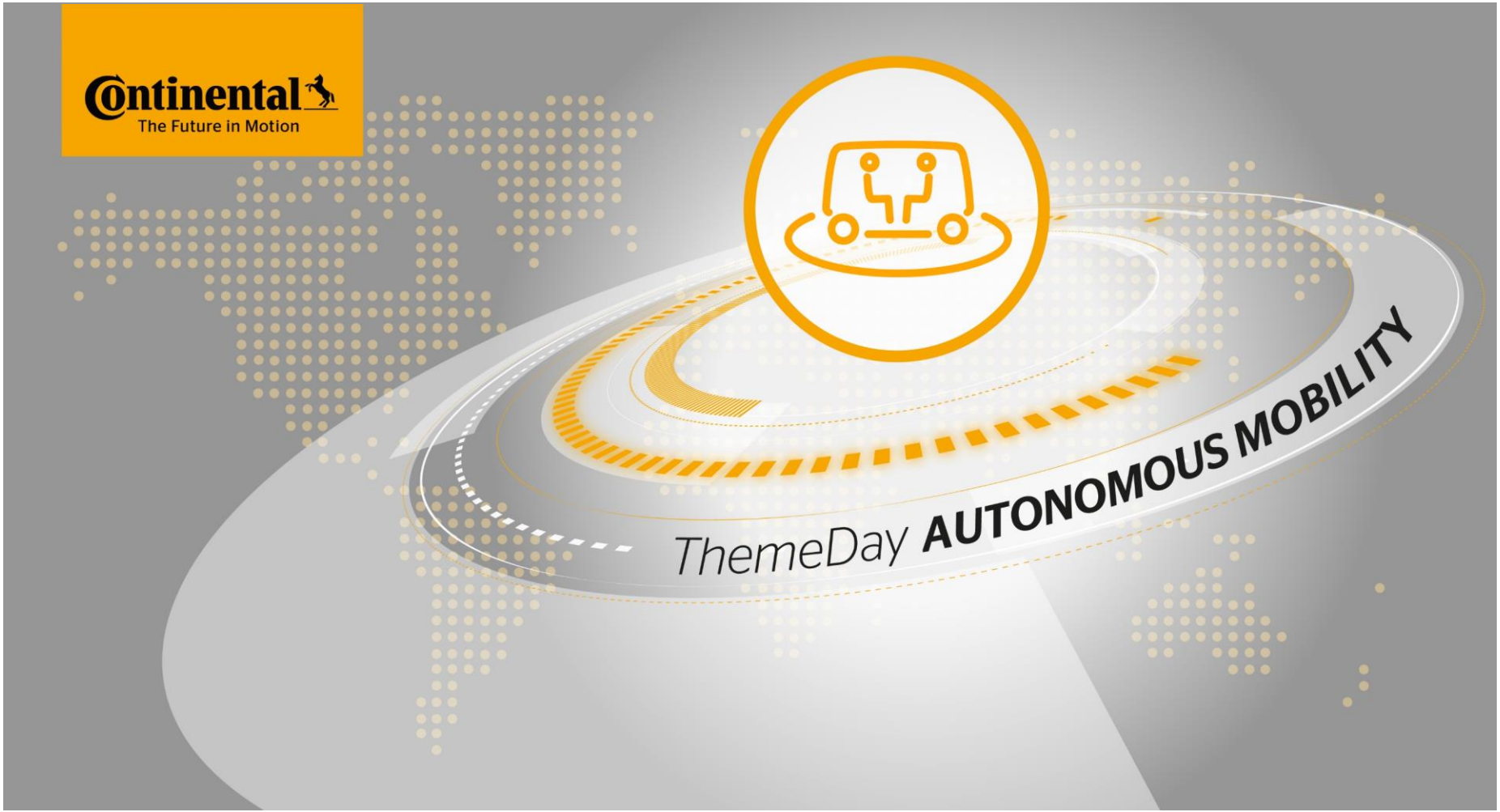

Continental
The Future in Motion
ThemeDay AUTONOMOUS MOBILITY

Virtual Driving Experience

LiDAR – Next Era Sensor for Autonomous Driving

Today's Subject Matter Experts

Gunnar Juergens

VP and Head of LiDAR Segment

Continental

Jordan Greene

Co-founder, VP of Corporate Development & Partnerships

AEYE

Shanvir Dhinsa

FAE Team Lead

AEYE

LiDAR – Requirement for Safe Automated Driving

Full Range LiDAR Portfolio

Short-range LiDAR

Solid-State 3D Flash LIDAR™

Highlights

- Patented technology
- No gaps in image/data; No motion distortion
- High accuracy object and free space detection

Target application:
Urban, traffic jam, robo-taxis

SOP **2021**

L2+
L3

Long-range LiDAR

Strategic cooperation with LiDAR pioneer

AEYE

