SWIR IMAGING FOR MASS-MARKET APPLICATIONS

SWIR Capabilities

- Imaging in Adverse Weather
- Imaging at Night
- Remote Material Sensing
- Mounting Position
- Existing AI Algorithms
- Seamless Integration

CMOS-Based Sensor

- 1000x Lower Price
- Low Power Consumption
- High Resolution
- Reliability
- Small Form Factor
- Scalability

SEEING BEYOND THE VISIBLE

CONTACT US

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TRIEYE

TriEye enables HD imaging under all weather and lighting conditions by introducing a cost-effective CMOS-based SWIR sensing solution that provides image data where standard vision cameras just cannot "see".

SOLVING THE LOW VISIBILITY CHALLENGE

One of the most basic challenges for ADAS and Autonomous Vehicles (AV) is the ability to continuously sense and operate under all weather and lighting conditions. This is a major issue since 80% of severe road accidents occur under low visibility conditions.

THE SOLUTION

Based on a decade of nanophotonics research, TriEye introduces unprecedented vision and remote material sensing capabilities in adverse weather and night-time conditions. Its industry-first HD Shortwave Infrared (SWIR) sensing solution enables detection of potential hazards on the road and ultimately - saves lives.

PRODUCT OVERVIEW

The TriEye Raven is a CMOS-based HD SWIR camera suited for mass-market applications. The Raven's innovative sensor design enables HD resolution, low power consumption and a 1,000x price reduction - compared to current InGaAs based technology.
Its ability to utilize existing AI algorithms (e.g. object recognition), allows for seamless integration and enhanced vision capabilities.

APPLICATIONS

ADAS | Autonomous Driving | Robotics
Smart Cities | Industrial | Drones | Agriculture | Maritime

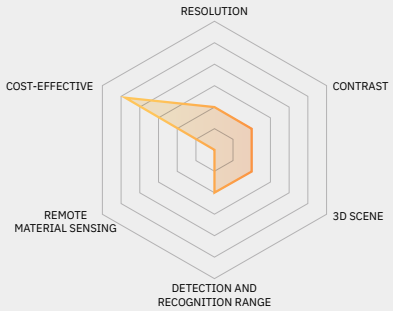
CES INNOVATION AWARDS 2020 HONOREE
Vehicle Intelligence & Transportation

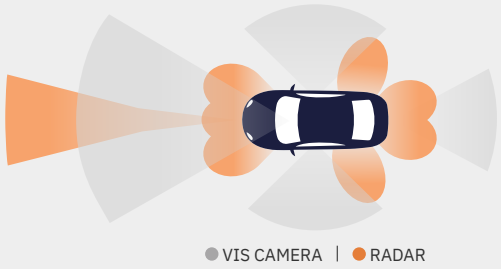
CES INNOVATION AWARDS 2020 HONOREE
Embedded Technologies

AutoSens Awards
Most Exciting Start-up

EXISTING SENSOR FUSION SOLUTION

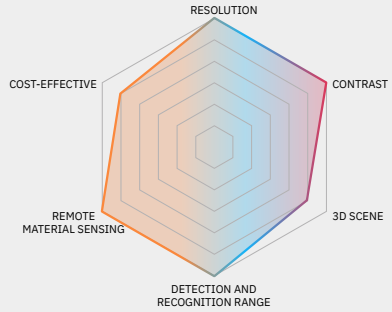
Unable to identify invisible hazards, such as ice on the road and respond under common low visibility conditions:
fog, night-time, haze, dust, etc.

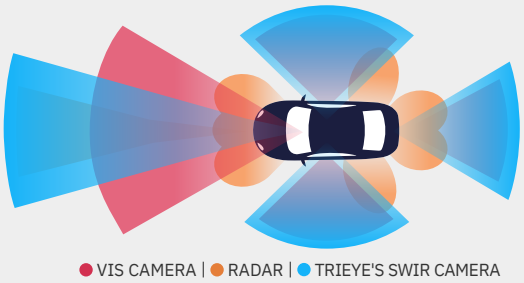




SENSOR FUSION SOLUTION WITH TRIEYE

ADAS and AV systems are able to make reliable and safe driving decisions across all weather and lighting conditions.





TRIEYE RAVEN SWIR CAMERA

FEATURES	THE RAVEN SPECS
Resolution	1280 x 960
Aspect Ratio	4:3
Frame Rate [fps]	120 fps / 30 fps (with HDR)
Size H x W x D [cm]	3 x 3 x 2.5 excluding lens
Output Type	FPD Link III / GMSL II / ETH
Mounting Position	Can be mounted behind glass