

TOSIA

台灣光電暨化合物半導體產業協會
Taiwan Optoelectronic Semiconductor Industry Association

會員手冊

Member Handbook

台灣光電暨化合物半導體產業協會

Taiwan Optoelectronic Semiconductor Industry Association (TOSIA)

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2026

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TOSIA 前言

Preface

台灣LED光電暨化合物半導體領域在2022年之產值已達1兆5千億（來源：光電週網頁公開資料），而TOSIA所屬會員涵蓋此產業領域之上、中、下游，雖全球LED市場產值近年面臨挑戰，加上國際局勢動盪影響甚鉅，台灣產業界面對數項挑戰，如何站穩腳步、找出因應之道即為最主要的課題。本協會（TOSIA）透過長期與產業密切之互動，希望藉此向政府提出政策建言，協助打造永續經營之台灣光電暨化合物半導體產業。依現行協會產業發展趨勢，區分下列四大技術領域：LED光電、MicroLED、化合物半導體與淨零碳排，凝聚產學研各方共識，定義產業聚焦之核心範疇。

TOSIA主要任務

(一) 新興應用市場開發，擴大出海口

強化與歐美、日韓及東協等國家產業交流，創造合作商機。

(二) 深化國內外組織合作、提升技術含量

鏈結相關公協會如：照明燈具輸出業同業公會（TLFEA）、電機電子工業同業公會（TEEMA）、國際半導體產業協會（SEMI）、光電科技協進會（PIDA）、華聚產業共同標準推動基金會（SINOCON）、歐洲光電產業協會（EPIC）、PhotonDelta、國感測器及量測協會（AMA）等國內相關公協會組織，促進產業整體健全發展。

(三) 跨領域融合，開拓新應用

1. 引進AIoT產業能量，建構台灣光電與化合物半導體創新運用產業鏈。
2. 成立智慧光電半導體感測器SIG、智慧顯示與Micro-LED SIG、光通訊與矽光子SIG，運用跨域合作，促進供應鏈整合的創新應用方案，再次躍升國際領導地位。
3. 舉辦TOSIA AWARD、科技論文獎、鐙炬獎，促進產業創新技術，提升學術合作交流，藉由行銷、美學等競爭元素，提升台灣LED產品創新價值。
4. 輔導品牌經營、智慧製造與數位轉型，促進企業轉型與升級。

(四) 提供政府建言

建構產業與官方互動平台，凝聚產業共識、推動政策建言、深耕產業交流合作。

TOSIA Preface

前言

In 2022, the output value of Taiwan's LED optoelectronics and compound semiconductor industry reached NT\$1.5 trillion (source: publicly available data from Photonic Week). TOSIA's member companies span the entire value chain of this sector, covering upstream, midstream, and downstream segments. Despite facing challenges in the global LED market and the significant impact of international geopolitical instability, Taiwan's industry is navigating multiple pressures. How to maintain a firm footing and identify effective responses has become a central issue. Through long-term and close engagement with the industry, the Taiwan Optoelectronic Semiconductor Industry Association (TOSIA) aims to provide the government with policy recommendations to support the sustainable development of Taiwan's optoelectronics and compound semiconductor sector.

Based on current industry development trends, TOSIA categorizes the sector into four major technical domains: LED optoelectronics, MicroLED, compound semiconductors, and net-zero carbon emissions. The goal is to build consensus across academia, research institutions, and industry to define core focus areas for the sector.

TOSIA's Key Missions

(1) Development of Emerging Application Markets & Expansion into Global Markets

Strengthen industrial exchange with countries such as those in Europe, the U.S., Japan, Korea, and ASEAN to create international cooperation opportunities.

(2) Deepen Collaboration with Domestic and International Organizations & Enhance Technical Capabilities

Forge links with industry associations including the Taiwan Lighting Fixture Export Association (TLFEA), Taiwan Electrical and Electronic Manufacturers' Association (TEEMA), SEMI, Photonics Industry & Technology Development Association (PIDA), SINOCON Industrial Standards Foundation, European Photonics Industry Consortium (EPIC), PhotonDelta, and the German AMA Association for Sensors and Measurement, among others, to promote a robust and holistic industry development.

(3) Cross-Disciplinary Integration & New Application Development

1. Introduce AIoT capabilities to build an innovative application chain combining Taiwan's optoelectronics and compound semiconductor sectors.
2. Establish Special Interest Groups (SIGs) in Smart Photonic Semiconductor Sensors, Smart Display & MicroLED, and Optical Communication & Silicon Photonics to foster cross-sector collaboration and develop integrated application solutions that reinforce Taiwan's global leadership.
3. Organize the TOSIA AWARD, Scientific Paper Award, and Tung Xuan Award to encourage technological innovation and strengthen academic-industry cooperation, incorporating elements of marketing and design to enhance the innovation value of Taiwan's LED products, and other competitive elements to boost the innovation value of Taiwan's LED products.
4. Support brand development, smart manufacturing, and digital transformation to facilitate industrial upgrades.

(4) Policy Advocacy

Establish a communication platform between industry and government, consolidate industry consensus, and actively promote policy recommendations and in-depth industrial cooperation.

TOSIA 台灣光電暨化合物半導體產業協會

Taiwan Optoelectronic Semiconductor Industry Association

TOSIA Taiwan Optoelectronic Semiconductor Industry Association

台灣光電暨化合物半導體產業協會

公司簡介

台灣光電暨化合物半導體產業協會(簡稱TOSIA)成立於民國九十六年，以匯聚國內光電半導體產業發展共識，促成會員間之策略合作，促進產業繁榮進步為宗旨。這十幾年間台灣已在LED產業奠定全球前三大供應鏈的國際地位，近幾年產業逐漸轉型擴展到高頻高壓應用領域。為帶動產業接軌化合物半導體全球市場趨勢，TOSIA於2021年2月由「台灣光電半導體產業協會」更名為「台灣光電暨化合物半導體產業協會」，藉以宣示將凝聚產業共識提昇我國光電及化合物半導體技術水準接軌化合物半導體全球市場的願景。

會員

TOSIA會員包含國內光電、半導體、照明、感測領域，以及德國感測器協會，共計25家團體會員。在化合物半導體、人工智慧物聯網、智慧城市等議題驅動LED產業再度升級轉型，TOSIA將持續結合國內產官學研力量，共同帶領會員為台灣光電及化合物半導體產業發展而努力。

亮點介紹

TOSIA為增進台灣光電暨化合物半導體產業間交流以及促進學術研究朝向實務應用化，創設「TOSIA AWARD」及「TOSIA科技論文獎」。2023年9月更是創立「光通訊與矽光子SIG」，串聯生態系統供應鏈，整合上、中、下游業者以TOSIA建立資訊整合平台，透過商機媒合迅速找到產業夥伴，促進產業整合開發，強化完整產業鏈。

一、TOSIA AWARD 與 TOSIA 科技論文獎

- ▶ 整合產業與學術能量：結合 TOSIA AWARD 與 TOSIA 科技論文獎，推動光電暨化合物半導體領域之創新與交流平臺。
- ▶ 表揚產業卓越貢獻：肯定對產業發展、技術突破與國際推展具長期影響力之優秀人士與成果。
- ▶ 促進技術創新與產品應用：遴選具指標性創新技術與產品，強化產業競爭力與應用落地。
- ▶ 深化前瞻研究發展：聚焦 Micro LED、半導體雷射、光電感測與化合物半導體等關鍵技術研究。
- ▶ 強化產學與跨域合作：結合學研與產業資源，推動技術轉譯與國際競爭力提升。

二、光通訊與矽光子 SIG

- ▶ 資訊整合平台：定期研討會，提供技術發展、市場趨勢及專利分析，協助會員掌握先機。
- ▶ 生態系串聯：整合上中下游業者，透過商機媒合迅速鏈結合作夥伴，加速跨領域技術應用。
- ▶ 專業分組：透過「晶片設計」、「光通模組」、「設備網通」分組運作，精準匯聚產業動能，產出具代表性的技術指標與合作成果。

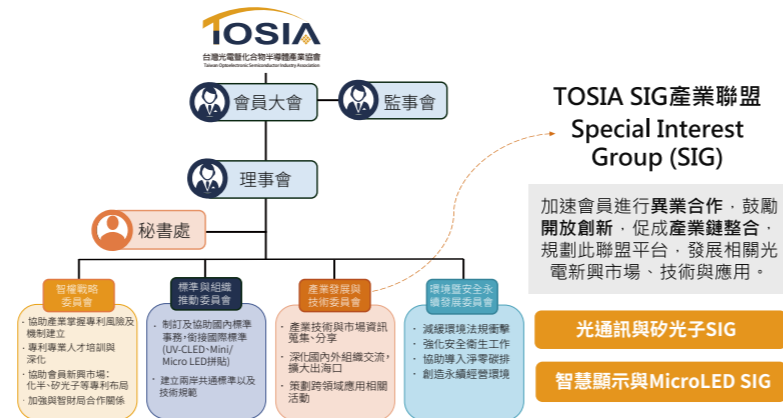
三、國際連結

- ▶ 全球產業鏈整合：深度串聯荷蘭 PhotonDelta 與歐洲 EPIC，構築矽光子與積體光學國際戰略橋樑。
- ▶ 技術與產能互補：結合歐洲前端創新設計與台灣卓越產量實力，共建國際化試製與測試平台。
- ▶ 市場商機導向：透過跨國技術交流與會員媒合機制，加速矽光子技術應用落地並拓展全球佈局。

聯絡資訊

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TOSIA 組織架構如下:



Company Profile

Taiwan Optoelectronic and Compound Semiconductor Industry Association (TOSIA) was founded in March 2007, with the mission of gathering domestic consensus on the development of the optoelectronic semiconductor industry, facilitating strategic collaboration among members, and promoting industrial prosperity. Over the past decade, Taiwan has established a global leading position as one of the top three suppliers in the LED industry. In recent years, as the industry has gradually transformed and expanded into forward-looking applications such as high-frequency and high-voltage, optical communications, and silicon photonics, TOSIA was renamed from "Taiwan Optoelectronic Semiconductor Industry Association" to "Taiwan Optoelectronic and Compound Semiconductor Industry Association" in February 2021 to lead the industry in aligning with global market trends in compound semiconductors. This move not only declares the association's commitment to consolidating industrial consensus and elevating technical standards in optoelectronics and compound semiconductors but also demonstrates its dedication to realizing the vision of global market integration and building a robust industrial chain for innovative optoelectronic semiconductor applications in Taiwan.

Members

TOSIA has 28 members, including Optoelectronics, Lighting, and Sensor fields in Taiwan. Regarding to issues such as the compound semiconductor, AIoT, and Smart City, which have driven the LED industry to upgrade and transform again, TOSIA will continue combining the efforts of the industry, government, academia, and research institutes to help Taiwan's optoelectronics and compound semiconductor industry move toward further diversified and limelight new milestones with smart innovation.

Major Event

To enhance communication within the optoelectronic and compound semiconductor industry and promote the practical application of academic research, TOSIA has established the "TOSIA AWARD" and the "TOSIA Technology Paper Award." In September 2023, the "Optical Communications and Silicon Photonics SIG" was founded to connect the ecosystem supply chain. By integrating upstream, midstream, and downstream operators, TOSIA serves as an information integration platform to swiftly identify industry partners through business matchmaking, promoting integrated development, and strengthening the entire industry chain. In 2026, the association is further focusing on three specialized groups—"Chip Design," "Equipment & Networking," and "Optical Modules"—to precisely align R&D with market trends through close member collaboration, striving to develop landmark industrial achievements and consolidate Taiwan's core position in the global supply chain.

I. Synergizing Industry Excellence & Academic Innovation

- TOSIA AWARD: Strengthening global competitiveness by honoring outstanding industry leaders and pioneering products that drive continuous innovation and long-term sectoral growth.
- TOSIA Technology Paper Award: Bridging the gap between research and practice through strategic industry-academia collaboration and inter-ministerial partnerships with National Science and Technology Council (NSTC).
- Advancing Frontier Technologies: Accelerating the development of next-generation solutions, including Micro LED, semiconductor lasers, and emerging compound semiconductor applications.

II. Optical Communications and Silicon Photonics SIG

- Information Integration Platform: Holding monthly seminars to provide insights on technological advancements, market trends, and patent analysis.
- Ecosystem Connection: Integrating upstream to downstream operators and facilitating rapid partnership linkage through business matchmaking to accelerate cross-domain applications.
- 2026 Specialized Grouping: Leveraging the "Chip Design," "Equipment & Networking," and "Optical Modules" groups to precisely converge industrial momentum and produce representative technical indicators and collaborative achievements.

III. International Strategic Alliances

- Global Supply Chain Integration: Establishing strategic bridges with PhotonDelta and EPIC to foster international collaboration in Silicon Photonics and PICs.
- Synergistic Technical Capabilities: Leveraging European design innovation and Taiwan's mass-production expertise to co-develop international testing and pilot platforms.
- Market-Driven Opportunities: Accelerating Silicon Photonics commercialization and global expansion through cross-border technical exchanges and member-matching initiatives.

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2026 TOSIA AWARD 頒獎典禮合照

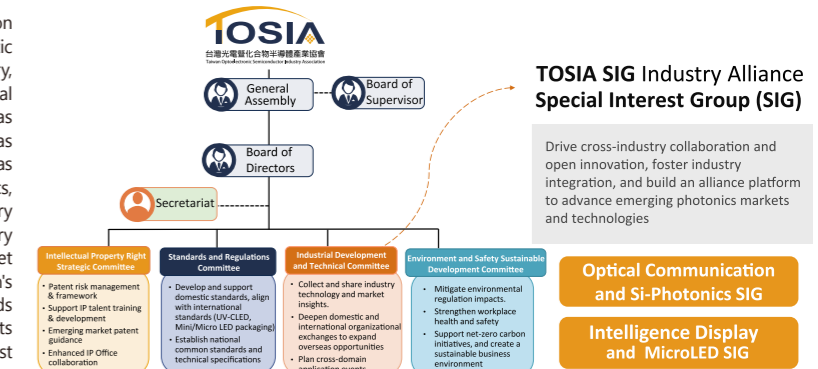


2025 科技論文獎頒獎典禮合照



2025 荷蘭 PIC Summit 參展交流紀實

Association Organization :





一詮精密工業股份有限公司

I-CHIUN Precision Industry Co., LTD



I-CHIUM PRECISION INDUSTRY CO., LTD

一詮精密工業股份有限公司

公司簡介

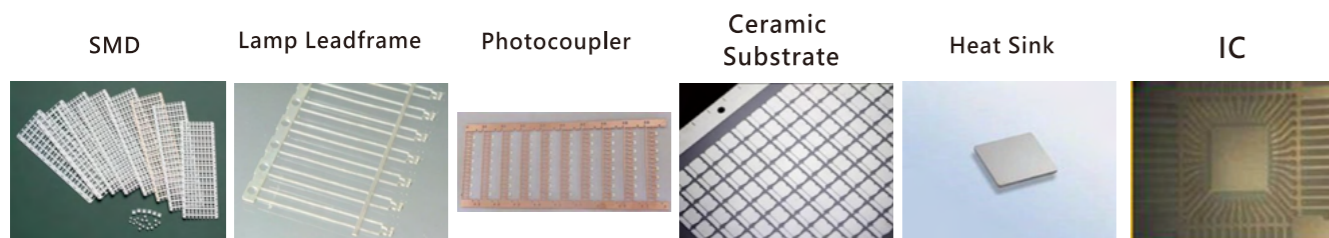
一詮創立於1977年，主要產品有光電導線架、微電機、各式小型馬達及3C產業的主要部品。近年來，一詮為配合全球產業生產重心轉移到大陸的趨勢，以及就近服務客戶的需求，積極展開在大陸投資設廠的工作，目前已於深圳、昆山、江門設廠，建立了更迅捷完善的服務網。

全球員工已達3000餘名，以世界性3C製造業，全球化前瞻性公司自許。目前一詮光電產業LED可見光及不可見光導線架的全球市佔率已經排名世界第一。為了挑戰精度與產能極限，不斷的投入研發，培植技

術能力，開創新產品。更為了開拓國際市場，積極培養人才，禮聘專業經理人建立具有國際觀的經營團隊，奠定永續經營的基礎。

一詮創立至今已經擁有核心智慧財權超過50項以上，分布於手機震動馬達、3C關鍵部品以及LED光電產業導線架等。在無線通訊與電子產業日新月異的今天，企業經營不容有絲毫鬆懈，一詮集團秉持四十年來創業與立業的精神，繼續朝高科技的技術發展，引進最新技術挑戰未來，以期為客戶與公司創造雙贏的契機。

主要產品



聯絡資訊

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Company Profile

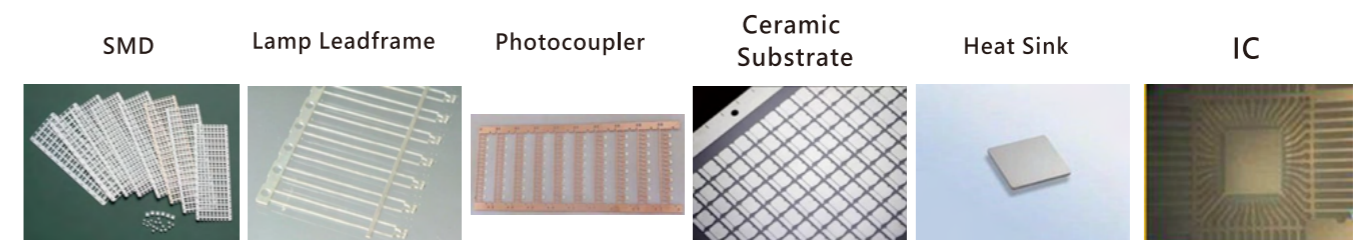
I-Chiun was established in 1977 as a manufacturer of optoelectronic lead frames, miniature electrical products, small motors and 3C products. In recent years, I-Chiun shifted its manufacturing base to China and invested in production plants in China to serve customers in the area. I-Chiun successively built plants in Shenzhen, Kunshan, Jiangmen and established a responsive and complete service network.

