

- |  |   |
|--|---|
| 02 處長序文<br>Foreword                                    | 20 捷騰光電股份有限公司<br>Solteam Opto, Inc.                       |
| 04 一碩科技股份有限公司<br>Pixord Corporation                    | 21 萃茂複合材料股份有限公司<br>Epotech Composite Corporation          |
| 05 力嵩科技股份有限公司<br>Lih Song Technology Co., Ltd.         | 22 智高實業股份有限公司<br>GENIUS TOY TAIWAN CO., LTD.              |
| 06 台灣利得生物科技股份有限公司<br>Taiwan Leader Biotech Corp.       | 23 萊碼創意科技股份有限公司<br>LYMA Innovative Tech Co., LTD.         |
| 07 台灣超微光學股份有限公司<br>OTO PHOTONICS INC.                  | 24 意庫行銷諮詢股份有限公司<br>Xideas Marketing Consultancy Co., Ltd. |
| 08 台灣維順工業股份有限公司<br>Heartway Medical Products Co., Ltd. | 25 楓盛資訊股份有限公司<br>FENG SHENG. INFORMATION CO., LTD.        |
| 09 妙印精機股份有限公司<br>Built-in Precision Machine Co., Ltd.  | 26 葡萄王生技股份有限公司<br>Grape King Inc.                         |
| 10 辰光能源科技有限公司<br>Sunshine Energy Technology Co., Ltd.  | 27 寧茂企業股份有限公司<br>Rhymebus Corporation                     |
| 11 奇多比行動軟體股份有限公司<br>Chidopi Co., Ltd.                  | 28 精磁科技股份有限公司<br>Plasmag Technology Inc.                  |
| 12 承奕科技股份有限公司<br>Lumos Technology Co., Ltd.            | 29 儀辰企業股份有限公司<br>Earth-Chain Enterprise Co., Ltd.         |
| 13 昆富工業股份有限公司<br>KING ROOF INDUSTRIAL CO., LTD.        | 30 橙的電子股份有限公司<br>Orange Electronic Co., Ltd.              |
| 14 東庚企業股份有限公司<br>Tung Keng Enterprise Co., Ltd.        | 31 翰沃生電科技股份有限公司<br>HIVOX BIOTEK INC.                      |
| 15 界鴻科技股份有限公司<br>Jih Hong Electronic Co., Ltd.         | 32 環保之家生物科技股份有限公司<br>INVICTUS INTERNATIONAL CO., LTD.     |
| 16 科權科技股份有限公司<br>Ke Chiuan Technology Corp.            | 33 騎士堡國際事業有限公司<br>Kidsburgh International Co., Ltd.       |
| 17 飛想應用科技股份有限公司<br>CROSSCARF ,Ltd.                     | 34 瀛海國際股份有限公司<br>Ricco Engineering International Inc.     |
| 18 益材科技股份有限公司<br>Advanced Material Systems Co.         | 36 第 19 屆中小企業創新研究獎申請須知                                    |
| 19 國泰皮革工業股份有限公司<br>KOTAI TANNERY CO., LTD.             | 39 第 19 屆中小企業創新研究獎評審委員會                                   |

根據「2012 中小企業白皮書」顯示，中小企業家數在 2011 年創歷年新高紀錄，達 127 萬 9,784 家，占全體企業家數的 97.63%。較 2010 年成長 2.55%，銷售值（11 兆 2,269 億元）成長率達 4.84%，也高於大型企業，顯見 2011 年中小企業蓬勃發展。為積極照顧中小企業，政府多年來持續推動各項輔導措施及政策，協助中小企業升級轉型與提升研發能量，從研發創新、強化品質、技術創新等能力方面投入相關資源，加速整體產業升級，提升我國中小企業國際競爭力。



「創新」、「研發」向來是促進經濟成長的基礎，也是中小企業升級發展的重要指標。為鼓勵中小企業投入創新研發工作，自民國 82 年即規劃「中小企業創新研究獎」選拔表揚活動，迄今邁入第 19 屆，總計有 3,357 件標的提出申請，其中有 683 件卓越標的獲獎，實為中小企業創新研發之榮耀標竿。本屆申請參選標的區分為「資訊與電子類」、「機械與自動化類」、「材料與生技類」、「服務類」及「綜合類」等 5 大類，共計有 151 件標的參選，經各階段評選委員專業嚴謹的審查過程，計有 31 家企業獲此殊榮。

本屆獲獎標的不論在創新技術或實用性方面均有傑出表現，充分展現國內中小企業在各領域創造新價值的研發能力。中小企業雖然在規模、資金、設備等條件不及大型企業，惟能自行研發、創新不懈交出具體成績者實屬不易。在此除向本屆得獎企業恭賀之外，亦期許中小企業仍能秉持靈活及彈性，掌握全球產業發展趨勢，發揮高度興業的精神，持續不斷地進行創新與研發，以強化技術水準，提升核心競爭力，開拓市場新商機。

經濟部中小企業處 處長

中華民國 101 年 11 月 16 日

As shown in the SME White Paper 2012, there were 1,279,784 small and medium enterprises (SMEs) in 2011, commanding at 97.63% of the all enterprises. In fact, it is the highest over the years. Compared with the figures in 2010, they increased by 2.255%, and their sales value (\$11.2269 trillion) by 4.84%, which are both higher than big enterprises. These suggest that SMEs thrived in 2011. In order to take good care of SMEs, the government has been promoting various guiding measures and policies over time to assist SMEs in upgrade, transformation, and increasing R&D energy. From R&D and innovation through quality enhancement, to technical innovation, the government has invested relevant resources to accelerate overall industrial upgrade, aiming to enhancing the international competitiveness of Taiwan SMEs.

"Innovation" and "R&D" have always been the fundamentals that sustain economic growth. They are also main indicators indicating the upgrade and development of SMEs. In order to encourage SMEs to engage in innovation and R&D, SMEA began planning the Taiwan SMEs Innovation Awards in 1993 to commend SMEs with outstanding achievements in innovation and R&D. Over the past eighteen sessions, 3,357 entries applied for the awards, and 683 were awarded and became the innovation and R&D benchmark and the glory of SMEs. The Awards this year has five categories: "information and electronics", "machinery and automation", "material and biotechnology", "service", and "integrated". Of the total of 151 entries, 31 enterprises have been chosen for this honor by careful and professional review of judges at different stages.

Award-winning entries of this year are outstanding in both technology innovation and practicality terms. They have also demonstrated the R&D capacity in value innovation of SMEs in different fields. Compared with large enterprises, although SMEs are smaller in size and have less capital and equipment, their performance and achievement in independent R&D and continuous innovation are surprising. Apart from congratulating all winners of this year, I hope all SMEs can maintain flexibility and agility, capture the global trend of industrial development, demonstrate high entrepreneurial spirit, and sustain innovation and R&D. In doing so, you can improve technical standards, enhance core competitiveness, cultivate new markets, and create new business opportunities.

Director General  
Small and Medium Business Administration,  
Ministry of Economic Affairs  
NOV. 16, 2012



# 一碩科技股份有限公司

## Pixord Corporation

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### 簡介

一碩科技 (PM342E) 利用既有傳輸媒介提供 IP 化及饋電系統將訊號和電源同時載入到一對雙絞線上，來達成長距離、高頻寬與高功率的傳輸。在 1200 公尺的距離下，網路頻寬仍有 30Mbps 以上的傳輸量與 40W 的 PoE 饋電輸出功率。將 PM342E 運用在安全網路監控的環境中，可大幅度的降低整體佈線成本。

#### 主要功能：

1. 雙絞線傳輸，距離可達 1200 公尺。
2. 可供應遠端 PoE 電源 40W。
3. 訊號和電源可同時載入至雙絞線，可降低佈線成本。
4. 高頻寬傳輸，可支援 1080P 高解析度的網路攝影機。
5. 可應用在長距離傳輸、電源不易取得或有公安考量的區域。

### 評語

- 本標的利用既有電話雙絞線提供電源及 IP 化功能，傳輸距離可達 1200 公尺，優於其他產品之 300 公尺，可供電源取得不易之地區進行監控作業，可節省佈線成本，實用性佳。
- 可提供 40W 之電力，同時供應 4 支一般網路攝影機或 2 支具 PTZ (Pan/Tilt/Zoom) 功能之攝影機進行監控作業，優於其他產品之 13W 以下。
- 監控市場仍持續成長中，該標的成本低於其他產品 30%，頗具市場競爭潛力。

### Introduction

IP extender with remote power source feeding (PM342E) transmits data & power in one twist pair simultaneously. Using twist pair as transmission medium, it transmits data & power simultaneously up to 1200M, and still have 30Mbps bandwidth and 40W power output for PoE. In some applications, it can save up to 50% time & cost.

#### Main features:

1. Transmission distance up to 1200M.
2. Remote power source feeding technology support remote site 40W PoE output.
3. Data & power in one twist pair simultaneously, save cabling cost.
4. High bandwidth, support 1080P full HD IP camera.
5. For long distance transmission & for lack of power source area application.

### Commentary

- Featuring state-of-art remote power source feeding technology, The PM342E effectively and easily operates in multiple digital surveillance applications, including high-tech factory, transportation and long distance transmission & for lack of power source area, the product provides a solution integrating low wiring cost and great practical applications.
- For total 40W output PoE. PM342E supports 4 general PoE network cameras or 2 PoE cameras with PTZ (Pan/Tilt/Zoom). This is far better than competitive products with less than 13W.
- The surveillance market is growing continuously. As the product cost is 30% lower than competitive products, it has higher competitive potential on the market.

# 力嵩科技股份有限公司

## Lih Song Technology Co., Ltd.

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### 簡介

**產品目的：**節省人力及改善加工精度，加快生產速度。

#### 產品優勢：

- 佔地面積小 (有效利用空間)
- 加工速度快 (產能提昇)
- 刀具壽命長 (降低成本)
- 加工精度高 (提升良率)
- 機台價格低 (高 CP 值)

#### 產品特色：

- 工件採分站加工
- 各工作站可使用不同特性的加工工具 (主軸 / 刀具)
- 工件不需要脫離加工台面，以確保加工精度
- 利用併聯加工工作有效率之工作站分配
- 各工作站獨立運作，無需互相等待

### 評語

- 本標的為一全新的加工方式，可達成全自動加工、定位、分段分時式加工，免交換刀具進行不同方式加工，同一時段內有多組刀具同時加工，使加工檯面充分利用等創新設計。
- 可廣泛應用於玻璃加工、金屬加工、模具加工、粗加工、精加工等各種用途，對環保及節省能源皆有正面貢獻。
- 本標的運用的創新技術如：上下料機構、下料機之儲水裝置、氣液屑分離裝置 .. 等，並已獲台灣及中國專利。

### Introduction

#### Product description:

Reduce manual labors and improve machining accuracy, also increase production rate.

#### Product advantages:

- Compact (efficient use of space)
- Speed up machining rate (increase productivity)
- Prolong lifespan of tools (reduce tool cost)
- Increase machining accuracy (increase yield rate)
- Low unit price (high CP value)

#### Product characteristics:

- Work pieces can be processed at different machining platforms
- Each machining platforms can utilize different machining tools which having various characteristics (main axle/tool)
- Work pieces do not need to be detached from the machining platform for maintaining machining accuracy.
- Efficiently distribute works to each machining platform via parallel processing
- Each machining platform works independently without mutual wait between each other

### Commentary

- The entry combines multiple innovative designs featuring a brand new machining method that achieves full-automatic machining, positioning, section-based and time-based machining and "one cutter fits all" processing. Also, the entry supports the synchronous operation of multiple cutter sets to allow full use of the workbench.
- The entry supports comprehensive processing tasks, such as glass machining, metal machining, mold machining, rough machining, and precision machining.
- The innovative technologies of the entry include: loading and unloading mechanism, unloader water storage device, pneumatic bits separator etc, which have obtained patents in Taiwan and China.



