



LUX Photonics Consortium is an initiative by Nanyang Technological University (NTU) and National University of Singapore (NUS); and is supported by the National Research Foundation (NRF), Prime Minister’s Office, Singapore. Our vision is to serve as a catalyst and networking platform to translate cutting-edge research in photonics into diverse applications underpinned by the value chain created. We aim to create synergies among the researchers in universities and the industry in developing ground breaking applications. Companies join from industry will benefit from the critical mass of expertise and research from the institutions, grants for R&D projects and publicly funded intellectual properties, etc. For more information, visit us at www.luxphotonicsconsortium-sg.org

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LUX Photonics Consortium Members Directory

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II-VI Incorporated is a global leader in engineered materials, optoelectronic components and optical systems offering vertically integrated solutions for applications in materials processing, communications, aerospace & defense, life sciences, semiconductor capital equipment, automotive and consumer electronics. www.ii-vi.com

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Advinno Technologies is an Independent Electronics Design House (IDH) incorporated in Singapore in 2002. The business focuses on design, engineering, manufacturing and logistics of semiconductors, electronic systems and turnkey products. The team's design experience spans AI Deep learning, Silicon Photonics, MEMS, ASIC, FPGA, Analog Mixed Signal, RF, PCB, Embedded systems and System Integration. Advinno also provide rapid prototyping services, mass-production and complete turnkey services. Advinno design and manufacture innovative AI and Internet of Things (IoT) products using emerging technologies such as 5G, NB-IOT, Sigfox, Lora, Wi-Fi, Bluetooth Smart (BLE), ZigBee and Sensor Mesh Network to enable Smart Cities and IoT applications. www.advinno.com

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AMF is a commercial pure-play foundry based in Singapore and is a spin-off of the Institute of Microelectronics, an A*STAR institute. We provide innovative solutions for advanced applications with a strong focus on Si Photonics. We offer customized manufacturing services with competitive cycle times based on our unique platforms. These services range from MPW to prototyping and large volume manufacturing services for product deployment. Our multidisciplinary team of Optical and Semiconductor experts will work closely with your teams to ensure customer satisfaction through the development of solutions tailored to your needs. www.advmf.com

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Coherent Singapore is "ASIA Manufacturing Centre" of Coherent, Inc, with headquarters in the heart of Silicon Valley, California, and offices spanning the globe. Coherent is a world leading supplier of laser and photonics-based solutions to a broad range of commercial and scientific research customers. Coherent designs, manufactures and markets lasers, laser-based systems, precision optics and related accessories for a diverse group of customers. www.coherent.com

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CompoundTek Founded and supported by industry veterans and technologists, Singapore-based CompoundTek combines world-class commercial foundry with leading silicon photonics (SiPh) research institutes to provide cutting-edge SiPh technologies that enhance foundry services capabilities. As one of the elites offering SiPh solutions internationally, CompoundTek brings to the marketplace revolutionary semiconductor applications designed to meet critical requirements in high bandwidth and high data transfer solutions particularly in emerging connectivity driving Industry 4.0. The company's in-depth know-how includes end-to-end technologies - from proprietary fabrication process expertise to product design support with strategic partners and extended services for end-product manufacturing. CompoundTek's global customers span leading brands and FORTUNE 500 companies in high-growth industries including artificial intelligence, automotive, bio-medical diagnostics, data centre, lidar, smart sensor, telecommunication and quantum optical computing. www.compoundtek.com

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CYBERNET

CYBERNET SYSTEMS MALAYSIA is a wholly-owned subsidiary of CYBERNET SYSTEMS CO., LTD. in Tokyo, Japan. Backed by over three decades of experience of CYBERNET, we provide cutting-edge engineering simulation software and solutions to the manufacturing industry, academic, and government research institutes in the ASEAN region. We offer world-leading optical CAE software such as Ansys Speos®, Ansys VRXPERIENCE™, Ansys Lumerical, and Zemax, enabling optical engineers to design and develop advanced optical systems, including imaging optics, lighting and illumination, and photonics with greater precision. We help customers across automotive, optics, new energy, electro-mechanics, and commercial equipment industries to efficiently solve difficult challenges they face when dealing with complex multi-domain modeling and simulation, thus reducing their time to market. www.cybernet.asia

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DEMCON is a privately-owned independent (opto)mechatronic Design House with offices in Singapore, Germany and the Netherlands (HQ), employing over 700 engineers globally. The business focuses on R&D, industrialization and assembly of world class equipment, in which (sub)nanometer accuracies, high-vacuum, thermal stability and fast throughput are common design criteria. Among many disciplines, DEMCON has thorough knowledge of high precision optics, optoelectronics and optomechanics. DEMCON's customer base comprises high-demanding clients active in e.g. semicon, (aero)space, medical devices, and defense. We are looking forward to collaborate with industrial partners and research institutes to develop the next gen photonic equipment. www.demcon.nl/en

