



**MECCANICA 42**

## **CamiL – Camera in the Loop**

---

Brochure

# AGENDA



Introduction 03

What can you do with CamiL? 04

Key performances of CamiL 05

Customization 10

# Introducing CamiL: bridging the gap between real-world and simulation environments.

Unlock the power of camera-based vehicle functions in your driving simulator lab with CamiL.

Integrating virtual scenarios into your setup, CamiL immerses your camera in lifelike simulations through an advanced system of lenses and monitors.

But that's not all – CamiL goes beyond visuals. With virtual sensors complementing your suite of sensing devices, experience the full spectrum of ADAS functionalities in action.



# What can you do with CamiL?

CamiL enables to test all the functionalities of the vehicle's vision devices in a controlled environment.



 FuSa  
Fault injection

 SOTIF  
Management of predictable risks

 Vehicle Dynamics  
ADAS/AD



# Key features of CamiL

CamiL allows the introduction of the camera-based vehicle functions into a driving simulator laboratory.



Optional camera blinding system  
Simulate emergency situations



Fully adjustable camera position  
X, y, z and pitch angle

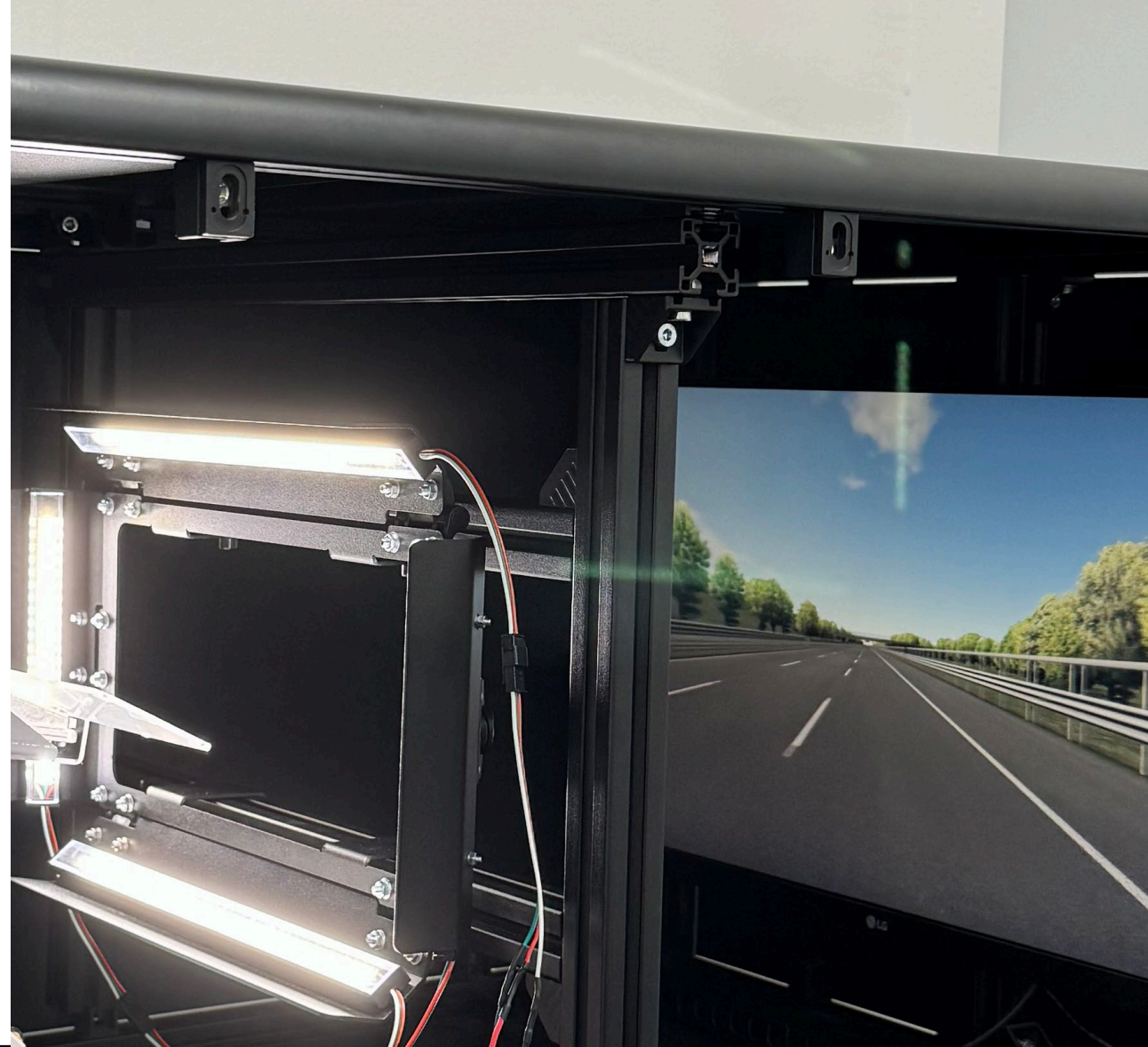


Communication protocol with the real time machine  
CAN, Flexray, others

# CamiL

CamiL offers the option to integrate our advanced blinding system.

This enhancement allows CamiL to realistically replicate various scenarios, accurately simulating the effects of sudden flashes of light on camera performance.



Blinding system

# CamiL can be a built-on-you product

Imagine a product that feels like it was made just for you - because it was.



What can you custom on your CamiL?

- ✓ Camera adjustable linkages to CamiL
- ✓ Camera field adaptation lens
- ✓ Connectors/Tuning controls and interfaces



**MECCANICA 42**

**Legal Office**

Via XX Settembre, 50  
50129 Firenze  
Italy

**Operational Headquarters**

Via Ezio Tarantelli, 15  
50019 Sesto Fiorentino (FI)  
Italy