RETINA

NEXT-GENERATION PHOTONICS SENSOR SYSTEM

RETINA PROJECT aims to create innovative spectral imagers and chip-based LIDAR sensors and combine them in a versatile multimodal perception system.

The mission is to address the critical demand for performance, cost-efficiency, and customization in key sectors by creating a holistic framework for the agile development of machine learning-based perception algorithms and next-generation hardware solutions.

APPLICATIONS

HEALTHCARE
Identifying tumorous cells and monitoring blood perfusion during surgeries.

AUTOMOTIVE
Enhancing Advanced Driver-Assistance Systems (ADAS) for collision detection in autonomous vehicles.

AGRICULTURE
mplementing precision viticulture solutions for water stress management and pathogen infection prediction.

CORE TECHNOLOGIES

Short- and long-range FMCW LiDARs on chip

Vis-NIR-SWIR Spectral Quantum Dot Imagers

Integrated Optical Microfilters

Ultra-Low-Power Camera Modules

Ground, Vehicle, and Drone platforms

www.retina-project.eu

@ info@retina-project.eu

X @retinaeu

in linkedin.com/company/retina-project

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