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MIYO Technology

Professional Heating Solution Provider

關於我們 / About MIYO

At the request of customers in need of a reliable source of customized heating element, MIYO was established in year 2001, a young aggressive company.

- Aim to be the best at what we do and the field leader in heating applications.
- Gathered a team of dedicated professionals from the electronics and heating industry.

The experience within this team enables MIYO being not only manufacturer but also assistance in the development of customer's requirements. In the past years, we have successfully suggested alternative method or improvement to our customers enabling cost saving and better solution. As the forefront of leading role, we actively explore new materials and technology to apply for heating applications. We welcome customers to visit our factory by asking, looking and seeing our process in action. It is our belief to build long term relationships with customers, and we can only achieve it according to MIYO's core philosophy "Do It Right First Time".

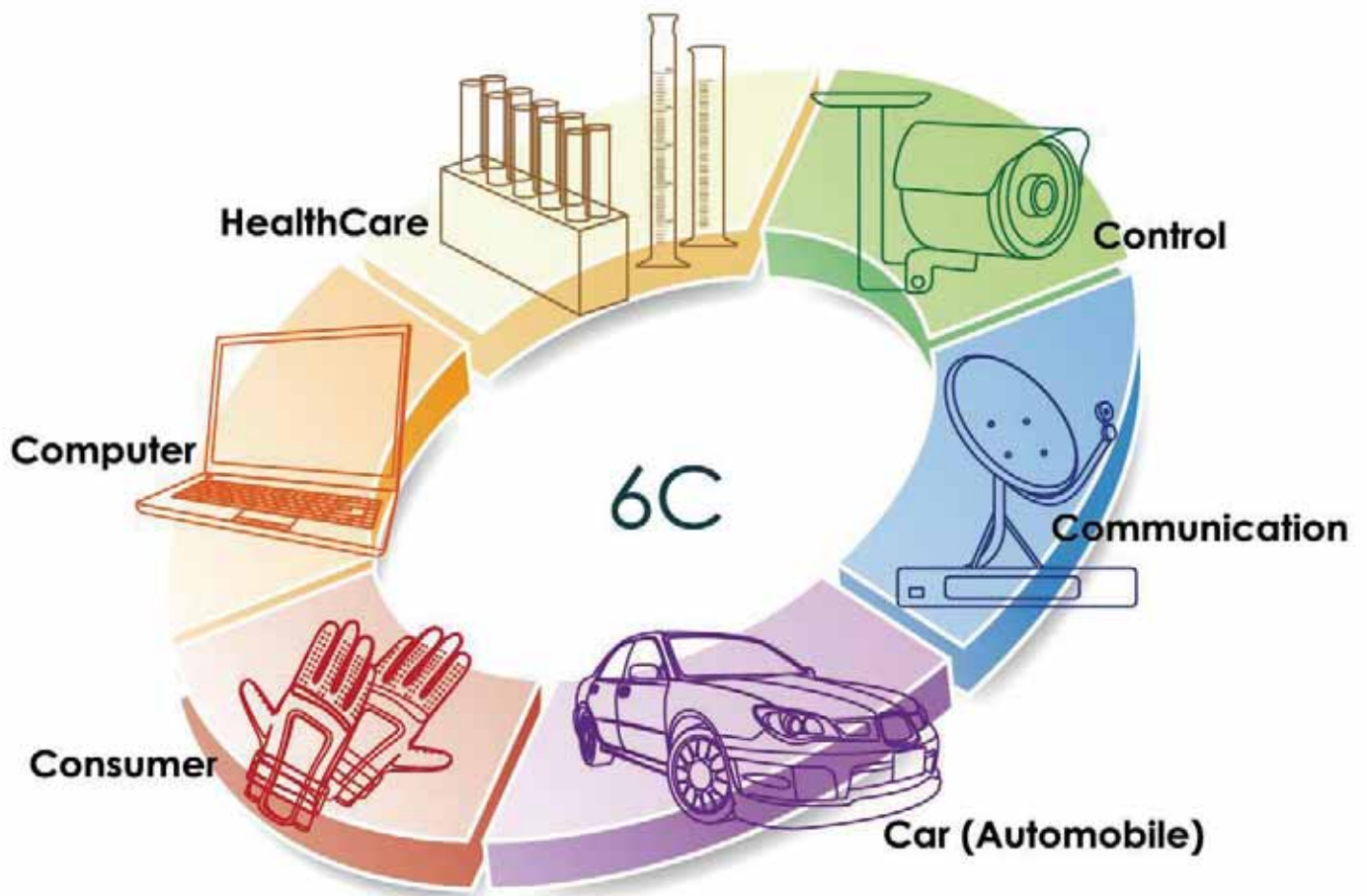
我們係一個充滿創新活力的科技團隊，自行開發生產印刷軟式、超薄且具有溫度調控之軟式電熱片 (Flexible Heating Element)，由於其超薄超軟、自我調控溫度及PTC快速加溫之產品特性，廣泛被採用於汽車後視鏡除霧片、浴室除霧鏡、工業儀器儀錶除濕保溫、家居保暖、保健美容、電子及醫療裝置及其他產品應用上。



