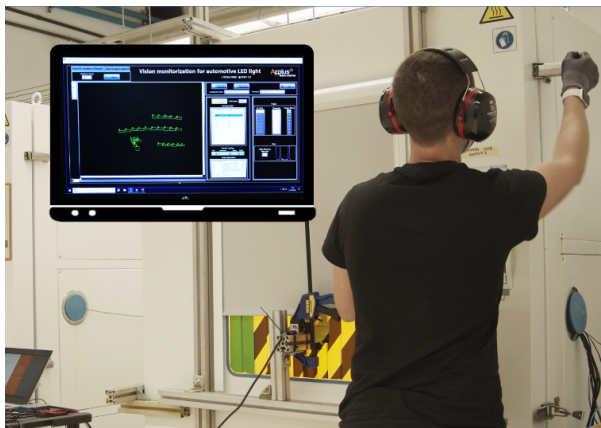


# Video Monitoring Systems for Auto LED Lights Testing

Applus+ Laboratories has developed an innovative monitoring system to measure the light intensity of LED luminaires with utmost precision. Operating with video data capture and a processing system, the tool can be used for environmental, EMC and electrical testing.



With the arrival of LED lights in the automotive sector, luminaires have been developed with new functionalities, like dynamic patterns with colour changes, animations and changing light intensities. To accurately test the reliability of these lighting systems in laboratories, new monitoring systems are required.

## A vision monitoring system

This new monitoring system is built on video camera-based light intensity capture, proprietary data acquisition and post-processing software. Capabilities:

- Dynamic pattern analysis
- Capture of up to 50 regions of interest
- High-speed data acquisition, up to 40ms at 25fps
- Same level data quality as with luxmeter measurement

The monitoring method is non-invasive and the system can be installed in functional tests for [climatic simulation](#), [electromagnetic compatibility](#) and electrical functionality.

## A custom tool for each luminaire



The tool can be customised according to customer requirements and the level of data accuracy needed. Our programmers adapt the software to the specific characteristics of each luminaire and to the level of detail to be obtained in the post-processing of the data. To guarantee the level of accuracy required from the measurements, customised tooling is developed for the set-up.