

LEDs CHARACTERIZATIONS BENCH EVALUATION IN CRYOGENIC ENVIRONMENT

AdvEOLED-Cryo Bench

DESCRIPTION

The AdvEOLED-Cryo characterization bench enables to characterize up to 390 different references LEDs (dimension and type).

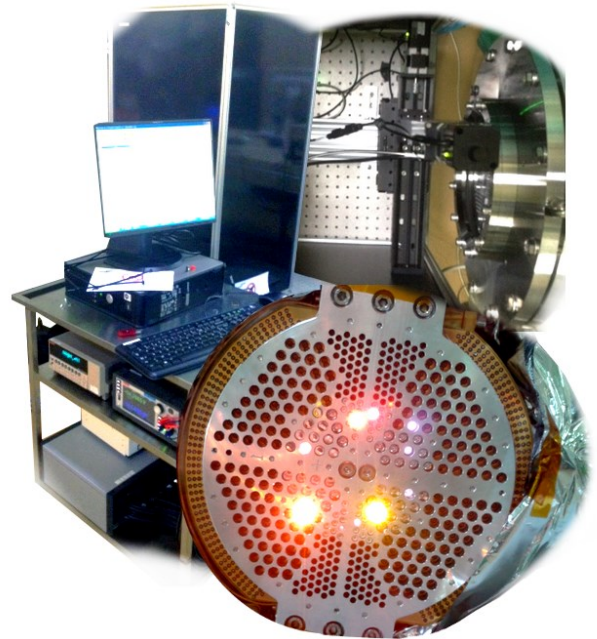
This bench is designed to monitor in real time the performance of optical components tested in a cryogenic environment. It also adapts to different environments according to the user's need. It is equipped with :

- a unitary power supply control system with a micromechanical interface and printed circuit board dedicated to cryogenic environments
- optoelectronic measuring systems, positionable by motorized, software-controlled stages.

The software moves and searches for the optimum for each LED to be measured. The user therefore benefits from precise and repeatable over time characterizations.

A specific ignition sequence is ensured to guarantee the cryogenic temperature of each LED at the time of measurement.

This bench is built, assembled and tested in our workshops and laboratories.



Your components

Sources : LED

MAIN CHARACTERISTICS

Specifications

- Current and voltage source
- Voltage and LED current measurement
- Radiometric measurements of each LED
- Spectrometer with adapted fiber
- 2-axis motor
- Computer + Acquisition and visualization software

Applications

Evaluations and qualifications of LEDs components
Testing laboratories
Entry and production control
Components burn-in

Advantages

Without LEDs welding (supports)
Measurements repeatability
Characterization of multi-vendor LEDs
Control and archiving via dedicated (text file)
Materials for vacuum and cryogenic environments
Automated measurement

TYPE	DESCRIPTION	TYPE	DESCRIPTION
Monitoring, Measurements	Measurements on each P(I), I(V), P(t) LED and spectrum Continuity measurements Positioning and alignment measurement Optimum search	Cryogenics	Cryogenic environment > 90°K Dedicated PCB and temperature monitoring Cryogenic micromechanics
		Mecanics (measurements)	Automated positioning X, Y Optical table, enclosure

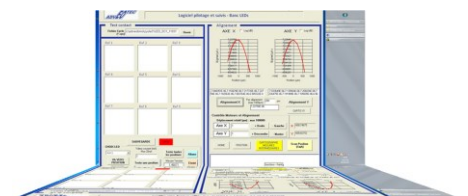
Safety & Training

AdvEOTec offers a training and implementation assistance for the use of its equipment.

Control

This bench has a control and measurements software : micrometric displacements, optimal position searches, raw data measurements, time-stamping, archiving, etc.

*Other configurations, contact us...



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