To achieve the high quality required by our customers, we purchase only the best raw materials from recognized

suppliers unless the customer states their own preferred vendors and then of course we will comply with this request. Our core policy is to ensure that all products, which leave our facility, meet the degree of excellence deserved by our customers. The Quality Management System of MIYO has been audited and is compliant with the requirements of and is registered to ISO 9001:2000.

我們生產的軟式電熱片，除具備超薄、超軟的特性外，經由特殊的線路設計，目前已獲得中國大陸專利 (#530650) 並於西元2001年通過歐規CE認證 (#CE360706)。產品線路採用複合式設計，使產品形成無數區塊 (Block)，每一小區塊自成一單獨“細胞”，縱使因使用不當而致有部份毀損亦無損及其他區塊的功能；除此之外，因產品使用真正溫度係數特性之材料，使其具有自我調控溫度之特性。也就是說，當使用於低溫環境時，其產生功率較高，藉以達到溫度迅速爬升之目的；反之當溫度升高時，其阻抗隨之增大，電流降低且功率亦隨之降低，如此一來便可達到恆溫控制之目的。



Our commitment to improving our capabilities and strategic flexibility will continue to provide our customers with new opportunities. Strong engineering support, high reliability, low cost, and on-time delivery is our commitment to helping our customers achieve their time to market.

我們的經營核心價值為誠信 (Integrity)、創新 (Innovation) 與承諾 (Commitment) - "Do It Right First Time"，營運策略建構於準確的市場行銷策略 (Market)，卓越的生產製造能力 (Make) 及不斷創新研發 (Create)。我們已於西元2003年通過ISO 9001:2000品質認證，藉由公司內部標準作業流程之建置與人員訓練發展之提升，期盼能提供整體解決方案以符合客戶端之需求與滿意。

Car (Automobile)

汽車後視鏡

Side rearview mirror Heater

For the car and truck aftermarket industry, use MIYO's heating system. Embedded in side rearview mirror, provide the defogging, deicing and defrosting solution which incorporates self-regulating characteristic, PTC (Positive Temperature Coefficient) technology generating a higher wattage heat at sub-zero temperature, giving the driver a clear view and enhanced visibility for extra safety.

汽車後視鏡電熱片具有除水、除霧、除霜、除雪等功能，普遍應用於卡車、休旅車及轎車，目前我們為台灣唯一OEM指定供應商，生產之後視鏡電熱片具PTC（正溫度係數）自動溫控調節特性，在低溫環境下產生較高的功率，以更快速的加熱除霧效能，確保駕駛人行車安全。



RV水箱與排水管路

Water tank and pipe Heater

If your exposed drain pipes and elbows of RV's tank are not protected the solid waste and waste water they contain will freeze solid in cold weather. Once your RV equipped the MIYO's Sponge Tank, Pipe and Elbow Heaters, and then your RV's drainage system will be protected from freezing and clogging in cold temperatures.

