

## FOTONICA PLUS CO. (UKRAINE)

— a high-technology company engaged in the development and production **of laser and photonic instruments for science, education, and medicine.**

We design and manufacture state-of-the-art scientific equipment that combines **precision, stability, flexibility, and affordability** — forming the foundation for the advancement of photonics, biology, and experimental medicine laboratories.

Our medical technologies are already being implemented **in clinics across Ukraine**, while our scientific **platforms LIKA-LD and LIKA-LED** are utilized at leading universities and research centers in Ukraine and Kazakhstan.



## Our Strengths:

- Localized production in Ukraine based on proprietary designs.
- Certified in accordance with ISO 13485:2016.
- Capability for customization to meet specific research requirements.
- Flexible and competitive pricing policy optimized for educational and scientific projects.



# DIODE LASER APPARATUS “LIKA-LD”

A universal research-grade instrument designed for experimental studies in laser physics, optoelectronics, biomedicine, biology, and materials science.

## Design

- The apparatus consists of an electronic control unit and a set of interchangeable laser modules.
- The design enables simultaneous connection of up to three independent laser modules, providing flexible control over power, pulse duration, and modulation modes.
- It also supports irradiation dose monitoring to ensure high precision and reproducibility of experimental results.

## Laser Modules

- The modules operate at various wavelengths, covering the spectral range from ultraviolet (UV) to near-infrared (NIR).
- Each module is equipped with an integrated thermoregulation system, ensuring long-term stability of output parameters during extended operation.



**LIKA-LD** serves as an efficient instrument for the development of state-of-the-art photonics laboratories and for conducting applied scientific research in Europe and Ukraine.

# LIGHT-EMITTING DIODE APPARATUS “LIKA-LED”



**LIKA-LED** is a universal research platform for investigating light-matter interactions in biological systems, materials, and various media, designed for advanced photonics laboratories.

**A state-of-the-art research instrument developed for experimental studies in the fields of biology, medicine, photonics, and materials science.**

## Design

- The apparatus consists of an electronic control unit and a set of LED handles emitting in various spectral ranges, from ultraviolet (UV) to near-infrared (NIR).
- The system architecture allows parallel operation of up to three independent emission channels.
- It provides flexible control over power, irradiation time, and frequency–amplitude modulation parameters.
- Irradiation dose monitoring ensures high precision and reproducibility of experiments.



We bring together science, engineering and manufacturing to build in Ukraine a photonics research and development platform.

Together with **Vinnitsia National Technical University**, the **Institute of Physics of the National Academy of Sciences of Ukraine** and the **Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine**, we are establishing a network of shared laboratories open for international cooperation.

Within the framework of the European initiative **LASER-PRO** we aim to strengthen the European-Ukrainian photonics ecosystem — through joint research, educational programmes and manufacturing.

We are open to new partnerships, collaborative projects and proposals aimed at advancing photonics science and technology.

## Contact us:

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