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Denselight Semiconductors designs, manufactures, and delivers leading edge photonic optical light source products and solutions to the communications, medical, instrumentations, industrial, defense, and security industries. DenseLight processes Indium Phosphide (InP) and Gallium Arsenide (GaAs) based optoelectronic devices and photonic integrated circuits through its in-house wafer fabrication and assembly & test facilities. The company is recognized worldwide for its technological innovations in high performance semiconductor infrared superluminescent light sources, lasers & SOAs with a proven track record in deployed applications. www.denselight.com

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DSO National Laboratories As Singapore's one-and-only defence R&D organisation, DSO National Laboratories, or DSO in short, creates the critical edge in defence technology to force multiply the Singapore Armed Forces' (SAF) combat capabilities and render potential threats irrelevant. With more than 1,300 defence scientists and engineers who work seamlessly across disciplines spanning from underwater to cyberspace, DSO is also the oldest and largest R&D institute in Singapore. www.dso.org.sg

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Edmund Optics® (EO) is a leading global supplier of optics, imaging, and photonics technology that has served a variety of markets including Life Sciences, Biomedical, Industrial Inspection, Semiconductor, R&D, and Defense since 1942. EO designs and manufactures a wide array of optical components, multi-element lenses, imaging systems, and optomechanical equipment, while supporting OEM applications with volume production of stock and custom products. With locations in more than seven countries across the globe, EO employs over 1,000 employees and continues to expand. www.edmundoptics.com.sg

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Endofotonics is a medtech organisation dedicated to using its proprietary Raman spectroscopy platform technology to improve early cancer detection and hence reduce cancer burden in patients. Founded in 2013, the company is headquartered in Singapore and has a subsidiary in Shanghai, China. Endofotonics developed the SPECTRA IMDx™ system, the world's first real-time in-vivo Raman spectroscopy platform, that improves early gastric cancer detection rate. www.endofotonics.com

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Eureka Robotics Featured in the New York Times, the Guardian, the Economist, and CNN, Eureka Robotics is revolutionizing the field of robotics. Empowered by A.I. and Robotics research from NTU and MIT, Eureka Robotics delivers robotic solutions and software to automate tasks that require high accuracy and high agility. Eureka Robotics prides itself on helping clients achieve vastly improved productivity, lower costs, better safety. Common uses include precision-handling, assembly, inspection, drilling, and many other domains. Learn more about our cutting-edge tech at www.eurekarobotics.com

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GDS Instruments Pte Ltd is solely a locally-owned business entity in Singapore. The main activities are in sales, marketing, and R&D in gas detection and its related sensor development. The company has more than 20 years of gas detection experience. Under various Spring Grant Schemes, our R&D team has successfully developed the world's first fixed PID detector in 2010. Our PID invention has international patents for its unique technology, and has currently, sold more than 3,000 units to many countries worldwide. Other gas sensor technologies that we are pursuing, includes Nanowire sensor, Laser, QCL, FTIR, and Imaging sensor for gas detection. www.gds-instruments.com

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Global TechSolutions

Global TechSolutions (GTSS) Established in 2008, Global TechSolutions Singapore (GTSS), a fully owned subsidiary of Korbett, is an eminent solutions provider for the semiconductor equipment market. GTSS covers end-to-end solution that includes parts, equipment, consultancy, engineering solutions and process enhancement that is in line with most major semicon certification. GTSS is the trusted name of major chip makers in Asia. The family at GTSS has more than 10 decades of experience that focus solely on what we do best, engineering innovation and perfection in customer service and partnership. www.globaltechsolutions.com.sg

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Hakuto

Hakuto Singapore Pte Ltd is a subsidiary of Hakuto Co., Ltd (Japan), a Public Listed Company in Tokyo Stock Exchange (#7433). We have more than 40 years' solid experience in electronics and photonic field since 1977. As a renowned distributor in the Photonics industry, our primary focus is to offer a spectrum of quality products ranging from: PMTs, UV-VIS-IR Light Sources & Photodiodes, LEDs, Image Sensors, Mini-Spectrometers, X-ray Sensors, Laser Diodes, Quantum Cascade Lasers, Optical Fiber probe, Cuvette, Optical Mechanical components, Microchannel Plates, X-ray Products, Imaging & Measurement Instruments for diverse fields such as Biological, Medical, Pharmaceutical, Spectroscopy, Semiconductor Inspection and Industry, etc. www.hakuto.com.sg

