perception portfolio on the market

World's 1st, 2nd & only automotive grade 3D LiDARs in Level 3 applications

cda.valeo-mobilitykits.mailbox@valeo.com

VALEO MOBILITY KITS
Targeting New Mobility Players, Robotics, Research Institutes, *etc.*

Plug & Play

Ethernet streaming software included

Flexible Configuration

for easy integration and multi-sensor fusion

Raw Data

Low-level data output (point cloud, fish eye images, …)

Open Interfaces

Easy to use SDKs (C++) and documentation of raw data. Standardized time-sync.

SENSORS

AVAILABLE

Valeo SCALA®
Gen 1

Valeo SCALA®
Gen 2

Ultrasonic

Surround View
Cam
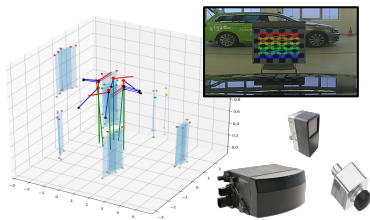
COMING SOON

Near Field Lidar

Ultrasonic next
Gen.

Surround View,
next Gen.

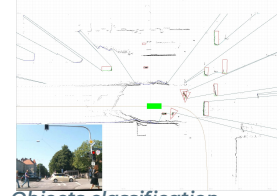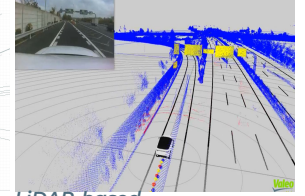# SERVICES

CALIBRATION

SYNCHRONIZATION

FUNCTIONS

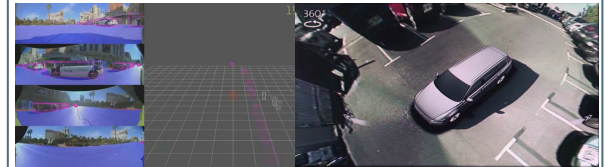## LiDAR PERCEPTION & LOCALIZATION

*Objects classification
& freespace*

*LiDAR-based
precise localization*

CAMERA PERCEPTION & VISUALIZATION

*360° Camera DL
& segmentation*

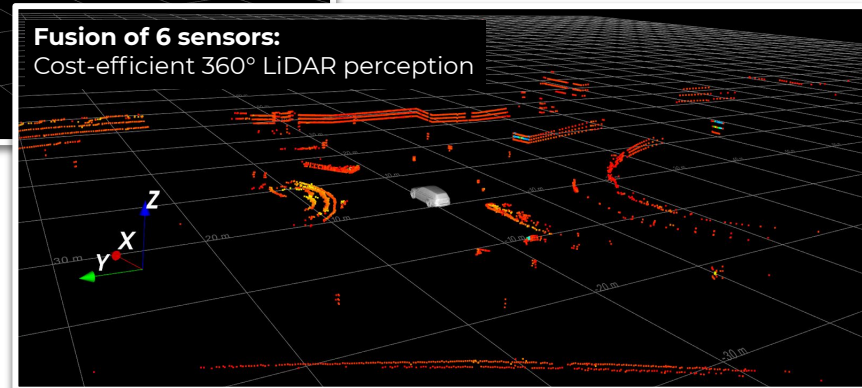*Bird view cameras
advanced visualization*
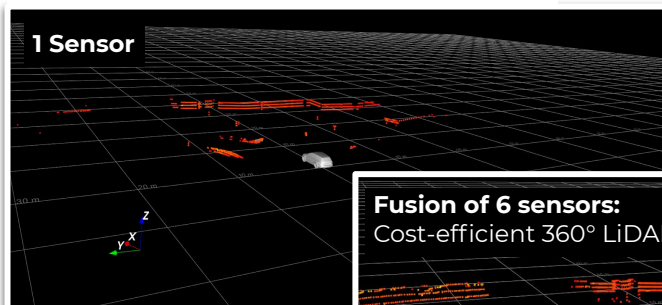
Valeo SCALA® Gen 1 Kit

Specifications:

- **Resolution:** 25 Hz, 0.25° x 0.8°, < 10cm
- **Field of view:** 145° x 3.2°, 4 layers

