



Holland High Tech
Global Challenges, Smart Solutions

Laser world of photonics

26 - 29 April 2022

München, Germany



www.photonicsnl.org

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Brighten Your Future with Dutch Photonics

Photonics is the key technology that uses the properties of light for a wide range of applications such as sensing, data communication and production technology. Photonics also has an important contribution towards solving societal challenges. Good examples of this are the satellite instruments that are made in the Netherlands for climate monitoring. And the Photonic components, also designed and made in the Netherlands, that play an increasingly important role in new technologies for medical care and food production.

The photonics market is developing rapidly. The Dutch Photonics market is one of the leading markets in Europe. Nearly 300 Dutch companies, a large proportion of which are SMEs, work directly on photonics products. We owe a significant part of our prosperity and export position to innovative companies such as ASML and Philips, surrounded by a large segment, of varied and robust small and medium-sized enterprises. In this high-tech industry, photonics play an important role. For example the heart of the machines of ASML, world leader in its field, is based on photonics technologies. Furthermore all Dutch SMEs together have a rich history and broad knowledge base in Photonics.

The Netherlands has traditionally had a strong position in photonics. This is partly due to a wealth of experience in the development of optical instruments which already started in the 17th century. Today, many companies, leading companies as well as a wide range of small emerging innovative companies, have their origins in photonics, due to the large Dutch photonics history. Dutch photonics companies are in fourth place among the most competitive companies in photonics worldwide.

R&D is the most important source of growth for the photonics sector in the Netherlands. Technological developments are taking place at a rapid pace and innovation is essential. Dutch companies and institutes stand out on the international market because of their high level of knowledge and entrepreneurial culture. Dutch parties are skilled in the complete value chain, from R&D to high-end production and they operate as a single, cohesive photonics region.

Therefore, I see this booklet as an invitation to companies, knowledge institutes and governments to get in contact with the Dutch Photonics Ecosystem. It is said that the twentieth century was the century of the electron. If the twenty-first century is to be the century of the photon, then this is the chance to realize new opportunities together!

Ron van der Kolk
Director PhotonicsNL

Booth # A6.322

Admesy

Your choice for spectral and color measurement solutions



To you, our devices might be just that: a tool for spectral measurements. Stable, reliable and accurate: nothing more, nothing less. To us, however, they are filled with fascination. We have a passion for the seemingly impossible. Bright and breezy, we are eager to tackle any challenge with a Dutch hands-on approach that allows us to meet your needs with the speed of light.

Engineering experts

Admesy is founded in 2006 by former Philips engineers active in creating display testing solutions. Building on our engineering expertise, we stuff black boxes with measurement power.

High performance

Over the years, our product range expanded to spectroradiometer, colorimeters, light meters and 2D imaging devices. Newer, faster and more accurate than any test & measurement solutions the world has ever seen.

Endless possibilities

Happy and growing, our customer base ranges from large volume 24/7 production testing, smaller volume niche system manufacturers and single devices used for product and test development. We meet the needs of a constantly growing range of industries and applications. With endless possibilities.

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Appsilon Enterprise

We grow diamonds

Appsilon is a lab-grown diamond company with its HQ located in Delft. Appsilon is capable of supplying high-quality single crystal diamond materials that can be used in applications such as magnetometry and quantum computing applications. Recent material developments include the ability to produce materials with the following attractive properties for such applications. Our team comprises experienced entrepreneurs and an agile R&D team which enables accelerated Technology Readiness

Level, allowing us to bring successive technological breakthroughs from ideation to launch rapidly. Our high-quality diamond plate prototypes which have (100) orientation and different dimensions up to 10x10 mm are used for quantum grade diamond growth applications. With recent R&D operations, Appsilon achieved a low nitrogen or high charge density (NV-) (111) oriented prototype to be used for quantum applications.



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ENTERPRISE

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Avantes B.V. Empowering Spectroscopy Solutions

Avantes' empowering spectroscopy solutions can be applied in the lab, in-line at a production facility or in the field. With nearly 30 years of experience in all kinds of industries, we're an equipped partner to guide you in finding your most ideal setup or product integration.

We believe in a partnership approach to tailor our solutions to meet the needs of the end user. Besides our carefully picked product portfolio, we go the extra mile.

We follow a discovery journey with spectrometer integrating customers to ensure we create their most suitable setup, together. After this process, our engineers and support team work collaboratively to ensure successful integration.

With our automated manufacturing process, called AvaMation, we provide unsurpassed inter-instrument reproducibility and scalable manufacturing capabilities. Our products provide the enabling technology for spectroscopy and material characterizations in various markets.

