



Electro Optical Components, Inc.

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Competence in
laser + LED
technology
optoelectronics
fiberoptic
spectrometry

A horizontal banner with a rainbow color gradient from blue on the left to red on the right, with yellow and green in the middle. The banner is slightly curved and has a dark shadow underneath.

IMM Photonics GmbH

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Since its incorporation in 1992, IMM Photonics GmbH has evolved and established itself as a manufacturer, distributor and service provider in the fields of laser technology, optoelectronics, fiber optics and biophotonics. Our headquarter is located in Unterschleissheim (north of Munich, Germany). Our manufacturing location is in Viechtach (Lower Bavaria, Germany).



IMM Photonics, Unterschleissheim



IMM Photonics, Viechtach

After successfully implementing a quality management system, the company has been certified according to DIN EN ISO 9001 since 2005. Our Products are compliant to RoHS-requirements (2011/65/EU of 08.06.2011).

Organizational Philosophy

It is our objective to come up with efficient and innovative solutions for you – in close cooperation with you!

For us, working efficiently and innovatively means transferring our wealth of experience to pioneering technologies. When developing products and processes, we attach significant importance to selecting suitable raw materials and manufacturing methods that protect the environment and our employees as much as possible. After all, acting with forethought is one factor in ensuring sustainability.

As a manufacturer and service provider we develop and produce laser diode modules and collimators, fiber testers and fiber-optical components, LED light sources as well as complete systems such as spectrometers for a wide variety of applications.

As distributor for selected companies, we sell laser diodes, optics, UV products, optoelectronic components as well as fiberoptic equipment (video inspection microscopes, fiber cleaners).

Nearly 50 staff members, among them 15 engineers, support our high level of technical know-how and the outstanding quality of our products.



Components

IMM Photonics sells different laser diodes, optical and optoelectronic components.

Selected cooperation partners supply high quality components allowing us to manufacture high-tech products.

Laser diodes:

intense

High power laser diodes and arrays

QDLASER

660 nm laser diodes, NIR-DFB laser diodes

Panasonic
ideas for life

405 nm laser diodes

Optoelectronic:

Texas Photonics, Inc.

Optoelectronics, customized products

iC-Haus

Optoelectronics, laser diode driver IC's

UV products:

SEOUL

UV-LEDs

제니컴
Genicom

UV-Detectors

Fiberoptic equipment:

LIGHTTEL
TECHNOLOGIES INC.

Equipment, fiber optic connector end face inspection and cleaning

USCONEC

IBC™ Brand Cleaner LC, SC, IBC™ Brand Cleaner MPO, etc.

Fiberoptics:

OPL OPTO-LINE, Inc.

Fiberoptic devices

Gould Fiber Optics

Fiberoptic coupler

Optics:

TOWER
OPTICAL CORPORATION

Optics, waveplates, filters, beamsplitters, prisms

Helvoet

High tech polymer moulded optics

Polymer
Optics
Limited

LED-Optics

antervon

Aspherical lenses

HOYA

Aspherical lenses

For further details please do not hesitate to contact sales@imm-photonics.de.

Laser diode modules and laser diode collimators

IMM Photonics develops and produces laser diode modules, laser diode collimators and customized products

| | | |
|---|---|---|
| <p>Laser diode modules</p> | <p>Wavelength:</p> | <p>405 nm to 1060 nm</p> |
|  | <p>Output power:</p> | <p>up to 150 mW</p> |
| | <p>Features:</p> | <ul style="list-style-type: none"> - Adjustable focus - Collimated beam - Homogeneous laser line - Gaussian laser line - Crosshair modules - Modules with VCSEL diode |
| | <p>Laser diode modules with external thread</p> | <p>Wavelength:</p> |
|  | <p>Output power:</p> | <p>< 1mW</p> |
| | <p>Features:</p> | <ul style="list-style-type: none"> - Laser diode module with external thread for industrial use |
| | <p>Laser diode collimators and LED collimators</p> | <p>Wavelength:</p> |
|  | <p>Output power:</p> | <p>up to 150 mW</p> |
| | <p>High power TEC-module-series</p> | <p>Wavelength:</p> |
|  | <p>Output power:</p> | <p>up to 0.5 W, varies with model</p> |
| | <p>Features:</p> | <p>The TEC-module offers exceptional wavelength stability (< 0.01 nm) and power stability (< 1 %), good pointing accuracy and significantly increased laser diode lifetime.</p> |
| <p>Customized products</p> | <p>In addition to the standard portfolio IMM offers custom designed solutions on request.</p> | |
|  | | |

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Systems

IMM Photonics develops and manufactures spectrometers, LED light sources as well as customer specific systems.