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HUAWEI

Huawei Founded in 1987, Huawei is a leading global provider of information and communications technology (ICT) infrastructure and smart devices. We are committed to bringing digital to every person, home and organization for a fully connected, intelligent world. We have more than 194,000 employees, and we operate in more than 170 countries and regions, serving more than three billion people around the world. For more information www.huawei.com/en/corporate-information

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Hylax Technology develops laser equipment for PCB laser depaneling, precision laser marking, semiconductor laser marking, wafer laser marking, laser trimming on flat panel display, laser welding, pico-second UV laser applications and many others. We integrate lasers from many OEMs, design our own optics beam delivery subsystem and package with material handling and vision imaging system into standard equipment for customers. We have many ingenious and sophisticated solutions to assist manufacturers to enhance and improve their process capabilities. www.hylax.com

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iLASER Based in Singapore, iLASER PTE. LTD. is a solution provider company focusing on Photonics Technologies and Digital Fabrication Solutions for Research and Industrial applications. We aim to provide excellent products that drive the vision and infinite possibility. Our commitment to service and support, so to achieve true customer satisfaction. We offer different types of laser processing machine such as laser marking, engraving, cutting, welding, customized systems, and components. For R&D side, we offer different types of laser source, opto-mechanics, measurement instrument. Our Sister Company E5dao Pte Ltd is focused on homeland security solution such as Radar Solution, Fiber Vibration Sensor , Unmanned Ship, etc. www.ilasersg.com

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In.D Solution Pte Ltd (In.Ds) is a trusted and reliable provider of automated and cost-effective vision inspection solutions in Singapore that utilises its expertise in applying latest software technologies for the semiconductor industry. In the competitive world's quest for better productivity and lesser wastage, In.D Solution has created a niche for itself in research and software development, providing innovative solutions for businesses in the country. Our products currently include automatic vision inspection machines for Wafer, Lead frame, Die / Wire Bond and X-ray Image Analyser. www.in-ds.com

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Industrial Vision Technology (S) Pte Ltd (Visiontec) was spun off from the Panasonic group in December 2003. It is a system integrator & solution provide. Visiontec's expertise is in spectral tunable or broadband spectral lighting source such as solar simulator, Light source characterization system, Spectral Response & QE measurement system of Sensor, Vision Defect Inspection System for the inspection of SiC substrate & Epi wafer, GaN and GaAs Epi Wafer. These technologies & products serve the semiconductor, Photovoltaic Solar Energy and Photonics related industries. www.visiontec.com.sg

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Innowave Tech Pte Ltd. provides a full suite of customised services in terms of industry digitalisation and intelligence transformation for all our customers. These encompass productivity, quality, as well as tool efficiency. Our services include i4.0 Set-Up with Smart Sensors, Computer Vision for real-time defect detection and classification, Automated Inspection Stations (Macro/Micro), Assembly Line Automation, Customised AGVs and Smart Stockers, as well as Data Ecosystem and Integration. With our team of experts and technology leaders of AI and intelligent automation from the semiconductor industry, from consultancy services through to implementing physical solutions, we are there for our customers all the way. www.innowave.com.sg

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JMVS was established in 2004 as a machine vision specialist in Singapore. Carrying over 20 renowned brands globally, we distribute industrial components such as cameras, lenses, sensors, and frame grabbers etc. Being customer centric, our mission includes providing solutions for customers with challenging product inspection requirements. Our differentiation strategy is geared towards providing value-added services such as consultation, customization, software integration, vision solution and system to our clients. We always try our best to satisfy our customers professionally as our aim is to establish partnerships with core suppliers to achieve high standards and deliver enriching services to our clients. www.jm-vistec.com

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KIAST is an optical systems engineering firm consisting of experts of various domains of engineering with several brand distributorships such as Teledyne Princeton Instruments, Minus K Technology, Changchun Ruilaite optical gratings, Totech dry cabinets, and PB Swiss hand tools. We assist Clients throughout the entire optical system product lifecycle from research, design, feasibility studies through to prototypes, pilots and mass production with our network of component suppliers and system assembly partners. Our expertise lies in spectroscopy, microscopy and interferometry and spans linear to nonlinear optics. The sectors that we are interested in include bio-medical technology, analytical sciences, agritech and cleantech. www.kiast-sg.com

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Leuze

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LightHaus Photonics Pte. Ltd. is a high-tech company registered in Singapore in 2011. Its facility resides in Enterprise One, 1 Kaki Bukit Road, #03-09. It focuses on the development of advanced photonics/optical imaging system. LightHaus has many indigenous capabilities related to photonics, optical design and quick prototyping. Most of developed photonics imaging systems are first-of-a kind systems. www.lighthaus.com.sg