EMPOWERING SPECTROSCOPY SOLUTIONS

INDUSTRIES SERVED

- Agriculture & Food
- (Bio)Medical
- Chemistry
- Environmental
- Lighting
- Semiconductor
- Solar
- Original Equipment Manufacturers

DISCOVER THE ENDLESS POSSIBILITIES OF SPECTROSCOPY AT **BOOTH A6.100**

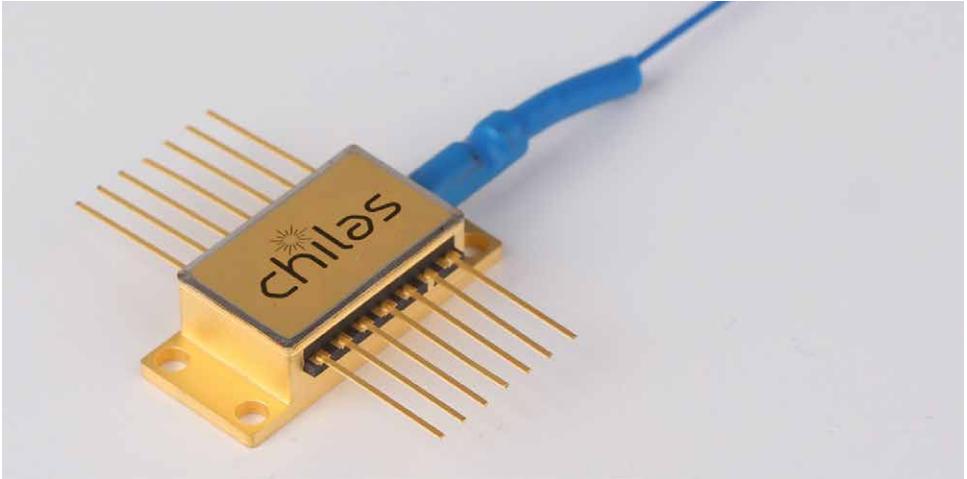


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Chilas

Ultra-narrow linewidth external cavity tunable lasers



Chilas is a producer of high-end semiconductor external cavity tunable lasers with ultra-narrow linewidth. The lasers are fabricated using hybrid photonic integration technology, integrating InP and SiN, two the most leading platforms for fabricating PICs. Based on this technology Chilas offers various products series of ultra-narrow linewidth, tunable lasers operating in different wavelength bands around 1550 nm, 850 nm and 780 nm. The unique combination of ultra-narrow linewidth and continuous tunability

over a wide frequency range in a compact footprint makes Chilas lasers ideal for a wide range of applications such as coherent optical communications, Lidar, optic fiber sensing, atom cooling, quantum computation and microwave photonics.

Chilas was founded in 2018 as a spin-off from LioniX international. The company is operating from two offices in Eindhoven and Enschede in the Netherlands. Chilas is establishing a rapidly growing network of distributors around the world.



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Delft Circuits

Hardware for quantum engineers

Delft Circuits is dedicated to supplying the best hardware for the quantum engineer and industry. So far we have realised hundreds of i/o modules, for almost a hundred customers. Whether in a leading national laboratory, a Blue-chip corporation, or an ambitious professor, clients find their way to our solutions. As an independent, dedicated quantum hardware supplier, together with our customers, we make quantum technologies a reality.

The input/output (i/o) chains of cryogenic quantum computing, communication and sensing play an essential role in its performance. Especially in larger systems, cabling/component failure, passive heat load and limited space can be a challenge.

Cri/oFlex® is designed specifically for cryogenic (quantum) systems and provides a scalable platform with fully integrated filtering, a small footprint and low heat load. At Delft Circuits, it is our vision to be a one-stop-shop for cryogenic i/o assemblies. conditioning.



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Etteplan Engineering with a difference.

Etteplan Engineering Solutions (formerly Tegema) gets a charge out of creating technology that will make sure to take human's potential to a new level, being one of the promises to improve production performances in efficiency and quality by an average of 27 percent.

Our company is located in the Science Park, the heart of Brainport Eindhoven, an innovative ecosystem in Southeast Brabant. Our facilities include a workshop and a cleanroom where we build and test our solutions. These solutions are designed and engineered in our facilities, but we also assure that they are built and maintained worldwide.

With the goal of supporting the growing transition from electronic to photonic integrated circuits, a prime example of this promise is Indigo: a modular photonic assembly equipment that can deliver a packaged product - active alignment and fiber termination included - in just under 30 seconds.

The modular approach allows for a machine to be tailored to the client's demands, while leaving plenty of room for the customization of different components and upgrades, and to be integrated into an assembly line.



