



Electro Optical Components, Inc.

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About the Company

INTRODUCTION

LED Microsensor NT LLC is a novel company focused on developing and manufacturing optoelectronic devices for the mid-infrared spectral range. The company offers a wide range of Light Emitting Diodes (LEDs), LED arrays and spectral matched Photodiodes (PD) that cover the spectral range from 1600 to 5000 nm, together with other related electronic devices (LED Drivers and PD Amplifiers).

Our key technology is the epitaxial growth (Liquid Phase Epitaxy and Metalorganic Chemical Vapor Deposition) of narrow-band-gap semiconductors based on GaSb-InAs solid solutions.

The company has a professional team of leading Russian scientists with more than 15 years' experience in the research and development of heterostructures for the mid-infrared

spectral range, the design of optoelectronic devices, customer guide and support.

In Nov 2011, the Rusnano Corporation made an investment in LED Microsensor NT in order to expand the current optoelectronic component base of mid-infrared LEDs, LED arrays and PDs and to offer new products: optical modules and sensors.

We propose our product as a new powerful base for optical absorption analysis. One of the greatest advantages of this method is that virtually any sample in virtually any state may be studied; liquids, gases, films, powders and surfaces can all be examined with a proper choice of sampling technique. Using LED-PD optopairs for the mid-infrared spectral range has allowed the development of portable sensors with high reliability and adequate accuracy that can be successfully applied in different areas for matter analysis purposes.

STANDARD PRODUCTS

Light Emitting diodes (LEDs), Photodiodes (PDs)



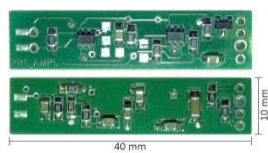
LED & PD chips, LED & PD wafers, LED & PD arrays



Electronic Devices (LED drivers, PD amplifiers) and Evaluation kits



LED driver



PD preamplifier board



Synchronous detector



Evaluation system for CO₂ (or CH₄) detection



3-pass gas chamber