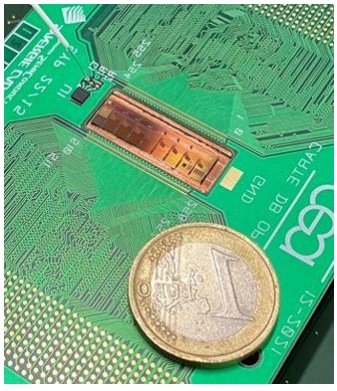
CMOS COMPATIBLE OPTICAL PHASED ARRAY FOR BEAM STEERING

« SELLING » STATEMENT:

An innovative solid state on-mechanical beam steering using an Optical Phased Array (OPA) for a 905nm TOF LIDAR system.



Emitter module integration

KEY FEATURES

A 905nm quasi-2D beam single wavelength beam-steering from CMOS compatible OPA
Potentially very low cost, compact, rugged solution
High-performance and low-cost solid state 3D imaging expected.

Demonstrated within VIZTA:
Feasibility
Increased maturity level of CMOS-compatible OPA technology for 905nm LIDAR

Many research perspectives expected...

3 patents submitted and 4 publications
First demonstration of direct laser-PIC coupling
Demonstration of reduced number of control voltages
Reduction of thermal phase modulator consumption
Demonstration of prober based characterisation of large-scale OPAs

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