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Laser 2000 Benelux Offering the Future of Photonics

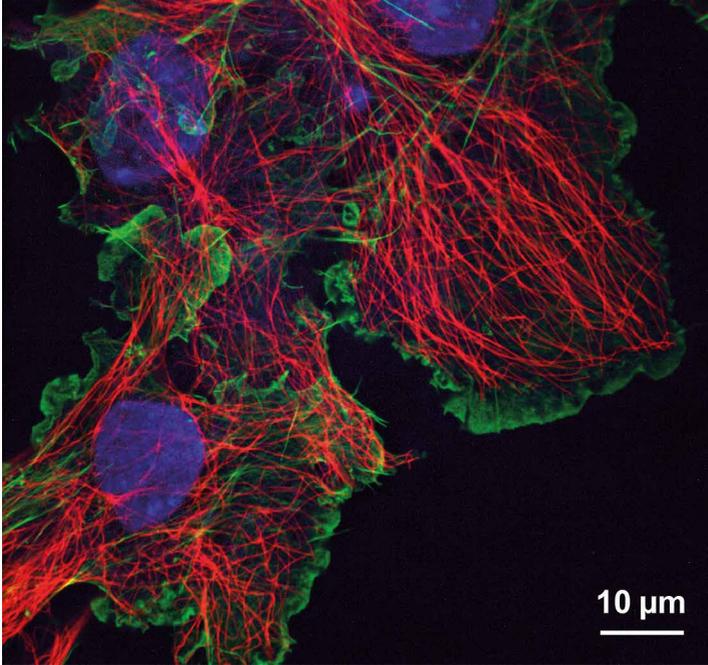


Image courtesy of Prof. Dr. M Sauer, Univ. Wurtzberg, Germany, taken using the Cobolt Skyra multi-line laser.

Founded 20 years ago, now a leading high-tech distributor for lasers, optical instruments and components. In short; a Photonics Specialist. Laser 2000's mission is to provide leading technologies in photonics. For lasers and related products, you are at the right address. Together with their customers, Laser 2000

selects the right product for the application. And we offer more than products; we also offer our extensive technical background and product knowledge. Thinking along with customers and providing the right solutions; that is the best way to help customers.



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LioniX International

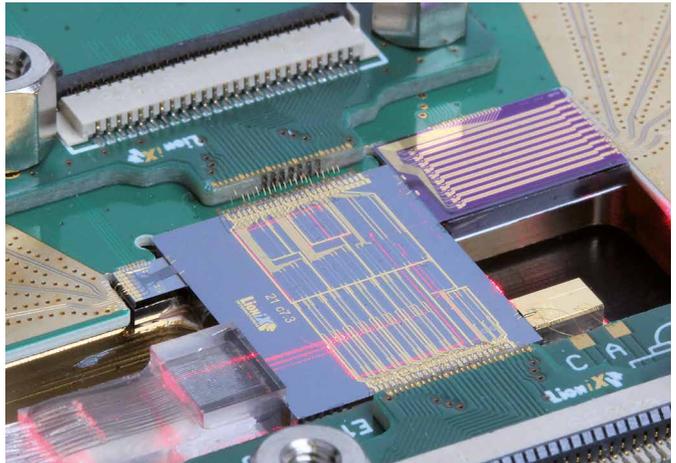
Our chips drive your business

LioniX International is a leading global provider of customized microsystem solutions in scalable production volumes. Our particular focus is the use of integrated photonics. We develop solutions for OEMs and system integrators, using a vertically integrated approach to work from design to device. This way of working is in turn supported by a strong IP portfolio of leading technology.

Since its beginnings in 2001, LioniX International has been a pioneer in Photonic Integrated Circuits (PICs). Our proprietary

waveguide technology (TriPlex™) combined with other core capabilities in micro-fluidics, opto-fluidics and MEMS, is at the heart of our PIC enabled modules.

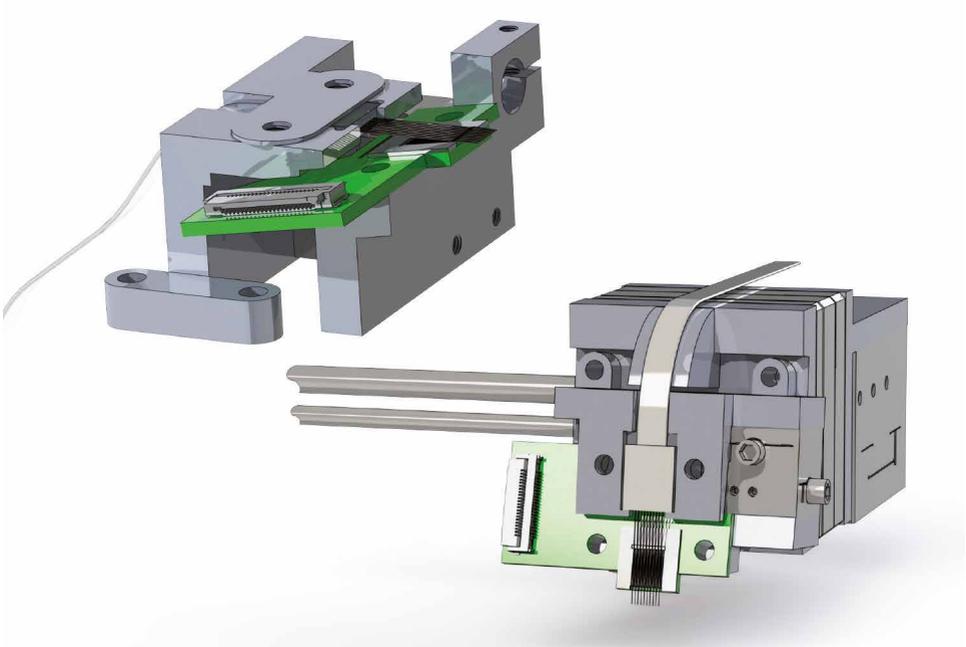
As a vertically integrated company we deliver a complete solution to our customers. From initial design through to volume production, our modules drive performance from within our customer's products, enabling innovation in markets as diverse as life science, metrology and data/telecommunications.



