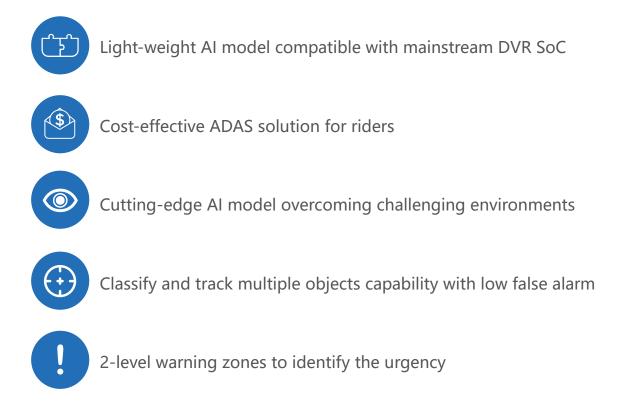




RiderEye -ADAS AI IP for Two-Wheelers

RiderEye is a vision-AI based ADAS software designed for the two-wheeler market. Through the integration of software and DVR SoC, RiderEye can provide rear collision warnings and malicious driving behaviors tracking from images captured by the DVR. It is a cost-effective ADAS solution to enhancing rider safety without much hardware costs and complex installation efforts (by just installing two indicators near the rear-view mirrors). The cutting-edge AI algorithms facilitate classifying multiple objects and identifying real potential risks with low false alarms. They also make sure all ADAS functions work in challenging environments such as low-light, backlight, twilight, raining days, etc. Besides, RiderEye offers a dirty lens reminder to ensure riders are protected at every moment.

Product Features





Light-weight AI Model Compatible with Mainstream DVR SoC

- Vision-AI model computation power requirement: <0.4 TOPS (15fps)
- RAM requirement: 30MB
- Storage requirement: 20MB

Existing hardware oToBrite add-on values

oToBrite ADAS library to enable multiple functions with vision-AI technology

R-ADAS functions : Rear collision warning (2/3 computation power) F-ADAS functions: malicious driving behaviors tracking (1/3 computation power)

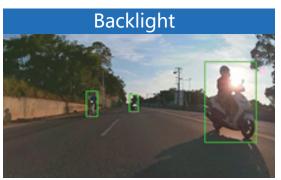


DVR box (almost every DVR SoC has vision-Al computation power)



Cutting-edge AI Model Overcoming Challenging Environments









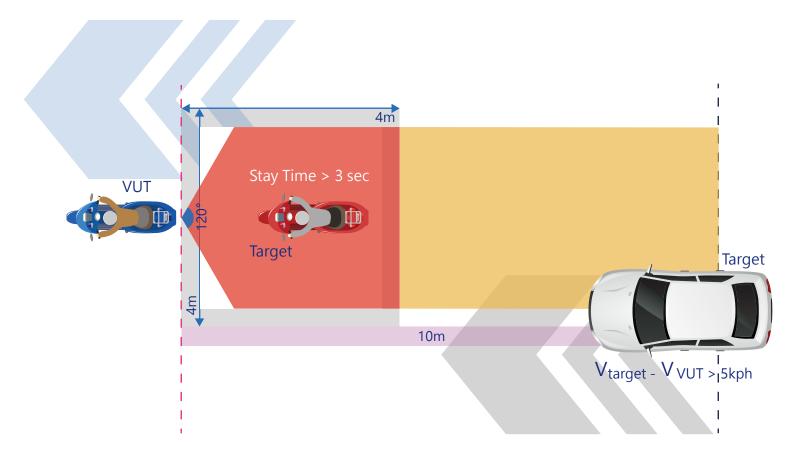
Enhance User Experiences with Vision-AI Technology

- Tracking malicious driving behaviors to lock critical footage with front camera
- Dirty lens reminder to ensure every second count









2-level Warning Zones to Identify the Urgency

Level 1 Warning Zone

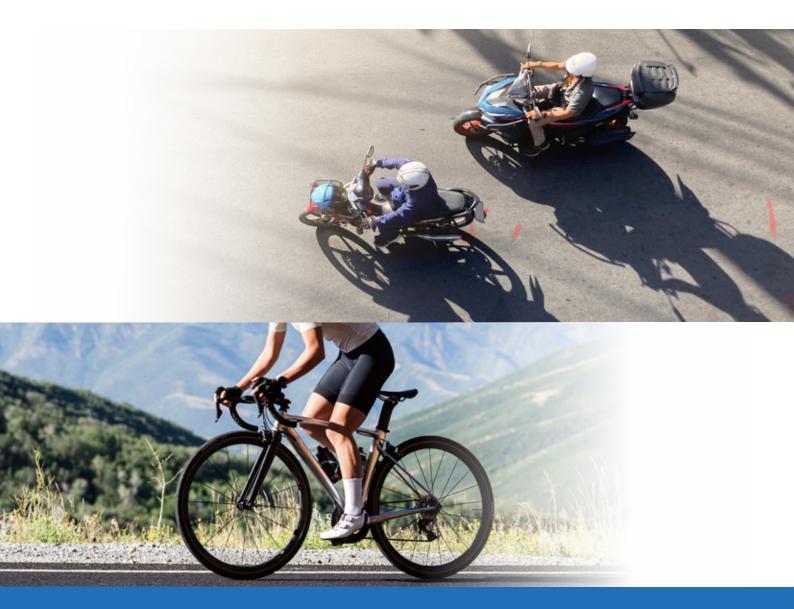
- Lateral distance between VUT & Target <= 4m
- Longitudinal distance between VUT & Target <= 4m
- V target VVUT > 5kph

Level 2 Warning Zone

- Lateral distance between VUT & Target <= 4m
- Longitudinal distance between VUT & Target <= 10m
- V target VVUT > 5kph

Application

RiderEye aims at the two-wheeled market including motorcycles, scooters, and bicycles. Featuring high compatibility with mainstream DVR SoC, RiderEye is a flexible ADAS solution to two-wheeler manufacturers and riders.



driving easier and safer

6F, No.18, Prosperity Rd.II,Science-Based Industrial Park, Hsinchu,Taiwan, R.O.C



oToBrite.com







LinkedIn

🔀 sales@otobrite.com