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LINX Singapore is the Southeast Asia's subsidiary of LINX JAPAN - the largest Machine Vision distributor in Japan since 1990. We are an engineering hardware/software and services company, offering consultation to clients in the field of Machine Vision, advanced automation, precision manufacturing, Artificial Intelligence (AI), Robotics and 3D imaging. Headquartered in Singapore, we bring cutting edge technology to clients who need to automate their processes and improve their productivity. With a strong coverage in Singapore, Malaysia and Thailand, we provide the best-in-class machine vision components such as industrial cameras and lenses, accompanied by cutting edge vision inspection software and systems. www.linx-sg.com

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LITE-ON Singapore (LOS) was established in 2008 as a regional headquarters of LITE-ON Technology Corporation (LTC). The latter was founded in 1975 and would soon become the first listed electronics company in Taiwan and a world-leading provider of opto-semiconductor, power supply management and key electronic products with global manufacturing facilities. As one of the wholly owned subsidiaries of LTC, LOS shares the same vision and many of the industrial developments as part of the LITEON Group. In recent years, the LITEON Group has expanded in the fields of cloud computing, automotive electronics, 5G, AIoT and optoelectronics, coupled with expansion of new business for smart life. <https://sg.liteon.com>

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Lumerical is a leading developer of photonic simulation software – tools which enable research and development professionals to predict how light behaves within complex structures, circuits, and systems. These tools allow scientists and engineers to exploit recent advances to photonic science and material processing to develop high impact technologies across exciting fields including augmented reality, digital imaging, solar energy, and quantum computing. Lumerical's tools are among the most widely cited within the photonic community, with references in more than 10,000 scientific publications and patents. www.lumerical.com

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MASSTRON

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Meridian Innovation Pte Ltd (MIPL) is a fabless semiconductor startup, incorporated in Singapore. MIPL is addressing the commercial market of Thermal Imaging, which needs high volume, low cost and low to medium resolution thermal sensors to enable safer and better living. With in-depth knowledge of Far East suppliers and partners, Meridian Innovation can scale rapidly to meet customers' needs for large volume projects. MIPL is well funded and staffed by several seasoned Executives and highly qualified technical team. The technical team has a combined experience of over 30 years in MEMS sensors and the Executive team has over 70 years of combined experience in high tech companies. www.meridianinno.com

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Moveon Technologies is a leading provider of optical services & solutions. Our services include simulation, design, prototyping and mass production of optical components and systems. Our mass production capabilities include optical molding, replication, coating, optical tool fabrication & wafer level optics including nano & micro-optics manufactured via highly automated equipment & Class 1K cleanroom environment. We are spearheading advances in nano-fabrication via nano-imprint & 3D patterning techniques, allowing for advanced optics fabrication like DOEs and metalens structures. Moveon Technologies serves the automotive, consumer electronics medical and advanced sensing industries. www.moveon.bz

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The NAGASE Group is a chemical trading firm comprises of more than 100 group companies worldwide consist of trading, manufacturing and R&D. Some of our subsidiaries include, Inkron, Nagase Chemtex, Pactech and EMS Inc which supplies leading-edge materials & technologies into Semiconductor, Photonics, Sensors and Optics manufacturing. With a history of close to 200 years, our network provided us with expertise to help partners in tackling new challenges to enable new businesses. Our slogan, Bringing It All Together, embodies the idea of bringing infinite possibilities (people, things, information, technology, ideas, world, and time) together. www.nagase.com

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Nanoveu is a leading provider of thin film based nano structures that shape our vision when viewed through high-resolution smart devices. Using a patent pending process of manufacturing, Nanoveu's first breakthrough product, EyeFly3D, delivers distortion free 2D/3D video, photos and games on smartphones and tablets. www.nanoveu.com

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OIP Technology is a Singapore registered company specialising in optical products using fanout technology. These products include silicon photonics module, optical module and embedded optical components for consumer products and automotive products. With OIP technology, optical products are thinner and lighter than others. Without wire bond interconnect OIP is able to manufacture hermetic seal package, which aims for wearable device and automotive industry. www.oiptech.com.sg

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Opto Precision Pte Ltd is one of the leading providers of optical component, thin film coating services and optical sub assembly devices provider in Asia. Opto Precision provides Optics Assembly as well as Optical component. We have successfully manufacture many optical thin film components and using the Leybold Ion-assisted evaporative vacuum deposition technology, we have been producing products such as Optical Density Filters, narrow bandpass filters, heat transmission & rejection filters, beamsplitters, lasers mirrors, Optical subassemblies and Laser sorter devices. We have various off the shelf complete products for quick delivery, or we can help you design and manufacture custom components and assemblies to meet your production needs. www.opto.com.sg

