Peace of mind

DENSO
Crafting the Core

LiDsEYE - DENSO LIDAR

High resolution and durability for all use cases

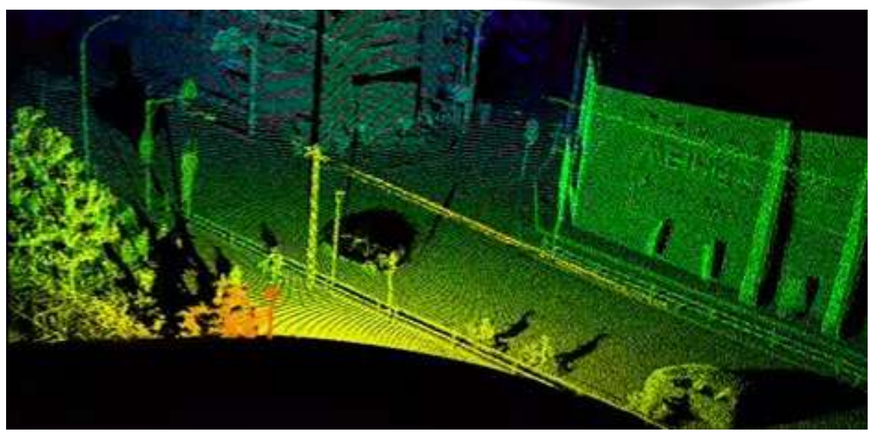
Highlights

- High uniform resolution across the entire field of view
- Unique environment flags to identify and filter for environment conditions such as rain, fog, exhaust gas, snow that typically make point cloud data difficult
- DENSO strong durability and reliability driven from our automotive experience

Configuration

- Line beam technology with almost 100% fill factor with optimized lens design to achieve premium optics for transmission of high fidelity light
- Newly developed detection IC for receiving light, translated by DENSO System on Chip
- Automotive grade robustness to survive harshest environments from infrastructure, construction and agriculture heavy duty equipment, and factories.

Robust design for heat dissipation and strength against outdoors

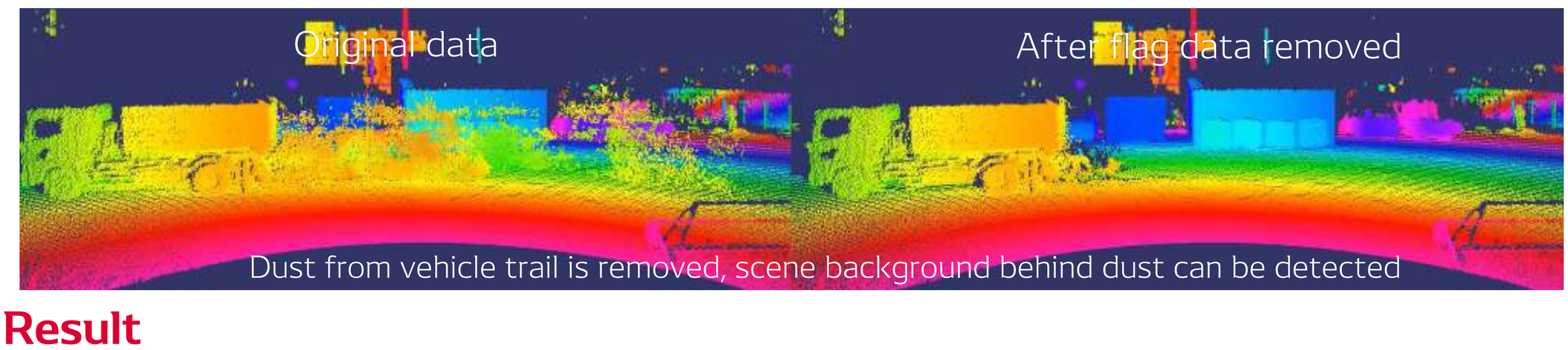


Specification for many use cases

Rich data enables strong perception for classification of vehicles, VRU's, trajectory prediction

Landmark ID for more difficult scenarios

Item	Specifications
Dimension	W169×H127×D96.7
Mass	1.68kg
Temperature	-30～70℃
Waterproof	IP67
Power	DC 9～32V, <30W
FOV	H120°×V30°
Resolution	H 0.15°×V 0.156°
Max Range	140m
Detection Distance	MIN; 61m @R10%、100klx MIN; 117m @R10%、 10klx
Frame Rate	10 fps
Comm	1000BASE-T1
Output	Distance, intensity, background light or flag info, diagnostics



Dust from vehicle trail is removed, scene background behind dust can be detected

Result

- Overseas applications using LiDsEYE have enabled VRU, zonal, and wrong way detection. Trajectory estimations may be possible.
- Unique filter systems enabled sight in environment or vehicle factors.
- Completion of durability testing with no failures and very little change in performance from new, over 43,800hrs including infrastructure and off highway heavy duty equipment settings.