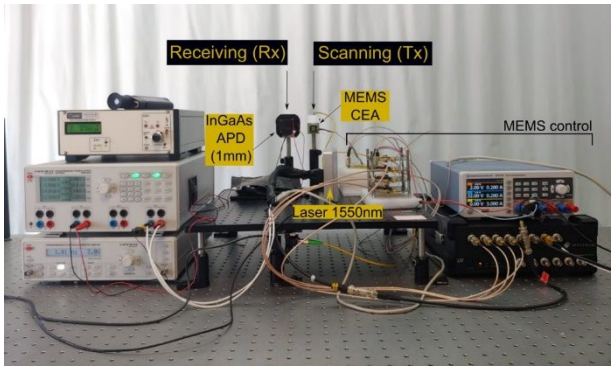
LRL DEMONSTRATOR INTEGRATING VIZTA DEVELOPED COMPONENTS

« SELLING » STATEMENT:

A demonstration of successfully developed components integrated in a specific VIZTA architecture for LRL LIDAR



LRL Demonstrator integrating CEA-LETI MEMS mirror and Lumibird fibre laser (λ=1.55μm)

Drivable demonstrator

KEY FEATURES

Competitive advantages
Solid-state lidar with strong IP protection
High resolution lidar imaging suitable for easy image fusion.
Full Class 1 eye safe (λ=1.55μm)
Multimodality enables improved AI perception

Demonstrated within VIZTA
Specification, testing and validation of each of the LRL lidar subcomponents (PIN detector, fibre laser, MEMS mirror) in dedicated setups.
Operative optomechanical designs at λ=1.55μm for receiving and transmitting
Dedicated front-end optimized for APD amplification in InGaAs
Dedicated tools and strategies for validation of specs of components

Further research
Improved detector for stunning performance with immediate opening of market.
TRL rise in MEMS mirror for commercial use

Statement
Significant gain in experience (qualification of components)
New projects started

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