

2019

**Pro'sKit®**

Professional Science Kits





**Pro'sKit® 科學玩具100%臺灣研發製造**，安全無慮，行銷全球20餘國擁有歐、美、日、澳、中國、臺灣...等多國專利註冊，並獲得多項歐美玩具與綠能獎項，學習與國際同步，產品更符合各國安全認證，ST安全玩具認證、中國CCC認證。讓我們一起用美學的角度、好玩的方式探索科學的奧妙。

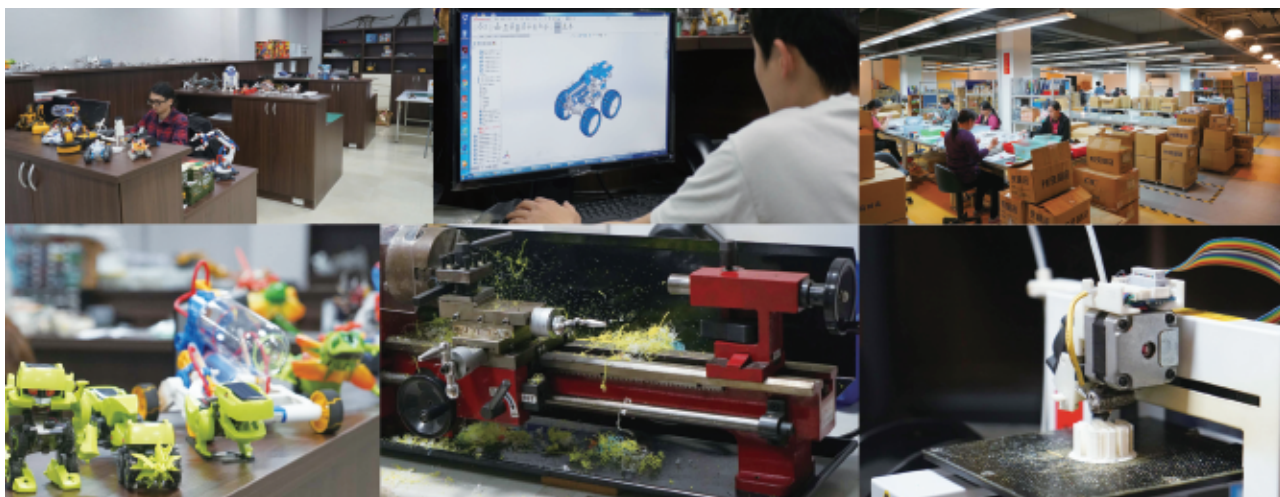
**Pro'sKit®** Science Kits, which have great reputation all over the world and have obtained patents in Europe, U.S.A., Japan, Australia, Mainland China, and Taiwan, are 100% made in Taiwan. Quality and safety is the foundation of **Pro'sKit®** Science Kit; all the **Pro'sKit®** Science Kits are certified by ST (Safety Toy) in Taiwan and CCC (China Compulsory Certification) in Mainland China. Furthermore, the products have even won a number of toys and green energy awards in Europe as well as in America. Now, it's time to explore science. Let's encourage our children always to wonder, explore, and find out more!

## Learning by Making Playful Learning

每個孩子都有潛力  
99%的努力+1%的啟發  
成就傑出天才

$$\infty \times 1 (\text{樂趣}) = \infty$$

$$\infty \times 0 (\text{樂趣}) = 0$$





# 是科學也是玩具

席捲全球的STEAM教育理念結合科學(Science)、技術(Technology)、工程(Engineering)、藝術(Art)、數學(Math)，鼓勵動手學習，發揮創作。**Pro'sKit** 科學玩具正貫徹STEAM理念，讓孩子們快樂學習，主動思考，輕鬆拉近孩子與艱澀科普知識的距離，知識立刻上手，玩出STEAM好能力!

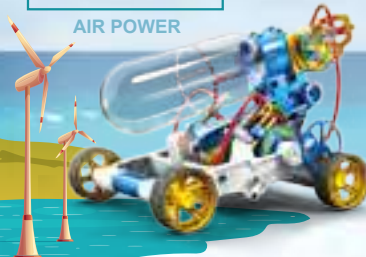
What is STEAM? STEAM is an educational approach to learning that uses Science, Technology, Engineering, the Arts and Mathematics as access points for guiding student inquiry, dialogue, and critical thinking. **Pro'sKit** Science Kits are just combine the advantage of STEAM education and fun, which makes those science toy kits so amazing. Today, toys will no longer be just toys, it will be an inspiration and a practitioner of scientific knowledge as well as creativity.