I-Chiun is a global company with over 3,000 employees worldwide that aims to become an advanced world-class 3C manufacturer. Currently, I-Chiun's optoelectronic LED and visible/invisible light lead frames have been ranked number one in terms of global market share. To improve precision and production capacity, I-Chiun has continuously invested in research and development, enhanced its technology and developed new products.

As we enter international markets, we work to cultivate top-quality human resources and recruit professional managers to form a team with an international point of view to build a foundation for sustainable development.

Since its establishment, I-Chiun has become the proud owner of over 50 items of intellectual property in the areas of mobile phone vibration motors, 3C key components, and LED optoelectronic lead frames. In this era when technology for wireless communication and electronics is advancing daily, the operation of our business does not allow us to rest on our laurels. I-Chiun upholds the spirit of sustainable development. In the 40 years since our establishment, I-Chiun has continued to advance in the field of high-technology. I-Chiun aims to assimilate the newest technology and challenge the future to create win-win opportunities for our clients and the company.

Main Products



Contacts

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- Company FAX: +886-2-22990089
- Contact Us mail: webmaster@i-chiun.com.tw



三得電子股份有限公司

Sander Electronics Co. Ltd



Sander Electronics Co.Ltd

三得電子股份有限公司

公司簡介

三得電子股份有限公司創立於西元1989年，是創辦人黃茂雄先生累積三十餘年LED之專業製造經驗的成果。

三得電子本著「永續經營、基業長青」的理念，不斷地培育人才並引進自動化與最新科技的生產設備，在全體員工全心投入的研究、開發與創造之下，以服務導向的理念，與顧客秉持「共存」、「共榮」的夥伴相關，成就了目前的三得電子的經營成績；現今LED產品廣泛應用於科技與生活，三得電子以穩定現有市場與顧客為基礎，放眼全球市場，展現對技術實力的信心與擴大經營版圖的企圖心。

三得電子將持續提升LED的附加價值與實用性，不斷為客戶創造商機，是穩定中求成長的重要元素。我們將從LED原料之配方、各項工序，產品開發到成品一貫作業方式，秉持著「品質創造信譽；信譽創造品質」的信念，提供市場更多元化商品的需求，這不但是三得電子經營的理念與願景，亦是全體員工追求的願景與目標。

目前公司營運據點：

台灣（台北、台南、宜蘭）、馬來西亞、日本辦公室、美國辦公室，公司的業務版圖將不斷的擴增當中。

主要產品/服務

1. 各式發光二極體 (LED) 包含交通用紅外線產品
2. 室內, 戶外看板專用 LED 模組, 看板
3. 特殊光源模組開發
4. 車用之 LED 設計
5. LED 照明產品開發設計
6. OEM、ODM 產品服務

聯絡資訊

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- 地址 : 112台北市北投區立功街153號3樓
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- 電話 : 02-28951361
- 傳真 : 02-28960980

Company Profile

Through the tireless efforts of the founder, Mr. Huang Maoxiong, since 1989, Sander Electronics Co Ltd has now more than 30 years of professional experience in LED manufacturing.

Based on the concept of "sustainable management and long-lasting business", Sander continues to cultivate talents and introduces automation and the latest technology production equipment.

Sander Electronics' business performance today is achieved under the dedicated research, development, and creation of all employees with a service-oriented concept, and also customers who adhere to the principles of "coexistence" and "commonprosperity".

Nowadays, LED products are widely used in technology and life. Sander Electronics not only maintains stable relationships, with customers as foundation, but Sander Electronics is also demonstrating confidence in its technological strength and ambition to expand its business scope in the global market.

Main Products

LED module, VMS, Message boards, Price boards, LED components, LED solutions, LED lighting, LED bus sign LED signs, LED diodes, LED lights, LED display, LED headlight LED DRL, LED automotive lighting, Power supply, cluster.

Contacts

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Sander Electronics will continue to enhance the added value and practicality of LEDs in its operation and manufacturing methods: from LED raw materials, various processes, product development to finished products, upholding the belief of "quality creates credibility; credibility creates quality", to provide the market with more diversified products and needs.

This is not only the business philosophy and vision of Sander Electronics, but also the vision and goal pursued by all its employees.

Locations:

Taiwan (Taipei, Tainan, Yilan), Malaysia, Japanese office, American office, the company's business map will continue to expand.



千才科技股份有限公司

Liverage Technology Inc.



LIVERAGE TECHNOLOGY INC.

千才科技股份有限公司

公司簡介

千才科技股份有限公司 (Liverage Technology Inc.) 配合國家策略性工業的發展，從事高科技光纖通訊主動元件及光電模組之專業設計以及製程及技術服務。Liverage之研發策略為保持與世界潮流趨勢同步之最新產品技術的速度，並與被動元件-平面光路波導技術、光學微機電技術、新型半導體雷射及積體電路封裝製程技術等重要核心技術相互結合，延伸至產品全自動化量產技術，並導入全面品質保障流程，於短時間內提供國內光通訊廠商光電元件之專門設計服務，並及時開發完成原型機進入市場，供給國內相關廠商垂直整合及品質保障之專門設計以及專業技術服務之全面解決方案。

主要產品/服務

千才科技股份有限公司提供之生產光電模組系列產品及技術服務，主要商品或服務項目諸如：1.半導體雷射光器件 155 Mbps ~ 2.5 Gbps TOSA 2.光耦合器件 155 Mbps ~ 2.5 Gbps ROSA 3.單纖三向光器件 Triplexer OSA 4.1X9 SC 雙纖雙向光收發模組 1X9 SC 155 Mbps Optical Transceiver 5.1X9 SC/FC 單纖雙向光收發模組 1X9 155 Mbps Bi-directional Transceiver Module 6.小型化熱插拔雙纖雙向光收發模組 1.25 ~ 2.5 Gbps SFP LC Transceiver Module 7.小型化雙纖雙向光收發模組 1.25 ~ 2.5 Gbps (2X10) SFF LC Transceiver Module 8.乙太網路轉換器 1.25 Gbps /Gigabit Ethernet GBIC 9.CWDM 小型化熱插拔雙纖雙向光收發模組 1.25 ~ 2.5 Gbps CWDM SFP 10. CWDM 乙太網路轉換器 CWDM GBIC Transceiver Module 11.被動式網路單纖雙向光收發模組 GEAPON - 1.25 Gbps ONU 12.光電媒體轉換器 155 Mbps / 1.25 Gbps Media Converter (With Network Management)

亮點介紹

千才科技股份有限公司提供各種高質量的測量設備。包括 BER 測試儀、MPO 測試儀、光纖安裝工具、高速光收發功率計和光測試工具。並提供各種高質量的測量設備。

聯絡資訊

- 公司官網：<http://www.liverage.com.tw>
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Company Profile

Founded in 2003, Liverage Technology Inc. is a professional manufacturer of high-quality fiber optical components, transceivers and measurement equipment in the fiber optic communications industry. Liverage Technology Inc. is located in the Tai Yuen Hi-Tech Industrial Park in Zhubei, Hsinchu. It is very close to the Hsinchu Science Park and the Industrial Technology Research Institute. Our mission - Enjoy your life, is to bring the optical broad bandwidth with reasonable price into your life. With more than 30 years of experience, our team members pride ourselves on our innovation and dedication to the highest quality in the fiber optical industry.

Main Product/ Service

The core technologies of Liverage include optical packaging, customized manufacturing technologies and testing equipment manufacturing. Our advanced quality control methods utilize state-of-the-art processing techniques, laser welding, epoxy packaging, module design and testing system integration. Additionally, our trend-setting R&D group develops high-end products for several applications such as defense, aerospace, custom security, oil exploration, etc. The following introduces the benefits of cooperating with us. First, excellent manufacturing and quality control, passed the audit and approval of well-known companies in Japan, and secondly, the price of our products is competitive, with excellent manufacturing capabilities and logistical support. In addition, we have our own R&D team, and our products can time to market efficiently. Finally, our products have been approved by top tier companies.

Featured Product

Liverage Technology Inc. provides various high-quality measurement equipment. Including BER Tester, MPO Tester, Optical Fiber Installation Tool, High-Speed Optical Transceiver Power Meter and optical testing tool.

Contacts

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工業技術研究院 量測中心

Industrial Technology Research Institute – Calibration And Measurement Capabilities

Industrial Technology Research Institute Calibration And Measurement Capabilities

工業技術研究院 量測中心

公司簡介

關於工研院量測中心

「精準好服務，標準好生活」是量測技術發展中心現階段的重點方向。經由經驗的累積，我們已建立與世界同步的標準技術能力；現階段更積極以此根基落實於產業，如最新投入的國際產業標準、影像顯示產業標準、平面顯示器檢測技術等，讓國內半導體業者在國際間更具領導優勢；在儀器產業發展上，目前則聚焦在自動化製造智慧檢測技術上，提供共通性技術互動平台，協助創造自有品牌與市場。

科技改進生活是我們更具意義的使命。量測中心的研發成果讓人民的生活、政府公權力、甚至環保醫療都得到準確的保障。「精」、「準」是我們一路追求的目標。經過多年的深耕，量測中心在國際計量舞台上已有一席之地。展望未來，量測中心將結合產業，積極運用國際組織平台，推動國際產業標準以及兩岸標準合作，為產業提供專業即時的好服務，為人民提供品質保障的好生活。

主要產品/服務

1. 國家度量衡標準實驗室 (<https://www.nml.org.tw>) 提供溯至國際單位 (SI unit) 之校正服務
2. THz 兆赫波材料分析量測技術
3. 光學、電性、可靠度檢測服務
4. 半導體設備介面開發
5. 無塵室粒子染塵控體用品 / particle counter



聯絡資訊

- 公司官網: <https://www.itri.org.tw>
- 聯絡人姓名 / 職稱: 梁瑋耘 / 經理
- 地址: 新竹市光復路二段 321 號 7 館 310 室
- Email: monicaliang@itri.org.tw
- 電話: 03-5732072
- 傳真: 03-5733540

Company Profile

About CMS/ITRI

Precision for better service, Harmonization for quality life" is the goal we embrace now. Based on the capability of establishing national measurement standards, CMS is devoted to create timely international/industrial standards to shorten the traceability chain and enhance the competitiveness. In the research of precision inspection developing, we are focusing on the development of intelligent optical inspection technology for automatic fabrication. It is a platform to expedite the development of in-house brands and technology.

Measurement for improving life is an innovation-oriented mission. Recently, a series of measures have been introduced to ensure Government's credibility, to safeguard living condition, and to promote health care in general publics. "Precision" and "Harmonization" are what we have been pursuing for years and the professional capability has been recognized worldwide. Through the global organization platform, we will continuously work with the industry, to promote the international industrial standards and facilitate the cross-strait collaboration of metrology activities. It is hoped, with the accumulated capability, to create value-added achievement to upgrade the quality of industry and our daily life.

Main Product/ Service

1. The National Measurement Laboratory (<https://www.nml.org.tw/en/>) provides calibration services traceable to SI units
2. THz material analysis and measurement technology
3. Optical characteristics, electrical, reliability testing services
4. Development of semiconductor equipment
5. Particle counter for clean room

Contacts

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- TEL : 886-3-5732072
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工業技術研究院 電子與光電系統研究所

Industrial Technology Research Institute Electronic and Optoelectronic System Research Laboratories

Industrial Technology Research Institute Electronic and Optoelectronic System Research Laboratories

工業技術研究院 電子與光電系統研究所

公司簡介

電子與光電系統研究所半世紀以來透過技術研發、服務、移轉與成立衍生公司來推動台灣半導體、顯示及光電技術整體產業興起及蓬勃發展；因應市場快速變動環境，我們持續研發強化國家發展競爭力技術 AI 晶片、化合物半導體、數位 / 類比及混合訊號晶片設計、異質整合、量子電腦與智慧顯示互動系統等前瞻科技，成為全球智慧化整合方案提供者，引領台灣電子與光電產業再躍升！

主要產品/服務

電子與光電系統研究所 研發四大領域

			
半導體	IC 設計	光電	顯示
製造、封測	晶片設計	Micro LED AR/VR	透明面板 軟性混合電子

亮點介紹



聯絡資訊

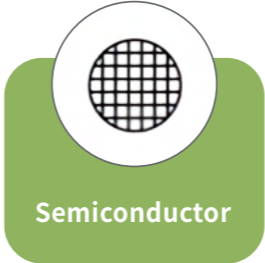

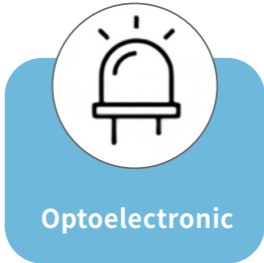
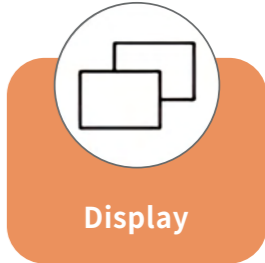
- 公司官網：<https://www.itri.org.tw>
- 地址：310401 新竹縣竹東鎮中興路四段 195 號
- Email：eosl_cs@itri.org.tw
- 電話：+886-3-5917050

Company Profile

In the past 40 years, the Electronic and Optoelectronic System Research Laboratories undertakes the missions for the researches and developments of AI Chips, Compound Semiconductors, Digital/Analog and Mixed-Signal IC Design, Heterogeneous Integration, Quantum Computers and Transparent Display Interactive System technologies.

Main Product/ Service

Research & Development

			
Semiconductor	IC Design	Optoelectronic	Display
<ul style="list-style-type: none"> • Non-Volatile Memory • 8"/12" backend • Adv. packaging • Compound semiconductor 	<ul style="list-style-type: none"> • AI Chip IP • System software 	<ul style="list-style-type: none"> • Micro LED • AR/VR 	<ul style="list-style-type: none"> • Transparent panel • Flexible hybrid electronics

Identity introduction



Contacts

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- TEL：+886-3-5917050

Kingbright

今台電子股份有限公司

Kingbright Electronic Co., Ltd.