當戶外環境低於零下溫度時，將導致RV水箱及排水系統管路產生結冰現象，透過我們提供之解決方案，將電熱片包覆於水箱及排水管路上方，以獨創的保溫結構設計避免電熱片加熱之溫度流失過快，同時達到水箱與排水管路保溫及節省電源之功效。

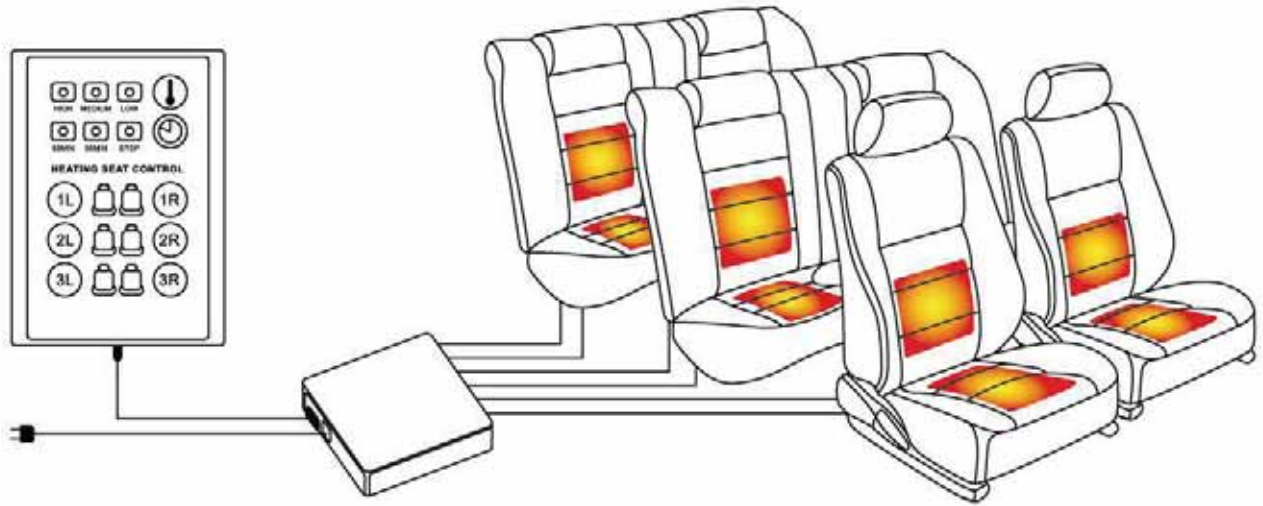
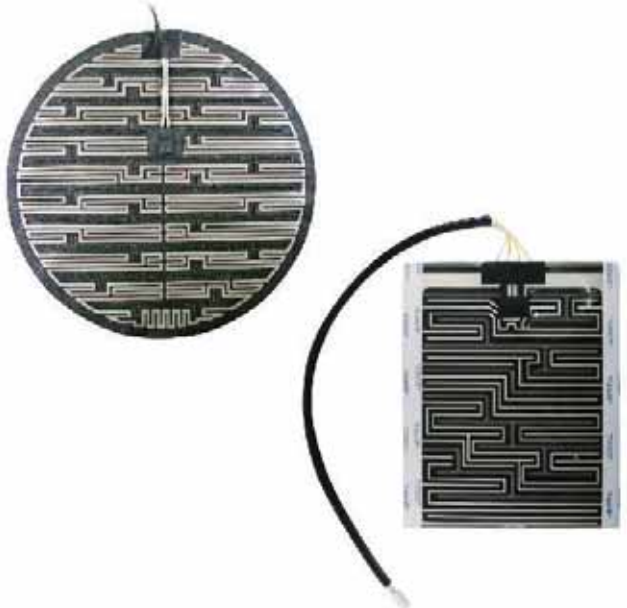




座椅 / Automobile and Household Seat Heater

Inside the car, MIYO has engineered tensile strength heating elements for assembly within car, truck seats, and back seats to improve automobile performance, safety and passenger comfort for long journeys. Not only apply to automobile, but also household applications to create an ideal climate and adding gentle heat to relax tense muscles in your back.

不論是車用或家用座椅保溫，本公司創新之抗張力強度設計，加上電熱元件之保溫效果，提供駕駛人及乘客在低溫氣候的行駛旅途中感到溫暖並增加行車舒適性，在一般氣候下保溫功能更可提供長途旅程中，讓使用者感到肌肉放鬆之效果。



Consumer



The healing effects of heat have been known for centuries. Especially in the area of health care, MIYO's thin-flexible heaters are used in foot-warmer and muscle massager to contribute to faster healing-processes and to our well-being. Cold weather sports equipment (skiing, ice fishing) laminate heating element inside, for instance of insoles and gloves, another leading edge technology from MIYO. The versatility of thin-flexible heaters assists designers in creating products that are high-performance, efficient and cost-effective for customers.