多站加工機  
Multi-Stations  
Machining Center



# 台灣利得生物科技股份有限公司 Taiwan Leader Biotech Corp.

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## 簡介

嚴選台灣特有之牛樟芝優良菌種，在精密控管溫溼度的10K無塵等級栽培室中，用生物技術高效固態培養，歷時四個月而成，富含三萜類化合物、多醣體( $\beta$ -D葡聚糖)、腺苷、麥角固醇、蛋白質等珍貴成分，具免疫調節功效，同時可幫助調整體質、促進新陳代謝、增強體力、精神旺盛，是健康維持的頂級珍品。通過第三類安全性評估試驗取得免疫調節健康食品認證(衛署健食字第A00190號)。經動物試驗結果顯示，有助於促進免疫細胞增生能力、有助於促進吞噬細胞活性、有助於促進自然殺手細胞活性。

## 評語

- 本標的在10k級無塵室、恆濕恆溫環境下以固態培養技術，獲得與野生牛樟芝三萜類含量相近之成份。
- 牛樟芝固態培養菌絲體乙醇萃取物指紋圖譜明確，純化出十四個成份。
- 牛樟芝業界第一家取得「免疫調節」健康食品字號之產品。(2010年11月19日通過健食第A00190許可証)經動物試驗，證實具有以下保健功效：
  1. 有助於促進免疫細胞增生能力
  2. 有助於促進吞噬細胞活性
  3. 有助於促進自然殺手細胞活性

## Introduction

Excellent strain of *Antrodia cinnamomea* was cultivated and incubated under 10K Clean Room with strict regulation of temperature and humidity. Within 4 months' incubation, our product are rich in triterpenoids polysaccharides ( $\beta$ -D glucan), adenosine, ergosterol, protein and other precious ingredients. It shows effect in immune-modulatory and also helps to improve people's physiology, promote metabolism, enhance physical strength, and boost energy. With the third type of assessment, the functions of this product in immune-regulation were certified by the Department of Health (Health Food No. A00190). It can contribute to the ability of immune cell proliferation, and also helps to promote the activity of phagocytes and natural killer cells.

## Commentary

- The entry is produced with solid-state culture at constant temperature in a 10k clean room to obtain ingredients similar to the triterpenoids found in the *Antrodia cinnamomea*.
- The correct fingerprint of the ethanolicly extracted mycelia from solid-state culture of the *Antrodia cinnamomea* allows the purification of 14 ingredients.
- This is the first product to pass the "Heath Food" accreditation for immunity regulation. (Jian-Shi-Zi A00190 accredited on 19 November 2010). The health functions of the product have been proved in animal tests.
  1. Enhance immunity effect.
  2. Promote pagocytosis.
  3. Promote natural killer cell activity

# 台灣超微光學股份有限公司 OTO PHOTONICS INC.

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## 簡介

UM1000為全球最小之光譜儀，體積僅約目前「微型」光譜儀的1/10，雖美日德等光學領導廠商也致力於「超微型」光譜儀的開發，然而他們仍採用傳統的平面光柵或標準圓弧曲面，致使在解析度、感光度、波長準確度上仍存在重大難以克服的缺點。UM1000承襲OtO獨步全球的「自由曲面凹面光柵」理論，以創新的微機電深蝕刻技術實現了競爭者難以達成的高解析度、高感度、高波長準確度、高耐溫特性、高耐震特性、低調校需求、低成本而真正可攜式的全球最小的光譜儀，一舉超越美、日、德等國際知名光學大廠，這是台灣在光學領域極其少數可以超越全球競爭者的驕傲。

## 評語

- 本標的為世界最小光譜儀核心模組，尺寸為3.6cm\*3.6cm。
- 創新性高，利用創新凹面光柵專利技術，徹底簡化光學路徑並無動件於其中，使可攜式及個人化光譜儀成為可能。
- 技術門檻高，如：利用MEMS技術製作光柵、新加工法製作光波導、漸變膜厚濾片解決二階繞射干擾問題...等多項創新技術，並有專利佈局保護。
- 本標的耐摔、可靠度佳，且以自主技術及本土供應鏈製造，利於降低成本。
- 定位為關鍵核心模組，可與不同應用領域系統商合作，市場潛力極大。

## Introduction

As a smallest spectrometer in the world, and 1/10 capacity to compare with the other micro spectrometer in the market nowadays. Although, the leading companies which are from Unite State, Japan and German are also hammer at developing in the field of ultra micro spectrometer; however, using traditional methods still have huge defect and hard to be solved. UM1000 is a product based on the theory of "A Diffraction Grating with A Curved Surface" which is the unique and exclusive in the world; meanwhile, our innovation also complete the advantages in high-resolution, high-sensitivity, low-cost and smallest portable spectrometer in the world. Definitely, it is the great honor and shall be proud of Taiwan in the optical field that beyond the other leading companies from advanced country.

## Commentary

- UM1000 is the smallest spectro-module in the world, with a size of only 3.6cm\*3.6cm.
- UM1000 is highly innovative. The patented concave grating technology simplifies the optical path without moving parts, thus a portable and personalized spectrometer become reality.
- Technical threshold: such as making grating with MEMS; producing optical waveguide with a new processing method; solving the second order diffraction interference problem by filters which use variable film thickness; and other innovative technologies which are patent-protected.
- UM1000 is shatterproof and high reliability. Also, it saves production cost by combining self-developed technologies with the local supply chain.
- Positioning UM1000 as a key core module. And UM1000 has great market potential by combining with various application fields.



超微型光譜儀 UM1000  
Ultra Micro Spectrometer  
UM1000



# 台灣維順工業股份有限公司

## Heartway Medical Products Co., Ltd.

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### 簡介

S17 Cutie 在市場定位上為中型電動代步車，為公司自有品牌產品之一，除了維持公司一貫的產品設計風格，在操作、舒適、安全、模組化、綠色環保等研發概念皆為符合市場需求的產品，特點是充分展現中型代步車在操控、安全、舒適等創新，運用多項專利避震系統，讓駕駛人能在不同種路況隨心駕駛並且確保駕駛人的安全。設計引用多項專利先進功能，引起世界級的同業關注，帶動業界的產品設計導向，如高階人機界面系統、高舒適性的避震系統、自動電控系統、合宜人因功能座椅機構等功能導入，均是業界首創的功能特色產品。

### 評語

本標的具多項獨特性創新，並取得專利包括：

- 多項創新避震系統，減少行駛中車體震動，增加使用者之安全性與舒適性。
- 多項安全防護設計與省電節能設計。
- 特殊人因設計與制動結構，增加銀髮族之操作簡易、安全與舒適性，及符合人性化可調控機構與轉向座椅（提高使用者上下車之方便性與安全性）等。
- 已獲多項專利，並通過國外重要安規驗證。
- 以自有品牌行銷，剛開始量產即外銷英、德、澳荷等國。

### Introduction

S17 Cutie is a medium-sized mobility scooter, providing perfect scooter dimension for boarding transportation and competitively priced with many features of the higher priced scooters, such as LCD console to indicate speed, trip distance and battery status. The maximum weight capacity is 300 lbs, the maximum speed is up to 7.5 MPH and it handles up to 15 miles on one battery charge. S17 delivers high performance operation and feather-touch easy disassembly. With a full complement of advanced features like exclusive LED lighting system with less power consumption, 3D independent suspension to absorb heavy vibration, perfect scooter dimension, exclusive PU tires and ergonomic adjustable seating system, the S17 is a greater value than ever before.

### Commentary

The entry has a host of innovative and unique features and has obtained the following patents:

- Innovative design for shock-absorbing system to reduce shock in driving and thereby to improve safety and make driving more comfortable.
- Innovative design for protective and energy-saving features.
- Specific ergonomic design and braking structure enhances operation convenience, safety and comfort for elderly people. The user-friendly adjustable control mechanism and swivel seat design allow elderly people to get in and out of the vehicle more conveniently and safety.
- Obtained a hose of patents and passed major safety accreditations at home and abroad.
- Marketed under an original brand and began exporting to the UK, Germany, Austria, and the Netherlands immediately after mass production.

電動代步車 S17 Cutie  
Power Scooter S17 Cutie

# 妙印精機股份有限公司

## Built-in Precision Machine Co., Ltd.

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### 簡介

- 具有自動進出料 LOADER/UNLOADER 系統，以 CASSETTE 儲存基板，減少人工搬運。
- 6CCD 視覺系統 +UVW 精密定位補正系統，精度值達到  $\pm 0.01\text{mm}$ 。
- 台板伺服馬達驅動控制，快速到位，重複精度可達  $\pm 0.01\text{mm}$ 。
- 刮印及離版採用伺服馬達驅動控制，數值輸入精準穩定，操作標準化。
- 抽取式網版：可提高網版擦拭清潔度及兼顧人員操作安全性。
- 滑移式印刷網版之承靠定位機構：機台穩定度及鋼性可提高印刷品質之可靠度。
- 玻璃基板印刷前及刮刀印刷後靜電離子風刀，減少靜電造成 PARTICAL 污染，提高產品良率。
- 可印刷多道生產製程，製造彈性大，減少客戶購置成本。

### 評語

- 本標的具有自動進出料系統，6CCD 視覺及精密定位補正系統，刮印及離版採用伺服馬達驅動控制，抽取式網版等具特色的設計。
- 本標的除了取代人力外，對未來觸控面板應用於 NB、TV 等大型玻璃印刷更為一大利器，深具發展應用潛力。
- 本標的設計模組如：抽取式網板裝置、及滑移式印刷網版之承靠定位機構等已獲台灣及中國專利。

### Introduction

- Automatic loader/unloader store substrates in Cassette to avoid moving by labor.
- 6 CCD visual system + UVW precise positional correction system, accuracy is up to  $\pm 0.01\text{mm}$ .
- Table server motor drive control, quick on position, repeat accuracy can reach  $\pm 0.01\text{mm}$ .
- Printing and peel-off by server motor drive control, digital input is accurate and stable, operation standardized.
- Removable screen frame : Operator can better to clean screen and safely.
- Slide screen frame positioning mechanism: Machine stability will increase printing quality.
- Before and after glass substrate printing blow electrostatic ion to avoid particle pollution and increase product quality.
- Multiple printing processes are available, flexible on production line and reduce machine procurement cost.

### Commentary

- The entry has a number of characteristic designs, including the automatic feeding/dispensing system, six-CCD vision and precision position compensation system, servo-motor-controlled squeegee and separation, and removable stencil.
- Apart from saving labor, the entry will be an ideal solution for large-area glass printing, such as notebook and TV touch panels; suggesting a high potential for application development.
- A number of the entry's modules have obtained patents in Taiwan and China, such as the removable stencil mechanism and the support and positioning mechanism for the slide stencil.



觸控面板全自動網版印刷機  
Touch Panel Automatic  
Screen Printer



# 辰光能源科技有限公司

## Sunshine Energy Technology Co., Ltd.



小央廚之高溫急速冷卻機  
The usage of cooling  
machine for small central  
kitchen

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### 簡介

許多食品製造業者選擇建立一個中央廚房，統一製作產品以降低製作成本。在宅配運費及油價高的情況下，很多產品的價格與運費差不多，這對食品製造業者無疑是一大負擔，因而有了區域性小央廚的想法出現。一個區域性的小央廚可以供應鄰近鄉鎮的店面或攤販，解決了產品運輸的問題。

小央廚的急速冷卻機可以讓剛煮好的食材在短時間內降溫至 18 度，冷卻後就可以接續下面的充填或包裝等加工流程。除了讓製作流程更有效率，也可讓食材維持在低溫抑菌的高品質狀態。這個小央廚結合了烹煮、冷卻、包裝及調理四大區塊，各司其職，在這樣的完整搭配下，讓消費者和食品製造業者都受惠。

### 評語

- 本標的之創新性在於該公司利用自行研發之高效率導熱管，將其模組化設計成快拆、快組機型，以達到快速降低溫度的需求，並有相關專利多件。
- 本案產品已實務應用於小央廚模式的相關領域，並開創製造業服務化的經營模式。

### Introduction

Many food manufacturers choose to build a central kitchen for the cost reason. Nowadays, the oil price is high; the transportation cost is almost equally to the food price. This is a burden to the food manufacturer and this is also the reason why the idea of a small central kitchen in county area came out. A small central kitchen will solve the high transportation cost problem.

