

# litos

Advanced LED Lifetime Stability  
Measurement System



16 / 32 Parallel  
Stressing  
Channels

4 Weathering  
Chambers

Accelerated  
Lifetime  
Testing

[www.fluxim.com](http://www.fluxim.com)



 swiss made software

## LED Stability Lifetime Measurement System

Litos is an advanced LED stability lifetime measurement system. It has 16, or 32 parallel stressing channels distributed over 4 weathering chambers. Each chamber has an individual temperature and illumination control.

The wide range of stress conditions inside a highly-controlled experimental environment and full automation make it a primary choice for researchers that want to understand the degradation behavior of *organic, perovskite, and quantum-dot solar cells LEDs*.

### Litos Features

- Advanced lifetime analysis
- 16 or 32 parallel channels
- Flexible sample design
- Temperature control
- 4 weathering chambers
- Fully automated
- Professional, user-friendly software

LED



### Advantages

- Design customized to customer's sample layout (multiple layouts possible)
- Modular: connect several systems together
- Compatible with external atmosphere-controlling equipment
- Automatic parameter extraction and plotting over time

### Technical Specification

Voltage range	-9 V to 9 V
Maximum current	60 mA /channel
Temperature range	0 – 85 °C
Sample size	Up to 20mm diameter
Illumination	390nm (UV), 450nm + 580nm (white)

## For Organic/Perovskite LEDs

Maximum power point (MPP) tracking, constant voltage/current

Independent **white and UV LED** illumination

In-situ UV-vis absorption possible for bleaching detection (extra spectrometer module)

In-situ **PL and EL** measurements possible

Constant current, constant voltage

**Patented** LED accelerated aging and lifetime estimation integrated

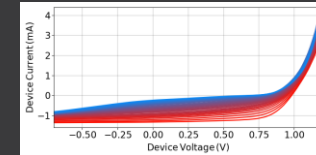
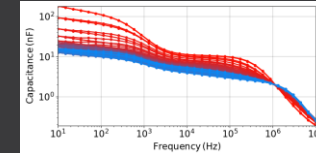
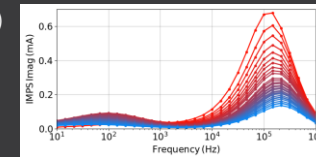
In-situ spectrometer available (extra module) for electro-luminescence measurements

Available for top and bottom emission LEDs

LED

When paired with our platform **Paios** repeated full characterization of the devices can be automatically performed including:

- Transient measurements (CELIV, DLTS, TPV, TPC, TEL...)
- Impedance spectroscopy / CV / IMPS / IMVS
- Dedicated stressing routines for OLEDs
- All measurements as function of temperature



**litos**

Advanced LED Lifetime Stability Measurement System

**FLUXiM**

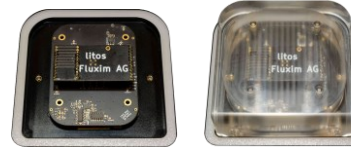
## Custom-Made Sample Holders

Litos sample holders are custom-made according to the specific layout of our customers. Multiple boards with different layouts can be delivered.

The board can be quickly replaced in the testing chamber by the user. Depending on the selected configuration, up to 8 LED pixels can be stressed individually in each chamber (32 devices in total).



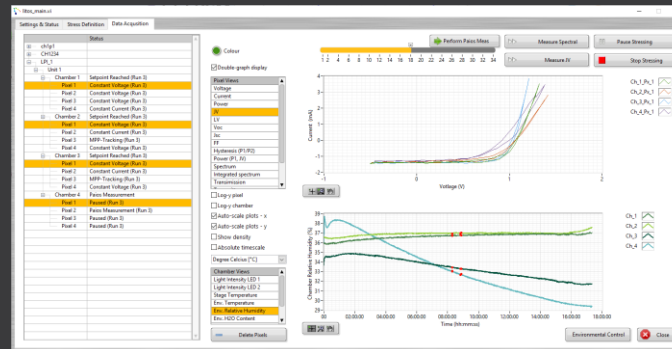
Peltier & LED arrays



Electrode board on top of sample

Cover of single chamber

## Perform In-Depth Degradation Analysis



## Support

Full technical support is included with every purchase of Litos.

Contact us today to discuss how Litos can advance your R&D.

[hardware@fluxim.com](mailto:hardware@fluxim.com)



## Trusted by Academics & Industry



**FLUXiM**

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