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OptoSigma Southeast Asia is your global supplier of quality Laser Components and Application Systems. OptoSigma is our global brand which aims to provide quality solutions and contributes to our society with our mission statement of "Light Solutions for Life". Our Laser Components (Optics, Opto-Mechanics and Motion Control) are built from the superior Japanese manufacturing techniques with our vast experience in Laser applications. Our wide range of Application Systems has been offered to R&D and various applications in semiconductor, FPD & other industries. SIGMAKOKI, our parent company, continually develops and expands our state-of-the-art global facilities that consistently produces high-quality, value-added products to support your current and future business growth. www.optosigma-sea.com

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Origgin Ventures focuses on the investment and commercialisation of defensible patents from the universities and research institutes. Through the Venture Co-Creation approach, Origgin provides the initial capital and hands-on support to create deep-tech start-ups, guide them to initial success and create value for our stakeholders. Since 2017, Origgin has successfully spun-off more than 30 deep-tech start-ups from local and overseas universities. www.origgin.com

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Palomar Technologies is the global leader of automated micro-optoelectronic assembly machines and related contract assembly services. Palomar's specialization is the design and manufacture of automated precision die attach, wire bonding and vacuum reflow machines and processes. Markets served include RF Wireless, Optoelectronic and Photonic, and Defense device technologies. Headquartered in Carlsbad, CA, USA with subsidiaries in Singapore and Germany, direct sales and service is provided in more than 25 countries. Through delivery of turnkey bonding equipment and rapid prototyping and qualification of new devices, the Palomar total solution enables our customers a seamless transition from concept to production in a competitive time-to-market framework. www.palomartechnologies.com

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Phaos Technology Pte Ltd is a deep-tech start-up originated from NUS and has matured into professionally managed advanced microscopy technology company specialized super-resolution optical microscopy product development, design and manufacture. Built on patented Optical Microsphere Nanoscope (OMN) technology, the mass production model OptoNano200 microscope has achieved unparalleled super-resolution capability of 137nm in visible light and ambient air observation setting. The OptoNano100 model in advanced engineering stage on track for delivery to market in early 2021, shall offer sub-100nm super-resolution capability with dark-field, phase-contrast and fluorescence (optional) features built in to meet the needs of wide range applications in material, semiconductor and bio-chem study, research and analysis, without interference or contamination of target samples. www.phaos.com.sg

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PI

PI (Physik Instrumente) Well-known for the high quality of its products, the PI Group is one of the leading players in the global market for precision positioning technology for many years. PI has been developing and manufacturing standard and OEM products with piezo or motor drives for more than 40 years. In addition to four locations in Germany, the PI Group is represented internationally by fifteen sales and service subsidiaries. www.pi-southeast.asia

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Polytec specialize in the technological fields of Vibrometry, Velocimetry, 3D Surface Metrology and Special Adhesives. We provide the most precise and reliable optical instruments and sensors available for measuring dynamic mechanical and static geometry properties of test objects in many fields of science and industry. In the field of micro and nano technology Polytec's innovative, non-contact optical metrology enables the systematic testing of dynamic mechanical response to important electrical and physical inputs, working with the resolutions in the nanometer range and below. Fine 3D surface structures can be measured by white-light interferometry also at the nanometer range. www.polytec.com

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Precision Laser Solutions Pte Ltd is a high-tech enterprise incorporated in Singapore. The company has developed high precision laser micro-processing automation equipment, turn-key laser remanufacturing equipment, multi-axis robotic automation flexible production lines, and automatic quality control and vision inspection equipment for high-end industrial applications. Some of the technologies developed have been patented in various countries and regions. The company has successfully developed precision laser and automation equipment for research institutes, universities, and top multinational companies. The industrial sectors it has served include hard disk industry, biomedical industry, aerospace industry, semiconductor industry, traditional manufacturing industry etc. www.SG-PLS.com

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QRT is No.1 in device reliability evaluation, physical/electrical/optical/material analysis lab in Korea, supporting local and global leading semiconductor/automotive companies. Recently, QRT R&D team has developed the precise/cost-effective RF device reliability monitoring equipment and Soft error (Semiconductor failure/error by radiation) measurement equipment and studied TPA(Two-Photon Absorption). Life evaluation and device/material analysis on Silicon Photonics and various sensors are what QRT's interests. <https://qrkr.com/en/>

