Types of optical modules in Bulgaria



Overview

Top 9 Optics Manufacturers in Bulgaria (2026) | ensunARE Optics is a manufacturer specializing in custom-made optical components for various applications.

Key Takeaways

Bulgaria hosts several advanced manufacturers of precision optical modules, serving defense, medical, scientific, and industrial sectors with high-quality lenses, prisms, night vision devices, and custom optical components.

Leading Bulgarian Optical Manufacturers

Technooptic (Sofia) specializes in highly precise spherical, cylindrical, and flat optical components. Their production complies with international standards such as ISO, DIN, and MIL, and they serve optical, medical, scientific, and defense sectors.

OPT

Aplus BG JS

C produces custom precision optics, including lenses, plano optics, and prisms, offering comprehensive design and manufacturing services while adhering to major optical standards.

Opticoelectron Group JS



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Co is a major player in optomechanical, optoelectronic, and laser devices. With over 50 years of experience, they manufacture day, night, and thermal optical sights, SWIR lenses, laser range finders, and optical systems for armored vehicles. They export over 97% of their production to the EU, North America, and the Middle East, and hold ISO 9001: 2008 certification, NATO-SECRET clearance, and US government supplier registration.

Titoptic Ltd (Sofia) produces precision optical components and complete systems for optomechanical and optoelectronic devices. They offer coatings such as anti-reflection, aluminum, silver, high-reflection dielectric, neutral density, and dichroic filters, with surface accuracy up to L/20. Their products comply with ISO10110, ISO1101, DIN3140, and MIL-O13830 standards.

Optical Elements and Systems Ltd (Sofia) manufactures precision optical components and complete systems for European, Middle Eastern, and US markets, emphasizing high-quality production and experienced technical support.

Applications and Capabilities

Bulgarian optical modules are used in: Defense and security: night vision goggles, thermal and day sights, laser range finders, and armored vehicle optics. Medical and scientific research: precision lenses, prisms, and optical systems for laboratory and imaging applications. Industrial and consumer electronics: VR headsets, cameras, and optoelectronic devices.

These manufacturers provide custom solutions, high-precision components in both visible and infrared spectral bands, and comply with international quality standards, making them competitive in global markets.

Summary

Bulgaria has a robust optical industry with companies capable of producing high-precision optical modules for a wide range of applications. Key strengths include adherence to international standards, advanced coatings, custom design capabilities, and extensive export experience, particularly in defense, scientific, and industrial sectors.

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Article Content

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ARE Optics is a manufacturer specializing in custom-made optical components for various applications, including cameras, VR headsets, and night vision goggles. The company emphasizes cutting-edge

Technooptic

Technooptic is specialized in production of highly precise Spherical, Cylindrical, Flat optical components.

night vision goggles and binoculars; thermal and night sights,military

OPTIX is the only company in Bulgaria, which develops and manufactures a full range of special optronic devices and systems for the army and police forces: night vision goggles and binoculars;

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Optical Elements And Systems

Optical elements and systems Ltd is a private limited liability company established in 2002 in the city of Sofia, Bulgaria. We are specialized at manufacturing of precision optical components for

Plant For Optics – Plant for Optics

Plant for Optics is an optics manufacturer and internationally operating company, focusing on precision and high-quality optical components and opto-mechanical products under customer''s specification.

LIMOTEC :: production and distribution af optical components

Limotec Ltd is a private limited liability company established in 2002 in the city of Sofia, Bulgaria. We are specialized at manufacturing of precision optical components for optomechanic, optoelectronic

Opticoelectron

The company has more than 45 years old history and traditions, and it is considered as a leader of optical devices production in Bulgaria, as well as an international market leader.

APC, UPC, PC Fiber Connector Types Comparison and

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APC, UPC, PC Fiber Connector Types Introduction Before introducing APC, UPC and PC connectors, it should be aware that In order to

What is QSFP & QSFP+ Transceiver: An Ultimate

QSFP Transceiver Types Although there are many types available, we typically categorize them using various attributes. By Media Type QSFP

Top Fiber Optic Telecommunications Companies in Bulgaria

Electronics Communication Modules Fiber Optic Telecommunications Close Filter Result configuration LonglistBalancedShortlist Continents Select continent Locations Bulgaria Result types

The Internal Components and Structure of The Optical Transceiver

This article will focus on the internals of the optical transceiver including the TOSA, ROSA and BOSA, and PCBA. Through this article, you will know the details of the components and

400G Optical Modules Explained: SR4 Vs. DR4 Vs. FR4 Vs. LR4

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center network.

800G Optical Modules Explained: Standards, Types & Use Cases

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power AI, HPC & next-gen data centers.

What is Optical Transceiver: A Beginner Guide (2024)

What is an Optical Transceiver? An optical transceiver, also known as a fiber optic transceiver or optical module, is a small packaged device that

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Optical Manufacturer/producer Bulgaria

Eurolan Ltd. is a Bulgarian manufacturer of active fiber optic network equipment - media converters, fiber optic switches, and SFP modules. Our products are intended for use as First Mile devices...

EML vs VCSEL vs CW Laser: Optical Transceiver Guide (2025)

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Compare EML, VCSEL, and CW laser technologies in optical transceivers. Covers cost, reach, speed, the 2025 EML shortage, and silicon photonics alternatives.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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