INFORMATION AND COMMUNICATION TECHNOLOGIES

# TECHNOLOGY OFFER

## MULTI ENVIRONMENT 3D LASER SCANNER

**Scanning and rebuilding in 3D provides a better inspection of objects and grounds in different environments, facilitating the study of objects and surfaces. The quantity and speed of data acquisition by scanning improves the efficiency and efficacy of decision making related to fields as diverse like cartography, robotic manipulation, construction or inspection.**

## TECHNOLOGY DESCRIPTION

The technology, protected by a patent, consist of a real-time laser scan 3D system with a 3-module sensor: control module, emission or light positioning module and light detector module. The system can be set up depending on speed and resolution requirements, being both inversely proportional.

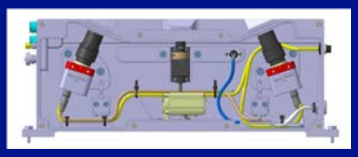
## APPLICATION AND TARGET MARKET

This technology allows the detection and measurement of 3D objects and is suitable for high precision cartography. It can be integrated into an inspection system and/or to a parts manufacturing quality control and/or be docked to a robot for the complete inspection of objects. The technology is suitable for sectors such as robotics, metrology, mapping, and robotic manipulation or generally any field requiring 3D perception.

## COMPETITIVE ADVANTAGES

- It has a unique sensor that allows 3D perception in real time.
- It improves the usability and adaptation to the workspace.
- Improves the scanning speed.
- Better efficacy and efficiency in 3D reconstruction.

Universitat de Girona



### TIME-TO-MARKET

The Technology is in prototype stage, available for proof of concept

### DEAL SOUGHT

License agreement

### RESEARCH GROUP

Computer Vision and Robotics Research Group (VICOROB)

### CONTACT

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