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MicroAlign Every fiber matters



MicroAlign is developing a revolutionary alignment solution to optimally connect multiple optical fibers and photonic integrated chips. The connection of optical fibers and photonic chips has always been an exhausting operation, and MicroAlign’s task is to provide a micro-positioning stage capable of relaxing the involved strict alignment tolerances. MicroAlign technology aims to optimize

the quality of each optical fiber-to-chip connection, for tens of optical fibers and with sub-micrometer accuracy, by means of a novel micro-electromechanical system. The alignment method offered by MicroAlign has potential impact in the Photonic manufacturing world for a number of applications ranging from TELECOM, DATACOM, sensing, LIDAR, up to infra-red communication.

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NTS

Accelerating the future

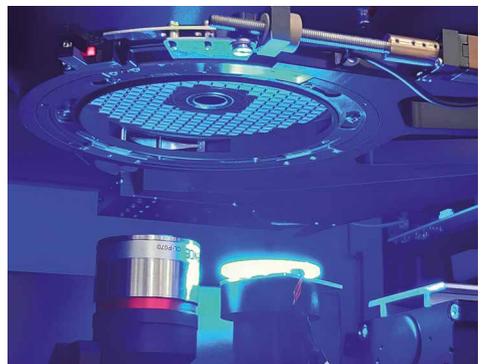
NTS develops, manufactures, assembles and tests complex (opto-)mechatronic systems and mechanical modules, which accelerates our customers' innovations and hence contributes to a more sustainable, healthy and future-proof world.

NTS Optel develops, assembles and tests complex optical-, laser- and opto-mechatronic tooling, modules and systems. We have a track record in custom optical technological solutions. We accelerate our customers' growth and increase their flexibility.

With 35+ years of experience in catadioptrics, laser & white light interferometry, lighting systems, spectroscopy, vision, metrology, advanced imaging and image and signal processing, we accelerate your product development and production processes.

Application areas:

- Illumination: medical-, machine vision-, fiber- and general illumination
- Imaging: custom imaging optics, custom cameras, microscopy systems, fluorescence systems, custom or off the shelf optics and cameras for machine vision
- Sensors: custom spectral sensors, custom position and height sensors
- Laser beam delivery: scanning, focusing, beam shaping and beam steering



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Ocean Insight Discover Applied Spectral Knowledge

Ocean Insight is the Applied Spectral Knowledge company. We use spectral technology, application expertise, and manufacturing scalability to help customers take on important challenges for a safer, cleaner, healthier future. We offer a suite of modular spectroscopy products, multispectral sensing solutions, and software development for diverse applications in industrial settings, research and science, food and agriculture, applied biotechnology and life sciences, illumination and color measurement, and safety and security.

Ocean Insight technologies are connected to a diverse range of industries and disciplines. Our products are used by innovators, researchers, educators, scientists, and OEM suppliers in laboratory settings, field research, and process environments worldwide. First responders and security professionals have incorporated Ocean Insight products into their equipment. Science educators have made our instruments an integral part of each student's learning experience. Ocean Insight solutions are part of both everyday measurement needs and bigger technical challenges related to issues such as population growth and climate change.