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量子化学科技(新加坡)有限公司
Quantum Chemical Technologies (S'pore) Pte Ltd

Quantum Chemical Technologies (S) Pte Ltd is a subsidiary of the Singapore Asahi Chemical & Solder Industries Pte Ltd. Singapore Asahi Chemical & Solder Industries Pte Ltd (“the Company”) is a privately held company founded in Singapore in 1977 to carry on the business as a manufacturer and distributor of an extensive range of high quality solder products and specialty chemicals for the consumer electronics, PCB, semi-conductor, computer, telecommunication, medical, automobile, and aerospace industries. www.asahisolder.com

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At **SDO** we strive to deliver high quality optical components, modules and sub-assemblies for the precision optics industry, both local and overseas. SDO is driven by highly competent and dedicated staff, each with many years of rich experience in the precision optics arena. Being a fully compliant “Made in Singapore” company and located in this country, SDO also position itself as a reliable, strategic global sourcing partner. Our small and agile operations ensure we can meet the varied needs of our customers, in this ever-evolving business landscape. Our passion and commitment to deliver the best products and services, continue to spur us to greater heights and innovation.

Our Strength – Your Advantage. Welcome to the New Dynamic. www.dynamic-optronics.sg

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Shimadzu Asia Pacific is a subsidiary of Shimadzu Corporation, manufacturer of both analytical and medical instruments, founded in 1875 in Kyoto, Japan. Established in 1989 in Singapore as a regional headquarter, we provide sales, marketing and technical support, application development, research and development facilities across a wide range of industries. We work closely with a selected network of local distributors in 14 countries including, Bangladesh, Brunei, Cambodia, India, Indonesia, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Thailand and Vietnam. We also have subsidiaries in India, Malaysia and Philippines, with application specialists, technical and sales engineers. www.shimadzu.com.sg

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SICK

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SICK – world’s leading producers of sensor solutions for industrial applications. Founded in 1946 in Waldkirch, Germany, it has a global presence of 50 subsidiaries with 10,000 employees. SICK holds more than 3,500 patents and invests 10% of its revenue and personnel resources in R&D activities to continue its successful legacy in sensor innovations and intelligence. SICK established a Regional Product Center in Singapore since 2009 to cater to growing customer’s needs in Asia. This Center consists of a R&D Product Development Center in Singapore and a Manufacturing Center in Johor, Malaysia. We develop and manufacture new sensors with the ultimate goal to deliver superior customer advantage and provide job satisfactions and security for our staff. Sensor intelligence is essential in order to succeed in moving industrial manufacturing and logistics processes forward towards a Smart Factory, otherwise known as the “Industry 4.0”. With focus on connectivity and data sovereignty, SICK is well placed to exploit “Industry 4.0” to gain huge potential growth. www.sick.com

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SILTERRA

SilTerra is a 200mm semiconductor wafer foundry based in Malaysia offering a full range of CMOS process technologies such as Advanced Logic, Mixed Signal & Radio Frequency and High Voltage applications. By building on these core technologies, SilTerra has progressed into more advanced technology areas such as Silicon Photonics, Bio-photonics, MEMS, Gallium Nitride(GaN), BCD and Discrete Power – also known collectively as “More-than-Moore” technologies. Included in its range of engineering services, SilTerra also offers customized MEMS foundry services for proprietary devices and a unique MEMS-on-CMOS technology which monolithically integrates MEMS devices onto CMOS wafers, thus, turning them into cost-effective single-chip solutions for applications such as frequency control, data projection and sensing for medical, industrial and consumer electronics end-markets. For latest news and more information, visit us at www.silterra.com

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SIMTRUM Pte. Ltd was incorporated in 2019 as a technology development company for lasers and photonics solutions, with strong focus on spectroscopy and microscopy solutions. SIMTRUM provides an E-commerce platform to make photonics more accessible to end users to foster collaborative networking with companies, manufacturers and start-ups with the goal of providing value-added consultancy, innovative design and cost-effective solutions. For more information, please visit our website at www.simtrum.com.