水動力  
WATER POWER

空氣動力  
AIR POWER

AIR POWER



電腦編程  
COMPUTER PROGRAMMING

COMPUTER PROGRAMMING



光能動力  
SOLAR POWER

SOLAR POWER



聲控感應  
SOUND DETECTING

SOUND DETECTING



紅外線感應  
INFRARED SENSOR

INFRARED SENSOR

磁浮動力  
MAGLEV POWER

MAGLEV POWER



機械動力  
MECHANICAL POWER

MECHANICAL POWER



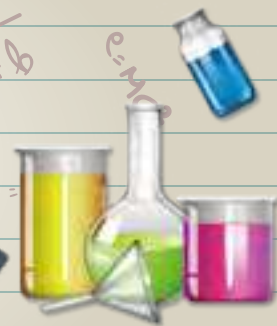
機械編程  
MECHANICAL CODING

MECHANICAL CODING



# 開課啦！講科學

**Pro'sKit**® Science Kit 科學教育系列及 **Pro'sKit**® Robot kit 機器人教育系列，兼具科學、美學、手做與創意，涵蓋了光、電、風、鹽水、磁的科學奧妙集合了太陽能動力、鹽水動力、液壓動力、空氣動力、磁浮動力等科學知識及AI互動感應原理及機械力學！  
**Pro'sKit**® Science-Kits include science technology of solar power, electricity, air power, salt water fuel cell, magnetism, etc. DIY satisfaction, and model aesthetic as well. Smart learning with **Pro'sKit**®!



## 機械好動力

### Mechanical power (Gear transmission)

利用齒輪間的連接，傳遞動力，而當大、小齒輪互相扣在一起時，轉動其中一個齒輪，另一個齒輪就會以反方向跟著轉動，透過方向與速度讓機械運轉得更順暢。

Gears almost always produce a change in torque, creating a mechanical advantage, through their gear ratio, and thus may be considered a simple machine. When two gears mesh, if one gear is bigger than the other, a mechanical advantage is produced, with the rotational speeds, and the torques, of the two gears differing in proportion to their diameters.

#### 改變運轉速度 Speed change

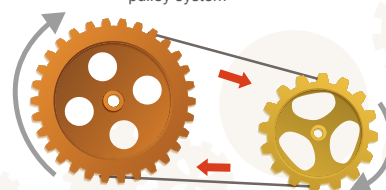
大齒輪，速度慢但有力  
Big gear with high torque but slow moving

#### 改變運動方向 Direction change

傳遞動力  
Power transmission

#### 傳動裝置 Transmission

同方向運轉傳遞動力  
Same direction transmission with pulley system



牽一髮而動全身  
機械動力超有趣



## 磁極好浮力

### Maglev power

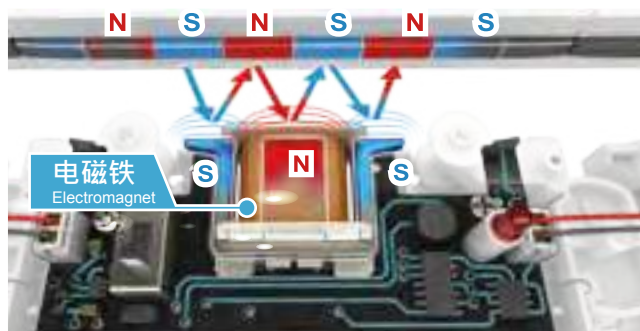
磁鐵帶有同性相斥，異性相吸的原理，不僅可以用來指引方向以外，科學家也靠磁的吸力和排斥力，利用軌道的磁力來將列車懸浮在空中，因不需接觸地面，所以阻力很小。

All magnets, whether natural or electromagnets, have two poles. We all know that like poles repel and unlike poles attract. Magnetic levitation is the product of the repulsion generated as a result of two magnetic fields.

#### 磁力推動

##### Propulsion

磁相斥產品推力前進，磁相吸穩住不脫離軌道  
As the direction of current changes back and forth in the propulsion coils in the walls of the guide way, the north and south pole reverse rapidly, propelling the train by alternating forces of attraction and repulsion

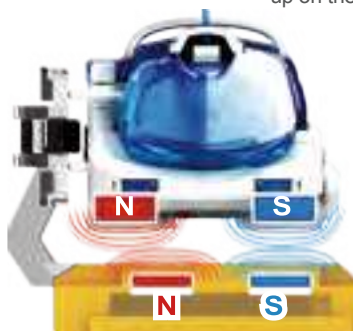


#### 磁浮系統

##### Levitation

磁相斥產生浮力

The train is levitated by force of attraction, which pulls up on the magnets in the train, as well as repulsion, which pushes up on the magnets.