公司簡介



今台電子 (Kingbright) 是一家專業的 LED (發光二極體) 製造廠, 自 1980 成立於台灣後, Kingbright 持續不斷的在 LED 電子零件的專業領域內成長茁壯和擴大影響力。擁有超過 40 年的專業製造經驗, 今台開發的各項 LED 產品和技術的創新, 對我們全球各地的客戶助益甚多。

今台電子位於台灣新北市, 為了近距離提供世界各地的客戶最快速的服務品質, 在全球各地皆有行銷系統。

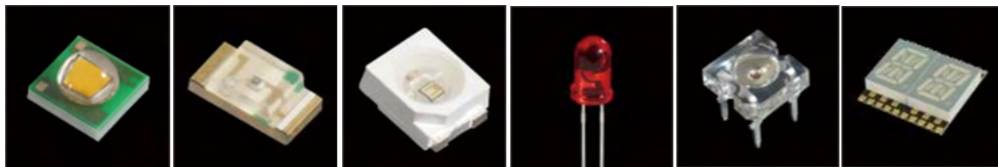
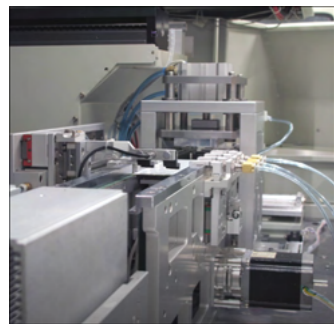
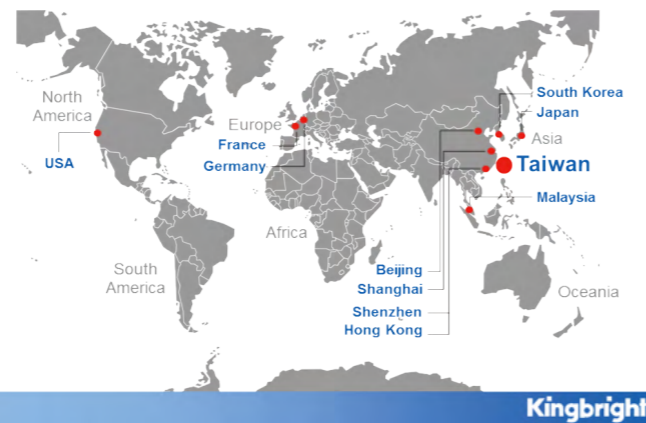
過去 40 多年來, 今台電子成功地在銷售額成長茁壯和全球業務的穩健擴張, 是由於 Kingbright 一流的產品和對客戶的體貼服務, 持續不斷的吸引在世界各地的客戶。今台電子將會秉持同一水準, 並再接再厲在 LED 之領域上做更進一步的創新與服務。



主要產品/服務

今台電子工廠有通過各項重要品質管理認證, 包括 ISO 9002 與 TS 16949, 實行 6 SIGMA 品管系統和導入 ERP 系統管理。

自動化產線產能 SMD LED 每月三億顆, Through-hole Lamp 每月一億顆, LED Display 每月七百萬個。



聯絡資訊

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- TEL: +886-2-2249-9224
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- EMAIL: sales@kingbright.com

Kingbright

Kingbright Company, LLC

今台電子股份有限公司

About Kingbright LED MANUFACTURER

Kingbright Company has manufactured innovative Light Emitting Diodes for 40 years. Kingbright offers the most comprehensive LED product portfolio in the industry, including: SMD LEDs, Through-Hole LEDs, SMD/ Through-Hole Displays, Circuit Board Indicators and High Brightness LEDs. Kingbright also offers fully customized LED solutions to enhance customer designs with many options in LED packaging and colors.

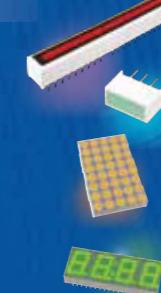
Kingbright's core mission is to achieve innovation through investment in research and development that creates the highest efficiency LEDs in compliance with ROHS and REACH directives. Kingbright is TS16949, ISO9001, and ISO14001 certified.

SMD LED



- Top-Emitting PLCC SMD LED
- Top-Emitting Chip SMD LED
- Right Angle SMD LED
- Multi-Color SMD LED
- Subminiature SMD LED
- Reverse Mount SMD LED
- SOT-23 SMD LED

THROUGH-HOLE DISPLAY



- Single Digit 7-Segment Through-Hole Display
- Dual Digit 7-Segment Through-Hole Display
- Three Digit 7-Segment Through-Hole Display
- Four Digit 7-Segment Through-Hole Display
- Alphanumeric Through-Hole Display
- Dot Matrix
- Bar Graph Array
- Light Bar

THROUGH-HOLE LED



- Round LED
- Oval LED
- Rectangular LED
- Cylindrical LED
- Multi-Color LED
- Resistor LED
- Blinking LED
- Low Current LED

CIRCUIT BOARD INDICATOR (CBI)



- Single-Level CBI
- Bi-Level CBI
- Tri-Level CBI
- Quad-Level CBI
- SMD CBI
- Panel Mount CBI

SMD DISPLAY



- 7-Segment SMD Display
- Alphanumeric SMD Display

INFRARED & PHOTOTRANSISTOR



- Infrared Emitting Diode
- Phototransistor



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 225 BREA CANYON ROAD, CITY OF INDUSTRY, CA 91789





分子尼奧科技股份有限公司

Quantum NIL Corporation



Quantum NIL Corporation

分子尼奧科技股份有限公司

公司簡介

分子尼奧科技 (Quantum NIL) 團隊開發出領先世界的奈米壓印微影製程技術 (NIL)，並成功建置用於量產的 NIL 生產線。自 2007 年以來，我們成功地將奈米壓印製程技術應用於高產量的 LED 晶圓、高硬度的藍寶石基板與易碎的磷化銦雷射晶圓上。透過公司團隊開發出獨特的複合式奈米壓印製程，我們更將奈米壓印技術整合到多個產業的標準量產製程中，並提供各種內置奈米結構的晶圓產品。基於十餘年奈米壓印製程技術的經驗，我們已能夠在各式的晶圓材料上，製造出高密度客製化的精密微細結構，並持續努力提升我們的複合式奈米壓印技術，進而達到未來在量子光電領域多元化的需求。

主要產品/服務

- 奈米等級代工製造服務
- DFB/VCSEL 晶晶片光柵製造
 - > 奈米壓印 & 黃光製程
 - > 化合物半導體蝕刻
 - > 對位標記製造
- 矽射光罩元件 & 超透鏡
 - > 光學設計模擬
 - > 奈米壓印製程
 - > 石英/玻璃基材圖案化蝕刻
- 光子晶體製造
 - > 光子晶體 & 準光子晶體設計模擬
 - > 奈米壓印 & 黃光製程
 - > 化合物半導體蝕刻
- 混合式奈米結構客製化製造
 - > 顯示器
 - > μLED & QD LED
 - > 生物檢測試劑
 - > 仿生晶片
 - > 石英/玻璃基材圖案化蝕刻

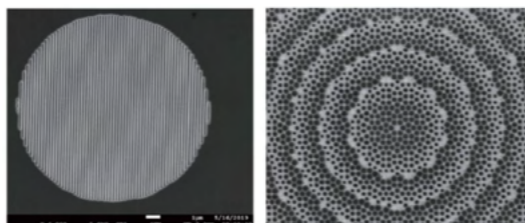
亮點介紹

公司核心價值
複合式奈米壓印微影製程技術擁有廣泛的應用面

- 數據通訊及電信網路
- 感測光學應用
- 量子光學與計算
- 生物晶片

聯絡資訊

- 公司官網：www.qtnil.com
- 聯絡人姓名 / 職稱：林仲相 / 執行長
- 地址：新竹科學園區苗栗竹南鎮科中路 11 號 3F
- Email：service@qtnil.com
- 電話：037-584086
- 傳真：037-584225



Company Profile

Our team develops world leading process technology in Nanoimprint lithography (NIL) for production consideration. Since 2007, we successfully implemented NIL process onto high volume LED wafers, hard sapphire substrates and fragile InP laser wafers for production.

With a unique hybrid process flow development, our team has integrated NIL process into several industry standard processes to deliver the products with nano-structure inside. With over a decade of experience in NIL, we are capable of manufacturing highly customized fine structures on different materials and continue to elaborate our NIL-hybrid technique to approach the quantum field application.

Main Product/ Service

Nano-Fabrication-foundry Service

- Gratings fabrication for DFB/VCSEL epitaxy wafer
 - > NIL & photo-litho process
 - > III-V material etch
 - > alignment mark fabrication
- Diffractive Optical Element (DOE) and Metalens
 - > optical design simulation
 - > NIL process
 - > glass/quartz material etch
- Photonic crystal fabrication
 - > photonic crystal & photonic quasi-crystal design simulation
- > NIL & photo-litho process
- > III-V material etch
- Customized nano-textured hybrid fabrication
 - > display
 - > μLED & QD LED
 - > bio-sensing/detection template
 - > biomimetic surface
- Other Service: customized stage

Identity introduction

Our core value

Hybrid-Nanoimprint lithography (NIL) applications

1. Datacom/Telecom
2. Sensing Optics
3. Quantum Computing
4. Bio-structure/template

Contacts

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- Email: service@qtnil.com
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台北東麗國際股份有限公司

TORAY INTERNATIONAL TAIPEI INC.



TORAY INTERNATIONAL TAIPEI INC.

台北東麗國際股份有限公司

公司簡介

- 總公司名稱：東麗株式會社 (Toray Industries, Inc.) • 總公司設立時間：1926年1月
- 總公司社長：大矢光夫 (Mitsuo Ohya) • 總公司實收資本額 (截至2025年3月31日)：1,478億7,300萬日圓
- 總公司地址：日本東京都中央區日本橋室町2丁目1番1号 日本橋三井塔 103-8666
- 關係企業數 (截至2025年3月31日)：日本113家、海外195家、合計308家
- 員工數 (截至2025年3月31日)：東麗7,010人、合計47,914人 (合併日本子公司：10,452人、合併海外子公司：30,452人)
- 總營收 (截至2025年3月31日)：2兆5,633億日圓 • 總核心營業收入 (截至2025年3月31日)：1,430億日圓

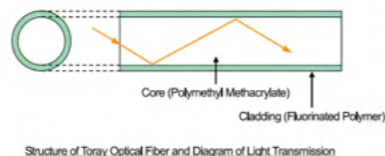
主要產品/服務

- 纖維與紡織品：尼龍、聚酯、丙烯酸纖維等的長纖維紗、短纖維、紡紗、織物及針織品；不織布；具有麂皮質感的超微纖維不織布；服裝產品。
- 機能化學品：尼龍、ABS、PBT、PPS等樹脂及成型品；聚烯烴發泡體；PET、PE、PP等薄膜及加工薄膜產品；合成纖維及其他塑膠原料；精細化學品；電子材料、印刷材料。
- 碳纖維複合材料：碳纖維、碳纖維複合材料及其成型品。
- 環境與工程：水處理膜及相關設備；綜合工程；公寓大樓；產業設備及機械；住宅、建築及土木工程用材料。
- 生命科學：藥品；醫療器械等。
- 其他：分析、物理評價、研究等服務。

亮點介紹

東麗塑膠光纖：**RAYTEK**

東麗的聚合物塑膠光纖是基於其作為全球合成纖維和塑膠產品領導廠商之聚合物與纖維製造經驗開發而成的。



聯絡資訊

- 公司官網：<https://www.toray.com.tw>
- 聯絡人姓名 / 職稱：郭志明 / 資深副理
- 地址：台北市松山區長春路451號6樓
- Email：akira.kuo.d6@mail.toray
- 電話：+886-2-2716-5000 #210
- 傳真：+886-2-2716-5050

Company Profile

- **Corporate Name:** Toray Industries, Inc. • **Established:** January 1926
- **President:** Mitsuo Ohya • **Paid-in Capital**(As of March 31, 2025): 147,873 million yen
- **Head Office:** Nihonbashi Mitsui Tower, 1-1, Nihonbashi-Muromachi 2-chome, Chuo-ku, Tokyo 103-8666, Japan
- **Number of Subsidiaries/Affiliates:** (As of March 31, 2025) Japan:113, Overseas:195, Total :308
- **Number of Employees:** (As of March 31, 2025) Toray:7,010 Total :47,914
Consolidated Japanese subsidiaries:10,452 Consolidated overseas subsidiaries:30,452
- **Revenue**(As of March 31, 2025) : 2,563.3 billion yen • **Core Operating Income**(As of March 31, 2025) : 143 billion yen

Main Product/ Service

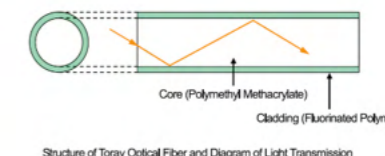
Manufacturing, processing and sales of the following products, among others:

- **Fibers and Textiles:**
Filament yarns, staple fibers, spun yarns, woven and knitted fabrics of nylon, polyester, acrylic and others; non-woven fabrics; ultra-microfiber non-woven fabric with suede texture; apparel products.
- **Performance Chemicals:**
Nylon, ABS, PBT, PPS and other resins and molded products; polyolefin foam; polyester, polyethylene, polypropylene and other films and processed film products; raw materials for synthetic fibers and other plastics; fine chemicals; electronic and information materials and graphic materials.
- **Carbon Fiber Composite Materials:** Carbon fibers, carbon fiber composite materials and their molded products.
- **Environment and Engineering:**
Water treatment membranes and related equipment; comprehensive engineering; condominiums; industrial equipment and machinery; materials for housing, building and civil engineering applications.
- **Life Science:** Pharmaceuticals; medical devices, etc.
- **Others:** Analysis, physical evaluation, research, and other services.

Featured Product

Toray Plastic Optical Fiber：**RAYTEK**

Toray polymer optical fibers have been developed based on its experience in polymer and fiber manufacturing as a leading producer of synthetic fibers and plastic products in the world.



Contacts

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- TEL : +886-2-2716-5000 #210
- FAX : +886-2-2716-5050



公司簡介

TRIOPTICS Taiwan(台灣凱瑞光學)為業納集團(Jenoptik Group)的一員,是提供世界級光學量測與自動化製造解決方案的領導供應商。我們將據點戰略性地設於台灣高科技生態圈的核心,完美結合了德國的卓越工程技術與在地的專業知識。我們透過高精密度測系統與全方位的在地服務,全力支援半導體、消費性電子產品及車用光學領域的業界領導者。

TRIOPTICS GmbH 總部位於德國漢堡附近的韋德爾(Wedel),在用於光學元件開發、生產及品質管控的光學量測與製造系統領域中,是全球的領導品牌。TRIOPTICS Taiwan 成立於2013年,是由德國TRIOPTICS 與台灣宏惠光電(Taiwan Unice EO Services)共同創立的合資企業。

主要產品/服務



亮點介紹

針對超穎透鏡、微透鏡陣列與繞射光學元件的影像品質測試解決方案



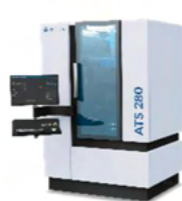
ImageMaster® PRO 10 Wafer

晶圓級光學元件量產專用 AR 波導測試解決方案



ImageMaster® PRO AR Reflection

針對已裝配鏡片與鏡頭組,提供高精度的定心、調校與加工製程



ATS

聯絡資訊

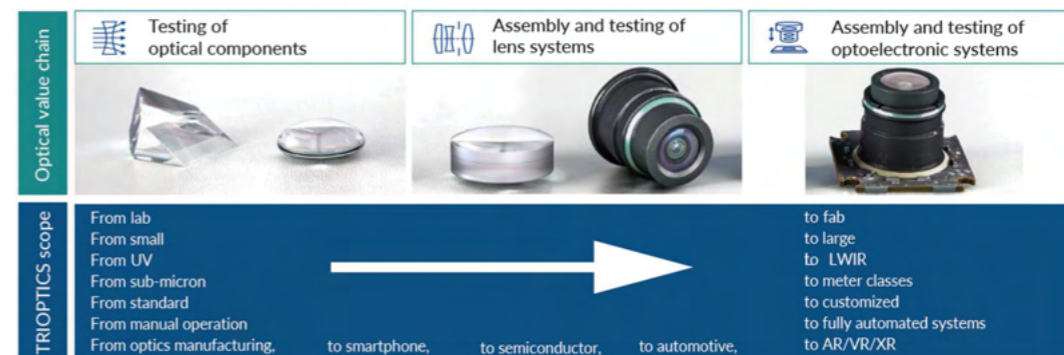
- 公司官網: <https://www.trioptics.com.tw>
- 姓名 / 職稱: 沈彥傑 / 業務協理
- 地址: 桃園市中壢區安東路 5 號 4 樓-2
- Email: sales.tw@trioptics.com
- 電話: (03)4620405
- 傳真: (03)4623909

Company Profile

TRIOPTICS Taiwan, a member of the Jenoptik Group, is a leading provider of world-class optical metrology and automated manufacturing solutions. Strategically located in the heart of Taiwan's high-tech ecosystem, we bridge German engineering excellence with local technical expertise. We support industry leaders in semiconductors, consumer electronics, and automotive optics with high-precision measurement systems and comprehensive local service.