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Sintec Optronics Pte Ltd is a leading supplier and manufacturer of a wide range of photonics products such as lasers, laser parts, laser machines and relevant accessories. Sintec is a specialized manufacturer and supplier for laser sources such as CO2 laser, green laser, fiber laser, laser diode, DPSS laser & ultrafast pulse lasers. Sintec also specialized for laser parts and components such as AO & EO Q-switch & driver, AOM, AO deflector & frequency shifter, laser lamp (arc lamp and flashlamp), CW & pulsed laser power supply (lamp driver), Nd:YAG rod, Nd:YVO4, KTP & BBO, beam expander, f-theta lens, focusing lens, tunable lens, dual-focus lens, mirror and mirror mount, output coupler, laser powermeter, laser beam analyser & profiler, superluminescent diode, laser diode, diode driver, diode pump module, CNC control software, laser marking head & software, green laser pointer & module, pump chamber, lamp-pumped cavity, ceramic reflector, fiber & fiber coupler. Sintec manufacture industrial machine like laser marking machine, laser cutting & laser welding machine. www.sintec.sg

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Smart Illumination is created by a team of experienced lighting and technology specialists with more 40 years of knowledge. Burning a vision that lighting will be the key and base infrastructure for IoT solutions, we set up our headquarters in Singapore in 2018, providing our services across Asia Pacific and beyond. www.smartillum.com

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STAR Technologies is one of leading test solution provider in semiconductor industry. Specialized in intellectual properties, software, test equipment and services. Our expertise extends to silicon photonic test, parametric electrical test (E-test), wafer-level and package-level reliability (WLR & PLR), mixed signal automatic test equipment (ATE), DC-RF device characterization test, reliability qualification, assembly and packaging services, WAT/wafer sort test probe cards, load boards, burn-in board and other consumables. Established in August 2000, STAR now is based in Hsinchu, Taiwan with offices in U.S.A, Japan, Singapore, South Korea, China and India. www.star-quest.com

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ST Electronics is a wholly-owned subsidiary of Singapore Technologies Engineering Ltd, one of the largest public-listed companies on the Singapore Exchange. ST Electronics has more than 40 years of experience in providing Intelligent Transportation systems, Satellite and broadband communications, and Information Communications Technologies (ICT) solutions to governments and commercial enterprises worldwide. Our operations span the globe with offices in Africa, China, Europe, India, Latin America, North America, Southeast Asia and the Middle East. www.stengg.com/en/electronics

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STELOP, your SMART EO applications partner, with more than 20 years of experience in Electro Optics, combines advance research in thermal imaging, optronics, lasers & pointing systems, realtime video analytics, ruggedisation and stabilisation to design our own comprehensive suite of SMART EO Products that integrate seamlessly with open architectures to create SMART EO Applications for our customers. www.stelop.com

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Sunyu Photonics is a high-tech company registered in Singapore as a joint venture with Canadian technology company EHVA Inc. We provide turnkey testing solutions: (1) The only hardware solution in the current market with capability of testing singulated die to full wafer (up to 12" wafers) with high accuracy and throughput. (2) The unique open-architecture software enables scaling while seamlessly handling component and test definitions, build recipes, bill of tests, analysis and reporting. (3) The comprehensive testing services. Gain agility and cost-effectiveness by leveraging our platform either as a solution or as a service. www.linkedin.com/company/sunyu-photonics-pte-ltd/

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Synopsys is at the forefront of Smart Everything with the world's most advanced technologies. Our Optical Solutions Group is a leading developer of optical design and analysis tools that model all aspects of light propagation, enabling users to produce accurate virtual prototypes leading to manufacturable optical systems. Our innovative software packages include CODE V® imaging design software, LightTools® illumination design software, and the LucidShape® products for automotive lighting. We are integrated with RSoft™ Photonic Device Tools for streamlined, multi-domain co-simulations of nano-textured optical structures and diffraction analysis. We offer precision light scattering measurements and equipment for high-accuracy optical product simulations and visualizations. www.synopsys.com/optical-solutions.html

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Syswell Technology has developed a proprietary sensor system using FBG that is able to transmit the data wirelessly. This sensor system surpasses conventional monitoring methods and allows the reliable and consistent monitoring of the construction site and buildings which can collect data which will aid in detecting critical anomalies that will be life-saving. www.syswelltech.com

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Technolite is an architectural lighting specialist recognised for EMPOWERING designers with an extensive range of cutting edge luminaires from the world's best brands. Since its inception in 1991, we have grown to become a leader in the lighting industry today. We have now a team of passionate lighting people, working very closely with renowned manufacturers, architects, lighting designers as well as developers across the world to bring a new dimension in lighting experiences. At Technolite, quality is the common and only standard preached and practiced. We strive for continuous quality improvement and seek to exceed customers' expectations. It is our goal to strengthen our position in the global lighting market by keeping ourselves abreast of the latest technology. www.technolite.global

