VueOne

LiDAR Based ADAS by Vueron

VUERON

Make your customer safer with Vueron

Proven LiDAR system with LiDAR-only AV fleet

Vueron has developed a LiDAR-only autonomous driving solution, which uses only LiDAR sensor(s) and no cameras, radars, GPS, or HD maps. Vueron's AV development fleet has been tested on real roads worldwide

Korea AV #1   **Korea AV #2**   **California AV #3**   **Nevada AV #4**

Cost effective automotive processor

The VueOne system works in real time and is deployed on automotive qualified processors, which are already in serial production by global automotive OEMs for camera-based ADAS systems. Proven, cost effective processors can be used for serial productions

Renesas R-Car H3   **TI TDA4VM**   **Renesas R-Car V3H**

Processor Minimum requirements

CPU : Arm Cortex-A57
Frequency : Over 1.8GHz
Memory : Over 4MB

Working with automakers

Intensive experience with global automakers and suppliers in LiDAR solutions ranging from LiDAR modules, truck platooning, autonomous shuttles, autonomous trucks, and more

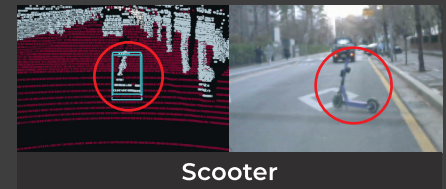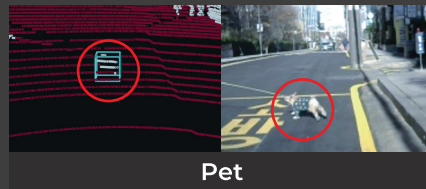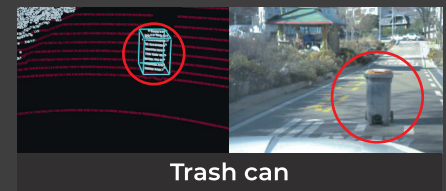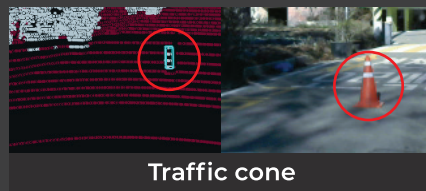**Autonomous shuttle**   **Multi LiDAR solution**   **Truck platooning**   **Autonomous vehicle**

Key Specifications

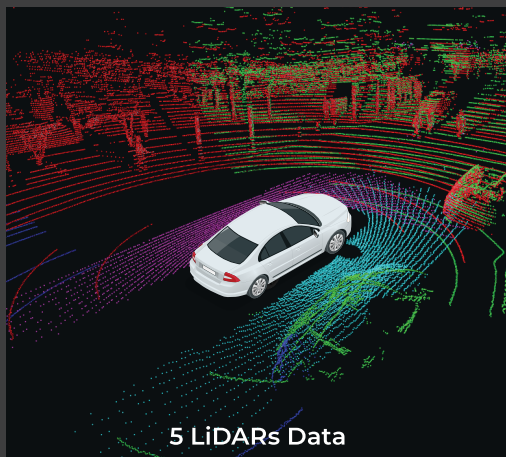| Basic Output		
Information		**Description**
Object Info.	ID	object ID
	Age	object age
	Bounding Box	8 points for 3D box
	Contour	contour points
	Type	passenger vehicle, commercial vehicle, pedestrian, cyclist, unknown
	Velocity	value and direction
Lane Info.	Left Lane Valid	valid flag for lane
	Right Lane Valid	valid flag for lane
	Left Lane Function	parameters for 3rd equation
	Right Lane Function	parameters for 3rd equation
Ground Info.	Freespace	occupied grid map

Additional Features 01

Road obstacle detection

Tire

Traffic cone

Trash can

Trash

Pet

Scooter

Additional Features 02

Multi-LiDAR sensors calibration

5 LiDARs Data

Sensor mounting position

Vehicle roof   Front roof   Vehicle grill   Vehicle side

Vehicle type

Vehicle   Robot   Shuttle   Truck

System Configurations

LiDARs

Vueron LiDAR perception module

LiDAR Interface Node
- Connection
- Data Parsing

Perception Node
- Perception
- Generate Message

Dynamics
(Vehicle CAN, IMU)

Sensor Interface Node
- Connection
- Data Parsing

Vueron Perception Msg

Customer Module

Vueron Data Receiver
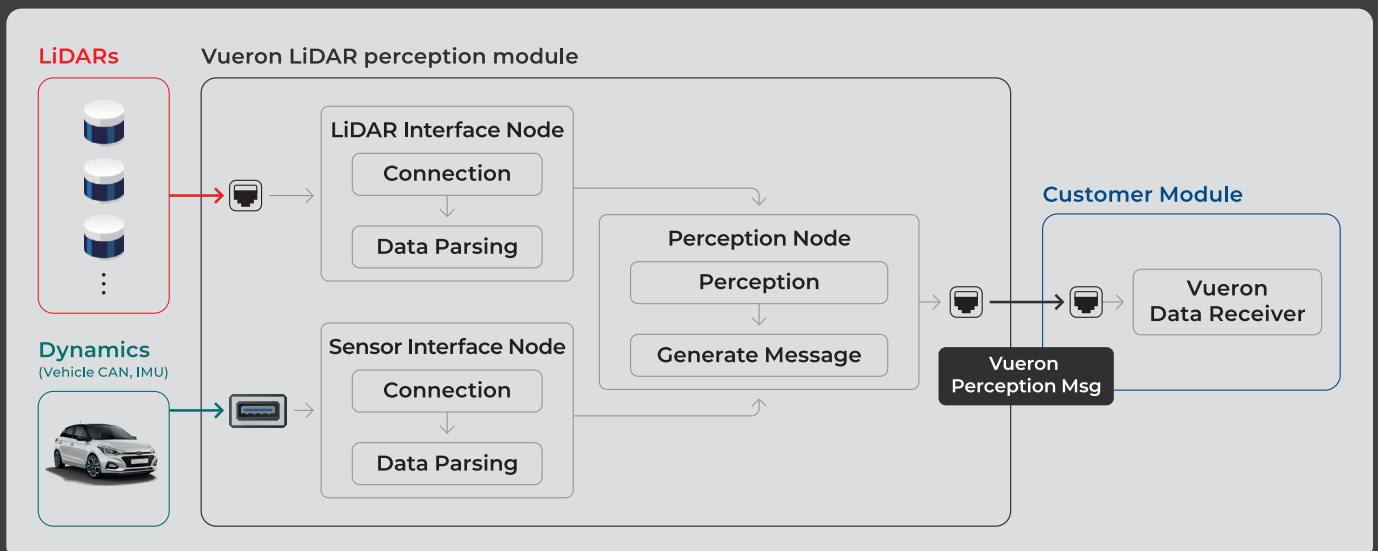
Vueron Technology

Seoul Office
11F, Gangnam-daero 311, Seocho-gu, Seoul, Korea

San Jose Office
2665 N 1st St. Suite 110, San Jose, CA 95134 US

Munich Office
355-3F, Herzogspitalstrasse 24, 80331 Munich

Email sales@vueron.org

Website