MEMS* Scanning LiDAR

Highlights

- Patented novel advanced MEMS technology
- Dynamic spatial resolution enabling concurrent far range, high resolution and high sensitivity at minimized power consumption

Target application:
Highway

SOP **2024**

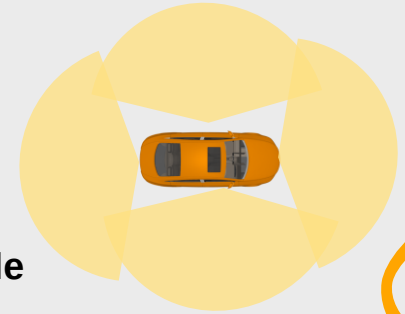
L3

*Micro-Electro-Mechanical System

HFL110 Solid-State 3D Flash LiDAR

SOP **2021**

Short Range (50m) Sensor KPIs

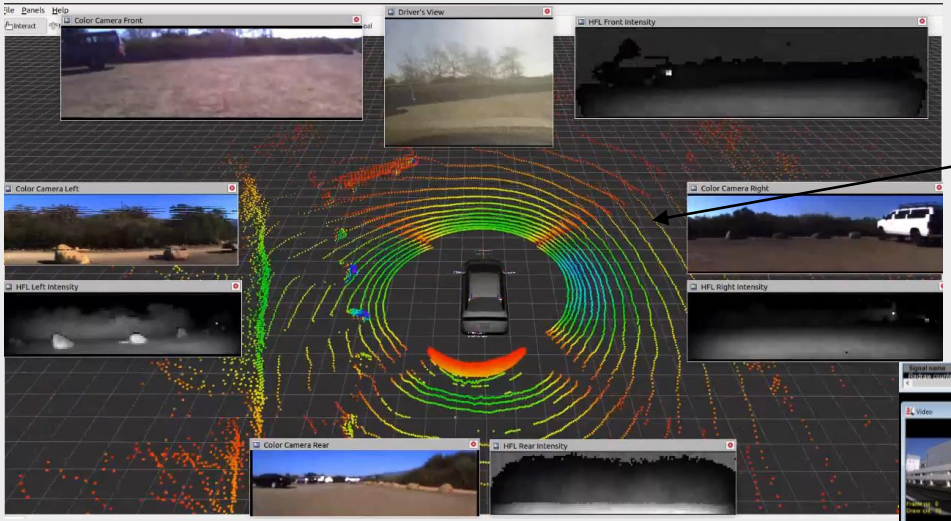


- **Automotive grade, solid-state LiDAR**
- **IP6k9k robust packaging**
- **Wide field of view (120°) for surrounding vehicle**
- **High frame rate (25Hz)**
- **Instant point cloud data capture**
- **Contiguous pixels**
- **Degraded visual environments operation**
- **Premium OEM launch**
- **Non-automotive, autonomous applications engagements**