A central kitchen needs good equipments to manufacturer food products, but they always ignore the chilling equipment. Instant cooling machine will reduce the food temperature to 18 degree Celsius around 20 minutes (depends on the stickiness of food). And the food will go to the next procedure right after chilling. This chilling process will restrain the growth of bacteria and keep the good quality of food. There are 4 areas, final products making room, packing room, chilling room, and kitchen in this central kitchen. They have different duties to manufacturer the good quality. And let the consumers and manufacturers eat or make better.

### Commentary

- The modular design of the self-developed high-efficiency heat-pipe for quick mounting and dismounting to meet the demand for quick cooling is the main innovation of this entry. This design has obtained a number of related patents.
- The entry has been applied to the related fields of small central kitchens and initiated the servitization of manufacturing.

# 奇多比行動軟體股份有限公司

## Chidopi Co., Ltd.

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### 簡介

「Presstation 多媒體電子書出版平台」是一個自動化的電子書出版平台，主要目的是提供所有想出版、愛出版的內容提供者，能夠有自行出版專屬的 App 電子書平台。Presstation 平台上強大的功能，不僅符合專業出版商的需求，也能滿足企業、媒體各方面的想法，包括有：圖、文、影音整合及動態連結等功能，更結合了定位、搜尋、設定定點特效、寄發電子郵件和 facebook 分享等多元化行銷設計。讓電子書的閱讀經驗，不再只是紙本的數位化，更具有資訊串連和整合的特性。只要簡單的上傳、編輯、送出三步驟，即可完成一本專屬 App 電子書！

### 評語

- 本標的已有繁、簡、英等語言版，具國際市場潛力。
- 本標的已和國內許多出版業者合作，開發 Apps 電子書產品，目前完成上架的 Apps 軟體超過 500 件。

### Introduction

Presstation is a multimedia interactive eBook maker. Several file formats are available for use in the book, including audio, video, location, linkage, text, and slide shows. The books can then be shared via Facebook, Twitter or e-mail. Three easy steps to build your own apps: Upload, Edit and Submit!

### Commentary

- This entry is now available in Traditional Chinese, Simplified Chinese, and English versions, making it highly potential in the international market.
- The developer has started cooperation with many domestic publishers to develop e-book Apps. At present, there are more than 500 products distributed through Apps.



Presstation 多媒體電子書  
出版平台  
Presstation Multi-Media  
eBook Publishing Platform



# 承奕科技股份有限公司 Lumos Technology Co., Ltd.

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## 簡介

由於在許多研究工作情況中，需要使用到螢光激發光源；因此，產品的「適應性」是 X-Loupe UCRL 微距／顯微螢光激發光源的主要設計概念；設計目的是服務各種使用者需求而非單一的應用層面。它的適應性體現在兩方面：

1. 光源可以進行調整，以適應不同的工作平台與場景的使用，例如裝置可從相機移到錄影機，甚至到實體顯微鏡上均可配合使用。
2. 為滿足上述需求，光源通過照明角度調節，即可適合不同的工作距離的使用。

## 評語

- 以可激發螢光之 LED 光源為設計主軸，螢光影像可檢測 DNA，除應用於生物科技，亦可用於刑事鑑定。
- 本標的之創新點如下：
  - 可調光源角度，由 1 至 15 公分皆可清楚看到影像。為確保使用壽命，由硬板研發出 LED 軟板。
  - 獨特之可切換雙波長複合設計 (365nm 至 900nm)。
  - 可有 9 種比例照明 (ratio illumination，可關掉部份光源)。
  - 材質耐滅菌消毒。
  - 設計轉接頭，例如磁吸套件，方便跨影像平台裝設。可將實體顯微鏡升級為螢光顯微鏡。可同時打光、照相、記錄，不受日本 3482440 號專利 (觀察用) 限制。
- 可觀察記錄對象由大個體至組織 (皮膚) 皆可。

## Introduction

Users need fluorescence excitation light source in many research situations. Therefore, "adaptability" is the main design topic of X-Loupe UCRL macro/micro fluorescence excitation ring light source. It is designed to serve for users, not its application alone. The adaptability is shown in two aspects:

1. The light source can be adapted to fit different working scenarios for users, such as migrating from camera to camcorder or even stereo microscope;
2. In order to fulfill above statement, the light source can be adapted to different working distances by adjustment of illumination angle.

## Commentary

- Based on the principles of photoluminescence, the entry using LED as the light source can be applied to DNA examinations. Apart from the biotech industry, the entry can be applied to forensic examinations.
- Innovative features:
  - Adjustable light angle to illuminate images for extra-macro photography from 1-15cm; with flexible LED to prolong product life.
  - Exclusive switchable dual wavelength design (365nm-900nm).
  - 9 ratio illumination modes for turning off part of the lighting source.
  - Heat-resistant materials for sterilization.
  - Adaptors, e.g. the suction kit, for use on different imaging platforms, allowing users to upgrade an ordinary microscope into a fluorescent microscope integrating lighting, photography, and recorder functions free from the restrictions of the Japanese Patent 3482440 (observation use).
- Supports observation and recording from large objects to skin tissue.



X-Loupe® 多用途可變角度環形  
螢光激發光源  
X-Loupe® Macro/Micro  
Excitation Ring Light Source

# 昆富工業股份有限公司 KING ROOF INDUSTRIAL CO., LTD.

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## 簡介

用於全部附有歐洲式拖車球之車款；固定單車的方式採用三點式固定，使得載運更穩固安全；並考量到產品使用性質為戶外所以設計鎖具來保障客戶攜車架及單車的財產安全；針對休旅車的直立開合式後車箱，特別設計可傾機構，讓使用者可以直接自行行李箱拿取物品，免除拆卸的繁複動作；裝載方式考量平衡性，使得整體外觀更加和諧美觀。

安全性一直是 BNB 熊牌的首要考量，本產品已通過德國認證單位 TUV 攜車架認證，產品亦通過歐盟規範 E mark 認證，其材質遵循 ROHOS 環保規範，安全無虞之下也善盡樂活責任。

## 評語

- 本標的由該公司研發、生產及組裝。其創新特色包括：拖車球座、全方位固定夾手、活動式棘帶固定座、附防盜鎖、可傾斜機構（不需拆卸即可開後車廂蓋...）等。強調環保與樂活訴求，採用碳纖材質，自創 BN' B RACK 品牌，現有代理商涵蓋荷蘭、英國、西班牙、土耳其、希臘、匈牙利、南非、巴西等。
- 本標的已獲德國專利，並通過 TUV-Test 及 E Mark 認證，也獲得 2012 年台北國際體育用品展「創新產品卓越獎」。

## Introduction

The EXPLORER BALL use the new patent mechanism to mount the tow ball from European cars. It fixes bikes on three points, which makes loading secured. We design lock systems to prevent bikes and the carrier stolen; moreover, tilts down mechanism makes users convenient to open trunk without uninstalling carrier. It is considered that balanced loading makes carrier safer and more elegant.

Safety is always the priority of BNB spirits. The EXPLORER BALL is certified by German certification "TUV". It's also approved by European certification of "Emark". The materials of product follow rules of ROHS standard. We make it secure and hope lifestyle to be healthy and sustainable.

## Commentary

- The entry is developed, manufactured and assembled by the manufacturer. The innovative features include the tow-ball rack, multipurpose clamps, removable band rack, with antitheft lock, tilting mechanism (allows users to open the trunk without dismounting the rack), etc. It also emphasizes environmental protection and LOHAS and uses carbon fiber materials for its products. The entry is distributed to the Netherlands, the UK, Spain, Turkey, Greece, Hungary, South Africa, and Brazil in its original brand BN'B RACK.
- The product has obtained a German patent and passed the TUV-Test and E Mark certifications. IN 2012, it won the Innovation Excellence Award from the Taiwan International Sporting Goods Show 2012.



拖車式平台攜車架  
- BC-3816-2  
EXPLORER BALL  
- BC-3816-2



# 東庚企業股份有限公司

## Tung Keng Enterprise Co., Ltd.



dbRevO 動力輪  
dbRevO Power Wheel Kit

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### 簡介

革命從現在開始，向 dbRevO 動力輪說哈囉！  
東庚自行研發 dbRevO 動力輪，用最簡單的方式”發動”您的自行車。  
多合一的設計提供了最簡單的安裝方式讓您輕鬆升級您的一般腳踏自行車改裝為電動自行車。

dbRevO 動力輪的特色：

- A) 多合一設計
- B) 簡易安裝
- C) 富設計感的無線液晶顯示器
- D) 適合所有自行車車架

最簡單的安裝步驟：

- 1) 將你的自行車前輪改裝為 dbRevO 動力輪
- 2) 將無線液晶顯示器及安全斷電煞車固定好
- 3) 開啓電源，上路！

### 評語

- 本標的將馬達 / 電池 / 控制系統整合在自行車的前輪，搭配無線上控及功能顯示。從產品構想、設計、製造、測試認證到量產皆自行研發，深具創新性。
- 消費者只需改裝自行車前輪，並將無線傳輸的液晶顯示儀表裝在龍頭把手，就可以升級為電動自行車。
- 本標的獲台灣、中國、美國、日本等國專利及獲選台北國際自行車展創新設計獎。

### Introduction

The Revolution begins now, say hello to dbRevO!  
DK City self-innovated dbRevO that provides the easiest way to POWER ON your bike.

All-in-one design allows the simplest installation method to upgrade your ordinary pedal bike to an electric bike.

Features of dbRevO:

- A) All-in-one Design
- B) Easy Installation
- C) Stylish Wireless LCD Console
- D) Fits In Almost All Bike Frames

Simplest Installation Steps:

- 1) Change your front wheel to dbRevO
- 2) Fix the wireless console and safety power-off brake.
- 3) Power on and go!

### Commentary

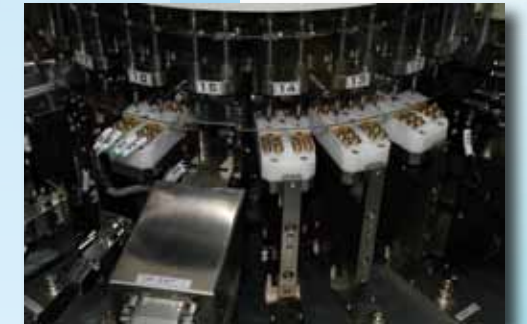
- The entry integrates motor, battery, and the control system on the front wheel of the bike with a wireless console at the handlebar. From product conceptualization, design, manufacture, testing, and certification, the manufacturer finished them through independent R&D. The product is thus extremely innovative.
- By simply modifying the front wheel and installing the wireless console at the handlebar, consumers can immediately upgrade their bikes into a velomoteur.
- The product has obtained patents in Taiwan, China, the USA, and Japan; and has won the Design Innovation Award at the Taipei International Cycle Show.

# 界鴻科技股份有限公司

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SMX 電子元件測試包裝機  
SMX SERIES ELECTRONIC  
COMPONENTS OF TEST  
PACKAGING MACHINE

### 簡介

SMX 雙步一貫機

提供穩定的 SMX 二極體產品在電性測試、外觀檢測、捲帶包裝等功能，可供客戶選擇產品外觀上的印碼和視覺檢查系統，大大提高產能和品質。

特色：

1. 三層式轉塔設計：旋轉、下壓、控制、各自獨立轉塔可使機台運轉中更穩定順暢。
2. 雙入料通道與配合 48 支吸嘴及雙編出料設計，將提高每小時產能 (UPH) 的產出數量。
3. 特殊設計的馬達傳動系統：速度快 / 與測試機閉回路配合 / 定位精度佳 / 維修保養容易。
4. 模組式設計，方便維修與調整，利於擴充修改。
5. 多站可切換的測試和排料。
6. 有多種雷射印碼、視覺檢測系統供選配。
7. 簡易操作的人機界面系統。

### 評語

- 本標的為電子元件電性測試及包裝的自動化系統，改善市面上採用單吸嘴吸住元件的設計，而使用雙吸嘴的獨特設計，並搭配旋轉、下壓與控制三層式的主轉塔，及模組化設計，頗具創新性。
- 本標的以較低的成本達到客戶提升產能的目標，且方便維修與調整，並有利於系統擴充。
- 本標的已獲台灣及中國專利。

### Introduction

SMX dual input handler

Jih hong provide diodes of SMX electrical testing & visual inspection with tape reel of stable function, on the appearance of the product marking code and visual inspection system for customers to choose, and greatly increase capacity and quality.

