



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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Acexon Technologies Pte Ltd was established in Singapore since 2004 as a regional distributor specialising in the field of Laser, Optics, Electro-optics and Photonics, serving several countries in South East Asia region. Acexon works with reputable suppliers to offer a full range of lasers, optics, measurement products, positioning products, laser safety products, and other laser-related equipment. www.acexontech.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

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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CTmetrix. In the Industry 4.0 era of advanced manufacturing, we support our customers to achieve their sustainability goals through application of digitalisation, advanced sensing, and AI. CTmetrix's IoT products monitor and control manufacturing processes while our high-performance, in-line, 3D X-ray imaging systems deliver 100% inspection of manufactured product. Passing both process control and product inspection data through our real-time AI platform, our customers achieve optimised process operation, high product yield and automated quality control – the fundamentals of sustainable manufacturing. CTmetrix products are manufactured using specialist robotic systems in Singapore for sale at home and internationally while our commercial and development teams continually define and design new products and technology to support our customers. www.ctmetrix.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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DELO

INDUSTRIAL ADHESIVES

DELO is a leading manufacturer of high-tech adhesives and other multifunctional materials as well as corresponding dispensing and curing technology. The company's products are mainly used in the automotive, consumer electronics and semiconductor industries. They can be found in almost every mobile phone and every second car worldwide, for example in cameras, loudspeakers, electric motors, or sensors. Customers include Bosch, Huawei, Mercedes, Osram, Siemens, and Sony. DELO's headquarters are in Windach near Munich, with subsidiaries in China, Japan, Malaysia, Singapore, and the USA and distributors in numerous other countries. The company employs a workforce of almost 1,000 and achieved a turnover of 182 million euros in fiscal 2022. www.delo-adhesives.com

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DEMCON

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

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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EVATEC. Based out of its headquarters in Switzerland, Evatec designs and manufactures high-tech thin-film production platforms. From micro-LEDs, face recognition and efficient power management technologies for smart consumer devices, to enabling advanced IC substrates or 5G mobile networks, Evatec's delivers thin film processes that give customers the lead across a whole range of applications in the advanced packaging, semiconductor, optoelectronics and photonics industries. Evatec knowhow enables the deposition of new materials, using advanced process control technologies for new levels of coating precision, and fully automated manufacturing platforms that raise throughput and yield for the lowest mass production costs. www.evatecnet.com

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Excelitas Technologies is a technology leader in delivering high-performance, market-driven photonic innovations to meet the illumination, optical, optronic, sensing, detection and imaging needs of customers worldwide. Serving a vast array of applications across automotive, consumer products, defense and aerospace, industrial, medical, safety and security, and sciences sectors, Excelitas Technologies stands committed to promoting our customers' success. www.excelitas.com

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EXFO develops smarter test, monitoring and analytics solutions for fixed and mobile network operators, webscale companies and equipment manufacturers in the global communications industry. Our customers count on our unique blend of equipment, software and services to accelerate digital transformations related to fiber, 4G/LTE and 5G deployments. We've spent over 30 years earning this trust, and today more than 1,900 EXFO employees in over 25 countries work side by side with our customers in the lab, field, data center and beyond. www.exfo.com

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Fingate Technologies is an integrated photonics fabless technology company, whose mission is to develop highly integrated optical systems, enabling widespread applications including environmental monitoring and healthcare, etc. www.fingatetech.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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GLOBALFOUNDRIES (GF) is the world's leading specialty foundry. GF delivers differentiated feature-rich solutions that enable its clients to develop innovative products for high-growth market segments. GF provides a broad range of platforms and features with a unique mix of design, development and fabrication services. With an at-scale manufacturing footprint spanning the U.S., Europe and Asia, GF has the flexibility and agility to meet the dynamic needs of clients across the globe. GF is owned by Mubadala Investment Company. For more information, visit www.gf.com.

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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 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 distribution 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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KLA Corporation, a leading provider of process control and yield management solutions, partners with customers around the world to develop state-of-the-art inspection and metrology technologies. These technologies serve the semiconductor and other related nanoelectronics industries. With a portfolio of industry standard products and a team of world-class engineers and scientists, the company has created superior solutions for its customers for 40 years. Headquartered in Milpitas, Calif., KLA has dedicated customer operations and service centers around the world.