HFL110 Short-range LiDAR

1st to SOP for High-resolution Automotive Grade LiDAR

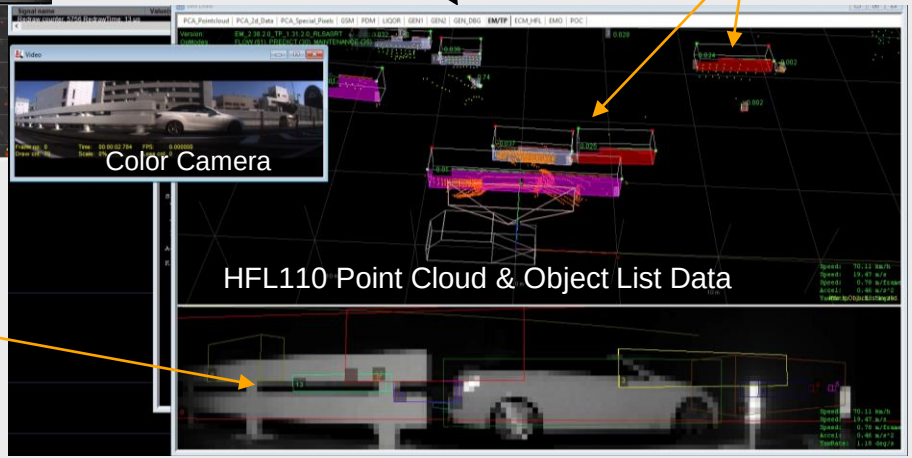
Existing Product!



HFL Solid-state Surround

Point Cloud

Objects (List)



Intensity Video

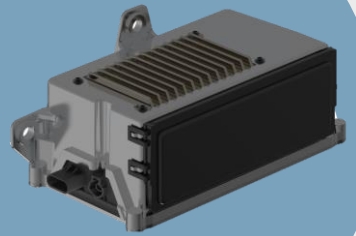
LiDAR Collaboration

Pattern for Success

Series Production
Flash LiDAR

AEYE- based
MEMS LiDAR

- Receiver
- Laser
- Boards
- Software



Flash

MEMS

HFL → HRL LiDAR Synergies

HRL131 Long-range, High Performance LiDAR

Use Cases

Ground obstacles

Pedestrians

Lateral entry of vehicles

Complex/dense traffic

Lane markings

Adverse weather

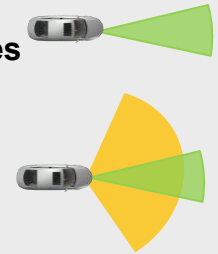
HRL 131 Long-range LiDAR

High performance, Intelligent Sensor

Ultra-Long-range, High Performance Scanning LiDAR

Automotive and Commercial Vehicle Applications

“Acquires” Objects at Long Ranges



- Overpasses and signage at 1000m
- Vehicles at 300m+
- Tires, bricks, debris, etc. at 160m+

Intelligent Software & Firmware

- Software configurable to customize OEM’s Use Cases and mounting locations
- Instantaneous resolution improving detection probability and reducing false positive rate

Incorporated bi-static architecture provides flexible, low-power design for integration ease:

