oToBrite

Vision-AI Around View Monitoring System for Passenger Vehicle

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Product Description

When driving a passenger car, drivers often face challenges while limited space for parking, especially in mechanical parking spaces, and difficulties driving through narrow alleys. Therefore, an AVM (Around View Monitoring) system is needed to assist drivers to eliminate blind spot. The AVM system with images captured by four cameras, installed in the front, back, left, and right sides of a vehicle, the system utilizes various image processing technologies to produce a 2D/3D bird's-eye view and images from an different angles. The images are displayed on the vehicle's screen , allowing driver to be aware of objects surrounding the vehicle and to keep away from collision.

oToBrite's AVM also features a transparent chassis function. It utilizes four camera modules of the AVM to gather real-time image. Through image processing, it simulates a real-time scene right beneath the vehicle chassis. This enables drivers to clearly perceive the position of the tires, allowing them to timely avoid obstacles such as road potholes and rocks. Additionally, with in-house vision-AI technology, even based on the same image from four fisheye cameras, multiple advanced functions can be added, such as automated parking assist (APA) or other ADAS functions like LVSA (Lead Vehicle Start Alert), enhanced MOD (Moving Object Detection), ODA (Open Door Alert), etc.
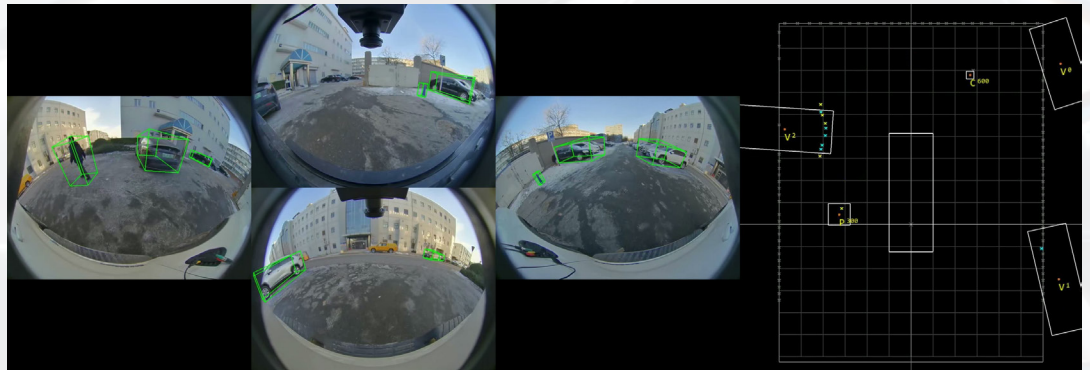
Product Key Features

- Support real-time dynamic image from different angles and 2D/3D bird's-eye view simultaneously
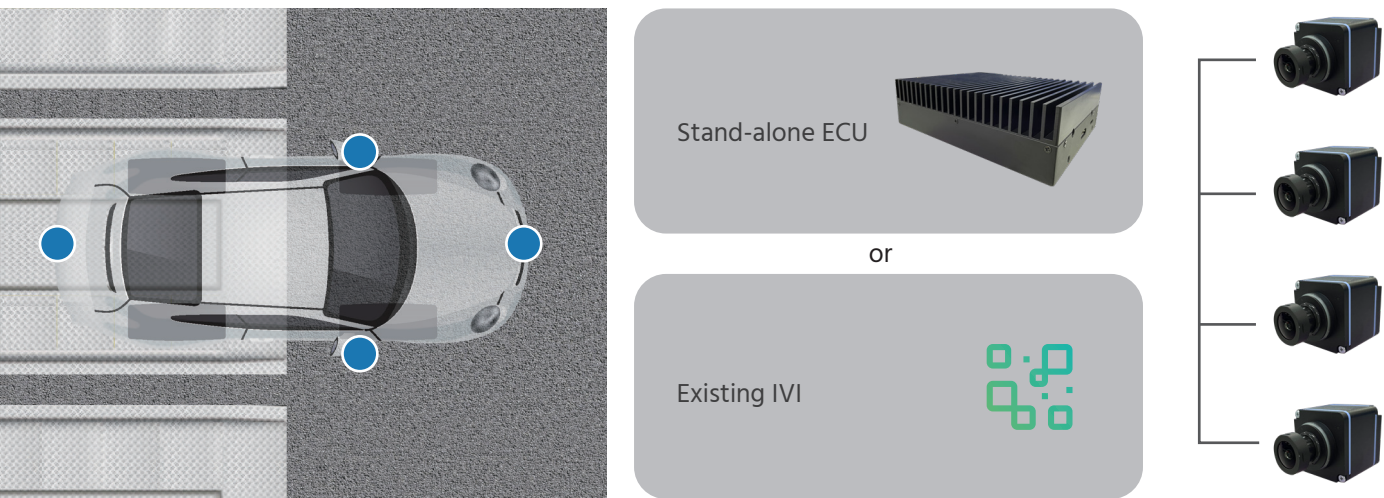
- Enhanced moving object detection can protect vulnerable road users either in moving status or in static status

- Vision-AI technology empower the same fisheye image with more advanced features such as automated parking or other ADAS functions