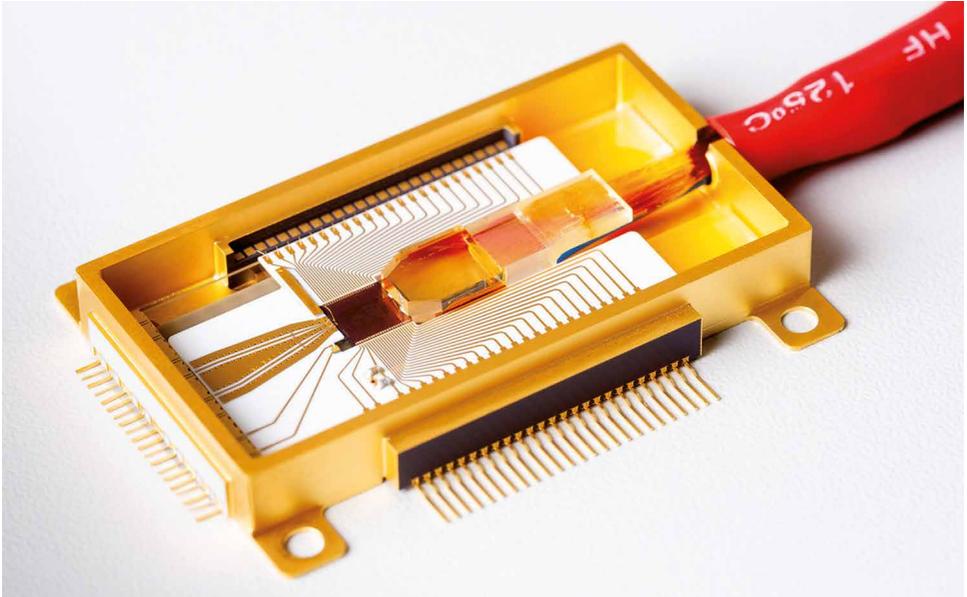


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PHIX Photonics Assembly

Automated volume assembly of photonic integrated circuits



PHIX supplies the photonics industry with assembly and packaging services for Photonic Integrated Circuits (PICs). We specialize in the manufacturing of hybrid assemblies, using multiple chip materials and fiber arrays to create maximum functionality. By offering our knowledge in the chip design stage, we ensure ease of scale up for volume manufacturing. Chip-to-chip and fiber-to-chip

interfaces, polarization maintaining fiber assemblies and high-power applications are among our core competencies. From PIC prototype to assembly and scale-up to high-volume manufacturing: PHIX is your partner in photonics. We offer a one-stop-stop fully tailored to your needs. That's how we prepare your products for tomorrow's society, today.



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Booth # B4.435.3

PhotonDelta Integrated Photonics Ecosystem

PhotonDelta is an ecosystem of organisations that researches, designs, develops, and manufactures solutions with integrated photonics technology. Connecting pioneers in the field with investors, and viable markets,

PhotonDelta helps to take the industry forward with funding, investments and R&D roadmaps. PhotonDelta is located in the Netherlands but connects and collaborates throughout Europe.



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PhotonFirst

Leading integrated photonics sensing systems supplier for advanced applications



Our experts look forward to welcoming you at our booth at the Dutch pavilion, to learn what you want to measure with light!

Since 2006, PhotonFirst (formerly known as Technobis) is unlocking the power of the photon to measure a.o. temperature, strain, pressure and shape. On our way to becoming the global innovation leader in integrated photonics sensing we are the OEM's partner of choice for advanced applications.

We support market leaders and innovators in aerospace, mobility, infrastructure, medical, energy and high tech to monitor their assets to increase the performance, improve uptime, predict maintenance, increase safety and

reduce risks. Our solutions are all based on integrated photonics and therefore match scalability with a steep cost-down curve.

In PhotonFirst we combine roadmap driven research & module development with customer specific application development and complete system assembly based on our brand-new modular photonics platform, launched in Europe at Laser World of Photonics. This allows us to cover the entire value chain, from research to life cycle support in-house.

Our experts look forward to welcoming you at our booth at the Dutch pavilion, to learn what you want to measure with light!

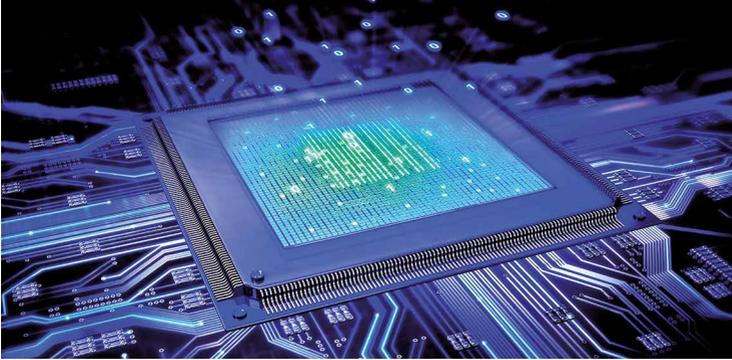
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PhotonicsNL

The unique portal for photonics in the Netherlands



PhotonicsNL is the unique portal and trade association for Photonics in the Netherlands. Our mission is to stimulate photonics innovation by enabling collaborations and cross-fertilization between companies and industries, to increase the level of awareness of the importance of photonics for our economy and to increase the knowledge of photonics at all levels of education.