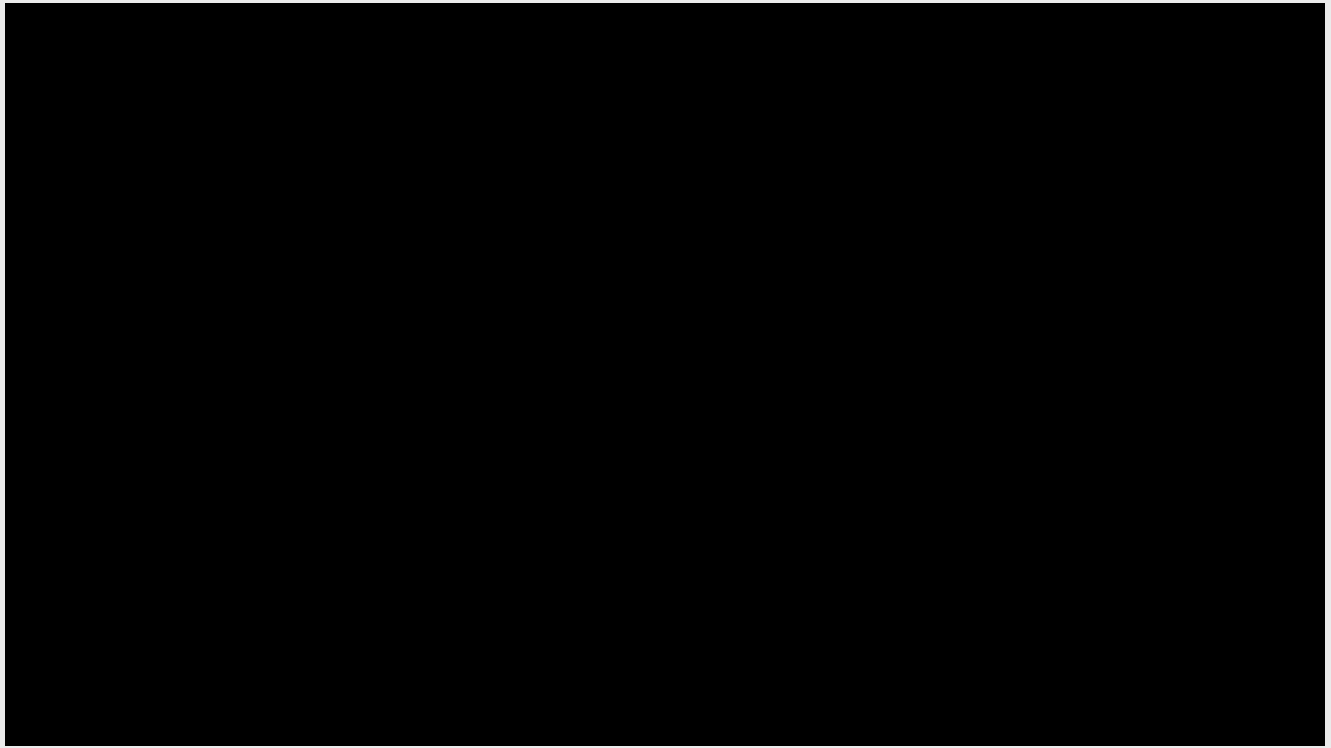
- Flexible mounting location options: Grill, windshield, roof