Business Model

Vision-AI models and image processing technology can run on

Stand-alone ECU

or

Existing IVI

Enhanced Moving Object Detection

	Enhanced MOD - oToBrite	MOD (moving object detection) - existing solution
Active speed	<15kph	<10kph
Warning scenario	Any moving or static vulnerable road users including pedestrian, motorcyclist, or bicyclist	Moving objects
Capability to classify objects	Yes	No

Enhanced MOD

3M

5M

AVM

oToBrite MOD Detection Area
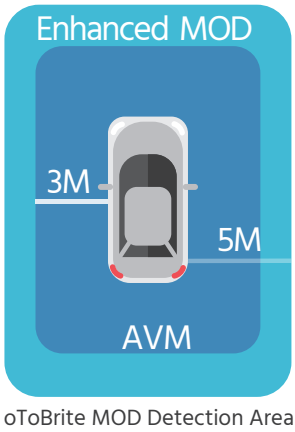
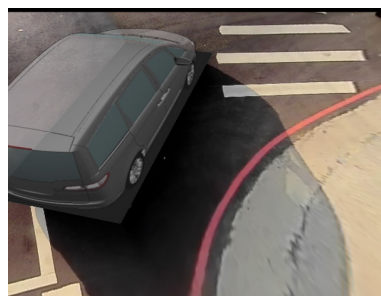## Multiple Mode with Different Angle View
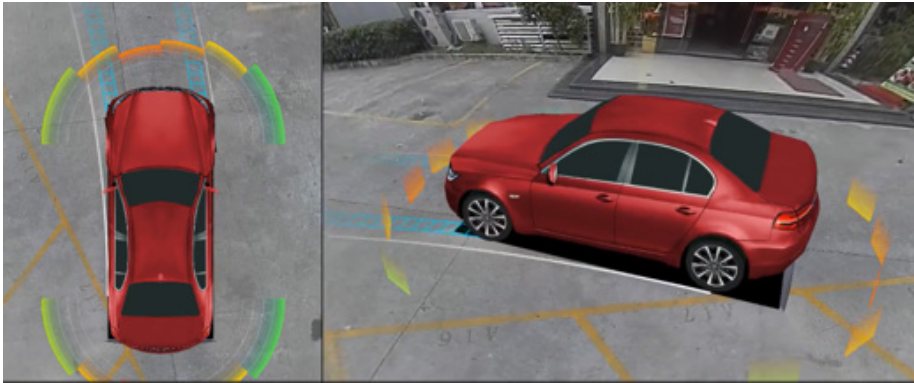
2D surround view

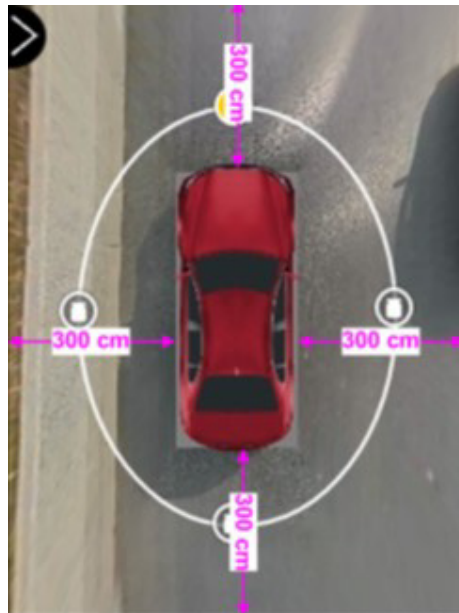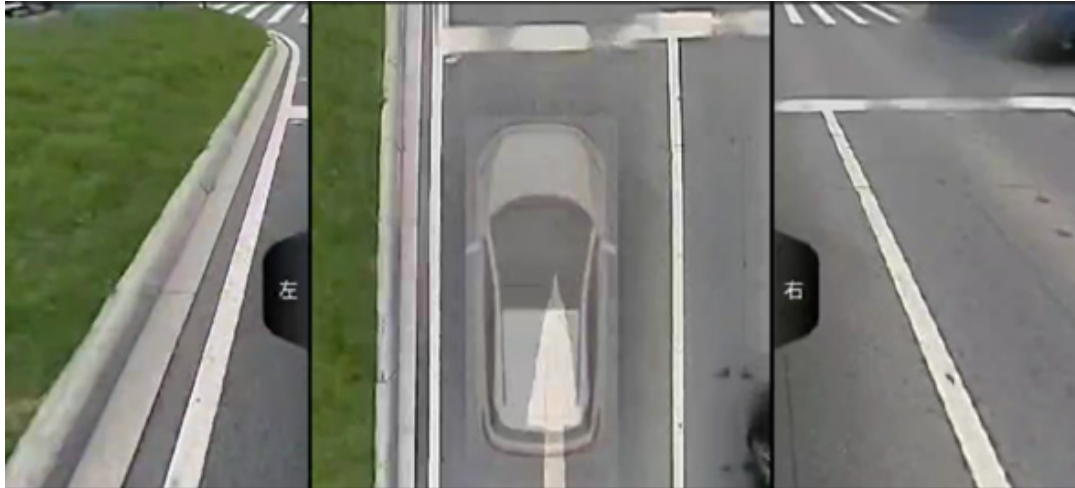3D surround view

3D rear view

3D Right view

3D Left view

AVM and Transparent Chassis System View

driving life easier and safer

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