The use of photonics will lead to a transformation that provides tools and solutions to literally every industry in every region of the Netherlands and Europe that takes up the challenge to become more competitive. All photonics-based innovations

will fundamentally change the way we live, work and play, globally. To achieve this in the Netherlands it is our role to build a strong network and ecosystem, to connect the industry, R&D, knowledge institutes, education institutes and end users to position Dutch photonics worldwide. Important application areas are amongst others AgriFood, Healthcare, Semicon, Automotive, Energy & Environment.

PhotonicsNL has a close collaboration with the Netherlands Enterprise Agency (RVO) and the two Dutch platforms PhotonDelta and Dutch Optics Centre. On international level we have a close collaboration with our partners from various EU-countries.

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Photonis SD

Leading you to peak performance

For researchers who dedicate time to science rather than instrument set-up. Cricket™² offers plug and play intensified imaging or single photon counting functionality. Recognised for best value, Cricket™² sets an unmatched standard for connectivity with scientific

microscopes and cameras. Easy to use and adaptable for future requirements due to the wide choice of Hi-QE™ photokathodes and gating options. All made by Photonis, the global leader in Image Intensifier Technology.



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PHOTONIS
Scientific Detectors

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Qblox

Quantum control stacks for photonic technologies

With a dedicated team of scientists, engineers and developers we are pushing quantum technology to support scientists worldwide with our scalable qubit control and readout equipment from ultrastable DC to 18.5 GHz for academic and industrial quantum labs. Our company is based in the Netherlands as a spinoff of QuTech, which enables us to implement the latest scientific insights and take a position upfront in the worldwide race towards quantum advantage. Using the technology developed at QuTech

as a springboard, the Qblox team has fundamentally reimaged the architecture of quantum control to create a single integrated control stack that provides all the functionality needed to manipulate and measure quantum computers. The Qblox control stack combines unlevelled noise performance, low-latency arbitrary control flows and can be scaled up to 100s of qubits. The Qblox team is interested in meeting experimental quantum physicists to learn about their applications and how Qblox could support their scaling needs.



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Booth # B4.435.5 & World of Quantum

Quantum Delta NL

The Netherlands' national ecosystem for excellence in quantum innovation



Quantum Delta NL is the foundation that connects the most important knowledge institutions in the field of quantum technology in the Netherlands.

Our starting position is excellent because Dutch universities and knowledge institutes are leaders in the field of quantum technology research, our startup and industrial ecosystem is growing continuously and our national policy

is strongly developed. With the allocation of 615 million euros from the National Growth Fund, we will execute the Netherlands' National Agenda Quantum Technology (NAQT) over the next 7 years.

Our mission is to become the next Silicon Valley for quantum technology and further strengthen our ecosystem into the most relevant for Europe.



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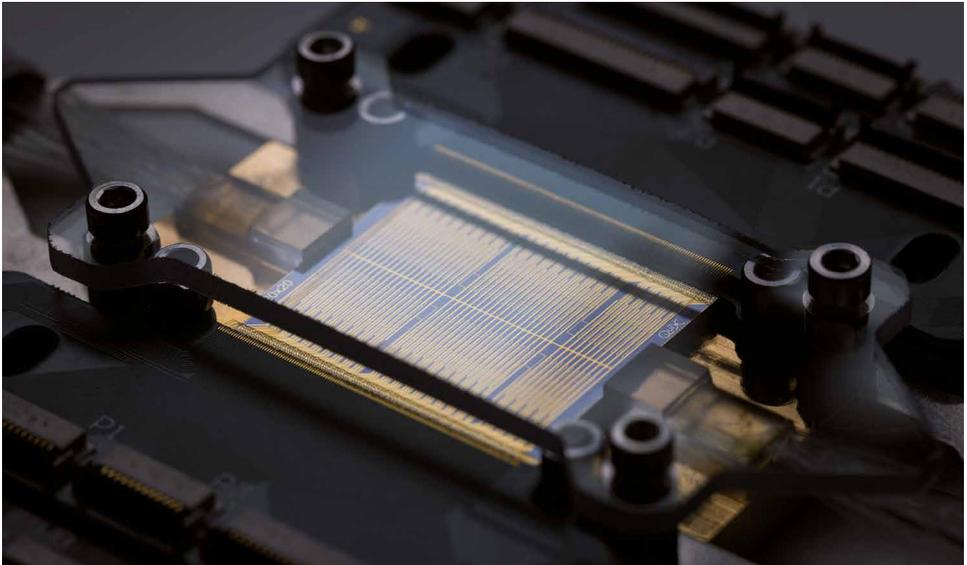
QuiX Quantum

The Fastest Way to a Quantum Future

QuiX Quantum, the market leader in photonic quantum computing hardware and quantum technology solutions. Based on low-loss integrated photonics we can provide large-scale, plug-and-play solutions with full software control. Recently, we released the world's most powerful Quantum Photonic Processor for photonic quantum computing and information processing. Such processors are the heart of a photonic quantum computer

– a quantum computer that uses particles of light as the basic information-carrying units. Our Quantum photonic Processor has the largest number of modes while simultaneously offering very low optical losses and an excellent programmability.