TRIOPTICS GmbH – with headquarters in Wedel, near Hamburg/Germany – is a global leader in optical measurement and manufacturing systems for the development, production, and quality control of optical components. TRIOPTICS Taiwan was founded in 2013 as a joint venture between TRIOPTICS Germany and Taiwan Unice EO Services.

Main Product/ Service



Identity introduction

Image quality testing solution for meta lens, micro lens array, and diffractive optics



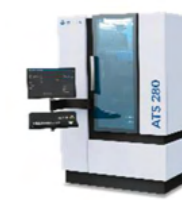
ImageMaster® PRO 10 Wafer

AR waveguide testing solution for wafer level optics in mass production



ImageMaster® PRO AR Reflection

High-precision centering, alignment and machining of mounted lenses and lens groups



ATS

Contacts

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LIGITEK 立碁電子工業股份有限公司

Ligitek Electronics Co., Ltd.

LIGITEK Ligitek Electronics Co., Ltd.

立碁電子工業股份有限公司

公司簡介

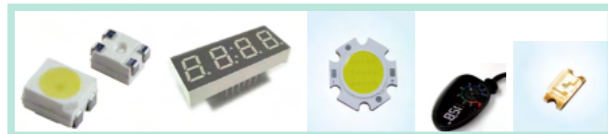
立碁電子集團是發源於以 LED 光電半導體專業生產製造為主體的營運企業，自 1989 年起正式成立，長期以來以穩健的作風，雄厚的研發實力發展綠能相關科技，為國際客戶帶來最優質、最全面的光電節能整合服務。



主要產品

LED 與 LASER 封裝事業

- 產品與應用：電腦設備及其他資訊與網通商相關 LED 元件及模組需求、安控產業使用紅外 LED 元件與模組、固化設備業使用紫外線 LED 元件與模組、VCSEL LASER 元件與模組設計、電視背光模組、車用儀表、LED 車燈、手機背光板、全彩 LED 資訊看板、月台燈示燈、交通號誌及指示燈，領域包含航空、通訊、交通運輸、汽車電子、LED 顯示廣告屏、商業及民用照明、城市建築亮化工程（廣告裝飾與各種燈飾應用）。



LED 照明事業

- 產品與應用：LED MR16、LED AR111、LED T8 及 T9 燈管、LED 嵌燈、T-Bar、LED 路燈、LED 天井燈、LED 投射燈、光引擎及光源智慧型控制模組。



大眾交通及捷運系統應用

- 產品與應用：LED 月台警示燈、捷運、鐵路、車廂、隧道、公路等交通相關應用燈具。



汽車、機車 LED 模組應用

- 產品與應用：機車儀錶板 LED 模組應用設計客製化生產、汽車相關 LED 照明產品設計、腳踏車前、後 LED 燈具模組合作開發。



影像照明紅外線模組產品與代工

- 產品與應用：監視器用紅外線照明模組、影像辨識 LED 或 LASER 照明模組、訊號偵測用紅外線模組。



紫外線模組產品

- 產品與應用：膠材固化設備、醫療殺菌設備、殺菌設備業。



太陽能事業

- 產品與應用：高功率 Solar Module 太陽能電池組件與太陽能電板。
- 在台灣安裝工程實績：台灣電力公司、台灣中油公司、中華郵政公司、氣象局、消防局、國家風景區、農委會茶業改良場台東分場、嘉義大學、台北科技大學...等太陽能系統。



Company Profile

Ligitek Electronics Group is the operating company with the mainstay originated in the LED optoelectronic semiconductor professional manufacturing. Established since 1989, for a long time with a prudent style, strong research and development capabilities, Ligitek Electronics

Group develops green energy-related technology to bring the highest-quality, most comprehensive photovoltaic energy saving integration services to international customers.



Main Product/ Service

LED and LASER packaging business

Product and application: LED components and modules needs related to computer equipment and other information and net connection vendors, infrared LED components and modules used by security control industry, curing equipment industry used UV LED components and modules, VCSEL LASER components and modules design, TV backlight module, automotive instrumentation, LED vehicle lights, mobile phone backlight plate, full-color LED billboard, the platform warning lights, traffic signals and indication lights. The field contains the aviation, telecommunications, transportation, automotive electronics, LED display screen, commercial and civil lighting, urban construction illumination works (advertising decoration and various lighting applications).

LED lighting business

Products and applications: LED MR16, LED AR111, LED T8 and T9 lamp, LED embedded light, T-Bar, LED street light, LED patio light, LED spot light, light engine and light source intelligent control module.

Mass transit and MRT system applications

Products and applications: Traffic application related lighting like LED platform warning light, mass rapid transit, railway, cars, tunnels, highways and others.

Automobile, motorcycle LED module applications

Products and Applications: Motorcycle dashboard LED module application design customized production, automotive LED lighting product development, bike front, rear LED lamps module development cooperation.

Imaging lighting infrared module and OEM

Products and Applications: Monitor infrared lighting module, image recognition LED or LASER lighting module, infrared signal detection module.

UV module

Products and applications: plastic curing equipment industry, exposure and development equipment, sterilization equipment industry.

Photovoltaic Solar energy business

Obtained the United States California Energy Bureau certified as qualified solar module suppliers.

Product and application: High power solar module, solar cell components and solar panels. Installation works performance in Taiwan: Taiwan Power Company, CPC Corporation, Taiwan, Chunghwa Post Co., Ltd., Weather Bureau, Fire Department, National Scenic Area, the Council of Agriculture Tea Research and Extension Station, Taitung Station, Chiayi University, Taipei University of Technology ... and other solar systems.

聯絡資訊

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先發電光股份有限公司
best Epitaxy Manufacturing Company Ltd

先發電光股份有限公司

best Epitaxy Manufacturing Co. Ltd.



先發電光股份有限公司
best Epitaxy Manufacturing Company Ltd

best Epitaxy Manufacturing Co. Ltd.

先發電光股份有限公司

公司簡介

先發電光(best Epitaxy Manufacturing Co. Ltd.) 成立於2017年11月，廠房設於竹南科學園區內，主要生產4"及6"磊晶片。為因應矽光子的市場需求，先發電光已於2024年引進高階(矽)半導體與通訊人才，於2025年完成增資。在新資金、創新技術、卓越管理的投入下，除了原有的VCSEL, InP 磊晶片外，先發電光將提供Micro LED 光源，為國內唯一擁有三種高速通訊光源之廠家，並將提供符合業界矽平台標準的矽光整合方案。先發電光新推出的創新矽光子整體方案吸引國際大廠的注意，並在國際大展陸續得到迴響。

主要產品/服務

我們設計並製造砷化鎵，磷化銦，氮化鎵的高速及高功率 VCSEL以及 EEL、DFB 雷射磊晶片，幫助客戶加速在 AI 晶片、光通訊、資料中心、自動駕駛汽車與終端應用之開發。

先發電光除提供高品質的VCSEL, InP, Micro LED 等磊晶產品外，新的多通道低功率 CPO 解決方案以符合未來低功耗的高速通訊。

亮點介紹

我們公司團隊累積了大量各類產品應用的磊晶結構資料庫，並擁有自己的模擬系統，可以協助客戶縮短研發時間降低生產成本，及開發不同應用需求的磊晶結構。磊晶獨立檢測系統可以完整、快速地偵測不同結構的磊晶片，確保品質和各項參數滿足客戶的需求。每批生產後立即進行測試，即時監控，及時調整製程參數，提高產量和質量，降低等待期間的生產風險，並提高機器利用率。

我們的技術包括自己的磊晶結構設計以及自己的檢測系統，公司擁有不同材料體系和各種元件結構的開發經驗，可以持續向顧客提供新市場產品所需磊晶片技術開發。

聯絡資訊

- 公司官網：www.best-epitaxy.com
- 聯絡人姓名 / 職稱：陳毓澤
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- 傳真：+886-37-580981

Company Profile

bEST Epitaxy Manufacturing Co. Ltd. was established in November 2017 with a factory located in Zhunan Science Park, mainly producing 4" and 6" chips. In response to the market demand for silicon photonics, Pioneer Photovoltaics has introduced high-end (silicon) semiconductor and communication talents in 2024 and completed a capital increase in 2025.

With the investment of new funds, innovative technology, and excellent management, in addition to the original VCSEL and InP Lei chips, Pioneer Photovoltaic will provide Micro LED light sources, making it the only manufacturer in China with three high-speed communication light sources, and will provide silicon optical integration solutions that meet the industry's silicon platform standards. The innovative silicon photonics overall solution launched by First Power Photonics has attracted the attention of international manufacturers and has been echoed in international exhibitions.

Main Product/ Service

We are a professional supplier of high-speed VCSEL and high-power VCSEL. and is committed to developing and providing VCSEL · Eel · DFB laser upband wafers for AI chips and optical communication. We aim to become a key supplier in the supply chain of epi-wafer-related industries such as AI chips, optical communications, data centers, and automotive sensing applications

Identity introduction

Our company team has accumulated a large number of epitaxial structure databases for various product applications, and has its own simulation system, which can help customers shorten R&D time, reduce production costs, and develop epitaxial structures for different application needs. The independent inspection system can completely and quickly detect chips with different structures to ensure that the quality and parameters meet the needs of customers. Tests are carried out immediately after each batch of production, and real-time monitoring adjusts process parameters in a timely manner, improving yield and quality, reducing production risks during waiting periods, and improving machine utilization.

Our technology includes our own epitaxial structure design and our own testing system, the company has experience in the development of different material systems and various component structures, and can continue to provide customers with the development of chip technology required for new market products.

Contacts

- Official Website：www.best-epitaxy.com
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- Email: frankchen@best-epitaxy.com
- TEL: +886-37-580980
- FAX: +886-37-580981



光鼎電子股份有限公司

PARA LIGHT ELECTRONICS CO., LTD.



PARA LIGHT ELECTRONICS CO., LTD.

光鼎電子股份有限公司

公司簡介

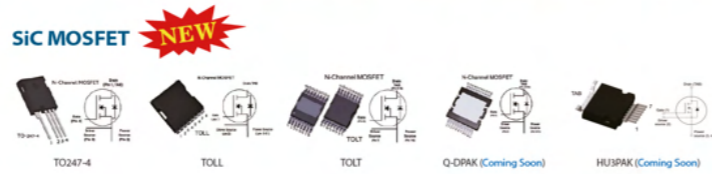
光鼎電子成立於 1987 年，以 LED 元件封裝製造起家，近年來亦將產品線推向LED光模組設計，光鼎的專業光學實驗室與設計中心，在客戶的設計階段，提供客戶專業的光學模擬實驗報告，協助客戶提升產品設計的效率與效果，經過幾年的努力，光鼎已成為數家國際大廠的關鍵策略夥伴。

2022 年開始光鼎積極以其核心能力在功率半導體領域拓展新事業，運用其標準產品封裝測試與參數驗證等核心專業能力增加 IGBT 封裝產品線，積極投入功率半導體的生產製，光鼎電子39年來不斷的技术精進與創新，將繼續本著【客戶優先·品質·創新】的精神，以客戶需求為出發，提供更高品質的服務與產品價值。

主要產品/服務



直流快充: 電動車充/充電樁
儲能系統: UPS 斷電系統
DC/DC升壓、DC/AC, AC/D, 電池充放電、併電網
綠色能源: UPS儲能
家電-變頻器
工業伺服馬達驅動



● 第七代IGBT 元件-專為工業卓越性能而設計

Our Commitment :
始終如一的品質 可靠合作夥伴 快速的交期
有競爭力的價格

● LED 元件: 廣泛應用在各領域



手機背光

LED 顯示器

智慧家電

● 第七代IGBT 模組-工業應用最佳選擇



- ✓ 高功率密度
- ✓ 降低成本
- ✓ 穩定且高性能
- ✓ 設計容易
- ✓ 提供一般規格及客製化規格

聯絡資訊

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Company Profile

Founded in 1987, PARA LIGHT (TWSE:6226) started with LED component packaging and manufacturing. In last few years, PARA LIGHT expands the product lines to LED lighting module design.

Our professional optical lab/lighting design center provides the professional optical simulation services to customers, which help customers greatly improve the efficiency and effectiveness during the product design stage. Customer first services makes PARA LIGHT the important strategic partner with many international branding companies.

Started from 2022, PARA LIGHT dedicated to a brand new field, power semiconductor device-IGBT manufacturing. During the past 39 years, PARA LIGHT keeps improving the design ability, enhancing the production techniques and also pursuing the innovation. Adhering to the enterprise philosophy [Customer First, Quality, Innovation], PARA LIGHT will continue to provide higher quality services and products for customers' satisfaction.

Main Product/ Service

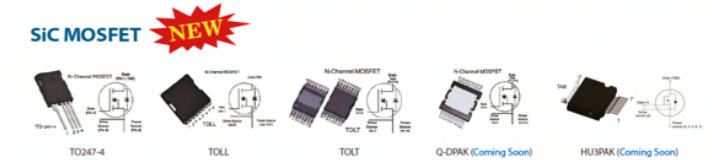


Gen 7 IGBT Module

The Optimal Choice for Industrial Applications



- ✓ Higher Power Density
- ✓ Lower Cost
- ✓ Stable & High Performance
- ✓ Easier to Design
- ✓ Popular Spec or Custom Spec Available



Gen 7 IGBT Discrete - Engineered for Industrial Excellence

Our Commitment :
Consistent Quality Faster Delivery Competitive Pricing
Your Reliable Partner in Power Solutions

LED Components: Widely used in any fields that needs illumination



Mobile Backlight

LED Information Display

Smart Appliances

Contacts

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光鋅科技股份有限公司

EPILEDs Co., Ltd.



EPILEDs Co., Ltd.

光鋅科技股份有限公司

公司簡介

光鋅科技成立於 2006 年 6 月，並獲南科管理局核准進駐台南科學工業園區並於 2017 年正式搬遷至樹谷園區，致力於藍、綠、紅、黃、不可見光、紫、深紫外光 LED 晶晶片及晶粒之研發、設計、製造與銷售。

光鋅不僅僅是全台唯一擁有全光譜製程能力的 LED 製造商(波段:250-1600nm)，且自磊晶片至晶片生產皆於台灣當地生產製造。因應全球市場的多變性，光鋅針對客戶需求除了擁有客製晶片大小的能力之外，在 UVA/B、UVC(封裝)、IR Dual and Triple Junction chip 也是 LED 首屈一指的先驅。近年更致力於 SWIR、VCSEL、MINI&MICRO LED 晶片等特殊應用市場。

公司自成立以來，堅持「突破、創新、專業、負責」之經營理念，創造客戶、合作夥伴、社會大眾、投資者與光鋅之互利互惠的雙贏局面，以維持企業之永續發展。

主要產品/服務

1. 晶粒結構:垂直/水平/覆晶
2. Dual and Triple Junction 晶粒
3. SWIR 晶粒
4. R+G+B Mini and Micro 晶粒

亮點介紹

1. 250~1600 nm (UVC/ UVB/ UVA/ Blue/ Cyan/Green/Amber/ Yellow/ Red/ IR/SWIR) 波段產品
2. R+G+B:Micro LED with COC package

聯絡資訊

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- 傳真：06-5056533

Company Profile

EPI LEDs Co., Ltd. was established on June 12th, 2006, approved by National Science Council and relocated at Tainan Tree Valley Park with new production line in 2017.

