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▮ Smart Highway Solution

Based on High-performance Image-grade LiDAR

Smart Highway Solution

Based on High-performance Image-grade LiDAR

- With the rapid development of socio-economy and the continuous increase in highway mileage, the issues of frequent accidents and traffic congestion have become increasingly prominent. Traditional sensors on highways are no longer able to meet the growing transportation demands.
- Seyond's smart highway solution is based on high-performance image-grade LiDAR technology, providing comprehensive and high-precision vehicle perception and event detection capabilities to customers. Its intelligent road analysis ensures the safe operation and traffic efficiency on the highway.

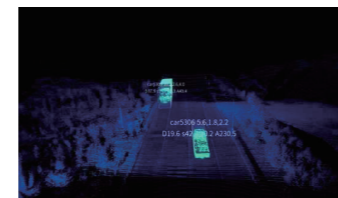
Competitive Advantages

 <p>Full Stack Solution with Software and Hardware</p>	 <p>3D Road Condition Perception</p>	 <p>Wide Coverage and Easy Deployment</p>	 <p>Centimeter-level Detection Accuracy</p>	<p>7x24</p> <p>7x24H Real-time Detection</p>
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Functions

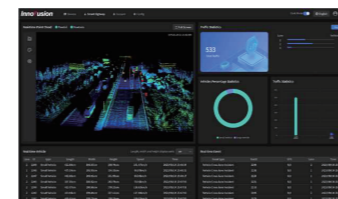
1 Vehicle Perception

- Output 3D vehicle shapes with high-precision length, width, and height information, accuracy up to 10cm
- Support long-distance tracking and positioning of target vehicles



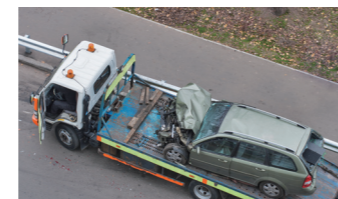
2 Traffic Flow Analysis

- Identify 4 vehicle types, including small vehicles, medium vehicles, large vehicles, and extra-large vehicles
- Monitor traffic flow and vehicle speed, providing 3D vision for traffic management



3 Traffic Event Detection

- Support 6 types of traffic event detection, including debris detection, pedestrian detection, abnormal parking, weaving driving, occupying multiple lanes, and driving against traffic
- Event detection accuracy $\geq 99\%$



4 Signal Trigger

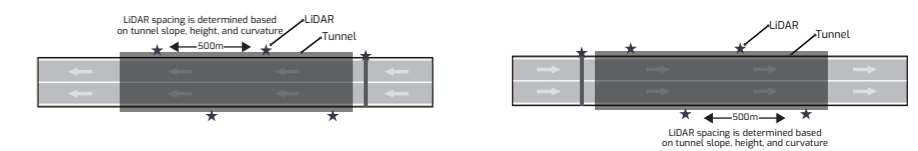
- Work with camera and weighing systems
- Unaffected by light conditions, providing triggering signals 7x24H, reducing light pollution



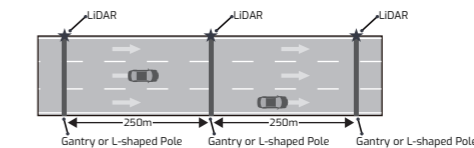
Deployment



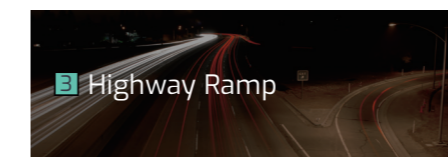
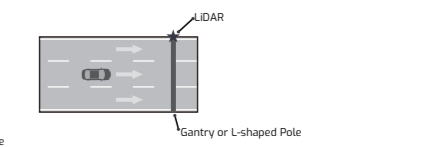
Tunnel Deployment



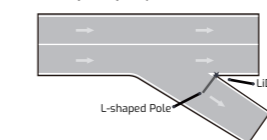
Mainroad Deployment



Traffic Volume Survey Station Deployment



Ramp Deployment



Use Case