Feature:

1. Three-tier turret design, rotation, under pressure, control, independently turret enables more stable and smooth operation on machine.
2. Dual feeding channel with 48 nozzle and dual taping out design, that will increase production capacity of per hour (UPH) the number of outputs.
3. Special design of motor system: faster/close loop with testing high precision/easier maintenance.
4. Modular design, easy maintenance and adjustment, which will convenient expand and modification.
5. Multi- test of station and reject switch of station.
6. There are a variety of laser mark machine, visual inspection system to choose.
7. Easy to operate man-machine interface system.

### Commentary

- This is a system for electrical test and packaging automation of electronic components. It has improved the single-nozzle suction design of convention systems with a double-nozzle suction design accompanied with a swivel tower combining the rotation, press-down and control layers in a modular design.
- This entry assists customers to expand capacity at a lower cost. Also, it comes with easy maintenance and adjustment to facilitate system expansion.
- The entry has obtained patents from Taiwan and China.



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## 簡介

SABS 頻率煞車系統是全球唯一的自行車 ABS 防鎖死煞車系統。具有下列特色：

1. 不須使用電力、油壓、氣壓，運用 100% 機械結構產生規律點放煞車頻率。速度越快，頻率越快。
2. 全球最安全的自行車煞車系統。通過 SGS 實車測試認證，如下：

	斜坡 %	時速 (km/h)	僅煞前輪安全煞停
1	12	63	
2	20	69	
3	30	59	

(1) 長陡坡測試 (海拔 3275m 至海拔 480m，全程 53.6km，最高時速 67.4km/h) 僅煞前輪安全煞停。

(2) 縮短煞停距離：

煞停方式	歐盟 EN14766 規範	使用本標的 SABS 頻率煞車系統
僅煞前輪	N/A	3.9M
僅煞後輪	10M 內	4.3M
兩輪同煞	6M 內	3.8M

3. 通過雪地測試：

- (1) 在厚雪下坡路段，僅煞前輪，安全煞停。
- (2) 在薄冰路面，僅煞前輪，安全煞停。

## 評語

- 本標的為自行車自動防鎖死煞車系統，利用慣性力瞬間放鬆煞車，並在放鬆的瞬間，利用創新機構設計促使瞬間回復煞車，產生有規律性的點放煞車頻率，時速越快頻率越快，因而消除慣性力，讓自行車安全煞停。
- 本標的全部運用機構，不需使用電力、油壓、氣壓，提高產品功能的穩定性及耐用性，且已通過 SGS 各種煞停安全性能測試。
- 已獲台灣、中國、日本、美國、歐盟等多國專利，並獲國家發明獎金牌獎、經濟部國家產業創新成果表揚獎 ... 等獎項。

## Introduction

SABS Frequency Brake System is a unique bicycle ABS brake system and the safest one in the world. It contains the special features below:

1. No Electric, Hydraulic or Pneumatic force needed. It is 100% mechanical structure generates frequency brake. The higher speed increases, the higher brake frequency generated.
2. Certified by SGS road test:

	Slope %	Velocity(km/h)	Front Brake Only Safe stop
1	12	63	
2	20	69	
3	30	59	

(1) Long slope test (From Wu Ling to PuLi, total 53.6km, the highest speed during test is 67.4km/h) only apply FRONT BRAKE.

(2) Shorten brake distance:

Brakes in use	Euro standard EN14766(m)	SABS brake system Braking distance(m)
Front	N/A	3.9
Rear	<10	4.3
Both	<6	3.8

3. Testing both on snowy and icy road which only apply front brake and stop safely.

## Commentary

- The entry is a bicycle Anti-lock Brake System. Based on the instantaneous brake-release inertia, an innovative mechanism is designed to recover braking in an instant to achieve regular point-release braking to enhance braking frequency at high speed and thereby ensure safe braking by eliminating the brake-release inertia.
- The entry is fully mechanically operated and does not need electric, hydraulic or pneumatic power to enhance stability and durability. Also, it has passed all SGS brake safety tests. IT has obtained patents from many countries, such as Taiwan, China, Japan, the USA, and the EU. It has also won the Gold Medal of the National Invention Awards, the National Industrial Innovation Award, etc.

# 飛想應用科技股份有限公司 CROSSCARF, Ltd.

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## 簡介

- 雙模式 < 閱讀模式 > 提供明亮舒適的閱讀照度 (>1000lux)，< 情境模式 > 製造居家溫馨氣氛，超省電 (<1W 耗電量)。
- 不打擾人閱讀光線 / 利用具有光指向性的 LED 設計成不會打擾到他人的個人光線。
- 專利反射式防眩光科技 / 高效率 LED 及光路設計配合特殊鍍膜反射板將反射後光線變得更均勻柔和、防眩光、不疊影，閱讀更護眼。
- 新型態無懸臂式設計 / 無懸臂不佔空間的簡約線條設計。
- 亮度調控 / 精準的無段調控，配合環境調整至您最喜歡的亮度。
- 旅人時計 / 以被動的方式，輕鬆、約略的提示時間。
- 遠端散熱設計 / 表面溫度僅攝氏 40 度以下，安全可靠！

## 評語

- 本標的利用 LED 指向光源及節能特性，配合創新造型設計，可提供輕鬆、柔和、護眼之居家情境與個人化照明，極具創新及實用特色。
- 主要創新特色包括：可調整角度反射板、無懸臂式燈架設計、低驅動電流（穩定不閃爍電路）設計、自然對流散熱設計等。

## Introduction

- Dual mode usage  
Reading lamp – simply lift the reflector up and turn the switch on for a comfort reading brightness (>1000lux);  
Accent lamp – it becomes a home accent light and glows like a beautiful shining calla lily.
- No disturb light / directional light by reflection, well suited for the bedside, couch and desk reading.
- Reflective anti-glare, patented / use a special made aluminum reflector as an indirect LED lighting, it can produce a more uniform and comfortable anti-glare luminance.
- No cantilever / More easily to fit into corners with a small footprint.
- Dimmer control / to precisely adjust the light to the most comfortable illumination you want.
- Analog hour indicator with traveling image / a passive hour indicator to remind you the time in a relax way.
- Remote heat dissipation / Cool down the skin temperature to lower than 40° C

## Commentary

- Combining the directional lighting and energy-saving characteristics of LED with innovative appearance design, the entry provides soft and eye-protecting home and personal lighting at all ease. This innovative design is also practical to use.
- The innovative features include: adjustable reflector, armless frame design, low voltage (stable and non-flickering circuit) design, and natural ventilation design.



旅人。時。光  
個人閱讀與居家情境 LED 檯燈  
Traveler Personal Reading X  
Accent Lighting LED Lamp



# 益材科技股份有限公司 Advanced Material Systems Co.

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## 簡介

本產品將目前校驗用氣體的儲存期限由 6 個月延長到 30 個月，大幅提升使用效率，有效降低使用成本，在業界成為新的標準。由於使用期限的有效提升，明顯降低廢氣量，除減少對環境沖擊外，也減少廢氣處理成本，與現有產品有極大優勢。本產品主要在氣瓶內部進行特殊性表面處理，形成鈍化層，使氣體與氣瓶隔絕，在儲存 30 個月後，變異量小於 1PPm。目前本公司為全球唯一生產此種氣瓶之製造商。

## 評語

- 本標的之創新特色包括：
  1. 可提高「氣體」儲存壽命（一般為六個月）。
  2. 自行研發化學鍍鍍製程（氣瓶內層），自行調配藥水，可有效降低成本。
  3. 首推量產內部鍍鍍高壓氣瓶。
- 已通過歐盟、加拿大 (TC) 等國際規範認證。

## Introduction

This series of products will extend the storage period of calibration gas from 6 months to 30 months. It can increase the efficiency of usage, cut the costs and become the new standard in the industry. Due to the improvement of storage period, it significantly reduced the emissions and impact for the environment. Thus, it can reduce the emission processing costs and has great advantages compared with the existing product of other companies. By using the special surface treatment within the cylinder, it can form a passivation layer and let the variation of gas composition ratio remained less than 1PPm after 30 months of storage. Currently, our company is the only one can produce such cylinder in the world.

## Commentary

- The innovative features of this entry include:
  1. Extend "gas" storage length (generally 6 months)
  2. Effectively reduce cost with the self-developed chemical nickel-plating process (internal layer of the cylinder) and self-mixed solution.
  3. First mass-produced internal nickel-plated pressured gas cylinder.
- Passed international certifications like the EU and TC (Canada).



長效型校驗氣體用高壓氣瓶  
The Long Shelf-life High-  
Pressure Cylinders for  
Calibration Gas

# 國泰皮革工業股份有限公司 KOTAI TANNERY CO., LTD.

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## 簡介

這是一件結合環保、時尚和工藝的藝術品。  
稟著根留台灣的堅持及不仰賴國外技術而致力於台灣獨立開發的理念；此產品突破傳統的製革技術，以前衛美學的工藝來挑戰皮革纖維組織，我們在此呈獻給您 - Pandora Hedgehog。  
Pandora Hedgehog 使用純淨的無鉻皮革。此皮料不含重金屬、輕量、透氣且味道芳香；不僅舒適，對金屬過敏的消費者更可以安心使用。外觀上則利用 Micro-Knifing 的技術，在不破壞皮革本質的原則下，將平面的牛皮切出仿如皮毛的立體效果。這是一塊兼具奢華時尚及趣味性的特殊皮革，它的強烈視覺效果會微妙的成為客戶產品的吸睛焦點，而帶來較高的附加價值。

## 評語

- 本標的將傳統皮革經特殊加工處理，並結合設計創意與美學概念使產品高值化、符合環保，其創新包括：
1. 無鉻鞣皮與植物染具環保性，可拓廣皮革衍生之市場商機。
  2. 微切皮技術不僅增加產品美感與附加價值，且加工技巧可使低成本原皮或瑕疵皮，得以掩飾與美化，可降低成本。
  3. 已通過歐規 LWG 認證，被選編入法國皮革飾品重要出版刊物《Peclers Paris》，對未來市場深具應用潛力。
  4. 本標的剛完成研發與量產，即外銷歐盟（法、荷等國）供作重要名牌皮飾品之皮革原料。

## Introduction

Pandora Hedgehog is more than a product; it is a work of art combining technology and craftsmanship.  
Our consistent principle is to set firm roots in Taiwan by growing strong through innovation and R&D. This time, with breakthrough from conventional codes, we challenged the leather fiber structure, and delivered an avant-garde design – We present to you PANDORA HEDGEHOG.  
Pandora Hedgehog is based on Metal Free leather which is a new green technology. It means no migratory metals are near our skin; and the leather is biodegradable at the end of its lifespan. The leather is light, breathable, and with pleasant leather smell. In addition to this new leather, we feature cut-out effect to give it interesting textures and a stronger visual dimension. A number of techniques have also been used to make the most out of its aptitude of being decorative, without spoiling its intrinsic qualities.  
While Pandora Hedgehog retains its sophistication, leather is dressed up to meet the needs of the uncompromising chic. This not only enhances the appearances of garments, shoes or bags but also delight their owners!!