EPILEDs is an exclusively LED manufacturer with full range of wave length (from250-1600nm), and from Epi wafer to chip is made by ourselves in Taiwan. With a capability of customizing size and supporting UVA/B, UVC(package), and IR dual and triple junction chips, EPILEDs also dedicates developing SWIR, VCSEL, MINI&MICRO LED to support potential market demand.

Main Product/ Service

1. Chip Structure : Vertical / Lateral /Flip Chips
2. IR Dual and Triple Junction Chips
3. SWIR Chips
4. R+G+B Mini and Micro Chips

Featured Product

1. 250~1600 nm (UVC/ UVB/ UVA/ Blue/ Cyan/Green/Amber/ Yellow/ Red/ IR/SWIR) full spectrum products
2. R+G+B : Micro Led with COC package

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光寶科技股份有限公司

LITE-ON TECHNOLOGY CORPORATION



LITE-ON TECHNOLOGY CORPORATION

光寶科技股份有限公司

公司簡介

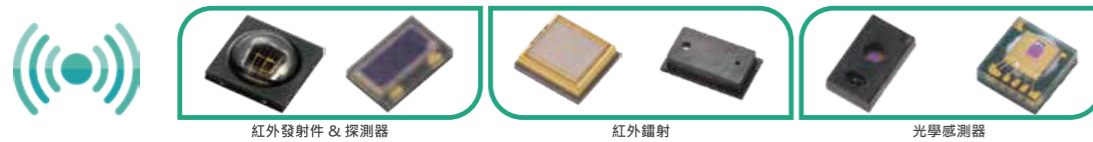
光寶科技光電事業部：全球光子技術架構者 以技術之光。點亮智慧的無限可能

作為全球光電半導體的領航者，光寶科技光電事業部致力於透過**Perceive**、**Connect**、**Empower**三大戰略支柱重新定義光在智慧時代的角色。

我們不僅是關鍵組件的供應商，更是引領未來的光子技術架構者。憑藉深厚的封裝底蘊與全光譜的技術實力，我們透過**感智 (Perceive)** 捕捉現實數據，賦予實體AI探索環境的靈魂；經由**連結 (Connect)** 實現直覺的人機互動，達成無縫的溝通體驗；並透過**賦能 (Empower)** 確保運算基礎設施與能源系統的穩定與安全。

主要產品/服務

1. 感智：捕捉現實數據，賦予實體AI探索環境的靈魂

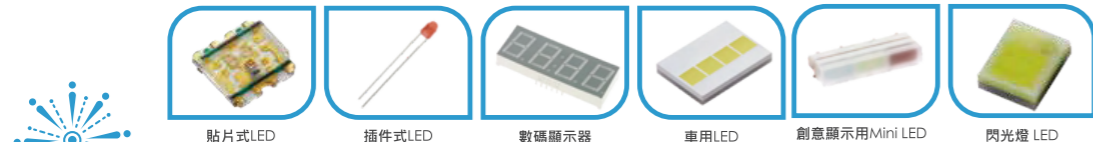


紅外發射件 & 探測器

紅外鐳射

光學感測器

2. 連結：實現直覺的人機互動，達成無縫的溝通體驗



貼片式LED

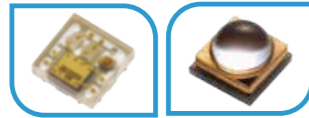
插件式LED

數碼顯示器

車用LED

創意顯示用Mini LED

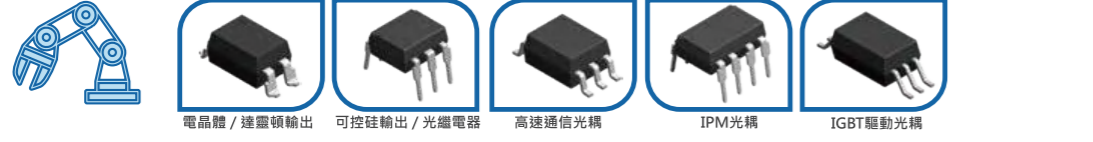
閃光燈LED



可編程智慧型RGB LED (內建IC)

紫外線LED

3. 賦能：確保運算基礎設施與能源系統的穩定與安全



電晶體 / 達靈頓輸出

可控矽輸出 / 光繼電器

高速通信光耦

IPM光耦

IGBT驅動光耦

聯絡資訊

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Company Profile

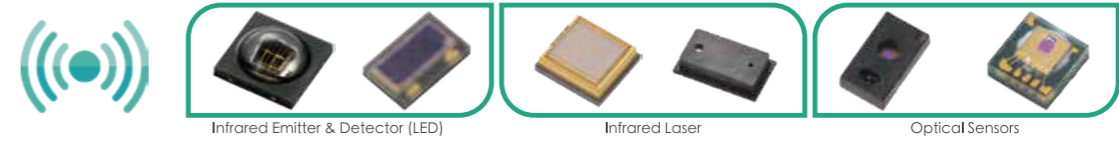
LITEON OPS: A Global Photonics Architect Brightening the Possibilities of Intelligence

As a pioneer in the global optoelectronics industry, **LITEON OPS** is dedicated to redefining the role of light in the era of intelligent through the three strategic pillars of **Perceive, Connect, and Empower**.

We are more than just a component supplier; we are a **Global Photonics Architect** leading the way forward. Leveraging our deep Packaging expertise and full-spectrum technology, we grant Physical AI the soul to explore its environment through **Perceive**; enable intuitive interaction and frictionless communication through **Connect**; and ensure the resilience and safety of computing infrastructure and energy systems through **Empower**.

Main Product/ Service

1. Perceive: Granting the Soul of Physical AI to Explore its Environment

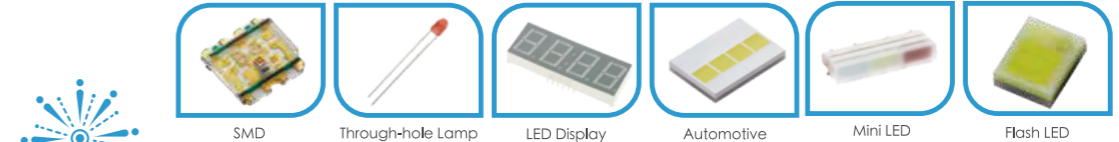


Infrared Emitter & Detector (LED)

Infrared Laser

Optical Sensors

2. Connect: Enabling Intuitive Interaction and Seamless Communication



SMD

Through-hole Lamp

LED Display

Automotive

Mini LED

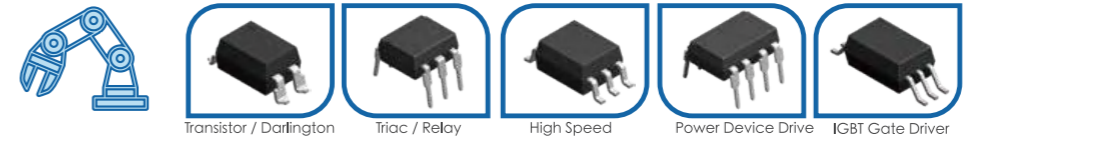
Flash LED



IC Embedded LED

UV LED

3. Empower: Ensuring Resilience and Safety for the Future Infrastructure



Transistor / Darlington

Triac / Relay

High Speed

Power Device Drive

IGBT Gate Driver

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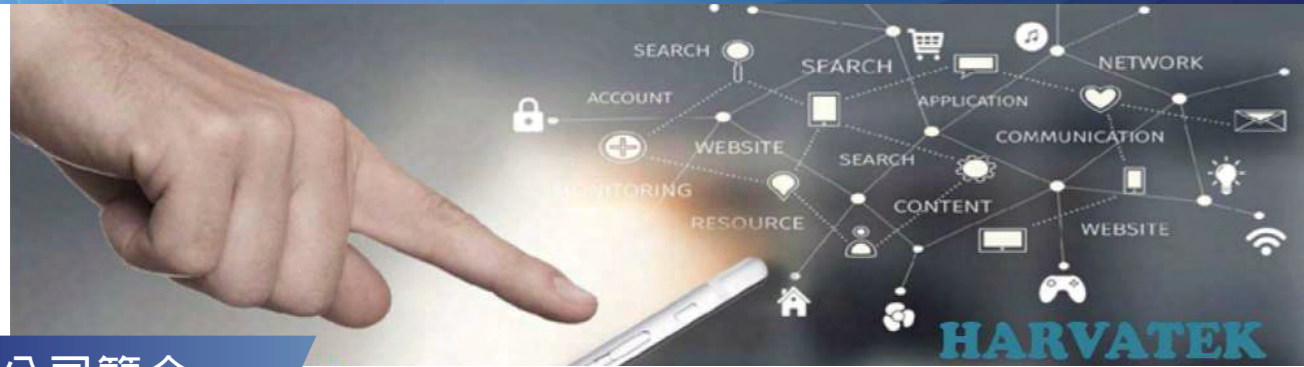


HARVATEK 宏齊科技股份有限公司

HARVATEK CORPORATION

HARVATEK HARVATEK CORPORATION

宏齊科技股份有限公司



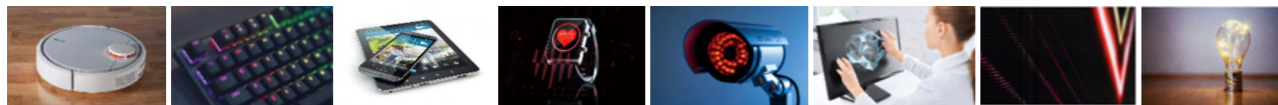
公司簡介

本公司創立於 1995 年，主要研究開發二極體封裝設計、製造、測試及產品進出口貿易業務，屬於 LED 下游封裝產業，在產業供應鏈中是關鍵性的策略夥伴，因應市場環境需求，追求企業永續經營。未來本公司計劃開發之新商品及服務仍以 SMD LED 之封裝技術為主軸，以現有產品之衍生品、改良品、甚或整合型產品為主，並以「成為全球 SMD LED 之技術領導廠商」及「成為“光”概念公司」自我期許。



亮點介紹

以通訊工業、汽車工業、彩色顯示工業為研發主軸，並以自有技術為基礎，發展超高亮度、高功率之 LED 產品。



- 1. 家電 (掃地機器人 / 烘手機)** 紅外線發射/接收器應用在多種智慧家電的感應上，透過紅外線感應，能讓家電更具智慧、更人性化。
- 2. 電競週邊 (電競鍵盤)** 電競鍵盤全面使用 IR/PT 感應的光軸鍵盤，按鍵行程短、壽命長。
- 3. 行動裝置 (手機 / 平板)** 紅外線距離感應、相機鏡頭的紅外線/雷射對焦等，為行動裝置帶來更準確、更高效的能力。
- 4. 穿戴式 (智慧手錶 / 手環)** 穿戴式的健康管控裝置，利用不同波段的光源搭配生物感測晶片，能每日監控健康狀況，提醒自己該注意或改善哪方面的健康。
- 5. 安防監控** 監控系統常用紅外光當作輔助照明，搭配光感 IC 來控制調整紅外光的啟用，達到省電節能的功效。
- 6. 光感應觸控螢幕** 利用成對 IR/PT 感應定位而達到觸控。光感應觸控螢幕可掛於對應尺寸的螢幕上，達到螢幕觸控效果。
- 7. 顯屏應用** LED 以微小、陣列化及高亮等特性，應用於各種不同場所之顯示面板 (戶外、商務表演、車載應用等)，為生活帶來全新的感官體驗。
- 8. 照明** 現今的照明形式已有很多種，以不同需求客製化色溫、亮度等規格，並以低耗電高效能應用於各類室內及戶外照明，除明亮之外，還讓生活中多了各種不同種視覺感受。

聯絡資訊

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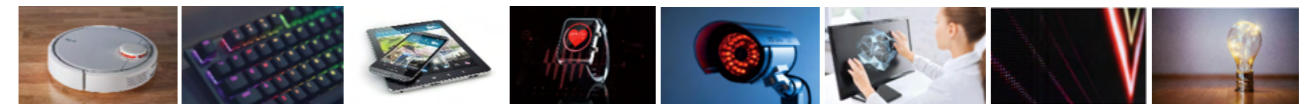
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Company Profile

Harvatek Corporation was founded in 1995 in Hsinchu, Taiwan. It became a publicly traded company on the Taiwanese Stock Exchange in 2003. Today, it is a leading manufacturer of semiconductor chips and LEDs with a wide spectrum of applications. The company designs, manufactures, tests, and exports these products to domestic and international OEM manufacturers, trade retailers, and design houses. With the highest quality products, unparalleled customer service, and perpetual emphasis on innovation, Harvatek has become one of the world's most preferred LED suppliers.



Main Product/ Service



- 1. Household Appliances (cleaning robots / hand-dryers)**
Infrared emitters and receivers have multiple applications for smart home appliances. Through infrared sensing, household appliances can become smarter and make our lives simpler.
- 2. Gaming Accessories (Gaming Keyboards)**
To enable gamers to press keys faster, gaming keyboards uses IR/PT optical switches. Optical switch keyboards have short actuation time and long lives, a recent trend for keyboards.
- 3. Mobile Devices (Mobile phones / tablets)**
The functions and performance of mobile devices continue to improve. Infrared sensing products are widely used in applications such as proximity sensing and infrared/laser focusing of camera lenses to bring precision and efficient capabilities to mobile devices.
- 4. Wearable (smart watches / wristbands)**
Busy working, people often neglect their health. Wearable health-control devices use light sources of different wavelengths with bio-sensing IC to monitor daily health status and alert people to pay attention or boost certain aspects of health.
- 5. Security Measures**
The security systems often save energy through using infrared light as additional lighting. Light-sensing IC are used to control the usage of infrared light.
- 6. Optical Touchscreen**
Touchscreen can be achieved through utilizing pairs of IR/PT positioning sensors. Optical touchscreens can be hung on top of screens that have corresponding sizes to generate the effect of touchscreens.
- 7. Display Application**
LED is applied in display panel on different occasions (outdoors, business show, advertisement) due to its small, arrayed and high brightness and brings a brand new sense experience for life.
- 8. Illumination**
There are many varieties of the nowadays lighting with different customized color temperature and brightness. Also, many lighting products of low power consumption and high efficiency are applied in indoors and outdoors lighting; besides brightness, they create different visual experience in life.

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佰鴻工業股份有限公司

BRIGHT LED ELECTRONICS CORP



BRIGHT LED ELECTRONICS CORP

佰鴻工業股份有限公司

公司簡介

佰鴻工業股份有限公司由董事長廖宗仁先生創立於1981年7月。在董事長前瞻性的決策及全體同仁的辛勤耕耘下，公司的營運規模逐年成長擴大，客戶群遍及全球各地，在台灣、中國大陸、韓國、東南亞及美洲、歐洲等地都擁有眾多的長期合作客戶，產品被廣泛應用於 3C 產業、工業運用、照明市場、車用市場、航太、醫療、通訊等多個領域。

佰鴻生產基地最早建於台灣新北市工業區，有鑒於大陸廣大市場需求，1990年在香港成立萬輝企業，作為統籌兩岸三地的轉運基地。同年轉投資中國大陸興建東莞高埗廠，並且於2011年轉型升級為東莞佰鴻電子有限公司。該廠現有土地面積 45,000 坪，廠房面積 54,000 坪，員工數千餘人。

主要產品

元件類：發光二極體 LED、Lamp、SMD、Chip、Infrared紅外線模組、PLCC、Multi-digit display、PCBA、Motor assembly、sensor assembly、LED light bar assembly、UV LED、ALS sensor、馬達、光感測器、LED 支架、PCB、藍寶石

照明類：LED 冷凍/冷藏櫃燈條、LED 燈管、LED 路燈、LED 景觀燈、LED 天井燈、LED 投光燈、LED 隧道燈、LED 燈泡、LED 筒燈、COB LED 模組、LED 植物燈、LED 車燈...

產品特色

佰鴻運用集團內公司做上下游材料整合，量產最具經濟規模的 LED 產品，並取得相關 UL、CE、CNS、TS16949 及 AS9100 等認證，期望提供被消費者接受之高品質中低價位產品。

聯絡資訊

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Company Profile

BRIGHT LED ELECTRONICS CORP, aka BRTLED, was established by Mr. Sandy Liaw in July, 1981. Under Mr. Liaw's prescient leadership and by all employees' effort, the company has grown steadily and continuously over the past few decades. Nowadays, we have built up long-term relationships with customers all over the world including Taiwan, China, Korea, Southeast Asia, America and Europe. We collaborate and maintain these long-term partnerships, in the meanwhile, continue to seek out more possibilities and opportunities for improvement and perfection.

