

ADAS*XY*[®]
DRIVEN TO SAVE LIVES

VIPER



SEEING THROUGH THE GAPS

Blizzards, driving rain, dust storms, fog, bright sun and other dynamic lighting conditions pose challenges for conventional sensors, such as lidar and cameras being developed for autonomous vehicles or for current driver assist technology. This is true for Levels 2-5, everything from active safety, or what the industry refers to as ADAS, to full autonomous driving. This is a major challenge in crowded urban spaces where pedestrian fatalities continue to rise each year. Recent studies by the American Automobile Association (AAA), [U.S.] National Highway Traffic Safety Administration (NHTSA) and others found current ADAS systems do not provide fully capable pedestrian detection technology.

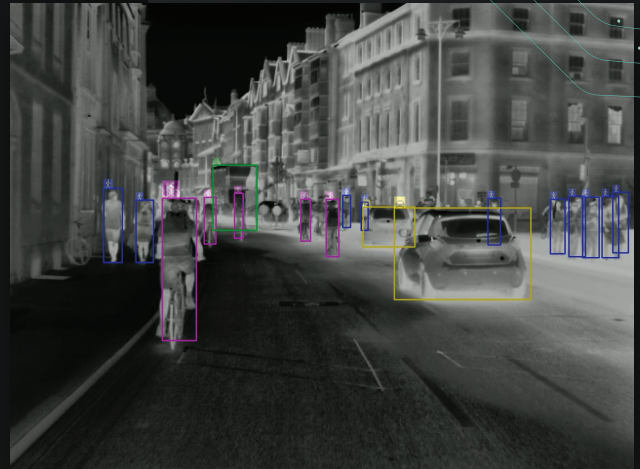
A combination of advanced sensors must work together to ensure the vehicle can “see” everything ahead on the road. ADASKY’s Viper thermal camera is a leading high-resolution, thermal perception system with the capability to fill the perception gaps not covered sufficiently by other technologies.

How ADASKY’s Viper technology works?

Every object produces a heat signature. Viper passively collects this infrared signal radiating from objects and converts it to a detailed, high contrast VGA video. It then applies ADASKY’s proprietary deep-learning, computer-vision algorithms to provide accurate object detection, classification and scene analysis. The computer-vision capabilities include multi-class object detection and classification simultaneously for all road users including, bicycles, motorcycles and pedestrians. Viper can also detect and distinguish animals and other obstacles in the vehicle’s surrounding environment.

Who is ADASKY?

ADASKY is a strong Israeli startup, co-owned by two large global corporates, whose founding team is made up of veterans from the semiconductor, thermal sensor, image-processing and computer-vision industries. This team has the right combination of knowledge and experience to achieve production-ready, thermal sensing technology for smart mobility applications and beyond.



ADVANTAGES

- ✓ Fully passive
- ✓ Superior image quality
- ✓ Easy integration into existing vehicle infrastructure/systems
- ✓ Small size, low weight, low power
- ✓ Low latency
- ✓ Shutterless
- ✓ Dedicated ASIC
- ✓ Software supported by vast thermal data set
- ✓ Affordable, scalable
- ✓ Mass production ready in 2020

Contact us:

+972 77 2518840

Fax: +972 77 2518841

contact@adasky.com