  200 m @ 80% reflectivity

  100 m @ 10% reflectivity
- **Sleek design:** Easy platform integration

Contents:

- **Laser scanner:** Scala Gen 1 sensor
- **Mounting bracket:** Easy installation, adjustable
- **USB drive:** Manual & CAD, SDK, demo applications (ROS & standalone)
- **Cable Harness:** Power, BroadR-Reach 100Base-T1 and servicing interfaces
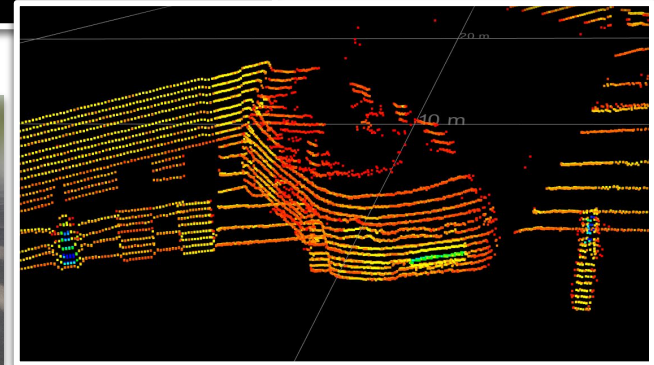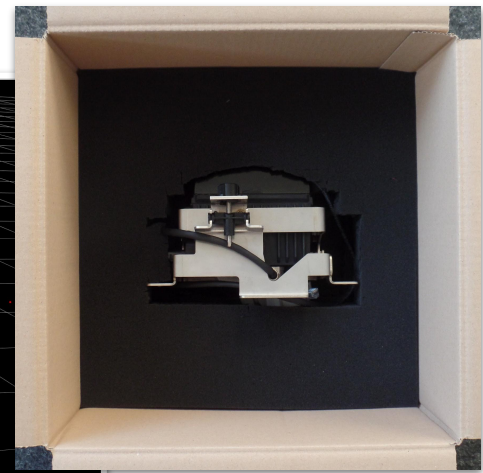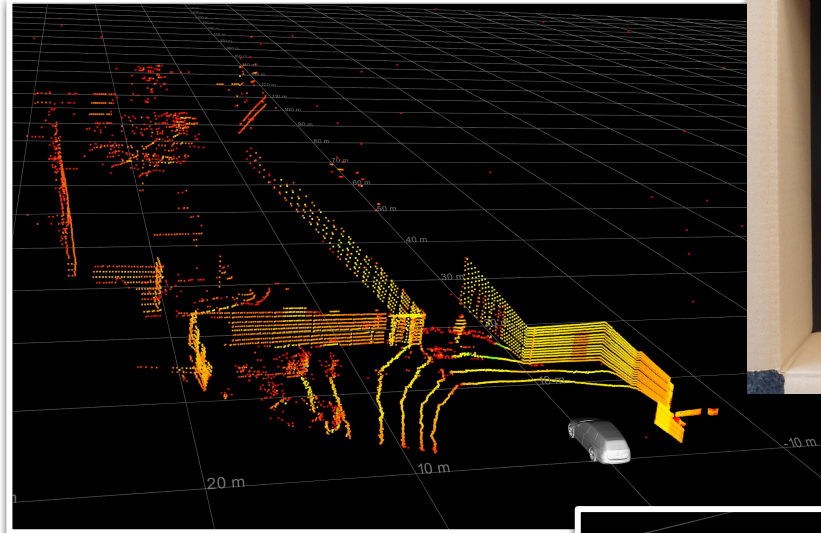- **Converter:** 100Base-T1 to Eth 100Base-Tx

1 Sensor

Fusion of 6 sensors:
Cost-efficient 360° LiDAR perception

Valeo

Valeo SCALA® Gen 2 Kit

Specifications:

- **Resolution:** 25 Hz, 0.125° x 0.6°, < 10cm
- **Field of view:** 133° x 10°, **16 layers**
        200 m @ 80% reflectivity
        100 m @ 10% reflectivity
- **Sleek design:** Easy platform integration