Our products are popularly adapted in various fields including 3C, industry-wide, communication, lighting market, automotive market, aerospace, medical industry and so on.

BRTLED's first production base was in the industry park of New Taipei City, Taiwan. By taking China's market demands and incentives into account, BRTLED established Mainbright in Hong Kong in 1990 as the transfer point between China and Taiwan. In the same year, Mainbright also reinvested and set up a factory in Dongguan, China. In 2011, the Dongguan factory transformed to Dongguan Bright LED Electronics Corp. under BRTLED group. Dongguan site's area of land is around 150,000 square meters and its area of facilities is around 180,000 square meters. Current total number of employees including direct and indirect is over 1500.

Main Product

LED components :

LAMP, SMD, CHIP, PLCC, INFRARED, PHOTO COUPLER, MULTI-DIGIT, UV LED, LED DISPLAY, PCBA: MOTOR ASSEMBLY, SENSOR-ASSEMBLY, LED LIGHT-BAR ASSEMBLY, LED LIGHT-BAR FOR FREEZER, ALS SENSOR, LED lead frame, PCB, Sapphire.....

LED lighting :

LED indoor lighting、LED outdoor lighting、LED street Lamp、LED landscape light、LED high bay、LED flood light、LED tunnel light、LED ground light、LED bulb、LED tube、LED down light、COB LED module、LED Plant grow light.....

Featured Product

Bright LED group utilizes its internal resources among all subsidiaries to form our own upper, middle and lower stream of supply chains and so produces various types of LED products competitively with relevant international certifications such as UL, CE, CNS, TS16949, AS9100 and etc. We expect to provide reliable LED products with high quality but at competitive prices to customers.

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Diversified Products 多元化產品



Diversified Products





長洛國際股份有限公司

CHAIN-LOGIC INTERNATIONAL CORP.



CHAIN-LOGIC INTERNATIONAL CORP.

長洛國際股份有限公司

公司簡介

長洛國際成立於1994年，為專業設備代理服務商。長洛國際總公司設立於新竹縣新埔鎮，服務據點分佈於新竹、台中、高雄，以提供客戶即時的業務和技術諮詢服務。

母公司 旺矽科技 (MPI Corporation) 產品跨越多領域產業，其中，探針卡居於業界領先地位。另外，三大類主力產品：化合物半導體及光電測試解決方案、高低溫測試系統、先進半導體測試解決方案由長洛國際專業代理。此外，長洛國際也同步代理歐、美、日、韓等製程及測試等相關設備及耗材。

長洛國際致力於協助客戶提升競爭力，在持續的挑戰中與客戶共同成長，代理的產品跨足半導體、液晶面板、LED、光通訊，光感測等高科技產業。

主要產品/服務

- 先進半導體測試解決方案
- 矽光子晶圓及封裝後量測解決方案
- 半導體測試用關鍵零組件製造及銷售
- 化合物半導體及光電元件測試解決方案、零配件銷售
- 高低溫測試系統
- 3D量測方案
- 光學顯微鏡系列產品
- C-Sync AI smart patrol 生產線智能巡檢管理系統

亮點介紹

- 旺矽化合物半導體及光電元件量產測試方案
- 旺矽先進半導體測試工程探針台 (手動/半自動/全自動)
- 旺矽高低溫測試方案：可移動式氣流溫度控制系統 (Thermal Air 產品系列)
- SiPH 矽光子晶圓、元件測試方案
- C-Sync AI smart patrol 生產線智能巡檢系統

聯絡資訊

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Company Profile

Chain Logic International Corp. (CLIC) was established in 1994 and is located in Hsinchu, Taiwan. CLIC is a subsidiary of MPI Corporation that has been publicly listed on TPEX since 2003. For more than 25 years, CLIC has been representing well-known equipment and consumable manufacturers from Europe, USA, Japan, and Korea and strives to offer excellent products and professional services for high-tech manufacturing industries such as Semiconductors, Display, LED, Optical Communications, and Optical Sensing. Our mission is to provide value as well as competitiveness to customers.

CLIC provides services that include but are not limited to Photonic device tests, IC package material, Advanced Semiconductor Test solutions, Thermal Tests, and Laser solutions. CLIC has built its maintenance and service centers in Taichung and Kaohsiung to provide fast response and localized service support. CLIC dedicates to technical innovations and commits to delivering solutions to our customers in the best possible way. With years of experience, we aim to provide tailor-made and precise turn-key test solutions to further increase the efficiency and quality of measuring tasks.

Main Product/ Service

- Advanced Semiconductor Test:
 - Designed for Silicon Photonics (SiPh) electro-optical device testing and provides true double-sided probing capabilities
 - Engineering Probe System / RF and mmW Probes from 26 to 220 GHz / Micro Positioner
- Laser System
- LED /Mini LED/ Micro LED Assembly Process:
 - Capillary/ CSP P-S-T Solution/ COB Solution/ Dispensing Product/ Molding Equipment
- III-V Compound Semiconductors:
 - Wafer / Chip Prober / Die Sorter/ AOI System/ Photonics Tester
- Optical Test:
 - Optical Product/ Thermal Air TA5000
- Thermal Test Applications:
 - Temperature Forcing Air Stream Systems / Thermal Wafer Chucks
- Other Service: customized stage

Identity introduction

- Wafer probers for III-V Compound Semiconductors mass production testing
- Engineering manual, automated, and fully-automated probe systems
- Temperature forcing air stream systems
- Silicon photonics wafer/ die level testing solution
- C-Sync AI smart patrol management system

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高明鐵企業股份有限公司

高明鐵企業股份有限公司
GMT GLOBAL INC.

GMT Global Inc.



GMT Global Inc.

高明鐵企業股份有限公司
GMT GLOBAL INC.

高明鐵企業股份有限公司

公司簡介

高明鐵企業股份有限公司 (GMT GLOBAL) 成立於1995年，從精密機械加工工藝進而發展精密運動控制、高精度光纖耦合及自動化系統整合技術，應用領域涵蓋半導體、光電、光通訊與智慧製造。公司主要提供矽光子耦合對位、晶圓與晶片光測、高精度六軸平台及精密運動控制等解決方案，具備機構、控制、演算法與量測整合之自主研發能力，並掌握關鍵設計流程與核心演算法技術。透過高精度六軸平台、位姿量測與誤差補正、治夾具端點旋轉支點座標偏移校正，以及高效率耦合對位演算等技術優勢，高明鐵可依客戶需求提供客製化且高效率的服務，協助提升對位精度、製程效率與量產良率，致力成為半導體、光通訊及精密自動化領域的可靠夥伴。

主要產品/服務

主要服務：半導體與光通訊解決方案、自動化次系統、模組、精密線性傳動元件及模具等。

主要產品

- 矽光晶圓級測試系統
- 高產能量產線全自動化解決方案
- 雷射二極體雙透鏡主動對位耦合解決方案
- 光纖陣列單元傳送端對位貼合解決方案
- 光纖陣列單元接收端對位耦合解決方案
- 光纖陣列單元傳送端對位耦合解決方案
- 六軸並聯史都華平台
- 高精度堆疊式六軸平台

亮點介紹

- **雷射二極體雙透鏡主動對位耦合解決方案**：達到±50nm的重複定位精度，實現高難度的雙鏡頭同步主動耦合。
- **高產能量產線全自動化解決方案**：整合雙FA接收端對位/耦合、自動上下料、MPO連接器自動插拔、檢測與清潔、自動點膠與UV固化，以及RSSI/ADC訊號量測，切入高速光模組高產能量產線對製程一致性與自動化效率的需求。
- **矽光晶圓級測試系統**：支援 O-O、O-E、E-O 測試架構，相容 Grating Coupler 與 Edge Coupler，可對應最高 12 吋晶圓 與 -40°C 至 100°C 溫控量測環境，並具備 ±5nm 運動對位精度，可滿足新一代 PIC (光子積體電路) 在研發驗證、製程優化與量產前測試的應用需求。
- **六軸並聯史都華平台**：高對稱並聯結構設計，具備高剛性、高動態運動性能與可由軟體定義旋轉中心等特性，可支援複雜姿態控制與精密對位任務。

聯絡資訊

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Company Profile

GMT Global Inc. (GMT), established in 1995, began with precision machining expertise and has since expanded into precision motion control, high-accuracy fiber-optic coupling/alignment, and automation system integration. Its solutions serve a wide range of applications, including semiconductors, optoelectronics, optical communications, and smart manufacturing. GMT's core offerings include silicon photonics coupling and alignment, wafer- and die-level optical testing, high-precision six-axis stages, and precision motion control solutions. With self-developed capabilities spanning mechanics, control, algorithms, and metrology, GMT has developed and mastered key design workflows and proprietary core algorithms. Leveraging strengths such as high-precision six-axis stages, position measurement and error compensation, coordinate offset calibration of fixture/tool-end rotation pivots, and high-efficiency coupling/alignment algorithms, GMT delivers customized, high-efficiency solutions tailored to customer needs. These capabilities help improve alignment accuracy, process efficiency, and mass-production yield, positioning GMT as a trusted partner in semiconductors, optical communications, and precision automation.

Main Product/ Service

Semiconductor and optical communication solutions, automation subsystems, modules, precision linear drive components and molds, etc.

Key Products:

- SiPh Wafer-Level Test System
- Fully Automation for HVM Lines solution
- Dual LD Lens Active Aligner
- Tx FAU Bonder (Passive Bonding)
- Rx FAU Aligner
- Tx FAU Aligner
- Hexapod Platform
- High-Precision Stacked 6-Axis Platform

Featured Product

Fully Automation for HVM Lines solution :

Integrates dual FA receiver-side alignment/coupling, automated loading/unloading, automatic MPO connector plug/unplug with inspection and cleaning, automated dispensing and UV curing, and RSSI/ADC signal measurement—addressing the HVM demand for process consistency and automation efficiency in high-speed optical module production lines.

Dual LD Lens Active Aligner :

Delivers ±50 nm repeatability, enabling high-difficulty synchronous active alignment and coupling of dual-lens optics.

SiPh Wafer-Level Test System :

Supports O-O, O-E, and E-O test architectures; compatible with both grating couplers and edge couplers; accommodates up to 12-inch wafers with a controlled temperature range of -40°C to 100°C; and achieves ±5 nm motion alignment accuracy—meeting next-generation PIC requirements for R&D validation, process optimization, and pre-production testing.

Hexapod Platform :

Features a highly symmetric parallel kinematic design with high stiffness, high dynamic motion performance, and a software-defined rotation center, supporting complex pose control and precision alignment tasks.

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凱勒斯科技股份有限公司

GALAXY TECHNOLOGY DEVELOPMENT CO., LTD.



GALAXY TECHNOLOGY DEVELOPMENT CO., LTD.

凱勒斯科技股份有限公司

公司簡介

凱勒斯科技股份有限公司 (Galaxy Technology Development Company) 成立於2011年，長期深耕於硬脆材料製程技術領域，致力於產業鏈整合與製程創新。經營團隊秉持「專業、責任與長期價值」的核心理念，持續深化技術能力並拓展跨產業應用，逐步建立於全球半導體與先進材料產業中的技術地位。

公司以晶圓級製程技術為核心，專注於提升製程效率、品質穩定性與整體解決能力，並透過跨材料 (Si、SiC、GaN、Ga₂O₃、Si₃N₄等) 與跨製程整合能力，成為客戶在先進製程開發與量產導入階段的重要技術夥伴。

在策略發展上，凱勒斯以「第二成長曲線」為核心，推動由傳統設備供應商轉型為模組化與平台化的製程服務提供者 (Process-as-a-Service)，強化顧客連結與供應鏈整合能力，並逐步建構具擴展性的製程平台生態系。同時，公司積極導入人工智慧 (AI) 於製程優化、數據分析與設備預測維護，並結合ESG永續理念，推動節能減碳與綠色製造，打造兼具「效率、智慧與永續」的新世代製造模式。

目前凱勒斯之客戶與技術合作夥伴遍布全球，包括臺灣、美國、德國、英國、法國、日本、韓國、新加坡、馬來西亞、越南等地，持續透過國際合作與技術整合，朝向成為全球先進材料製程平台領航者邁進。

主要產品/服務

凱勒斯科技以「設備 × 耗材 × 製程服務」為核心，提供整合式半導體製程解決方案，並發展為Process-as-a-Service (製程服務平台)，協助客戶從研發到量產全面優化

· 三大核心

一、製程設備 (Equipment)

- 全自動雷射 SiC 晶圓分片機
- 全自動研磨機 (Grinding System)
- 粗拋機 (Polishing System)
- CMP 拋光機 (CMP System)
- 鍵合設備 (Bonding Equipment)

二、製程耗材 (Consumables)

- 固態蠟 / 接著劑 (Wax / Glue)
- 砂輪 (Grinding Diamond Wheels)
- 鑽石拋光液 (Diamond Slurry)
- SiO₂ / Al₂O₃ CMP 拋光液 (CMP Slurry)
- CMP 拋光墊 (CMP Pad)
- 清洗液 (Cleaning Solution)
- 其他製程材料

三、製程服務與代工 (Process Service)

- SiC、Si、GaN、Sapphire 等材料高精度研磨與拋光
- 製程參數開發與驗證
- 少量試產至量產導入 (Turnkey Solution)

· 核心競爭優勢

1. 一站式整合: 設備 + 耗材 + 製程服務完整解決方案
2. 模組化平台: 可依材料 (SiC、GaN等) 快速調整
3. PaaS模式: 設備 + 耗材 + 服務形成長期合作
4. AI數據優化: 提升良率與製程效率

亮點介紹

在全球高科技製造邁入平台化與永續轉型的關鍵時代，凱勒斯核心戰略由傳統設備供應商，轉型為整合設備、耗材與代工服務的一站式製程解決方案提供者。凱勒斯深耕晶圓切割、研磨與拋光領域逾15年，具備完整製程技術能力與產業經驗，並透過自主設計與生產磨拋設備，建立穩定可靠的技術後勤體系。同時，亦提供全系列製程耗材，能依據客戶不同規格與應用需求進行客製化配置，確保製程效率與品質穩定。在商業模式上，凱勒斯進一步導入模組化與平台化思維，整合設備、耗材與代工服務，形成具擴展性的製程平台 (Process-as-a-Service)，協助客戶縮短開發週期、降低試錯成本，並提升整體供應鏈效率。

凱勒斯正積極導入人工智慧 (AI) 於製程優化、參數建模與設備預測維護，並結合ESG理念推動節能減碳與綠色製造，打造具備「效率 × 智慧 × 永續」的次世代製程開發體系。

聯絡資訊

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Company Profile

Galaxy Technology Development Company, founded in 2011, specializes in advanced processing technologies for hard and brittle materials, focusing on innovation and industry integration. Guided by professionalism, responsibility, and long-term value, the company has established a strong presence in the global semiconductor and advanced materials sectors.

With core expertise in wafer-level processing, Galaxy enhances efficiency, quality, and overall solution capability. Its strengths in cross-material (Si, SiC, GaN, Ga₂O₃, Si₃N₄) and process integration make it a key partner for both R&D and mass production.

The company is advancing its second growth curve by transforming into a Process-as-a-Service (PaaS) platform provider, strengthening customer engagement and building a scalable process ecosystem. By integrating AI-driven optimization, predictive maintenance, and ESG practices, Galaxy is developing a smart, efficient, and sustainable manufacturing model.

With customers and partners across Asia, Europe, and the U.S., Galaxy is moving toward becoming a global leader in advanced materials process platforms.

Main Product/ Service

Galaxy Technology Development Company delivers integrated semiconductor process solutions built on three pillars: Equipment × Consumables × Process Services, and is evolving into a Process-as-a-Service (PaaS) platform to support customers from R&D to mass production.