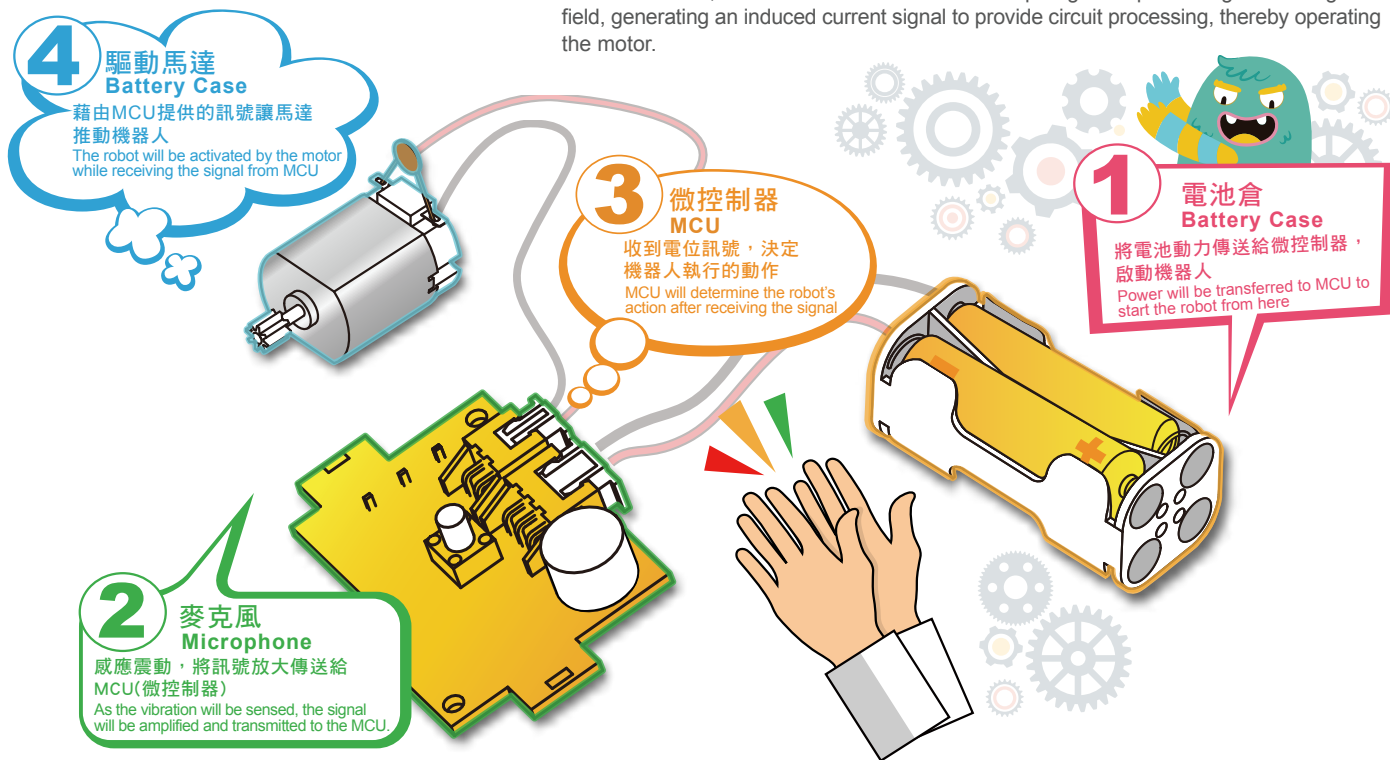


# 聲 控 好 學 問

## Sound operated

當聲音進入麥克風，震膜受到聲波的壓力而產生振動，與振膜連接在一起的線圈在磁場中移動，產生感應電流訊號提供電路處理，進而控制馬達運轉。

When the sound enters the microphone, the diaphragm is vibrated by the pressure of the sound wave, and the coil connected to the diaphragm keeps moving in the magnetic field, generating an induced current signal to provide circuit processing, thereby operating the motor.



# 液 壓 很 給 力

## Hydraulic power

液壓動力是利用液體不可壓縮但是可以隨意流動的特性，液體在密閉容器中，當某一部分被加壓時，此壓力會以同樣大小傳遞到液體各部份，藉此實現直線往復運動和回轉運動。

Hydraulic power is the use of fluids under pressure to generate, control, and transmit power. As a valve is opened one way, the fluid is allowed to enter the cylinder and force the piston to move.