Contents:

- **Laser scanner:** Scala Gen 2 sensor
- **Mounting bracket:** Easy installation, adjustable
- **USB drive:** Manual & CAD, SDK, demo applications (ROS & standalone)
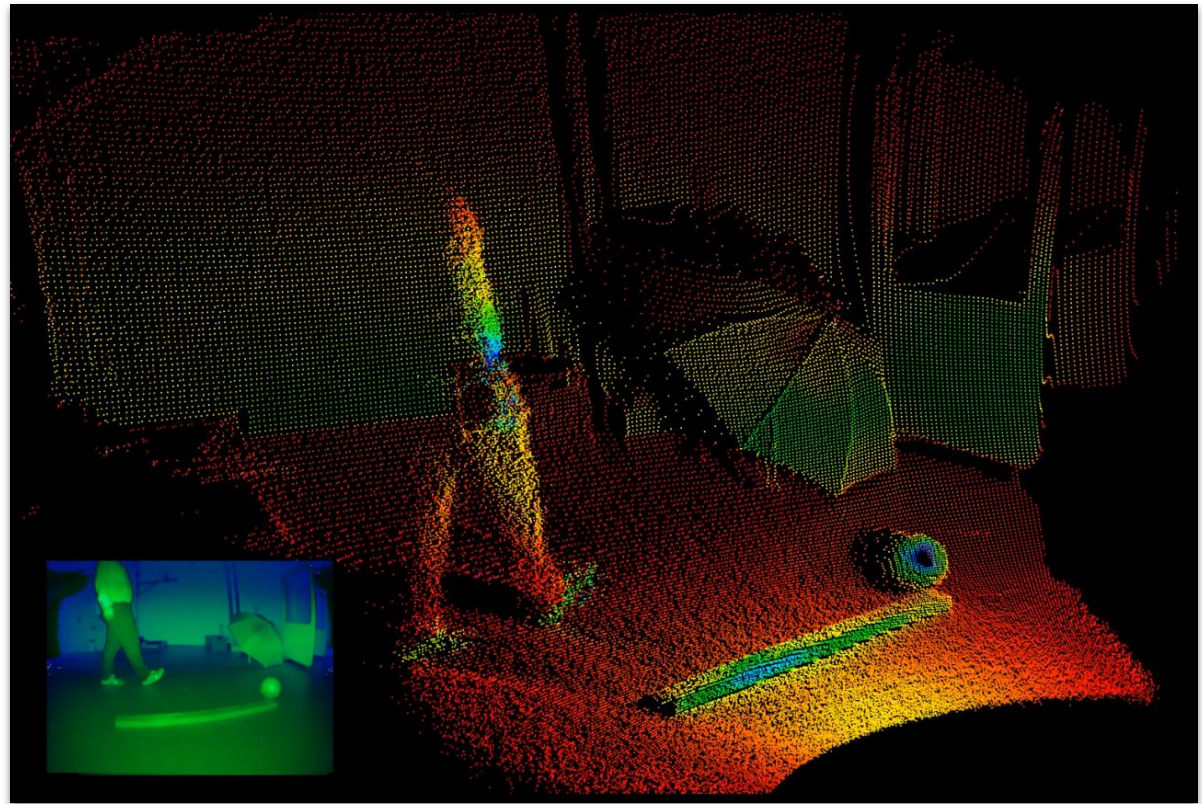- **Cable Harness:** Power, 1000Base-T Eth

Valeo

cda.valeo-mobilitykits.mailbox@valeo.com

Valeo Near Field LiDAR Kit

Specifications:

- **Resolution:** up to 80 Hz
  - 0.3° x 0.3°
  - 5% in distance
- **Field of view:** 110° x 78°
  - 320 x 240 pixels
  - 5 cm - 30 m @ 80% reflectivity
- **Solid state:** Flash LiDAR
- **Sleek design:** Easy platform integration

Available soon / upon request

Valeo

cda.valeo-mobilitykits.mailbox@valeo.com

Valeo

SMART TECHNOLOGY
FOR SMARTER MOBILITY