人類對熱療效果的瞭解已有數世紀之久，尤其在個人保健的應用上更是不勝枚舉。我們研發之超薄軟式電熱片，改良一般傳統電熱絲線狀發熱結構，以面狀發熱提高熱傳導效率、發熱均勻度、柔軟可彎曲之特性，目前廣泛應用於養生保健和運動休閒裝備市場，如電熱衣、鞋墊、手套等產品，搭配可攜式長效電池盒，提供客戶端更高效率及多樣化選擇之解決方案。

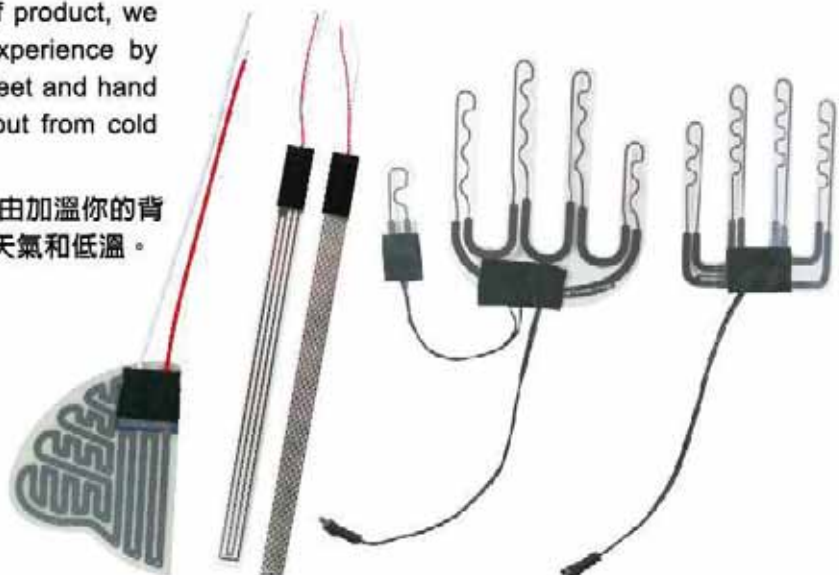
適用於人體之電熱產品

Human Body Product Applications

By our exclusive special design of product, we can provide you more comfort experience by warming up your back, shoulder, feet and hand to release uncomfortable comes out from cold weather and low temperature.

我們的電熱片特有的設計，能夠藉由加溫你的背部、肩、腳和手，讓你脫離寒冷的天氣和低溫。

- Clothes 電熱衣
- Gloves 手套
- Insoles 鞋墊



Health Care

醫療與生技之電熱產品

Healthcare & Biotech Product Applications

In most medical and biotech application, heat plays an important role and key component. MIYO Tech manufactures flexible heater, demanded precise functions to highly sensitive appliances, for medical electronics. Our reliable sheet-type heater provides effective solutions, incorporates wattage distribution exactly and uniformly. Combine with alternative selection of heating element, dielectric material and thermo control unit that fulfill all quality, security and cost efficiently requirements, often yields a competitive advantage for customer.

在多數的醫療及生技應用中，電熱總是扮演關鍵性的角色。本公司的軟式電熱片特別針對市場設計，致力於滿足您特殊的應用需要，精確的溫度控制、加熱過程的熱能分佈、熱傳導的均勻度、電熱元件及相關零組件可靠度都是不可或缺的設計要件。為提供客戶端更多的競爭優勢，我們提供多樣的材料、零配件及溫度控制元件以滿足不同的品質、成本與安全要求。



Communication

For mostly outdoor electronic machines and facility, they have to be guaranteed for any exterior temperature.

MIYO's heating system, embedded nearby the module which is weak to sub-zero degree, provide heating solution to exceed working temperature for weakness parts inside. MIYO's engineer will recommend electrical insulation depending upon the materials used in the customer's product, glass, plastic, coated or uncoated stainless steel, to ensure the entire performance meet customer's requirement.