Spectrometer ilumspec



Radiation sources can be LEDs as well as lasers, which cover the entire spectral range of the ilumspec.

Fields of application:

The spectrometer ilumspec has a resolution of < 2 nm along the entire waveband of 360 nm – 1040 nm. Our spectrometer distinguishes itself by the following unique features:

- ▶ an integrated sensor head
- ▶ two exchangeable light sources

Three different sensor heads are available; they serve to transport the light of the light sources to the probe and guide the probe's response to the spectrometer.

- ▶ Spectroscopy
- ▶ Microscopy
- ▶ Measuring of optical filters
- ▶ Spectroradiometry (e.g. color measuring of textiles and paints)
- ▶ Bioanalytics (e.g. examination of biological or clinical-chemical substances)
- ▶ Environmental technology (e.g. examination of pollutants).

LED light sources ilumLED and Octolight



The ilumLED and the Octolight are compact LED light sources with four integrated LED chips.

These four LEDs can be controlled independently of each other and are homogenized by means of a special optical unit to prevent color aberrations from occurring during color mixing.

For the ilumLED and the Octolight two standard LEDs are available:

- ▶ RGGB-LED
- ▶ WISPEC-LED (supplies a continuous spectrum from 400 nm – 750 nm).

The ilumLED and the Octolight serve as light source in microscopes and in places that are difficult to access, because it is available in open distribution as well as fiber-coupled versions. In combination with the WISPEC-LED, it serves as a halogen substitute. It is, of course, compatible with the ilumspec.

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Fiber Optic Components

IMM Photonics develops and produces Fiber Optic Components like Receptacles, Multiplex-Modules and Fiber Collimators in Germany. Nearly all of these components are customer-specific. We always try to develop the best solution for your individual requirements.

Receptacles



We offer a wide variety of economic standard housings and diodes.

Our standard casings are:

ST, SMA, SC, FC/PC, FC/APC, LC, FIBERDIP, Universal

Of course it is also possible to design the housing accordingly to your specific requirements. Due to our large pool of suppliers we always find the most suitable diode for your individual specification.

Multiplex-Modules



Units shown represent a fraction of solutions designed to customer specification.

Due to our platform strategy we are able to reconfigure within a short period of time.

Fiber Collimators



Adjustable Fiber Collimator with FC-Connector

ST Fiber Collimator BFC3ST

FC Fiber Collimator BFC3FC

Our Fiber Optic Components are used in electrical measurement, communication technology medical engineering, and of course data transfer under harsh environments. We would be happy to design an appropriate solution against your requirement.

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Fiberoptic tools

FIBERPOINT® series products are fiber optic fault locators we design and manufacture. Tools for video inspection and cleaning fiber optic ferrules we import and resell throughout Europe. These three product ranges cover basic needs fiber optic service demands: Cleaning – Check – Inspection.

Visual fault locator FIBERPOINT® series by IMM Photonics



Most common application of FIBERPOINT® series tools are continuity check, patching, fault finding and identification of stressed areas in glass fibers. Laser light emitted in most cases is 635 / 655 nm. Some applications require 532 nm. Laser class 2 specification allows eye safe operation at any time.

Patented universal connector accepts all male connectors of 2.5 mm based connector systems. To adapt to 1.25 mm ferrule size an adapter is available. More adapters allow to connect to SMA and POF (1.5 / 2.2 mm).

Standard reach is around 5 km, a special version with typ. 1,700 (SM) / 2,000 µW (MM) allow reach of about 10 km. Laser class 3R specification requires use of protective glasses.

Video inspection microscopes by Lightel Technologies



ViewConn™, Connector Inspector / Digital Inspector (DI)

These compact, handheld video microscopes allow eye safe inspection of all kind of fiber optical connector end faces. Battery operation / power supply via USB (DI only) allow field use. To save images is possible at external buffer to be linked via USB connection. A very broad range of adapters enable inspection of male and female connectors of nearly all kind of connector systems. Adapters, parts and packages are available.

Fiber optic cleaners by US Conec



IBC™ Brand Cleaner in different versions plus dedicated tools for less common connector systems offer a seamless range of cleaning tools for all common plus some rare connector systems. Dry cleaning is the method of choice in communication technology applications. IBC™ Cleaners are being looked at as today's industry standard.

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