QuiX Quantum is a photonic quantum computing start-up and was founded in 2019 in Enschede (the Netherlands).



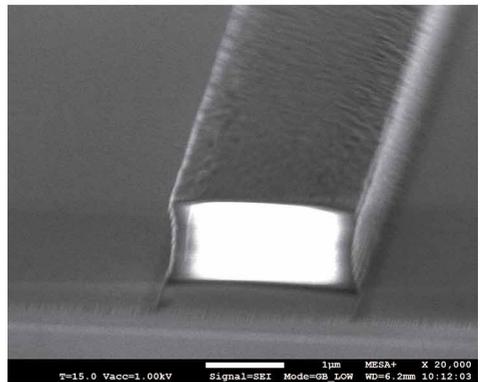
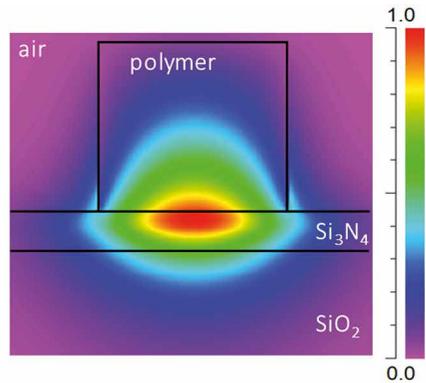
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Rapid Photonics B.V.

PIC production at the speed of light

At Rapid Photonics, our mission is to revolutionize the development and application of Photonic Integrated Circuits by enabling fast production services of Polymer PICs. Our unique production technology enables PIC developers to execute design iterations in a matter of weeks and at affordable cost. Our production technology is compatible to any PIC substrate, including SiO, InP, GaAs and LiN. Furthermore, our technology can produce compact PICs with waveguides density and bending curve comparable to conventional PIC production processes. Currently, our technology can only supports the production of PICs with passive photonic components. In the near future we expect to support the production of active components and hybrid solutions. Rapid Photonics is a startup of the VU University of Amsterdam.



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SCIL Nanoimprint solutions

Transforming surface into function

Many products like smart phones, smart glasses and cars require high-performance optics for sensing and vision applications. These so-called nano-photonics are difficult to manufacture using conventional lithography techniques because of expensive tools, complex processes, and low yield.

SCIL Nanoimprint Solutions offers high-volume production solutions for complex nanostructures on large wafers at low cost and

very high quality using a unique and proprietary nano-imprint lithography technology (SCIL).

With our combination of imprint equipment, imprint materials and process know-how SCIL Nanoimprint solutions offers robust processes enabling nanometer resolution patterns on wafer areas up to 300 mm and on a large variety of wafer materials. It can be used to make patterns with feature sizes down to less than 10 nm and overlay alignment below 1 μm .



Contact details

SFC Energy B.V. Empowering your innovation



SFC Energy BV is part of SFC Energy AG (specialized in clean energy solutions and power management globally). It's activities are divided in switched-mode power supply solutions and custom coils & inductive mechatronics solutions. We develop, manufacture and market Power Conversion Solutions ranging from power supply units to highly complex power systems for top-level producers of professional machinery and equipment. Coils & Linear Drives is active in co-development, production and qualification of coils and winding techniques, assemblies

and modules and linear drives. We operate our R&D and manufacturing location in Almelo (the Netherlands) and Cluj-Napoca (Romania).

At Laser World of Photonics in Munich, we a.o. present our LAPS-4000, a 4 kW scalable power supply solution for DC and pulsed applications, functioning in serial and/or parallel operation. The low ripple and excellent transient response, together with the safety interlock (PLe) and DC input capability, makes this one of the most innovative power supply solutions available.



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Single Quantum

The fastest and most sensitive light sensors

Single Quantum was established as the first European company manufacturing and commercializing superconducting single photon detectors. By sharing this groundbreaking technology, we aim to create a better future! Our multi-channel detection system has already been chosen by more than 150 academic and industrial labs all over the world to perform complex optical measurements.

The unique combination of unparalleled detection efficiency and time resolution is what makes our superconducting detectors the ideal choice for quantum communication, cryptography, infrared fluorescence spectroscopy, laser ranging and many other applications.



