



**Raptor Photonics Limited**, Larne, Northern Ireland, has been chosen by the European Commission to be **one of the 7 partners of the “2 Wide Sense” project**. This project aims at providing the European automotive industry with the next generation of imaging cameras, based on new core sensing technology, allowing both visible and Short Wave infrared (SWIR) response. The goal is to make our vehicles safer and more comfortable in the near future.

The “2 Wide Sense” **5 million Euro project** officially started on **Jan 1, 2010**. During the next 3 years, the research activities will focus on the development and testing of a camera to be placed onboard vehicles, thereby enhancing the perception of the surrounding environment.

The focus of this project is the development and use of innovative sensor and camera technologies that allow the acquisition of multispectral images, which will then be processed to allow Traffic Sign Recognition (TSR, day & night), Vulnerable Road Users (VRU, at night), Road Conditions, Lane Departure Warning, as well as Vehicle and Pedestrian Detection.

Under the “2 Wide Sense” project Raptor Photonics will design a **dedicated ultra compact camera** based on a **new cost effective InGaAs focal plane array**. The sensor will have a **640x512 pixels** format with a **15um pitch**. It will offer an ultra wide spectral response (from Visible to Short Wave Infrared) as well as a wide dynamic range (**120 dB**).

The new cameras developed by Raptor will be tested on vehicle prototypes and their performance compared to current sensors. An enhanced perception is expected thanks to the fusion of visible perception and technologies enabling the invisible perception (Short Wave InfraRed technology, also named SWIR).

The European Commission is committed to **decreasing the number of accidents** and their consequences on European roads. Only 13 projects were selected for funding, out of the 75 research proposals submitted. The positive evaluation of both the proposed research and the consortium partners’ capabilities, as well as their background history and know-how, are the key factors considered for the selection of this proposal. The project partners are:

**UK:** Raptor Photonics Ltd  
**France:** Alcatel Thales III-V Lab  
New Imaging Technologies  
**Italy:** Centro Ricerche Fiat S.C.p.A.  
Optec  
University of Parma, VISLAB  
**Germany:** Adasens



**Raptor Photonics Limited** is a high tech camera company, established in September 2006, and based in Northern Ireland. Its main focus is to design, manufacture and sell the next generation of high performance, cutting edge, low light level digital cameras. Raptor’s cameras are mainly used in scientific and homeland security applications.

For further information regarding the “2 WIDE-SENSE” European Project, please contact Olivier Bernard at Raptor Photonics Ltd: Phone: +44 2828 270 141 Email: [info@raptorphotonics.com](mailto:info@raptorphotonics.com) Web: [www.raptorphotonics.com](http://www.raptorphotonics.com)