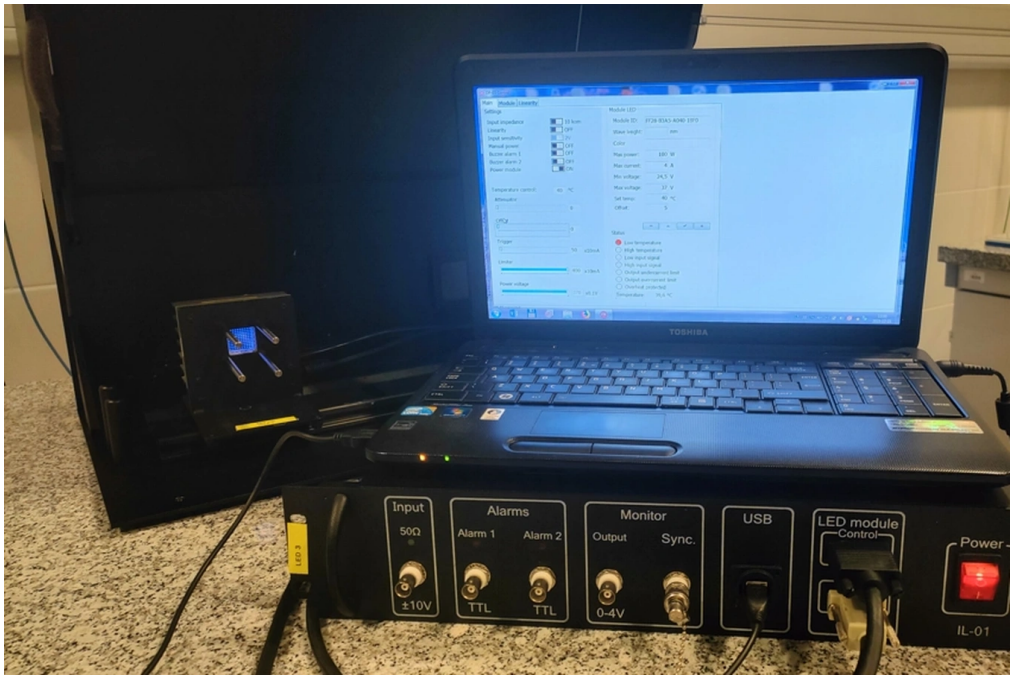
AGH Research Offer

LED control system



Technical description:

The LED controller is a device that controls LEDs with a power of up to 100 mW. The set of diodes includes LEDs with light wavelengths: 365, 385, 405, 460, 510, 530, 620, 660, 735, 860, 940 nm, as well as white light diodes (3000K, 4000K, 10,000K). The device allows you to control the light intensity in 1% steps.

We can connect an external signal generator to the device. The frequency response for sinusoidal light is 100 kHz, for rectangular pulses it is 10 kHz.

Trade name: LED control system CHIP company

More details: /equipment/naswietlarka-diodowa/

Access type: External

Type of accreditation / certificate: Not applicable

Contact person: Podborska Agnieszka

Contact person url: https://skos.agh.edu.pl/osoba/agnieszka-podborska-7440.html

Responsible body: Academic Centre for Materials and Nanotechnology

Group / laboratory / team: Department of Semiconductors Photophysics and Electrochemistry

Last update date: March 10, 2025, 1:26 p.m.

Year of commissioning: 2023

IDUB research areas:

(PRA 5) Materials, technologies, and processes inspired by nature: biotechnology, bioinspirations in engineering and materials science, biosensors, bioenergetics, biocatalysis, biocomputers, and biocomputation
(PRA 7) Design, production, and testing of modern materials and the technologies of the future based on a multidisciplinary approach combining materials engineering with chemistry, physics, mathematics, and medicine

Research capabilities:

The LED controller can be used for various types of experiments that require the use of a precise light source. It can be used to study semiconductor materials, neuromimetic systems, and light-activated syntheses.

Conditions for providing infrastructure:

Sharing apparatus on the terms resulting from the Regulations Using the ACMiN Research Infrastructure. (https://acmin.agh.edu.pl/home/acmin/5_Wspolpraca/Aparatura/Zasady_i_koszty_korzystania_z_infrastruktury_badawczej_ACMiN.pdf)