大多數的戶外電子裝置及儀器均面臨在任何環境溫度條件下都能正常工作的考驗，而實際上有許多電子零件在低溫狀態下，會發生當機、效能降低或無法使用之情況以致於電子裝置及儀器失效。為克服此問題，我們提供之解決方案可將軟式電熱片貼附於會造成低溫異常之零件附近，考量客戶端所需加熱時間、被貼物加熱材質、相關機構限制條件，提出建議電熱片設計功率、材質組成及溫控元件，實務上透過電熱片產生之熱能傳導至電子零件，提升週遭環境溫度，避免相關零組件因工作溫度過低發生異常或失效。

無線模組

Wireless Telecommunication Applications

Adopt MIYO's solution to prevent interference of communication data reception due to cold temperature.

戶外無線網路裝置大多建置於高海拔或空曠地區，將電熱片貼附於會造成低溫異常之零件附近，藉由溫度控制器決定電熱片啟動及停止溫度，確保裝置於低溫環境下仍可正常工作。



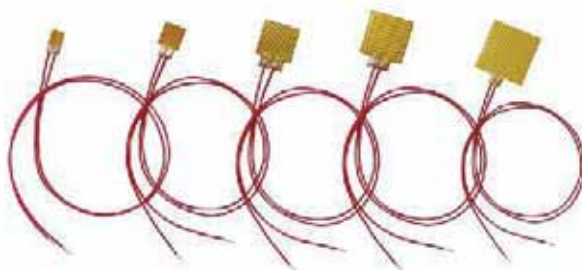
Computer

散熱模組

Heat Sink Module Applications

Play as a heat loading to simulate and inspect entire module performance.

提供散熱模組於設計及組裝測試時模擬穩定發熱源之電熱元件，以確認散熱模組效能是否符合設計要求。

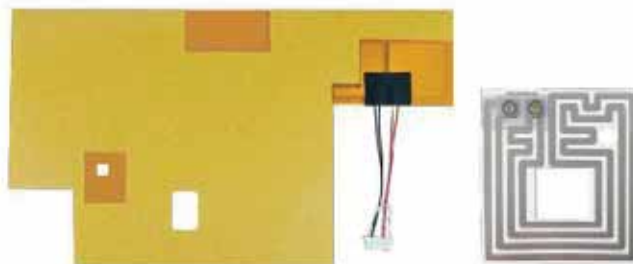


液晶螢幕

LCD Panel Applications

MIYO's thin-flexible heaters can be mounted behind the backlight module on outdoor LCD facilities and refrigerated product-handling vehicles to prevent cold temperature malfunction.

提供戶外或冷凍倉儲環境之液晶螢幕內背光模組於低溫狀態所需之工作溫度，避免因低溫造成無法點亮或效能不佳而導致無法螢幕顯影。

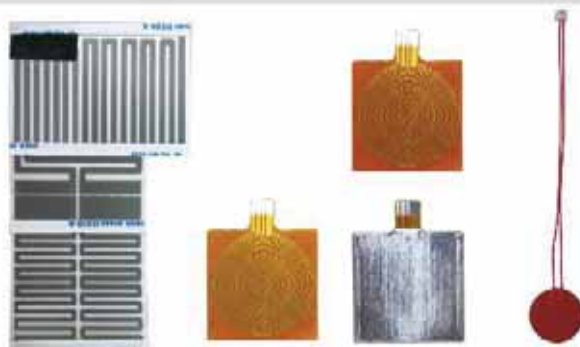


硬碟

Hard Disk Applications

For military specification requirement, laptops should be opened in few minutes in extreme cold-weather climates.

電熱元件應用於軍規筆記型電腦之硬碟加熱，當戶外溫度低於開機所需條件，電熱片於開機前啟動暖機，在一定時間內加熱至所需溫度，隨即斷電進入開機程序。

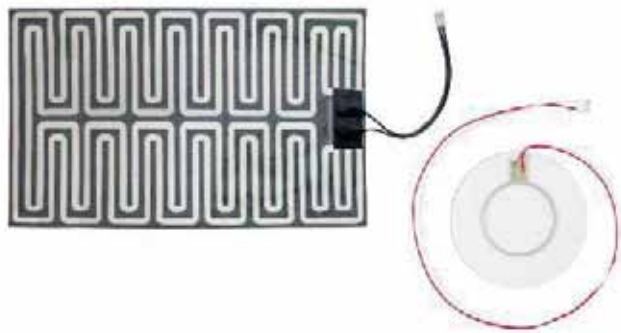


Control

戶外安控產品 / CCTV Monitoring System Applications

The heater is energized during cold temperature and rainy day to melt all ice or defog from glass.