## Commentary

The entry applies specific processing to traditional leather to increase product value and fulfill environmental protection with design innovation and aesthetics. The innovative features include:

1. Chromium-free tannery and plant dyestuffs are eco-friendly and can create new business opportunities in the leather market.
2. Micro-cut technology not only makes product look more beautiful and increase product value, but also covers up the defects of low-cost leather and defective leather to reduce cost.
3. Passed the EU LWG certification and included in Peclers Paris, an important French magazine for leather accessories; with great potential in market application.
4. The product has been exported to the EU (France and the Netherlands) as the leather materials for leading leather product brands immediately after R&D and mass production.



潘朵拉刺蝟  
Pandora Hedgehog



# 捷騰光電股份有限公司

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### 簡 介

Sbravo 超薄省電全彩 LED 看板，以室內應用為主，其 LED 間距為 6mm，每一顆 LED 是以三合一之全彩 RGB-LED 組成。本產品使用點對點的驅動方式作為電路設計，除了能將每一點 LED 驅動電流降到最低（省電）外，亦得達到最高的亮度，同時具有較高的可靠度與穩定度。本產品因具有重量輕、體積薄、易安裝與便利攜帶等特性，已能完全突破傳統對 LED 之印象而獨樹一格。此外捷騰光電股份有限公司 LED 看板簡化了傳統 LED 看板的連線系統，將播放系統與控制系統直接嵌入並結合在產品內部；換言之，只需將欲播放的內容準透過本產品免費提供的軟體轉檔後，即可輕易地將欲播放的內容透過 USB2.0 Cable 載入至產品內部的記憶卡並進行播放。同時，本產品內建環境光源感測器，看板能依環境亮度自動調整 LED 看板的亮度，達到節能省電之需求。

### 評 語

- 本標的可供室內及半戶外場所近距離（3 公尺以上）觀看廣告，與戶外大型看板市場有明顯區隔，具開創藍海市場潛力。
  - 具輕薄、容易攜帶與安裝之優點，且以模組化概念組合出各式產品與造型，相當有彈性。
  - 與國外廠商合作開發低電流 LED 驅動晶片，並應用於本標的中，可節省散熱裝置，達到產品輕薄化之目的，頗有創意。
- 已有銷售實績，中長期研究及營運構想相當具體，頗具國內外競爭力。

### Introduction

We named our LED screen as ezSignage (easy signage), it means that any complicated process is unnecessary for our LED screen since it's already embedded operation system and memory card, customer only need to upload your contents through USB Cable and save the content to the memory card for display. In another words, any extra PC or control system is not necessary for our ezSignage.

We use 3-in-1 SMD LEDs for our display, it's able to display more than billion colors. As the driving mode of our LED screen is point to point, it won't have any heat generation issue. Besides, each our LED screen built-in ambient light sensor which is able to detect the ambient light to adjust the brightness of LED screen automatically, the power consumption is much lower than any other LED screen in the market.

Sbravo LED screen with lots of advantages which will be the best choice for interior display.

### Commentary

- It's obvious to find the differences between Solteam's ezSignage and the others outdoor LED signage. Solteam's ezSignage is good for both indoor and semi-outdoor applications, which viewing distance is around 3 meters or longer. Due to the advantages of slim, portable, easy installation and modularization design, which with higher potential in creating blue ocean market.
- The LED driver IC that uses for ezSignage is cooperated with Japanese IC design house, which solved the heat issue to save the cooling device to achieve the purpose of slimmest and lightest design. Solteam has a specific aim in medium and long-term research and operation plan, which products are not only with a good sales record already but also with competition for the whole world market.



超薄省電全彩 LED 看板  
Full Color LED Signage ezSignage

# 萃茂複合材料股份有限公司

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### 簡 介

「EPO-RPC™ D1 快速成型環氧樹脂系統」，其樹脂系統主要用於汽車碳纖維複材部件的開發，並強調在中溫環境下可以快速成型，大幅縮短成型時間。綜觀下一階段世界汽車碳纖維部件發展趨勢，如何提高模具的使用週轉率 (High Cyclic Moulding)，變成大量生產汽車碳纖維複材部件的重要議題。「EPO-RPC™ D1 快速成型環氧樹脂系統」，成功將碳纖維複材的成型時間縮短至 3 分鐘內，並加入熱入模與熱脫模的產品特性，以簡化碳纖維複材成型的製程與時間，使其更具經濟效益。

### 評 語

- 本標的為中溫快速硬化之環氧樹脂碳纖維預浸材 (prepreg)。自創品牌 EPO-RPC™，已與汽車廠合作。可將 30 個金屬件，以複合材料一體成型為大型結構件。除顯著降低重量外，亦可節省零件組裝的時間成本。
- 達到快速硬化之重要創新是研發出新的增韌劑，依成型件大小和所需厚度，選擇適當溫度可在 3~10 分鐘內硬化成型，且具熱入模、熱脫膜特性。硬化之複合材料符合國際法規，例如 RoHS, REACH 等之要求。

### Introduction

EPO-RPC™ D1 is a toughened epoxy matrix designed for rapid cure requirement at medium curing temperature. This matrix is designed for high cyclic moulding composite manufacturing process such as the manufacture of automobile structures and 3C composite parts.

This resin system is applied on the prepreg method and can be cured at 150°C for 3 minutes and the cured parts will be able to demould immediately without cooling by cold press.

### Commentary

- This is a quick-hardening prepreg at Medium temperature for epoxy carbon fibers. Distributed under the original brand EPO-RPC™, the manufacturer has launched cooperation with automakers. The product can integrate 30 metal parts into a unitary mechanism with composite materials. Apart from significantly reducing component weight, the product can complete hardening and forming within 3-10 minutes with heat molding and separation characteristics.
- The hardened composite materials comply with international requirements, such as RoHS, REACH, etc.



EPO-RPC™ D1 快速成型  
環氧樹脂系統  
EPO-RPC™ D1 Rapid  
Cure Resin System



# 智高實業股份有限公司

## GENIUS TOY TAIWAN CO., LTD.



智高水力發電組  
WATER POWER

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### 簡介

智高水力發電組是一種發電積木，是一種利用水力加壓回收系統積木，這些常見於日常生活中的元素，都不會對環境產生污染，是一種兼具環保及發電的綠色能源。水力發電是以氣壓、水壓原理（“水”產生位能，動能轉換成機械能，將水力資源轉換電力能源。發揮創意設計水動力貨車及水動力直升機將水的位能轉換及動能原理），讓小朋友親手完成的作品可以在戶外或室內盡情地奔放！

### 評語

本標的是一種發電積木模組（15 款組合模型變化，屬優良的科學知識教材，可寓教於樂），利用水力加壓回收系統，以氣壓與水壓原理產生位能，又使動能轉換成機械能，將水力資源轉換電力能源。透過創意組合，可以讓小朋友親手完成的作品，在戶外或室內進行驗證、操控與玩賞。

### Introduction

WATER POWER a group of high hydro power generation building blocks, is a pressurized water recovery system using building blocks, these common elements in Richangshenghuo, do not pollute the environment, is an environmentally-friendly and green energy power generation. Hydropower is the air pressure, water pressure principle ("water" have potential energy, kinetic energy into mechanical energy, electrical energy to convert water resources. To play a creative design of water and water power vehicles water powered helicopters and kinetic energy conversion bits principle) to enable children to complete the work by hand in the outdoor or indoor enjoy unrestrained!

### Commentary

This is a generation block set (a good edutaining set with 15 combinations for science education). With a hydraulic pressure recovery system, the product generates potential energy with air and water pressure, and transforms kinetic energy into mechanical energy to convert water resources into electrical energy. Through creative combination, children can "create" their own works and experiment and enjoy them either indoor or outdoor.

# 萊碼創意科技股份有限公司

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### 簡介

「來嘛通」—雲端互動式行銷系統，是國內第一套根據「站內行銷」觀念創新開發，多方互動諮詢、站內精準行銷、網站數據分析三大主題功能，服務客戶無遠弗屆，立即回應掌握黃金服務 15 秒。

#### 多方互動式諮詢—整合行動通訊

提供文字、語音、視訊對談模式，有提示音效讓使用者在忙碌之餘不遺漏訊息。下班或離線時段，透過系統後台、E-mail 與手機簡訊通知客服人員，即時掌握訪客需求。

#### 站內精準行銷—廣告播送、客服便利貼

廣告播送可於全站或指定頁面播放最新消息。客服便利貼與客服 QRCode 讓互動諮詢無限延伸，顧客可透過 E-mail、社群網站、平面廣告、各式宣傳品，立刻與客服人員進行線上諮詢。

#### 網站統計報表—真實呈現站內數據

獨家專利精準計算網站流量，了解主要來源網站、訪客搜尋關鍵字、網站內每個頁面瀏覽次數與時間等數據，清楚得知訪客需求，有效管理廣告成效，讓每分錢擲地有聲。

### 評語

本標的為雲端線上即時行銷系統，提供業主一套具有下列特色的即時互動性高的雲端行銷服務。

- 提供訪客分析 Who、where、when、what，使業主即時了解訪客偏好，做為決策參考。
- 網站即時監控，化被動為主動，可主動提供文字、語音及視訊等 3 種邀請交談互動方式，使訪客變顧客，人潮變錢潮，提升業主的人力運用效益，節省人力成本。

### Introduction

W.A.S.S. is the first set developed based on the inbound marketing.

#### Interactive consulting- Consolidated communications

Provides text, voice and video chat mode, is in addition to busy not missed messages. Or work offline, newsletter, E-mail and mobile phone notification system through the background customer service, real-time understanding of guest needs.

#### Precision Inbound marketing-Advertising broadcast、Customer Service Sticker

Advertising broadcast can be specified in station or broadcast the latest news page. Customer Service sticker and QRCode interactive Advisory unlimited extension and customer service, customers will be able to E-mail, community Web sites, print ads, all kinds of publications, immediate online advice and customer service personnel.

#### Website statistics report-real rendering station data

Exclusive precise calculation of site traffic, understand the main source site, visitor search keyword, site within each data such as number of pages viewed and time, informed visitors needs, effective management of advertising effectiveness, so that every penny resonates.

### Commentary

This is a cloud real-time customer service system which provides business owners with real-time and highly interactive cloud marketing services with the following features.

- Real-time visitor analysis, including who, where, when and what, for business owners to immediately identify preferences of visitors for the reference of decision-making.
- Real-time website monitoring turns passive into active and provides three ways for business owners to invite visitors to chat: text, voice, and video. This way, visitors will become customers, and crowds will equal cash flow. This also helps business owners to enhance labor efficiency and save labor cost.



雲端互動式行銷系統  
Web Active Service  
System (W.A.S.S.)



# 意庫行銷諮詢股份有限公司

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### 簡介

到了 2011 年的今天，敦煌印象的傳承，其實並沒有消失或停滯，我們試著應用最新的數位科技與互動影像技術，演示敦煌繪畫藝術，透過這樣的互動呈現與演繹，試圖告訴年輕人，敦煌壁畫藝術還期待在未來透過更多創新的技術與呈現，讓更多人或是更多外國人了解多元的中華文化！

### 評語

本標的為整合實體與數位 3D 的展覽方式。主要和著名敦煌臨摹畫家合作，建立了數位化的展示及方法，並運用多項 3D 技術展示敦煌壁畫作品。已在台北市進行過展覽，目前正擴充至高雄與日本進行展覽中，本標的結合文創與科技具有創意。

### Introduction

At present, Dunhuang culture never disappears. Passing it from one generation to another still continues. We have applied the latest digital and interactive imaging technology to show Dunhuang paintings. Hopefully, more people will appreciate the diverse, rich and beautiful Chinese culture.

### Commentary

This is a solution for integrating physical and 3D digital exhibitions. The manufacturer teams up with famous replica artists of Dunhuang to create a digital demonstration and method using different 3D technologies to display the murals in Dunhuang. An exhibition has been held in Taipei, and exhibitions in Kaohsiung and Japan are under planning. This solution is creative for its integration of the cultural and creative industries and IT industry.