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Tessolve (a Hero Electronix Venture) is a leading end-to-end solution provider, from chip design, Test and PCB engineering through Embedded systems development. Tessolve continues to grow at a rapid pace with 2100+ employees with operations in the USA, Europe, India, and south-east Asia. Tessolve boasts of 600+ Chip designers, 900+ Test and Product Engineers, 200 PCB Designers, 100+ Embedded system engineers and worldwide Test Centres. Tessolve provides solutions to many industries including Automotive, Avionics, Computing, Imaging, Medical, Mobile and Sensors. Tessolve's roadmap includes further specialization in high growth sectors such as 5G, Automotive ICs, Silicon Photonics, Artificial Intelligence, IoT. Tessolve has partnered with industry leading semiconductor companies in building state-of-art Industry's first 7nm based Optical Modules, Characterizing SiPh components, next generation Transceivers. For more details, visit www.tessolve.com

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TNC Optics & Technologies Pte Ltd. Established in 2000, TNC Optics is a provider of optical components and solutions. We are fully equipped to manufacture a wide range of products; ranging from Precision Polymer Optics health care and medical devices. On Precision Optics, we supply Lens for AR (Augmented Reality), VR (Virtual Reality), HUD and more. Other application includes Photonics lenses (used for Lifi), Lens for Defence and sensing, for Life science and Biometrics. We supply disposable used in operating theatre, sterile nasopharyngeal swabs, and more for Healthcare. TNC Optics is able to offer high quality Precision Polymer products through Innovation and Experience. We have a team of highly experienced staff with more than 15 years of hands on Precision Molding. Our core expertise covers Mold Tools design, precision inserts fabrication with in house SPDT (Single Point Diamond Turning). www.tncoptics.com

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Transcelestial is building a space laser network to deliver a step-change in internet connectivity globally. This will be the fastest way to bring the rest of the world up on the bandwidth and connectivity curve. Right now, Transcelestial is using the same technology on the ground as a "wireless fibre optics" solution in the CENTAURI product line. The CENTAURI product is now commercially available and allows reliable communication links with up to 20 Gbps data rates covering over 3km distances with a much lower TCO than fibre for telcos and enterprises. www.transcelestial.com

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T-Smart Pte Ltd is a manufacturing company in Singapore that was incorporated in 2019. The company provides novel and superior manufacturing technology to the traditional infrared temperature sensing architecture. T-Smart has been driven by the need to create value and do it more creatively and intuitively. Thermal-imaging technology is on the rise, and it is about protection, detection and prevention augmenting Healthcare. What's clear is that the coronavirus epidemic has put a spotlight on thermal-imaging technology as a potentially important tool in combating pandemics and protecting the global economy. T-Smart applications are designed to fulfil the need for predictive detections, solutions and analytics. Riding on the impressive spread of IR technology across different application fields, so that users of T-Smart product can be inspired to develop new applications, new motivations in technology, and help manage solutions of new ideals that were not realized before. www.tsmartsystems.com

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ULVAC

ULVAC, Inc. (Headquarter located in Chigasaki, Kanagawa, Japan) is a global leader with the most comprehensive portfolio of vacuum technologies in the world. Founded in 1952 and has contributed in development of multiple industries such as electronic devices, semi-conductors, flat panel display, smart phones, solar cells, pharmaceuticals, automobiles, foods and general industrial applications, providing vacuum solutions with our advanced equipment, materials, analytic evaluations, components, and other various services. We are devoted to the evolution and innovation of vacuum technologies that are essential to all industries and culture by providing the best solutions to our customers in order to make a difference in the lives of every person. Our goal is to develop enduring and positive relationship with our customers. With over 60 years of leading vacuum technologies experience supported by our global operations and service network with over 50 group companies around the world, ULVAC has been continuously developing manufacturing solutions. www.ulvac.co.jp/en/

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Wavelength Opto-Electronic (S) Pte Ltd (WOE) is your one-stop centre, strategic partner and collaborator for Photonics since 2002. We have a strong R&D team who specialize in design and customization of optics related solutions for customers. We have capability to provide a complete supply chain from raw material, machining, coating, inspection up to delivery to customer destination worldwide. By adding our knowledge and experience in distribution products over the years, we are able to provide a complete solution, by combining our optics products and distribution products to meet the customer requirements and specifications. www.wavelength-oe.com

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WEO Corporation is a manufacturer of High Precision Optical components and Opto-Mechanical assemblies with Head Office in Singapore. Our Business covers a wide range of optics and optical for industries used, including scientific instrumentation, medical devices and optical imaging products. Our fully own plant is ISO9001 certified, can fabricate a wide range of Spherical, Flats, Cylindrical with coated surfaces are built into full assembled Objective. Equipped with efficient production machineries and metrology equipment, WEO is capable of supporting customers from the stage of prototyping, qualifying to volume production. We aim to provide quality product with timely, accurate and customer focused support. www.weocorp.com

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