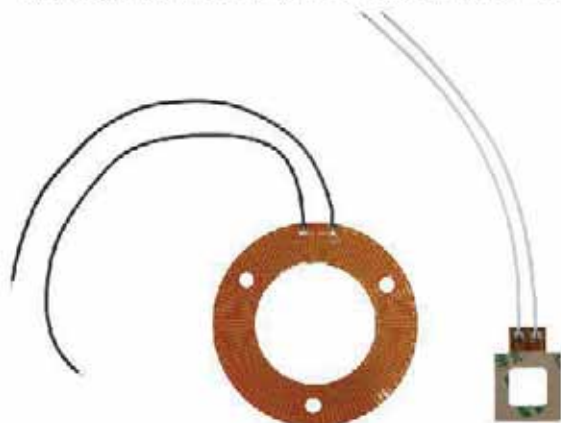
當戶外降雪或氣溫過低時，因戶外監視器機殼內部與環境溫度間溫差過大，導致玻璃表面產生霧氣而影響畫面品質，透過電熱片將熱源傳導至玻璃上，以達到除霧之目的。



戶外LED / LED Signboard Applications

LED Signboard located in extreme cold-weather climates are protected from snow and ice forming on their surfaces by MIYO's silicone rubber insulated heaters mounted inside.

當戶外降雪或氣溫過低時，因戶外LCD看板於工作狀態能提供之熱能有限，導致看板表面積雪或控制器內電子零件因低溫失效，本公司提供之解決方案可將看板機殼內溫度提升，達到看板表面除雪及控制器內電子零件工作溫度維持之目的。



Quality

品質管理 / Quality Management

Our laboratory are well-appointed, from Power Supply, Milli Ohm Meter, AC/DC Withstand Voltage Insulation to Temp / Humidity simulate chamber, in which we can build any environment for heater durability testing.

我們擁有設備完善的實驗室，實際送電測試電熱片於工作狀態下之運作，並可模擬電熱片在高溫或低溫的工作狀態。



Laboratory Reliability And Inspection Equipment
實驗室標準測試設備



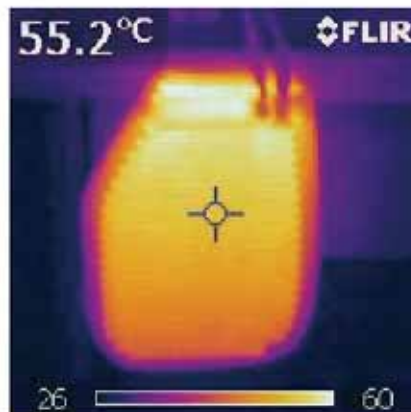
Laboratory Programmable Temp & Humidity Chamber
實驗室可程式恆溫恆濕機

FLIR system can provide infrared thermo graphy and inspection report showing temp distribution on our heat device.

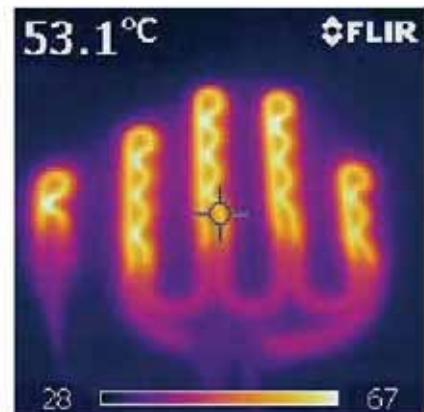
紅外線攝影機可於測驗電熱片送電時，測量出電熱片上溫度分佈均溫狀況，並提供溫測報告。



FLIR Infrared Image Camera
FLIR / 紅外線攝影機



Infrared image by FLIR
(Automobile Mirror Heater)
紅外線攝影機拍攝
汽車後視鏡影像



Infrared image by FLIR
(Glove Heater)
紅外線攝影機拍攝手套影像