Contact details

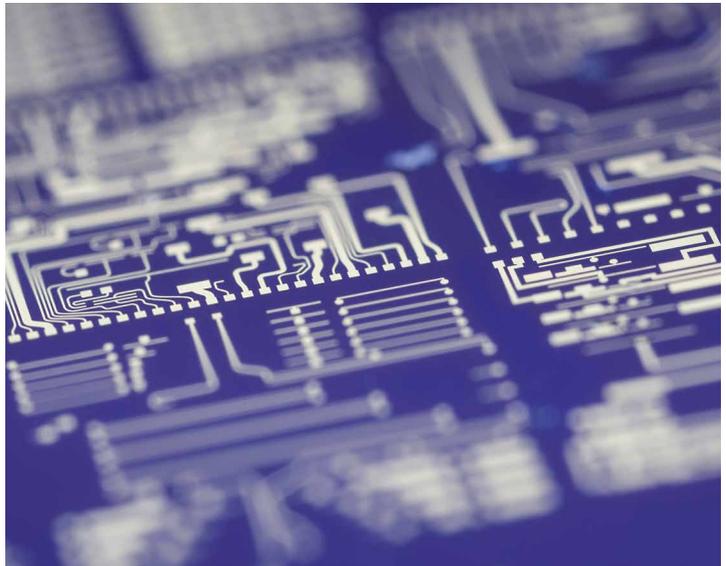


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SMART Photonics Independent InP Foundry

SMART Photonics, located in Eindhoven, The Netherlands, is a foundry offering production services for mainly Indium Phosphide based photonic components. We are an independent pure-play foundry, using our knowledge, experience and equipment to produce photonic components for our customers, based on their designs.

We offer the complete production process from epitaxial growth and re-growth, processing, polishing and dicing of wafers into chips. As an independent Pure-Play foundry we support our customers from the proof of concept phase up to and including full production. As a foundry, we also offer single or combined process steps to complete or being a back-up for the production processes of customers.



 **SMART
PHOTONICS**
Independent InP Foundry

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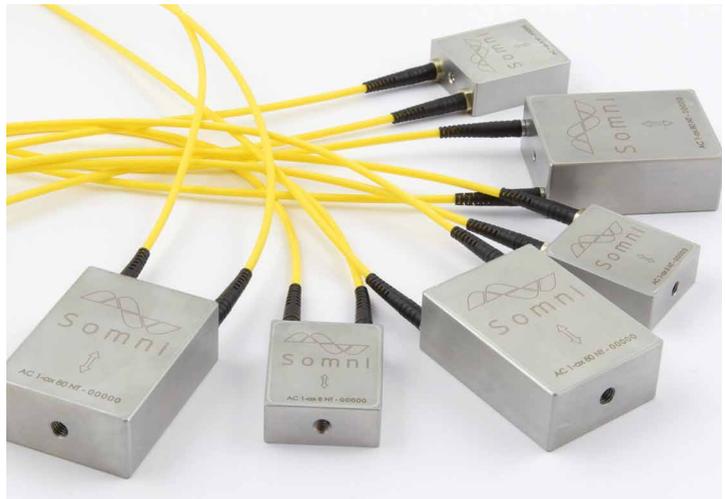
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Somni Solutions

High-end fiber optic sensors and sensing solutions

Somni Solutions designs, develops and manufactures high-end fiber optic sensors and sensor systems. The Somni product portfolio covers various Fiber Bragg Grating (FBG) based strain, pressure, temperature, displacement, vibration and tilt sensors. Somni takes great care of the reliability and robustness of their fiber optic sensors. Somni Sensors are extensively tested both in the lab and in the field under the most harsh conditions to ensure the quality our customers expect from a Somni Sensor.

Somni assists customers with tailored sensing solutions in which fiber optics is often the only technical or commercially viable solution. Our experience is that the best solutions are found in strong collaboration between the customer and the Somni development team. Learning from each other and most importantly understanding each other is key to finding the best sensing solution. In need for a sensing solution? Contact Somni Solutions, we are here to help!



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Te Lintel Systems Photonics. Our passion



Te Lintel System is a privately owned distributor that focuses on the photonics industry in the Benelux, with passionate, experienced, well educated photonics engineers. Our mission is to find the best optical business solution, for all customers from research to the industry.

Te Lintel Systems was founded in 1985 by Ben Te Lintel, in 2015 Roland Kuijvenhoven took over the ownership. Since this reorganization, we have grown to a higher market value and expanded our contracted high-end partners. Together with them we have the answers to your photonics questions.

In the categories emitting of light, manipulating light and detecting light we offer

our products. A small portion of this port-folio can be found in this summarization:

- lasers,
- fiber optics,
- optical components,
- spectroscopy,
- hyperspectral imaging,
- imaging,
- interferometry,
- opto-electronic equipment,
- light metrology,
- laser safety,
- and much more....

Our organisation in key-words: photonics – experienced – passion - knowledge – flexibility – enthusiasm



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Holland High Tech
Global Challenges, Smart Solutions