· Core Modules

1. Equipment

- Fully automated laser SiC wafer dicing system
- Fully automated grinding system
- Polishing system
- CMP system (Chemical Mechanical Polishing)
- Bonding equipment

2. Consumables

- Wax / Glue
- Grinding diamond wheels
- Diamond slurry
- SiO₂ / Al₂O₃ CMP slurry
- CMP pads
- Cleaning solutions
- Other process materials

3. Process Services

- High-precision grinding and polishing for SiC, Si, GaN, Sapphire
- Process parameter development and validation
- From pilot run to mass production (turnkey solution)

· Core Advantages

- One-stop solution: Integrated equipment, consumables, and services
- Modular platform: Flexible for different materials (SiC, GaN, etc.)
- PaaS model: Long-term customer engagement through integrated offerings
- AI-driven optimization: Improved yield and process efficiency

Featured Product

Amid the global shift toward platformization and sustainable transformation in high-tech manufacturing, Galaxy Technology Development Company is evolving from a traditional equipment supplier into a one-stop process solution provider integrating equipment, consumables, and contract manufacturing services.

With over 15 years of expertise in wafer dicing, grinding, and polishing, Galaxy has established strong process know-how and industry experience. Through in-house design and manufacturing of grinding and polishing equipment, the company ensures a reliable and stable technical foundation. It also offers a full range of consumables, customized to meet diverse customer specifications and applications, ensuring both efficiency and process stability.

Building on this foundation, Galaxy adopts a modular and platform-based approach, integrating equipment, consumables, and services into a scalable Process-as-a-Service (PaaS) platform. This enables customers to shorten development cycles, reduce trial-and-error costs, and improve overall supply chain efficiency.

At the same time, Galaxy is actively leveraging AI technologies for process optimization, parameter modeling, and predictive maintenance. Combined with ESG-driven initiatives in energy saving and green manufacturing, the company is developing a next-generation process ecosystem defined by efficiency, intelligence, and sustainability.

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Ennostar
富采光電

富采光電股份有限公司

Ennostar Corporation

Ennostar
富采光電

Ennostar Corporation

富采光電股份有限公司

公司簡介

富采光電為全球前五大光電方案供應商，透過母公司富采控股於台灣證交所上市(股票代號 3714)。富采光電擁有完整的LED光電半導體垂直整合供應鏈，涵蓋磊晶、晶粒、封裝、模組至整合方案，提供高效率、具競爭力的一站式服務，滿足多元應用需求。富采透過「雙價值引擎策略」，從場域增值與方案增值雙軌驅動成長。在場域增值策略上，聚焦3+1核心領域，包含車用、先進顯示、智能感測、以及涵蓋AI光通訊及專業照明的新應用領域。在方案增值策略上，透過豐厚的集團資源，建立垂直方案生態圈，成為客戶的價值鏈重要夥伴。

主要產品/服務

▶ 方案增值-富采光電垂直整合服務

LED 磊晶與晶粒

封裝元件

模組設計製造

系統 / 方案

UVC 至 eSWIR 全光譜

光源與感測封裝
設計、製造、代工

光學、機構、電子與
散熱設計

集團生態圈
整合方案服務



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Company Profile

Ennostar Corporation is a global top 5 optoelectronic solution provider. Ennostar offers a complete vertically integrated LED optoelectronic semiconductor supply chain covering epitaxy, chips, packaging, modules, and integrated solutions. Ennostar focuses on core application domains including automotive, advanced displays, smart sensing, and emerging markets. Leveraging extensive group resources, Ennostar builds a Solution Value Added ecosystem as a strategic partner in customers' value chain.

Main Product/ Service

▶ Solution Value-Added: Vertically Extend Downstream Integration

Epitaxy Wafer & Chip

Package

Module

System / Solution

From UVC to eSWIR
Full-Spectrum
Product Portfolio

Light Source and Sensor
Packaging Design, Manufacturing,
and OEM Services

Integrated Optics,
Mechanics, Electronics,
and Thermal Management

Group Ecosystem
Integrated Solution
Services



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惠特科技股份有限公司

FITTECH CO., LTD.



FITTECH CO., LTD.

惠特科技股份有限公司

公司簡介

惠特科技 (FitTech) 成立於 2004 年，為專業的研發與系統整合設備商，專注於光電半導體、半導體、矽光子 (SiPh) 及 PCB 產業製程設備開發。憑藉高性能精密機械設計、軟體自主開發、系統整合、精密量測與光學設計等核心技術，惠特提供多元製程設備解決方案，滿足次世代顯示、感測、光纖通信、AI 及電動車等應用對高精度、高效率測試的需求。

產品涵蓋 MiniLED、MicroLED、LD、PD 晶圓與晶粒測試、高功率半導體晶圓測試、雷射微細加工、雷射清潔及矽光子相關解決方案，並提供代工測試服務，協助客戶應對不同階段的開發與生產需求。惠特科技擁有堅實的研發團隊，持續創新，以卓越的整合能力與技術優勢，為客戶提供高競爭力的解決方案。

主要產品/服務



LED / MiniLED / MicroLED 測試及分選解決方案

提供完整LED/MiniLED後段測試製程相關設備，包含測試、分選機、計數機、上下模機等設備。針對MicroLED提供測試及巨量轉移相關解決方案。



雷射二極體、光二極體及半導體元件測試解決方案

提供VCSEL/EEL/PD/半導體分離式元件等晶圓/Bar條/晶粒測試設備。另有晶圓劃線、劈裂、老化等設備，提供完整解決方案。



矽光子解決方案

提供矽光子元件包含光纖陣列FAU組裝、AOI外觀檢測、矽光子元件主動/被動精光貼合等後段製程相關設備。



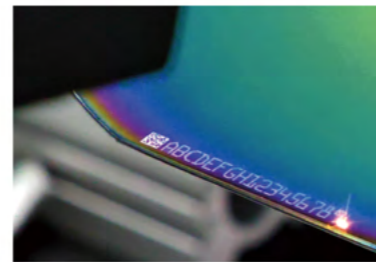
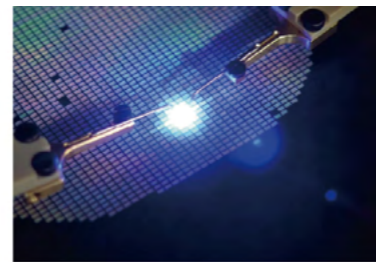
雷射微細加工解決方案

惠特成立雷射技術研發中心，致力發展應用於半導體、PCB等產業的雷射精密加工設備，提供如切割、鑽孔、劃線、刻印、清潔等應用。



LED / LD / PD 測試及分選代工服務

惠特以自有研發生產之設備建立代工測試服務廠，Class 10K的無塵室，並具備ISO 9001, ISO 14001及ANSI/ESD S20.20等國際認證。



聯絡資訊

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Company Profile

FitTech was founded in 2004 as a leading developer and system integration equipment provider, specializing in process equipment for the optoelectronics, semiconductor, silicon photonics (SiPh), and PCB industries. Leveraging core technologies such as high-performance precision mechanical design, in-house software development, system integration, precision measurement, and optical design, FitTech delivers comprehensive process equipment solutions to meet the high-precision and high-efficiency testing demands of next-generation displays, sensing, optical communication, AI, and electric vehicles.

Our product portfolio includes MiniLED, MicroLED, LD, and PD wafer and die testing, high-power semiconductor wafer testing, laser micromachining, laser cleaning, and silicon photonics (SiPh) solutions. Additionally, we provide contract testing services to support customers at various stages of development and production. With a strong R&D team and a commitment to continuous innovation, FitTech delivers cutting-edge solutions that empower customers with a competitive edge.

Main Product/ Service



LED / MiniLED / MicroLED Test & Sort solutions

FitTech provides complete back-end solutions for LED and MiniLED testing, including testers, sorters, counters, and die bonders. For MicroLED, we offer solutions for both testing and mass transfer.



LD / PD / Semiconductor Test solutions

FitTech offers complete solutions including wafer, bar, and die-level probes and testers for VCSEL, EEL, PD, and discrete semiconductor devices, as well as wafer scribing, cleaving, and burn-in systems.



Silicon Photonics Solutions

FitTech provides equipment for silicon photonic devices, including FAU (fiber array unit) assembly, AOI (automated optical inspection), and active/passive alignment and UV curing systems.



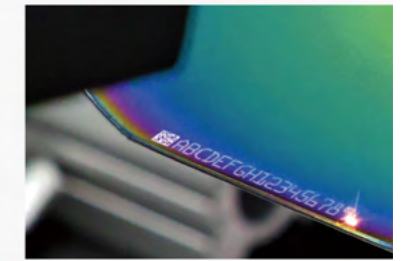
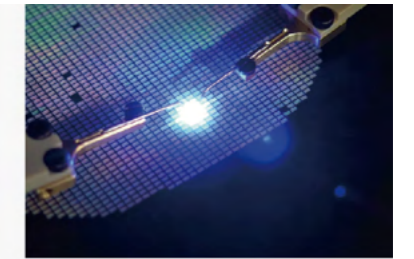
Laser Micromachining Solutions

FitTech develops precision laser systems for the semiconductor and PCB industries, covering applications such as cutting, drilling, scribing, marking, and cleaning.



LED / LD / PD Test & Sort Service

FitTech provides OEM testing service with self-developed and manufactured equipment, featuring a Class 10K cleanroom and holding international certifications such as ISO 9001, ISO 14001, and ANSI/ESD S20.20.



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華興電子工業股份有限公司

SINCE 1977

LEDTECH ELECTRONICS CORP.



ENERGYLED CORPORATION

華能光電科技股份有限公司

企業宗旨與經營理念

華興電子工業股份有限公司創立於西元 1977 年，以立足台灣、放眼世界的宏觀理念，貫徹全球化的運籌佈局，致力於專業分工以及資源整合，強化我們的核心技術與優勢能力，最重要的是發揮團隊合作精神，以追求華興公司永續經營與回饋社會的使命。四十多個年頭以來，華興秉持著「誠信」、「負責」、「精益求精」的座右銘，專業生產發光二極體指示燈與顯示器，四十年來不斷的培育人才，研發新產品，更新自動化生產設備，以滿足客戶的需求。

有關子公司華能光電

華能光電成立於西元 2007 年，為華興集團旗下的子公司，擁有業界數十年經驗之經營團隊和先進研發技術團隊組合而成的專業 LED 照明公司。我們擁有豐富的 LED 封裝及 LED 模組設計與組裝技術作後盾，故更了解如何運用 LED 的光特性去製造出符合客戶需求的產品，更致力開發節能環保，更高光效率及高光品質的光源與應用。

核心力量與競爭優勢

我們專業堅強的經營團隊成員們共累積超過 230 年以上的 LED 產業經驗，長期合作之銷售通路據點分佈全球超過 70 個國家，擁有穩定的供應鏈與策略合作夥伴，專精於 LED、電子、光學、導熱、材料、效率、結構技術之整合，具創新研發能力，提供高品質、高信賴的產品達到符合市場客戶的需求。

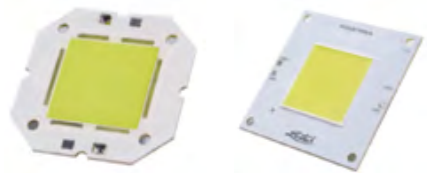
主要產品介紹

(一) LED 封裝



- LED Lamp
- SMD LED
- Based LED
- Flexible Light Strip
- LED Display
- LED Backlight
- Rigid Light Strip
- High Power LED

(二) LED 照明模組



利用 COB 照明模組 3W~200W，製成球泡燈、坎燈、泛光燈、天井燈、路燈等各式產品。

(三) LED 照明應用產品

類別	燈管類	燈具類	半導體黃光燈類	球泡類
產品	T5	坎燈	燈管 平板燈	E26 E27
	T8	泛光燈		
	T9	天井燈		
	T12	格柵燈		
	(一般/低溫)	中東燈 山型燈 感應工事燈		

產品特色與優勢

LED 與傳統產品相較之下無紫外光問題、使用壽命長、發光效率佳，符合環保需求，可確實達到節能省碳之效益。我司產品皆經過長時間信賴度測試與壽命試驗，不僅低光衰，演色性更可高達 97%，燈具設計具有有效散熱。此外，最新產品使用 COB 技術之熱電分離設計，能有效降低熱阻，提升元件壽命，減少維修，在產品亮度、色溫 BIN 區集中上更是品質的保證，能取代單點 LED 光源，光形更易設計，解決照明產品重影，降低組裝成本問題。我們透過客制化的服務，讓產品更能夠契合消費者的需求。

認證與專利

目前華興已通過 ISO14001、ROHS Compliance 環境系統認證，QS-9000、ISO-9002、ISO-9001(2000)、TS-16949 品質認證、UL 安規認證與 CE 認證，為台灣少數獲得 CNS 認證與節能標章的廠商之一，並在 2010 年得到國家級高新技術企業之榮譽，截至 2012 年 4 月已於全球取得共 224 個專利。

成功案例

華興集團深耕市場，為低溫照明的領導者，佈局橫跨全球各大洲前三大冷凍、冷藏、冰櫃、冷飲自動販賣機之製造商。至今年 4 月於全球銷售超過 25,000,000 支 LED 燈管/燈條，在低溫照明、商業空間、交通運輸、特殊照明、一般空間照明等不同領域上皆有許多成功案例，如下：

- 低溫照明：冷凍倉儲、蛋糕展櫃、超市、便利商店。
- 商業照明：百貨專櫃、化妝品展櫃、超市、量販店、工廠、便利商店、餐廳、地下街商品店。
- 交通運輸：公車、列車、地鐵。
- 特殊照明：大樓外觀裝飾、有機農場、博物館、藝廊、美術館。
- 一般照明：超市、銀行、學校、辦公室、會議廳、體育館、地下停車場。

展望未來

隨著消費者對於節能環保、永續地球的意識提升，並配合各國政府政策的提倡與法規的訂立，未來全球將走向 LED 照明的新世紀。華興集團秉持初衷，掌握元件封裝應用技術與成本優勢，專注研發 LED 產品應用，並結合市場需求，盼提供更高光品質、高性能、低成本的產品，為客戶創造更大的效益。選擇華興產品，將是你最明智的選擇！

華興子公司 華能光電 成功案例分享



低溫照明
案例：台灣全家便利商店



商業空間照明
案例：日本地下街商品店



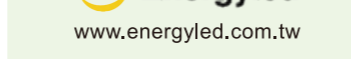
交通運輸照明
案例：義大利巴士



特殊照明
案例：臺灣國立故宮博物院



黃光燈應用
案例：無塵室照明



Company Profile

Established in 2007, Energyled Corporation, a subsidiary of a Taiwan public-listed company LEDTECH, with 46 years of LED packaging experience from LEDTECH, has dedicated in being a total LED lighting provider by supplying the LED lighting finished products based on the self-supplied LED lighting components.

We specialize in



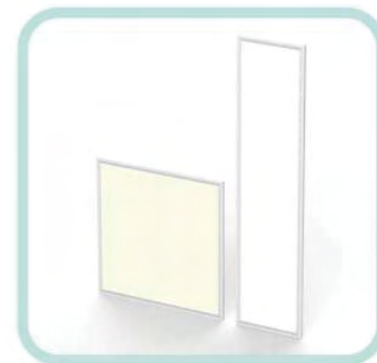
LED T8 Working Ceiling Light with Microwave Sensor



Gen VI High Bay Light



Yellow LED T8 Tube



Human Centric Lighting



Refrigerator Display Lighting

and many more...

We look forward with much interest to exploring LED lighting market with you.