# 楓盛資訊股份有限公司

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### 簡介

響應政府節能減碳政策及綠色環保之概念，主要針對高用水之裝置或場所內之水質，藉由 ICT 技術的導入達到自動化水質處理機制，改善以往固定時段派員抄錶、定時定量施加藥劑等無法即時處理模式，並將量化數據統計資料遠端即時監控化，提供全天候即時監控檢測，降低結垢現象，提升節水節電效益，並可量化出節約能源數據。

### 評語

- 本標的以自動化技術監測水質，並依監測數據調整藥劑用量來清除水垢，因而達到省水、省電、避免人工誤差以及節省藥劑量之目的，頗有應用價值。
- 本標的建置成本不高，容易回收。
- 目前已有一家百貨公司的冷卻水塔使用此系統，效益佳，後續若有良好推廣模式，應有一定市場潛力。

### Introduction

Responding to energy saving and carbon emission reduction, as well as environmental protection concepts promoted by the government, the system mainly addresses the quality of water within high-water-consumption devices or organizations. The ICT technology accomplishes automated water treatment that rectifies the disadvantageous conditions in the previous processes where the meter reader checked at a set schedule and the chemicals were administered to the water at fixed intervals and dosage where immediate treatment was unachievable, providing real-time monitoring of quantified statistics remotely. The 24-7 real-time monitoring, inspection, and test process reduces the scaling extent in the water and elevates water and energy saving performances. In addition it enables the quantified output of corporate energy saving data.

### Commentary

- With automation technology, the entry monitors water quality and adjusts the content of solution for cleaning water according to the monitored data. Therefore, it saves water and energy, prevents human operation errors, and adjusts chemicals in the solution automatically. It is great for commercial application.
- The construction cost of the product is not high, and the cost recovery time is short.
- At present, the system has been used in the cooling tower of a department store. As the efficiency is high, a higher market potential is expected with good promotional campaigns.



數位水質監控藥劑添加系統  
Digitalization of Water  
Quality Control and Chemical  
Administration System

繪動敦煌大展  
A captivating animation of  
The Great Dunhuang



# 葡萄王生技股份有限公司 Grape King Inc.

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## 簡介

本公司為全球首創以液態發酵技術生產樟芝，只需 14 天即可以 50 噸槽大量生產菌絲體，並以特殊條件誘導出 3 種高量三帖及高濃度之護肝及止痛抗發炎功效性成分 (Antrosterol)，特殊凍乾技術也使本品維持天然之深紅棕色，皆為其他公司所不及。更獨創每批發酵品進行急毒性試驗及指標成分含量檢測以確保品質，通過最嚴格之第三類安全性健康食品護肝認證 (A00182 號)，並發表四篇安全性論文；功能性方面，除有助於降低大鼠血清中 AST(GOT) 和 ALT(GPT) 值外，並已完成降低血壓及膽固醇之人體試驗。

## 評語

- 本標的以液態發酵方法量產牛樟芝菌絲體技術，建立 Adenosine 及 Sesamin 指標成份，有效控管原料品質。2010 年取得健康食品護肝功效認證（衛署健食字第 A00182 號）。
- 除液態發酵技術外，並有特殊冷凍乾燥技術，通過第三類安全性試驗及急毒性試驗，與功能性認證。
- 本標的之發酵槽自行設計，包括槽體、管路和電路設計，皆有經驗累積，生產具快速及節能特色。
- 由樟芝分離純化 Antrosterol，具護肝、止痛抗發炎功效（動物實驗），輔助西藥治療 B 型肝炎及調節血壓（人體臨床試驗）。

## Introduction

Grape King is the world first in liquid fermentation of *Antrodia cinnamomea* mycelium production. High concentration of Antrosterol, a hepatoprotective compound with analgesic and anti-inflammatory effects and three other triterpenoids can be induced under unique incubation conditions. Our freeze-drying technique can hold in the original maroon color of the mycelium. Each batch production follows an acute toxicity safety assessment and marker compound analysis for quality assurance. Antrodia King is a TFDA-approved Health Food (A00182) with a complete safety profile. Functions include reduce serum AST (GOT) and ALT (GPT) and lowering high blood pressure and cholesterol.

## Commentary

- The entry establishes the indicative ingredients, *Antrodia cinnamomea*, and executes the effective quality control on raw materials by liquid fermentation of *Antrodia cinnamomea* mycelia mass production. In 2010, it has acquired the TFDA (Taiwan Food and Drug Administration) Health Food Certificate No. A00182.
- In addition to the liquid fermentation technology, Grape King Inc.'s unique freeze-drying technique has been approved to the class-3 safety testing and acute toxicity safety assessment, as well as the functional test.
- The fermentation facility of this entry is designed by Grape King Inc., including the tank body, pipeline and circuit designs. With Grape King's rich professional experience, the designed facility not only provides fast fermentation production but also energy-saving efficiency.
- By separating and purifying Antrosterol from the *Antrodia cinnamomea*, the Antrosterol provides several functions, such as liver protection, analgesic, anti-inflammatory effects (animal test), additive effects with using Western medication for treating hepatitis B and regulating blood pressure (human clinical trial)

健字號樟芝王菌絲體膠囊  
Antrodia King

# 寧茂企業股份有限公司 Rhymebus Corporation

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## 簡介

寧茂所研發的輕型電動機車驅動器，乃配合三陽 ED1LU2 專案之成果，為國內唯一採用三相弦波電流控制的電動機車 (E-woo)，可產生對應油門命令之線性扭力，並由 CAN Bus 通訊依需求切換 P/N/E 三種模式，有效提高續航力與操控性；此外，透過減緩扭力瞬變來抑制聲頻噪音、限制輸入電流以避免電池過放電、具備完善馬達與驅動器溫度保護策略、提供車輛最高限速功能，打造整車高效率、低噪音、低震動、電池壽命長等性能優勢，其安全性、穩定性與可靠度均取得經濟部 TES 認證而實際於市面上販售，深獲消費者青睞。

## 評語

- 本標的為配合三陽電動機車所開發之專用馬達驅動器，採用低成本、高效率三相弦波電流控制，轉化電池直流電源為三相交流電源以驅動動力源之三相永磁馬達，深具獨特性。
- 本標的在硬體方面，除符合系統所需電氣規格外，更具有各種安全保護設計，軟體方面的設計透過 CAN Bus 通訊與行車控制器溝通，提升整車操控駕駛性。
- 運用變頻器設計方面的創新技術，如溫度過熱預警等專利，使標的具創新性，且整車已通過認證，並開始銷售。

## Introduction

The "Motor Drive for Light Segment E-Scooter", custom-designed by Rhymebus Corporation for E-Scooter for SYM, the unique Control System of Three-Phase Sinusoidal Current adopted for the electric scooter in Taiwan, reached to a remarkable achievement in the market.

E-Scooter control system is stabilized by the linear torque output, and the sustainability and operation are more efficiently by switching mode of P/N/E through the CAN Bus communications.

Moreover, the Drive provides temperature protection for both motor and drive by restraining acoustic frequency of noise to ease off the torque transient strike and limiting the DC current input and highest rotation ratio. The Scooter, with its qualities of high efficiency, low noise and low vibration, high safety and high stability, earns TES certification issued by Ministry of Economy Affairs.

## Commentary

- This is a motor driver developed for Sanyang electric scooters. It uses a low-cost and high-efficiency 3-phase sinusoidal current control to converts direct current from the battery into 3-phase alternate current to drive the 3-phase permanent-magnet motors. It is a quite unique design.
- In terms of hardware, apart from meeting the required electrical specifications, the product has various safety protection designs. In terms of software design, the CAN bus is applied for communication with the driving controller to enhance the overall control of electric scooters.
- The technology innovation with the inverter design, such as the patented high temperature warning feature, has made the product more innovative. The entire electric scooter has passed the related certifications and sales have begun.



輕型電動機車驅動器  
Motor Drive for Light  
Segment E-scooter



# 精磁科技股份有限公司 Plasmag Technology Inc.

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## 簡介

新世代 FTO 透明導電玻璃用途及說明

1. 傳統 ITO(Indium Tin Oxide) 材料瓶頸

- (1) 重要原料銦產量稀少，價格隨市場需求增大而日漸升高。
- (2) 生產設備昂貴，需在真空環境下用濺鍍法 (Sputtering) 來製作。
- (3) 材料較脆，用於觸控面板上部電極時較容易脆裂。

2. FTO 透明導電玻璃產品說明

- (1) FTO 材料與目前常用的 ITO 材料都屬於透明導電氧化物 (TCO) 材料。
- (2) FTO 是在氧化錫 (Tin Oxide) 中摻雜氟 (Fluorine)，稱為 Fluorine-doped TinOxide，簡稱 FTO。FTO 透明導電玻璃的製造，是在加熱玻璃上用噴霧熱裂解法塗佈一層 FTO 材料而成，在常壓下即可，不須真空設備，另材料成本亦較低，故可為較低成本之 ITO 代替品。
- (3) FTO 透明導電玻璃運用領域：觸控面板、冷光板、薄膜、太陽能電池、變色玻璃、LCD Display 電極、EMI 遮蔽、面發熱體、熱反射體、薄膜電阻器等。

## 評語

- 本標的為新型透明導電玻璃 (FTO 玻璃)，有別於傳統型透明導電玻璃 (ITO 玻璃)，本標的之導電氧化物具有較佳的材料品質，耐熱性佳，導電度更高。
- 本標的之製程具創新性，採低成本、高效率之熱裂解法，因此成本低，使產品價格極具競爭力。
- 本標的製程技術自主，並有專利保護。
- 本標的在半年間已有數千萬的銷售實績，前景看好。

## Introduction

The Transparent Conductive Glass is a key component in modern electronic products, For example, you may find it in Touch Panel, Thin-Film Solar Cell, LCD Display, OLED Lighting ...etc. The material, traditionally being used in such a kind of product is ITO (Indium Tin Oxide).

But the ITO material has the following disadvantages :

- (1) Scarcity of Indium Oxide, so the material cost is high.
- (2) Need the vacuum environment for manufacturing.
- (3) Easy fragile

Hence, it needs a new generation material to replace ITO . And FTO is just the right object to complete the mission !

FTO (Fluorine Tin Oxide) Glass is manufactured by Spray Pyrolysis Deposition (SPD), which only needs the atmosphere environment. The material cost of Tin-Oxide is lower, and also the equipment cost. Hence , using FTO glass to replace the ITO glass, will bring a big value in the world.

## Commentary

- The entry is a new generation fluorine-doped tin oxide (FTO) glass, which is different from traditional ITO glass. FTO has higher quality, better heat resistance, and greater conductivity.
- The process of production using the low-cost and high-efficient Spray Pyrolysis Deposition (SPD) process is innovative. Hence the cost is reduced, and the product price is more competitive.
- The process is self-developed and patent-protected.
- With a sales achievement more than tens of millions within the first six months, the future of the product is promising.

新世代透明導電玻璃產品  
New Generation Transparent  
Conductive FTO Glass

# 儀辰企業股份有限公司 Earth-Chain Enterprise Co., Ltd.

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## 簡介

採用創新磁極串、並聯模組化線路系統，讓客戶於加工大型工件或不規則形狀工件時，可依加工需求自由組合磁盤數量、位置及間距；不僅可克服大型工件及不規則形狀工件之定位困難情形、也解決了過多定位治具與加工流程繁複等夾持困擾，不但大幅降低加工成本，提升機台移動率，更擴增客戶市場競爭力。

## 評語

- 本標的採用特殊線路模組化系統，讓客戶於加工大型工件時，可自由組合永磁式電控磁盤、位置、間距，不僅可鑽孔、攻牙、銑溝槽、五面成形加工一次完成，也可解決客戶加工工件多樣化問題，及提升機台移動率。
- 具有快速夾持及五面加工無障礙等多功能特性，適用於銑床、車床、CNC 綜合加工機等機具。
- 獲台灣專利及台灣精品獎。

## Introduction

EEPM-C units are connectable to extend the magnetic area for customers' varied workpiece dimensions.

Suitable for clamping round type any workpiece machining on Vertical Lathe, Double Column Milling machine and CNC machine center with fast holding setting and 5 side machining.