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Leuze

Leuze electronic Singapore Pte Ltd. With curiosity and determination, the Sensor People from Leuze have been creating innovations and technological milestones in industrial automation for more than 50 years. They are driven by the success of their customers. Yesterday. Today. Tomorrow. The technology leader's high-tech product range includes a number of different sensors for the field of automation technology. Among these are switching and measuring sensors, identification systems, and data transmission and image processing solutions. As a Safety Expert, Leuze is also focused on components, services and solutions for safety at work. Leuze concentrates on its core industries, in which the Sensor People have extensive, specific application know-how and many years of experience. These include intralogistics and the packaging industry, machine tools, the automotive industry as well as laboratory automation. Leuze was founded in 1963, headquartered in Owen/Teck in Southern Germany. Today there are more than 1200 Sensor People around the world who are working with determination and passion for progress and transformation to make their customers successful in a constantly changing industry. Regardless of whether in the technological competence centers or in one of the 21 sales companies, supported by more than 40 international distributors. www.leuze.com

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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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LIGHTSPEED PHOTONICS

At LightSpeed Photonics, we combine optical interconnects with Processors to build a modular “compute+interconnect” heterogeneous System-in-Package (SiP), “LightSiP™” resulting in a scalable server. LightSiP™ reduces data latency, footprint, power consumption while increasing the data bandwidth and performance per watt. It incorporates proprietary high data rate free-space optical interconnect, “LightKconnect™” for protocol agnostic chip-to-chip communication. Optics within the processor provides low latency, low power interconnect while reconfigurable processors provide the high performance for future computing needs. LightSiP has a small footprint with 3D Heterogeneous Integration. This Co-Packaged Optics Processor is an emerging technology that results in a highly efficient distributed computing system. <https://lightspeedphotonics.com>

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LINX

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

General Enquiry email: sales@linx-sg.com

LITEON[®]

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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Lotus Microsystems makes the world’s smallest power converters! Leveraging breakthrough research, technology, and IP, Lotus Microsystems is a fab-less semiconductor manufacturer of highly efficient and super compact power management components that enable mobile electronic devices to run longer on a single charge, pack more features, and are more environment-friendly when recycled than products based on conventional technologies. www.lotus-microsystems.com

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MASSTRON

Masstron, established in Singapore since 1995, has envisaged that Fiber Optics would revolutionize the way people interact, work, and play. Today, Masstron is one of the market leaders, with a mission to provide the key benefits in total communication solutions in Fiber Optics & Network infrastructure. Our customer-focused solutions include cable and accessories, manufacturing of jumper cables, provision of on-site termination and testing services. We support total communication solutions to Data Communication and Computer Network industry, Transport, Industrial Automation and Process Control Environment, Shipyards and Offshore, Oil & Gas industry, Military and Security Arena, OEM and Contract Manufacturers. www.masstron.com

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MATERION

// BALZERS OPTICS

Materion Balzers Optics is a global leader in optical thin film coating solutions. We are the preferred partner for providing innovative optical coatings and solutions for over 70 years. From the UV through the Far IR, we custom manufacturer and supply precision optical filters and coatings. As a high-tech company with 5 production sites worldwide, our focus is on a variety of markets such as Life Science, Industry, Consumer, Lighting, Space, Defense, Semiconductors and Automotive.

<https://www.materionbalzersoptics.com/en/>

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MERIDIAN Innovation

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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MINDOX TECHNO
INTEGRATING INNOVATION

Mindox Techno designs and builds high-quality production equipment for Advance packaging, Front End, and Back End in Semiconductor Chip manufacturing. We offer next-generation manufacturing equipment to our customer. We integrate AI & Machine Learning predictive control modelling with complete life cycle cost management. We are globally present in providing turnkey solutions and equipment customization to customers in order to continuously support the increasing semiconductor market. www.mindoxtechno.com

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MMI Systems is a capital equipment factory automation & systems integrator organization that performs Design-and-Build (D&B) and Build-to-Print (B2P) factory automation; so as to improve efficiency, quality and scale in multiple industrial sectors. Industrial we serve includes Consumer Electronics, Data Storage, Life Science Healthcare, Medical Device, Semiconductor and more. MMI Systems is a subsidiary of MMI Group, a leading Electro-Mechanical Contract Manufacturer with facilities located in the Asia Pacific region includes China, Thailand, Malaysia, Singapore and USA. We provide world class precision machining components and a full range of electro-mechanical components and system, contract manufacturing services for various industries.

www.mmi-systems.com.sg

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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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SIMTRUM

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