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Tyntek 鼎元光電科技股份有限公司

TYNTEK CORPORATION

Tyntek TYNTEK CORPORATION

鼎元光電科技股份有限公司

公司簡介

鼎元光電科技股份有限公司為專注於提供多元光電解決方案的專業製造商，專門從事感測元件、光源元件與功率元件等光電產品的研發、生產與銷售，並提供 OEM/ODM 客製化代工服務。我們秉持「品質、創新、服務、環保」的經營理念，致力於為全球市場提供高效能、高品質的光電產品，服務範圍遍及中國、日本、韓國、歐洲及美國。

主要產品/服務

• 感測元件

1.Photo-Transistor Chip

Photo Transistor
Photo Darlington
Ambient Light Sensor (ALS)

2.Photo-Diode Chip

Photo Diode (PD)
Avalanche PD
Color PD
Ambient Light Sensor (ALS)
Micro PD
GaAs PD
InGaAs PD
InGaAs Avalanche PD

3.MEMS Chip

Pressure Sensor
Flow Sensor

• 光源元件

1.Visible LED Chip

GaP
GaAsP
AlGaAs
AlGaInP
AlGaInP (WB)

2.Infrared LED Chip

InGaAs/InP
GaAs/GaAs
AlGaAs/GaAs
AlGaAs/AlGaAs (DDH)
AlGaAs/Silicon (WB)
AlGaAs/GaAs (VCSEL)

• 功率元件

1.Power Discrete Device Chip

Photo Triac
Photovoltaic Generator (PVG)
Fast Recovery Diode (FRD)
Power MOS

2.Stabilization/ Protection Device Chip

Transient Voltage Suppressors (TVS)Zener Diode

3.Rectifier/ Passive Device Chip

Schottky Diode
Chip Resistor
Chip Capacitor

• 代工服務

1.Silicon Foundry Service

2.Compound Semiconductor Foundry Service

亮點介紹

鼎元光電已完成面射型雷射二極體 (VCSEL) 和深紫外光 (DUV) 感測元件的開發，進一步強化了我們的產品線。近年來，我們專注於光通訊、汽車、醫療和精密控制等領域的感測元件研發，並取得了顯著成果。隨著光電市場的快速成長，各類產品的應用範圍不斷擴大，為了滿足市場需求，我們將持續開發以下產品：

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- 電話 : +886-37-582997
- 傳真 : +886-37-582908

- A. 高密度半導體被動元件
- B. 6吋晶圓及高感度感測元件
- C. 6吋晶圓及高精度功率元件
- D. 高功率AlGaInP發光二極體
- E. 高速光通訊用檢光二極體
- F. 多波段檢光元件
- G. 深紫外光感測元件
- H. 靜電保護元件之矽基板
- I. 覆晶式矽納二極體
- J. 光敏二極體積體元件(PDIC)
- K. 低容瞬態電壓抑制元件(TVS)
- L. 高速光通訊用雷射二極體
- M. 面射型雷射二極體(VCSEL)
- N. 新世代半導體材料元件

Company Profile

Tyntek is a professional manufacturer focused on providing various optoelectronic solutions, specializing in the research, development, production, and sales of optoelectronic products such as sensing devices, emitting devices, and power devices. We also offer OEM/ODM customized manufacturing services. Upholding the principles of quality, innovation, service, and environmental protection, we are committed to delivering high-performance, high-quality optoelectronic products to the global market, with services extending to China, Japan, South Korea, Europe, and the United States.

Main Product/ Service

• Sensing Devices

1.Photo-Transistor Chip

Photo Transistor
Photo Darlington
Ambient Light Sensor (ALS)

2.Photo-Diode Chip

Photo Diode (PD)
Avalanche PD
Color PD
Ambient Light Sensor (ALS)
Micro PD
GaAs PD
InGaAs PD
InGaAs Avalanche PD

3.MEMS Chip

Pressure Sensor
Flow Sensor

• Emitting Devices

1.Visible LED Chip

GaP
GaAsP
AlGaAs
AlGaInP
AlGaInP (WB)

2.Infrared LED Chip

InGaAs/InP
GaAs/GaAs
AlGaAs/GaAs
AlGaAs/AlGaAs (DDH)
AlGaAs/Silicon (WB)
AlGaAs/GaAs (VCSEL)

• Power Devices

1.Power Discrete Device Chip

Photo Triac
Photovoltaic Generator (PVG)
Fast Recovery Diode (FRD)
Power MOS

2.Stabilization/ Protection Device Chip

Transient Voltage Suppressors (TVS)Zener Diode

3.Rectifier/ Passive Device Chip

Schottky Diode
Chip Resistor
Chip Capacitor

• Foundry

1.Silicon Foundry Service

2.Compound Semiconductor Foundry Service

Identity introduction

Tyntek has completed the development of vertical cavity surface emitting laser (VCSEL) diodes and deep ultraviolet (DUV) components, further enhancing our product line. In recent years, we have focused on the research and development of sensor components in fields such as optical communication, automotive, medical, and precision control, achieving remarkable results. With the rapid growth of the optoelectronic market, the range of applications for various products continues to expand. To meet market demand, we will continue to develop the following products:

- A. High density semiconductor passive components
- B. 6" wafer and high-sensitivity sensing photodiodes
- C. 6" wafer and high precision and power components
- D. High power AlGaInP light emitting diodes
- E. High speed communication photodiodes
- F. Multiband photo detectors
- G. Deep ultraviolet (DUV) sensors
- H. Silicon substrates with electrostatic protection components
- I. Flip-chip Zener diodes
- J. Photodiode integrated circuit (PDIC)
- K. Low-capacitance transient voltage suppressors (TVS)
- L. High speed optical communication laser diodes
- M. Vertical cavity surface emitting laser (VCSEL) diodes
- N. New generation semiconductor material components

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EVERLIGHT 億光電子工業股份有限公司

EVERLIGHT ELECTRONICS CO.,LTD.

EVERLIGHT EVERLIGHT ELECTRONICS CO.,LTD.

億光電子工業股份有限公司

公司簡介

億光電子創立於1983年，以超過四十年以上於LED產業的深厚實力，整合專業研發、業務及市場團隊，以客戶需求為導向，就其各種不同的應用提供完整全方位的解決方案，產品線包括 High Power LEDs, SMD LEDs, Lamps, Lighting Components, LED Lighting Modules, Digital Displays, Opto-couplers and Infrared Components等。客戶可以依照本身應用產品的需求，在億光選擇到最適合的封裝產品，使用適合的LED才可以達到應用產品最佳的效率與品質表現。億光多年來以「同心協力、勇往直前、奮戰不懈」的精神為理念，已在全球LED市場佔有率位居前7大的成績，億光將繼續開發更多元應用的LED產品，提供客戶各種無可挑剔的產品方案，共創雙贏的未來！

主要產品/服務

- 產品：車用/不可見光/可見光/背光/照明
- 服務：億光近40年來整合專業研發、業務及市場團隊，專注提供全球客戶LED全方位解決方案，在世界LED產業中佔有重要一席之地。
- 秉持「同心協力、勇往直前、奮戰不懈」的精神，持續以提供高品質、高競爭力的產品及服務，億光團隊支持客戶一同走過數十載產業更迭挑戰，共創雙贏的未來！

亮點介紹

- **客戶至上**
 - ✓ 客戶滿意度優於同業
 - ✓ 客戶關懷
 - ✓ 客戶服務
- **一站購足**
 - ✓ 全產品線
 - ✓ 彈性交期
 - ✓ 穩定供貨
- **公司治理**
 - ✓ 誠信正直
 - ✓ 恪遵原則
 - ✓ 品牌悠久
- **專注研發**
 - ✓ 核准專利1377件
 - ✓ 新產品開發週期短
 - ✓ 送樣快速
 - ✓ 回饋即時

聯絡資訊

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Company Profile

EVERLIGHT Electronics Co., Ltd. was founded in 1983 in Taipei, Taiwan led by Chairman Robert Yeh. EVERLIGHT has over 40 years of R&D experience for reliable capability. With immediate service and an excellent brand reputation, EVERLIGHT has taken top five worldwide in the competitive LED market. Our products are manufactured and packed in-house to guarantee maximum quality and service. EVERLIGHT provides a diverse product portfolio consisting of High Power LEDs, SMD LEDs, Lamps, Lighting Components, LED Lighting Modules, Digital Displays, Opto-couplers and Infrared Components for various applications. Today, EVERLIGHT is a global company with over 5,000 employees based in China, Hong Kong, Japan, Korea, Singapore, Malaysia, India, Germany and U.S.A.

Main Product/ Service

- **Product:** Automotive/Opto-electronic/Lighting Component/Visible/Thin Film Transistor Backlight

● Service:

teams to provide global customers with all-round LED solutions steadfastly. Today, EVERLIGHT plays a significant role in the global LED industry. Over the last 40 years, EVERLIGHT has integrated professional R&D, sales and marketing

Upholding the spirit of “**strive, onward and never let up**”, the EVERLIGHT team has been offering high-quality and high-competitive products and services to our customers to support them through changes and challenges of the industry over the decades. And we will continue to do so to head toward a win-win future.

Identity introduction

- **Customer Upmost**
 - ✓ Has a better customer satisfaction level comparing with other industry players
 - ✓ Customer care
 - ✓ Customer services
- **One-stop Purchasing**
 - ✓ A complete product portfolio
 - ✓ Flexible delivery
 - ✓ Stable supply
- **Corporate Governance**
 - ✓ Honesty and integrity
 - ✓ Customer care
 - ✓ Customer services
- **Focus on R&D**
 - ✓ Obtained 1377 patents
 - ✓ Short product development cycle
 - ✓ Fast sample delivery
 - ✓ Immediate feedback

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PLAYNITRIDE 鏘創科技股份有限公司

PLAYNITRIDE INC.

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鏘創科技股份有限公司

公司簡介

PlayNitride Inc. 於 2014 年成立，立志要「改變世界」，透過創新的研發技術和多元的商業模式，為氮化物產業帶來新的視角，致力於提供客戶最大的價值，並成為領先公司。

目前，PlayNitride Inc. 與多家全球頂尖的台灣、韓國、日本的顯示器製造商和知名品牌系統商建立了深度合作關係。展望未來，從晶片到系統，甚至是新興的顯示應用科技如 AR/VR 穿戴式裝置、手機及車載應用等，PlayNitride Inc. 將在 "MicroLED Display Ecosystem" 中擔任上下游整合的角色，並專注於開發關鍵技術，提供多樣化的 MicroLED 顯示器產品或解決方案，與合作夥伴一起打造 MicroLED 顯示應用的新世界。

PlayNitride Inc. 自2018年起積極參與各項國內外競賽與展會，屢獲殊榮，包括美國顯示器展 (Display Week)、臺灣顯示器元件產品技術獎 (Gold Panel Award)、以及SDIA Award-前瞻顯示大賞...等，展現其在顯示技術領域的卓越實力與創新能量。此外，PlayNitride Inc. 於2022年8月正式在臺灣證券交易所創新板掛牌上市，成為創新板首家掛牌公司，開啟企業發展的重要里程碑。

不僅積極推動產業聯盟，參與未來自動車的關鍵技術開發，還與台灣的面板產業共同成立國家隊，加速面板業進入次世代 MicroLED 的開發與生產，並與整個面板產業鏈一同成長，立足台灣，放眼全球。

主要產品/服務

鏘創擁有 PixeLED 的 MicroLED 製造技術以及 SMAR-Tech 的 MicroLED 缺陷修補技術，讓 MicroLED 除了可使用在傳統顯示器的優化提升外，更可提供許多創新的顯示科技應用，被視為終極顯示技術。

依據應用需求的不同，目前主要分為三大解決方案：

1. PixeLED Display – MicroLED 使用低溫多晶矽面板：主要以主動顯示技術 (Active Matrix) 為主，基板為玻璃材質或PI軟板材質，可做出透明、可撓曲的MicroLED顯示面板。主要使用於車用或是各類消費性電子產品。
2. PixeLED Matrix – MicroLED 使用印刷電路板：使用鏘創獨家的 PixeLED Matrix 技術，將 MicroLED 晶片以 4×4 像素為單位進行封裝，結合成熟的表面黏著技術 (SMT) 製程打件於印刷電路板 (PCB) 上，製成 5 吋的顯示模組。主要使用於大型看板或是電視螢幕之產品。
3. μ-PixeLED – MicroLED 使用 CMOS 基板：將 MicroLED 晶片微小化至 2μm 以下尺寸，以極高的排列密度，做出小於 0.18 吋具有超高亮度與解析度的微型顯示器，作為 AR 應用之強光源顯示器。

除了上述之產品技術差異外，鏘創顯示科技會按客戶需求提出不同的解決方案，與各關鍵廠商攜手為客戶量身打造合作方式。

亮點介紹

MicroLED 有著節能省電、高亮度、高解析度、可撓曲或透明、反應無延遲且可靠度穩定等特色。在未來的各項發展趨勢上成為重要的元件。

像是 MicroLED 本身即具備環保概念，在特性上相較傳統 LCD 僅有 10% 的耗電量，且鏘創推出的解決方案之一即是透由拼接的方式，客製化製作大型顯示看板，並能在顯示器損壞時以模組為單位更換，不製造廢棄家電的浪費，極具環境友善的特色。

正對元宇宙的趨勢，MicroLED 本身的超高解析度、超高亮度與輕薄的特性正是 AR 眼鏡的影像來源，在元宇宙的七大核心要素中成為硬體的元件之一，參與整個供應鏈。

零碳排的世界趨勢中，電動車的發展成為各國施政綱要，在自動駕駛的未來，車內的影音娛樂或是安全警示將更加仰賴顯示器的輔助，讓顯示器無所不在。而車內顯示器對於可靠度的要求、以及形狀的可撓曲性，甚至是透明度的要求，都指向 MicroLED 顯示器的特性，因而獲得強烈的關注。在未來的世界上，MicroLED 顯示器將全程參與。

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Company Profile

PlayNitride Inc. was formally established in 2014, gathered a group of companions aim to "Change the world" and bring through the innovative R&D and diverse business models, PlayNitride has become a leading company in the field of MicroLED technology, enabling our customers to shape the future.

At present, PlayNitride is a reliable partner of many global top companies, including Taiwan/Korean/Japanese display manufacturers and well-known brand system vendors.

Main Product/ Service

With the PixeLED MicroLED manufacturing technology and SMAR-Tech (Selective Mass Addressable Repair Technology), PlayNitride owns the core technology of MicroLED, which can upgrade the user experience from traditional LCD displays and also provide more creative display applications. Thus, MicroLED is believed to be the ultimate display technology.

According to different applications, here PlayNitride provides three solutions:

1. PixeLED Display – MicroLED on TFT (Thin-Film Transistor) : Driving by Active Matrix technology and taking glasses or PI (Polyimide) materials as backplanes, MicroLED display can be transparent or flexible which is applied to the automotive or consumer electronics products.

Identity introduction

For MicroLED itself, there is so many advantages, such as low power consumption, high brightness, high resolution, transparent, flexible, fast response time, and excellent reliability. Which is born to be a key component of further display development.

MicroLED technology is eco-friendly, compared with traditional LCD, the power consumption is 10% only. PixeLED Matrix technology from PlayNitride can provide tiling screen by customization, and the tiling feature allows the module of signage to be replaced when it is damaged, without creating waste of full display replacement, which is extremely environment friendly.

Contacts

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Looking toward the future, PlayNitride will dedicate ourselves to integrate "MicroLED Display Ecosystem" from wafer to system, and further to new emerging applications with extensive experience in the MicroLED display.

PlayNitride also provides a broad range of products and services including research and development in the field of compound semiconductors and in the field of microscale semiconductors for our customers.

2. PixeLED Matrix – MicroLED on PCB (Printed Circuit Board) :

With the exclusive PixeLED Matrix technology, PlayNitride seals MicroLED chips into a "4x4 pixels" unit matrix and utilizes the mature SMT (Surface-Mount-Technology) process to mount the matrix onto the PCB to produce a 5-inch display module which can tile to any aspect ratio or size by customization, which is applied to the large signage board or any screen products.

3. μ-PixeLED – MicroLED on CMOS (Complementary Metal-Oxide-Semiconductor) :

Scaling down the MicroLED chip size to under 5μm to produce an ultra-high-resolution display which can also perform ultra-high brightness as the micro size MicroLED display, which is applied to the resource of AR glasses.

Besides, PlayNitride can also provide customized solutions with key suppliers to fulfill different inquiries from customers.

Facing the trend of Metaverse, MicroLED displays in μ-PixeLED technology can perform ultra-high resolution, extremely high brightness, and thin size. It is perfect as the image source of AR glasses.

On the way of "Net Zero Emissions" world, the development of the electric car is a necessary policy all over the world. In the future, the media entertainment system and security support will count on displays all around the car. MicroLED display can fulfill the high reliability requirement of automotive and be flexible or transparent, which is in the spotlight of the automotive industry. In the further, MicroLED Display will be anywhere.

會員 Member

Taiwan Optoelectronic Semiconductor Industry Association