SOP **2024**

L3/L4

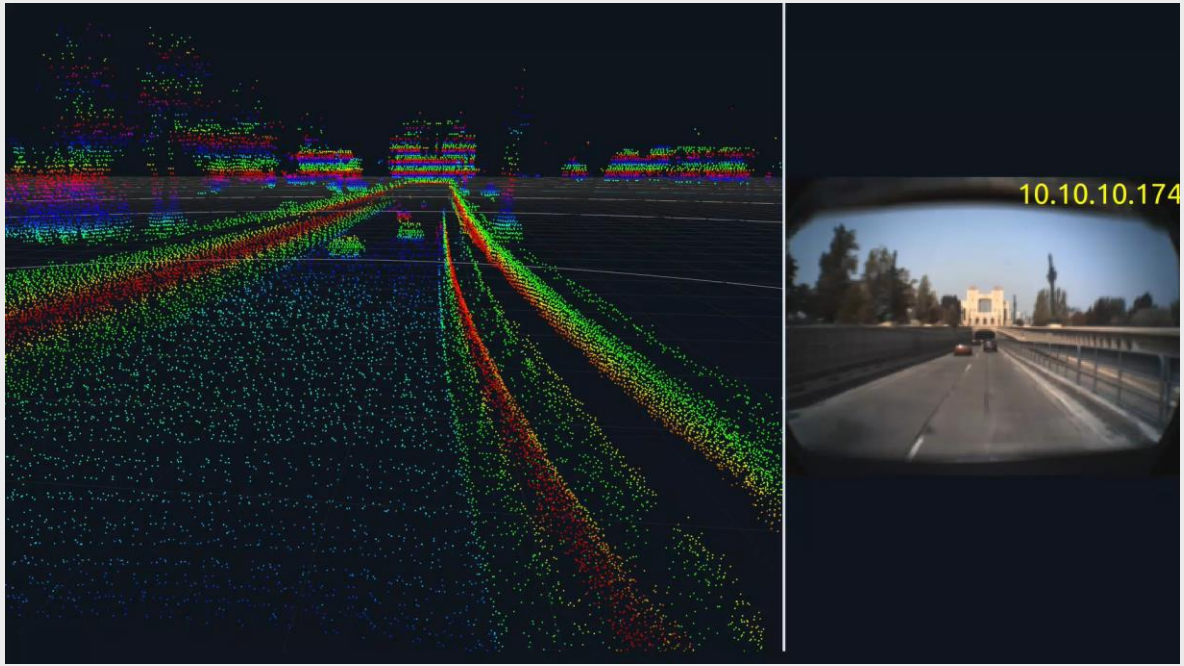
HRL131 Sample Study

Long-range Driving Demonstration – 1,000-meter detection

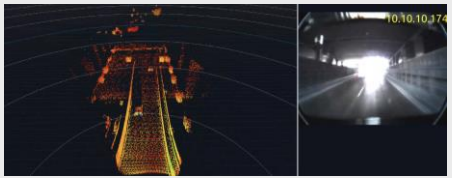


HRL131 Navigating Complex Environments

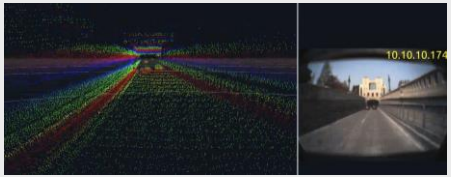
High Performance LiDAR – The Final Piece of the Puzzle



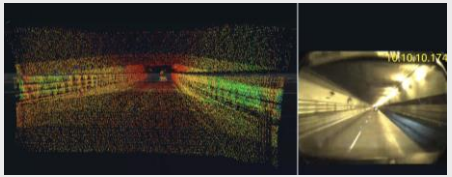
Sunlight Saturation: Camera limitation



Under-drive-ability: RADAR limitation



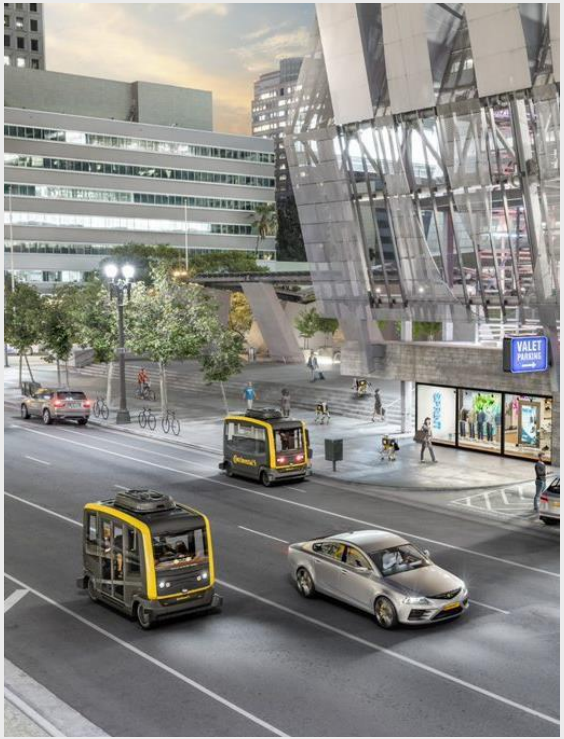
Multipath (reflector): RADAR limitation



Live Demonstration

Enabling the Next Levels of Autonomy

Continental-AEye HRL131



Leveraging the **flexibility** of AEye's **long range, high performance LiDAR** to address OEM use cases

Carrying over **automotive expertise** and **HFL learnings** for the Continental-AEye HRL product to expand Continental's LiDAR portfolio

Strategic cooperation accelerates delivery of automotive grade, MEMS-based LiDAR solutions for **Safe, Autonomous Driving**

Tier 1 ADAS strength combined with world-class innovation ensures timely development and **path to mass production**

Enabling **L3-L5** ADAS / AD functionality for **automotive** and **commercial vehicles**

Delivering the HRL131 with a **start of production in 2024**