It provides a more economic solution to hold varied size workpiece. Flexible units could be connectable to extend the magnetic area for customers' varied workpiece dimensions. Easy and convenient to clamp a workpiece, shortens clamping time.

## Commentary

- The product uses a special circuit and module system for customers to freely combine the electro-permanent magnetic chunk, position, and interval when processing big work-piece. Apart from drilling, tapping, groove-grinding, and five-side forming all at the same time, the product is a total solution for machining diversification and enhances machine mobility.
- Multifunctional and accessible including quick holding and 5-side machining suitable for use on lathes, machine tools, and integrated CNC machine tools.
- Obtained patents in Taiwan and won the Taiwan Product of Excellence Award.



永磁式電控磁盤－連結型  
EEPM-C



# 橙的電子股份有限公司 Orange Electronic Co., Ltd.

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## 簡介

「橙的電子」Orange Programmable Sensor System II (OPSS II)，包含 OE replacement sensor 原廠替代感測器與 ID Programmer 胎壓監測學碼機，其中：OE replacement sensor 原廠替代感測器突破各廠牌通訊協定 (Protocol) 差異，產品可以替代全球 95% 以上原廠感測器，不論何種車款及其搭配何種接收模組，在後服務市場更換感測器時，僅需利用「橙的電子」ID Programmer 胎壓監測學碼機學習 (Learn mode) 舊有胎壓感測器之 ID 碼 (Identification)，並將該 ID 碼完整的傳輸寫入 OE replacement sensor 原廠替代感測器，新的 OE replacement sensor 原廠替代感測器即可存有並設定為與舊有感測器相同之 ID 碼，進而能夠對應既有之接收模組，達成更換感測器之需求。

## 評語

- 本標的為一安裝在每一個輪胎內的 Sensor，直接測量輪胎內的氣壓、溫度，並以 RF 將偵測到的資訊傳到接收模組，藉由顯示介面顯示及警告，再搭配「學碼機」構成此編碼系統，可在替代件市場 (replacement market) 出售零件時，透過此系統非常簡易的操作來學習各廠牌之通訊協定及 ID 設定，零件的替換時間比原廠短。
- 本標的售價低 (約為原廠價 50%)，且品質高 (保固時間比原廠多 1 倍)。

## Introduction

"Orange Electronic" Orange Programmable Sensor System II (OPSSII) includes OE replacement sensor and ID Programmer. Especially OE replacement sensor conquers the difference of each manufacturer protocol and it could replace more than 95% of whole global OE sensors. No matter which car model and which receiver module, the use only needs to use Orange's ID Programmer to learn original sensor's ID and input the ID into new OE replacement sensor. Then new OE replacement sensor could be set same ID as original sensor ID to communicate with current receiver module and easy to change the TPMS sensors.

## Commentary

- This is a sensor installed inside the tire to measure tire gauge and temperature. The sensor also transmits the detected data to the receiver module via radio frequency to alert drivers through a display interface. The sensor will become a coding system by combining with an "encoder". The system can learn the communication protocol and ID settings of different brands through easy operation when parts are sold in the replacement market. This way, part replacement will be faster than the original automaker.
- The sales price is low (about 50% of the genuine parts) and the quality is high (double the warranty period of the original automaker).

# 翰沃生電科技股份有限公司 HIVOX BIOTEK INC.

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## 簡介

疲立寧電子酸痛貼片，成功創造疼痛舒緩市場的全新選擇。翰沃生電科技擁有 12 年醫材製造經驗，創新研發電子式的酸痛貼片，驚艷全球。本產品以低週波物理治療為設計原理，充分達到局部疼痛緩解，而且可重覆使用，與傳統低週波醫材最大差異，在於摒除傳統線材與多按鍵的設計，疲立寧的無線操作與雙按鍵使用，讓電療舒緩疼痛的效能，用輕鬆簡單的方式呈現給大眾，其不僅保持專業效能，也大大提升方便攜帶與即時舒緩的消費需求，如此創新傑出設計已被世界頂級優秀設計師一致推崇，並榮獲世界四大產品設計獎，包括「德國 2012 iF 產品設計獎」、「德國 2012 red dot 產品設計大獎」、「美國 2012 IDEA 產品設計銀質獎」、「日本 2011 GOOD DESIGN AWARD 大賞」與「台灣 2012 金點 Golden Pin 產品設計獎」。

## 評語

- 結合低週波和貼布技術創造輕薄短小之產品。厚度僅 1 公分，重 7.8 公克。其不用線材，以 PET 銀漿印刷取代，可操作 999 分鐘，以雙按鍵 (盲凸) 即可開 / 關機和強度調整。
- 輕薄短小和創新設計，材料使用少、製程步驟少、人工需求少、可創造高毛利。
- 本標的已獲多項設計獎：台灣金點設計獎 / 亞洲 G-mark product design/ 德國 iF product design Award/ 德國 reddot design award/ 美國 IDEA product design 銀座獎。
- 本標的已獲香港、大陸新型及德國新式樣專利。

## Introduction

Pennypad is based on electric physical therapy and traditional patch's concept as a natural method to relieve pain by cutting off pain gate and help to induce ENDORPHIN. Blending a concept of pain relief patch and electric stimulator, it is leading Pain Management to a new era. All components are integrated in a little core device. Target-oriented programs are built in individual devices with different programs; which covered General pain, Menstrual Pain, Neck&Shoulder Pain, Low Back&Back Pain...etc. It is designed and developed based on the demand of marketing and experienced clinical backup.

## Commentary

- It is a slim and small product made with the LF and patch technologies. It is only 1cm thick and 7.8 grams. Without the need of cabling, conductivity is achieved with PET silver coating printing to ensure operations up to 999 minutes, and double buttons (blank flange) as the power switch and strength control.
- Slim and small innovative design using less material, less processes and less labor to increase gross profit.
- The product has won many design awards: Taiwan Golden Pin Design Award, Asia G-mark Product Design Award, Germany iF Product Design Award, Germany Red Dot Design Award, and the Silver Trophy from the US IDEA Product Design Awards.
- The product has obtained utility model patents from Hong Kong and China, and design patents from Germany.



疲立寧電子酸痛貼片  
pennypad electro pain relief pad



# 環保之家生物科技股份有限公司 INVICTUS INTERNATIONAL CO., LTD.

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inaTrap 捕蚊達人 光觸媒捕蚊器  
inaTrap Photocatalyst Mosquito Trap

## 簡介

inaTrap 捕蚊達人光觸媒捕蚊器設計靈感來自於宋代青瓷，以簡約謙樸帶出純淨輕盈的新氣息，在線性線條間，展現謙為和納真純的文化底蘊，在剛柔並濟中形塑出靛如青采四方的雅致魅力。同步利用 CCFL 冷陰極管模擬人體體溫，加上光觸媒產生二氧化碳模擬人體呼吸，三方面同步吸引蚊蟲，比起傳統式電極捕蚊器能更有效的吸引蚊蟲，並可針對不同蚊種更有效進行誘捕。

## 評語

- 本標的藉紫外光波長、二氧化碳濃度及近人體體溫三大關鍵因素增強誘蚊效益，並研發出新一代捕蚊器。機構設計上，除吸引蚊子靠近外，亦使用低噪聲風扇搭配渦輪式防逃網，以空氣流率最佳化的內結構配置（18 度角）考量，大幅減低風阻，強化吸入及風乾效果。
- 機身採卡扣無螺絲組裝設計，可節省生產和維修時間，降低成本達 15%。耗電僅 5w，具節能特性。
- 兼具功能和美觀之創新特色，並採吸入式補蚊方式而無電擊火花，受歐美地區青睞。獲有台灣新型、新式樣及美國新式樣專利，並通過歐盟 CE/RoHs 無鉛認證。

## Introduction

Mosquito trap has a new interpretation. The beauty of inaTrap mosquito trap lies in its elegant simplicity. Inspired by porcelain, eastern oriental elements design with vivid colors creates the environment with unrivaled temperament. It not only looks fabulous, it takes care of business. It combines the benefits of long-lasting CCFL with nano-photocatalyst coating technology. With no hazard electric shock, it lures and traps mosquitoes by a combination of CCFL UV light, carbon dioxide from photocatalytic reaction and heat from UV light. Long lasting CCFL UV light produces intermittent light at oscillating frequencies selected to coincide with spectral sensitivity peaks for many mosquito species.

## Commentary

- The product enhances mosquito attraction with UV, CO2 density, and near-human-body temperature to develop the new-generation mosquito trap. In mechanical design, apart from attracting mosquitoes to approach the trap, a low-noise fan is equipped to create a turbine web to suck mosquitoes to the trap. This turbine web is designed according to the most efficient structure (18°) to reduce wind drag and thereby to enhance the suction and drying effect.
- The entire trap uses a pin-clip design with needs no screw for assembling to reduce production and maintenance time, thus reducing cost by about 15%. The low electricity consumption at only 5W can save energy.
- The product is also innovative in functionality and appearance design. It is a suction mosquito trap that contains no spark from electric shock. Therefore, it attracts European and US consumers. It has also won the utility model patents new-style and design patents in Taiwan and design patents in the USA.

# 騎士堡國際事業有限公司 Kidsburgh International Co., Ltd.

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## 簡介

「騎士堡兒童育成中心」創立於 2010 年 7 月，是一家以兒童體能、創意以及品格教育為核心的體驗教育服務平台，主要設點通路為購物中心及百貨公司。透過創新情境式的大型樂園，吸引 12 歲以下孩童參與遊戲以及體驗課程。除了遊樂設施外，亦設計規劃有體適能課程、舞蹈課程、品格體驗課程及培養創造力的 DIY 課程，以活潑的教學方式，結合主題式情境，將品格、創意、藝術、舞蹈及各項教育元素融入課程及遊戲中，讓孩童親身體驗，引導孩童從遊戲中學習，體現騎士堡「玩出品格、玩出健康、玩出創意」的品牌精神。

## 評語

- 本標的經由遊具創新、課程創新，寓教於樂，結合設立於百貨商場。
- 以童話故事為本設計硬體設施，搭配老師帶領小朋友說故事及其他活動，達到品格教育之目的。

## Introduction

Kidsburgh was founded in July 2010. It is an education-experiencing platform that focuses on children's physical fitness, creativity, and character building. With innovative large-scale amusement facilities, we have attracted children under 12 years old to participate in the game and curricula. In addition to amusement facilities, Kidsburgh also combines abundant curricula. With different themes, we incorporate character, creativity, arts, dance, and other educational elements into curricula and games, allowing children to enjoy, guiding them to learn from playing, and realizing Kidsburgh's brand motto "play as you build character, play as you gain health, and play as you foster creativity". Learning through play for children's character, health, and creativity.

## Commentary

- The entry combines toy innovation, curriculum innovation, edutainment, and availability at malls.
- The fairytale-based hardware design with the storey-telling and other activities guided by the instructor, the entry achieves the goal of character education.

騎士堡兒童生活教育體驗  
創新服務模式  
The innovative service  
model for Experiential  
Education for Children  
Life at Kidsburgh



# 瀛海國際股份有限公司

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### 簡介

一個節能環保、獨特設計的煮水壺，是世界上第一個可摺疊的茶壺。矽材壺身與不銹鋼底座適用任何可加熱的熱源上，例瓦斯爐、電磁爐。1.2 公升的容量，摺疊後高度從 14 公分壓縮為 5.5 公分。產品符合國際食品容器安全檢驗標準。矽材阻熱的特性使其能使用最小的能源與最少的時間達到煮沸水的功能以達節能減碳的目的。

創意創造價值，矽纖摺疊壺創造飲茶文化中的精緻藝術，體現了傳統與現代的融合，延續中國傳統飲茶文化的精神並注入現代人對生活品味的要求，突破傳統水壺使用的侷限性，無論是家用、戶外休閒，矽纖摺疊壺代表的是一個新盛器時代的誕生！

### 評語

- 本標的以矽膠複合材料為壺身，尼龍 66 加纖為把手，不銹鋼為壺底，經機械製程加工組裝而成。主要創新與實用特性為：節能減碳（煮沸水時間僅一般金屬壺之半）、摺疊收合易於存放與攜帶、抗 UV、具色彩豐富性及安全使用..等。
- 本標的已通過 ISO 9001、ISO 14001、LFGB(歐規食品容器)、使用矽複合材料受歐美地區青睞。運用面擴及禮贈品市場，亦獲有 FDA、JFDA、KFDA、French Standard...等認證。且獲得 2012 年德國 iF 設計獎、美國 IDEA 設計獎、台灣金點設計獎及香港 2012「我最喜愛新家品」十大票選榮譽。

### Introduction

This truly unique design is the world's first fully collapsible kettle. The kettle flat packs to less than 5.5cms from an extended height of over 14cms! Made with a stainless steel base and silicone body, the product has a built in safety catch in the handle that ensures that the lid is kept firmly closed until the kettle needs re-filling. With a capacity of 1.2 liters, the kettle will brew 4 cups of tea or coffee. The materials are all LFGB or French standard food safe. The stainless steel base allows the kettle to be used on most sources of heat including gas, electric induction and electric cooker, and the silicone material used for the construction of the body of the kettle is stable from -40° C to +230° C, making it very safe to use for boiling water. This versatile, durable and light product packs into the smallest of spaces and is idea for camping, caravanning, sailing, or even in the

### Commentary

- The entry has a body made with silicone composite material, a fiber handle made with nylon 66, and a stainless steel bottom. These parts are assembled by means of mechanical processing. The innovative features and practicality include: energy-saving and carbon reduction (it takes only 50% time of conventional metal kettles to boil water), foldable for easy storage and portability, UV protection, colorful, and safe to use...
- The entry passed the certification of ISO 9001, ISO 14001, and LFGB (German Food and Feed Code). The use of silicone composite material is appraised by European and US consumers. The product has a wide range of applications, including as a gift. In Taiwan, the product has passed the certification of FDA, JFDA, KFDA, French Standard, etc. It has also won the German iF Design Award 2012, the US IDEA Design Award, Taiwan Golden Pin Design Award, and the Top Ten My Favorite New Homeware from the Hong Kong Homeware Fair 2012.



矽纖摺疊休閒壺  
Collapsible Kettle



# 第19屆 中小企業創新研究獎

The 19<sup>th</sup>  
Taiwan SMEs  
Innovation Award

申請須知



### 一、目的

為鼓勵中小企業從事創新研究發展、提升技術與服務水準、增強競爭力，特訂定「中小企業發展基金獎助中小企業創新研究要點」。針對持續以有組織、有系統之方法，自行從事創新研究而有具體成效之中小企業，甄選較為傑出者予以適當之獎勵，以期技術生根，進而達到產業升級與健全發展之目的。

### 二、申請資格

#### (一) 獎勵對象

合於行政院核定「中小企業認定標準」且目前仍在營運中之中小企業，其民國 100 年之研發費用佔營業淨額比例不得低於 2.0%。

#### (二) 獎勵範圍

自行研發之創新性產品、技術、製程、流程、服務(包含技術服務、知識服務、商業服務)等項，於民國 100 年完成，並已商業化運用或量產者。

註：申請獎勵之標的如已(曾)獲得政府機關補助款(如主導性新產品開發輔導計畫、協助傳統產業技術開發計畫、中小企業即時技術輔導計畫、數位內容產業發展補助計畫、小型企業創新研發計畫、業界開發產業技術計畫、創新科技應用與服務計畫、協助服務業研究發展輔導計畫、創新技術研究產學合作、高科技設備前瞻技術發展計畫、農業生物技術研發成果產業化計畫、促進農業企業研發輔導計畫等)不得申請，但其獲得補助並執行完畢後，再自行創新及研發程度高者，不在此限。

### 三、獎勵方式

(一) 申請標的未曾獲政府機關其他獎項獎金且該企業前一屆未曾獲本獎獎金，經評審通過者獲頒獎狀及獎助金新台幣 30 萬元正，以 30 名為限。其中以員工數認定之中小企業得獎名額以不超過 15 名為限，確實得獎名額視申請審查情況核定(獎助金須依稅法相關規定辦理扣繳)。

(二) 申請標的已(曾)獲政府機關其他獎項獎金者(如科學工業園區-創新產品獎、國家發明創作獎等)或前一屆已獲本獎獎金之得獎企業，經評審通過者獲頒獎狀，以不超過 10 名為原則。

(三) 同一企業當年度同時有兩項(含)以上之標的獲獎，僅頒發 30 萬元獎助金，不得累加獲獎金額。

### 四、申請手續

#### (一) 申請方式

- 檢附申請資料紙本一份、光碟一片，申請書請以電腦繕打，以 A4 規格裝訂整齊，另以電子檔形式儲存於光碟(含附件掃描)交寄，申請資料概不退件。
- 建議採通信方式報名，請將申請資料掛號郵寄至「106 台北市羅斯福路二段 95 號 6 樓 創新研究獎工作小組收」
- 網路下載申請書請至經濟部中小企業處([www.moeasmea.gov.tw](http://www.moeasmea.gov.tw))、中華民國全國中小企業總會([www.nasme.org.tw](http://www.nasme.org.tw))及創新研究獎專屬網站(<http://tsia.moeasmea.gov.tw>)，或洽詢經濟部中區、南區聯合服務中心，各縣市政府中小企業服務中心取得申請書。
- 洽詢電話：(02)2366-0812 分機 168 創新研究獎工作小組 施小姐。

#### (二) 送審資料

- 申請書
- 公司登記資料影本  
(可逕行至全國商工行政服務入口網 <http://gcis.nat.gov.tw> 查詢列印)

#### 3. 工廠登記證明文件影本

註：場地面積未達 100 平方公尺且廠房面積未達 50 平方公尺且電力容量、熱能(馬力與電熱之合計)未達 2.25 千瓦之小型製造業者免附，惟需檢附切結書。

#### 4. 申請獎勵標的之商業化或量產之相關證明文件影本(於 100 年 1 月 1 日至 101 年 5 月 25 日前銷售之發票、合約書、訂單等，若為醫療或食品需檢附相關主管機關核可之證明文件)

#### 5. 其他申請獎勵標的之相關證明文件影本。(如：專利、獲獎記錄、標準、認證、著作權、相片及型錄等〔請參選廠商儘量提供〕)

#### 6. 以員工人數認定之中小企業，請附 100 年 1~12 月勞保局核發之「勞工保險局保險費繳款單及明細表」影本。

註：以資本額或營業額認定之中小企業免附。

#### 7. 100 年度營利事業所得稅結算申報書影本。(包含資產負債表及損益表；此項資料最遲應於 101 年 6 月 15 日前掛號寄達)

#### (三) 申請期間

即日起至 101 年 5 月 25 日 18:00 止(通訊寄件以掛號郵戳日期為憑)。

### 五、評審

#### (一) 評審方式

分為資格審、初審與決審 3 階段：

- 資格審：由創新研究獎工作小組進行基本資料審查。
- 初審：由初審委員會進行書面審查，並視實際狀況需要，派員實地查核。
- 決審：由決審委員會進行書面審查，並決定得獎名單。

#### (二) 評審標準

基本評審項目及權重：

- |                             |      |
|-----------------------------|------|
| 1. 申請獎勵標的之創新性 .....         | 35 % |
| 2. 申請獎勵標的之實用性 .....         | 35 % |
| 3. 申請獎勵標的之國內外競爭力 .....      | 20 % |
| 4. 申請企業之目前及中長期研發構想及營運 ..... | 10 % |

100 %

#### (三) 評選原則

當申請標的之評審積分相若時，以未曾獲本創新研究獎之企業優先考慮，惟仍由評審委員會議決之。

### 六、得獎企業之義務

得獎企業有配合蒐編專輯及參加頒獎典禮、成果展示會與中小企業創新研究獎聯誼會等相關活動之義務，得獎企業若經查證有違反本須知規定或不實陳述者，其獎狀及獎助金應繳回，並自負法律責任。

### 七、其他

得獎名單預計於 101 年 11 月公佈，並以專函通知所有申請企業。



## 附錄 1: 行政院核定之中小企業認定標準相關規定

- ◆ 中小企業係指依法辦理公司或商業登記，並合於下列標準之認定：
  - 一、製造業、營造業、礦業及土石採取業實收資本額在新臺幣八千萬元以下者。
  - 二、除前款規定外之其他行業前一年營業額在新臺幣一億元以下者。
- ◆ 另就經常僱用員工數為中小企業認定標準，則不受前項規定之限制：
  - 一、製造業、營造業、礦業及土石採取業經常僱用員工數未滿二百人者。
  - 二、除前款規定外之其他行業經常僱用員工數未滿一百人者。
- ◆ 具有下列情形之一者，視同中小企業：
  - 一、中小企業經輔導擴充後，其規模超過第二條所定基準者，自擴充之日起，二年內視同中小企業。
  - 二、中小企業經輔導合併後，其規模超過第二條所定基準者，自合併之日起，三年內視同中小企業。
  - 三、輔導機關、輔導體系或相關機構辦理中小企業行業集中輔導，其中部分企業超過第二條所定基準者，輔導機關、輔導體系或相關機構認為有併同輔導之必要時，在集中輔導期間內，視同中小企業。

## 附錄 2: 申請標的物分類定義標準

類 別	定 義
資訊與電子類	含通訊設備、電腦通信、資訊軟體、資訊硬體、消費性電子、半導體製造、電子機械器材製造修配、視訊產品、視聽電子製造、電子零組件製造、光電器材、積體電路設計、其他電子資訊製造等資訊與電子相關之標的。
機械與自動化類	含機械設備製造、運輸工具製造，模組開發製造、航太製造、自動化機械、物流 / 倉儲設備、動力傳動 / 制動設備及零組件等機械與自動化相關之標的。
材料與生技類	含生物化學、纖維材料、工程塑膠材料、金屬材料合金、鑄造材料、化學品製成、生化技術、藥品製造、食品加工製造、醫療器材等材料結構製造及生化科技等材料與製程相關之標的。
服務類	含知識服務、技術服務與商業服務模式等，其成功經營模式、服務方式或行銷方法具有前瞻性、示範性及可提昇工作效率之標的（例如：環保服務類、能源服務類、檢測服務類等）。
綜合類	含一般民生用品、消費性產品、創意設計及非前述類別之申請標的物皆納入綜合類之範圍。

註：請企業先依上列分類定義填寫申請之標的所屬類別，審議過程中評審委員會得依標的內容與性質做最後確認。

## 決審委員名單

總召集人：

葉雲龍 經濟部中小企業處 處長

王美花 經濟部智慧財產局 局長

王鉞波 中小企業信用保證基金 董事長

沈榮津 經濟部工業局 局長

林全能 經濟部技術處 處長

林秉彬 中華民國全國中小企業總會 理事長

徐爵民 工業技術研究院 院長

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張俊福 經濟部國貿局 局長

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游瑞德 經濟部商業司 司長

顏宗明 行政院國科會  
新竹科學工業園區管理局 局長

(上述名單除召集人外，依姓氏筆畫排列)

## 初審委員名單

召集人：

鍾乾癸 長庚大學資訊工程學系 教授

王輔卿 工研院資訊技術服務中心 主任

宋開泰 交通大學電控工程研究所 教授

宋震國 清華大學動力機械工程學系 教授

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陳啓祥 財團法人生物技術開發中心  
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詹文男 財團法人資訊工業策進會  
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詹炳熾 財團法人精密機械研究發展中心 總經理

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蔡幸作 財團法人醫藥工業技術發展中心 顧問

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蘇宗燦 工研院材化所 所長

(上述名單除召集人外，依姓氏筆畫排列)



# 第19屆 中小企業創新研究獎

**The 19<sup>th</sup>  
Taiwan SMEs  
Innovation Award**



## 得獎專輯

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出版日期：中華民國 101 年 11 月

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