# 電腦編程起步走

## Computer coding

編輯電腦程式讓電腦執行的過程叫程式設計。程式設計就像寫作。利用電腦能理解的語言，寫出指令，告訴電腦如何執行任務。寶比二代機器人選用Micro:Bit搭配，圖形化程式設計孩子更輕易上手！

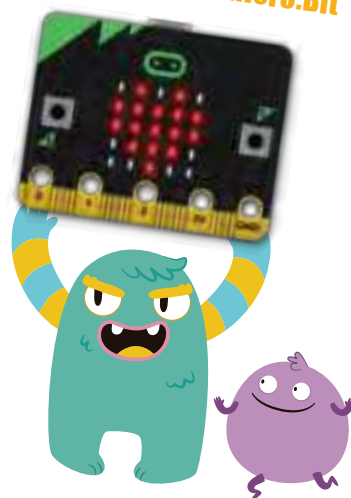
Programming is the process of editing a computer program to make the computer execute what you've instructed. Programming is like writing. Write correct instructions that the computer can understand, telling the computer how to perform the task. Al Probbie Robot II is suggested to play with Micro:Bit, which can be easily coded and programmed easily by Javascript Blocks Editor or Python Editor on your computer, laptop or smartphone!



請您拜訪 [micro:bit](https://microbit.org) 或 [Scratch](https://scratch.mit.edu) 網站開始編程。使用 MakeCode Editor / Python Editor / Scratch 來創造你專屬的數位好朋友！

Please visit [micro:bit](https://microbit.org) or [Scratch](https://scratch.mit.edu) website to program the micro:bit, which can be coded in the MakeCode Editor, Python Editor or Scratch.

有了這塊Micro:Bit  
編程變得好好玩~  
Have Fun With Micro:Bit

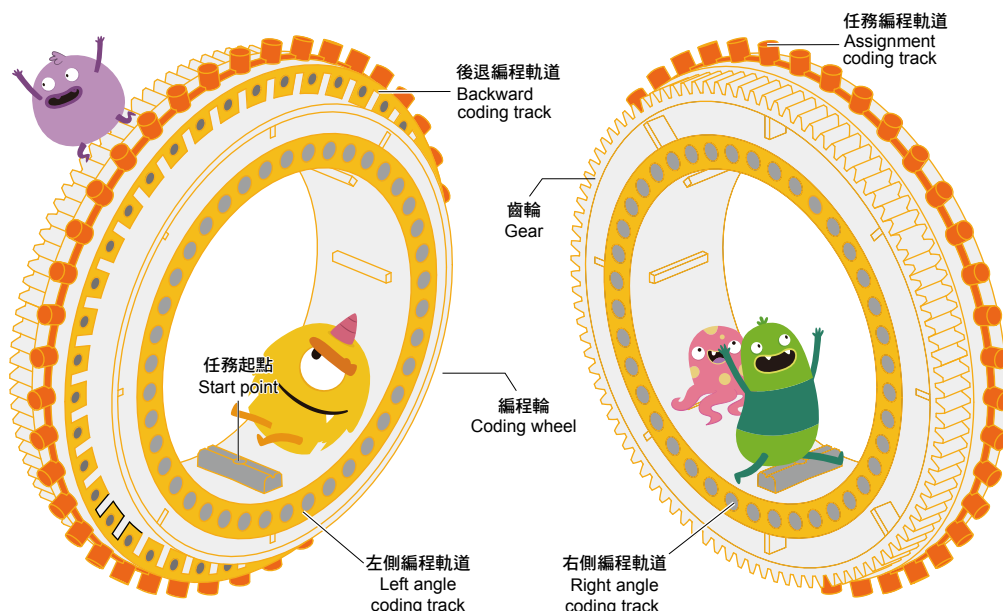


# 機械編程好燒腦

## Mechanical coding

運用編程輪與編碼豆的組合進行不同方向的行動並執行任務。將編碼豆插入編程輪上，機器人就能執行如前進，後退，右/左轉，旋轉或暫停等各種動作，邏輯思考培訓好選擇！

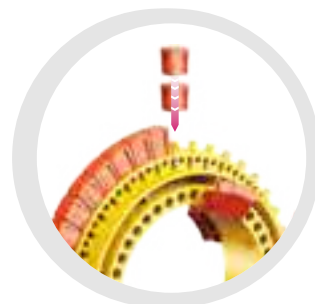
The mechanical coding wheel is placed into the heart of the robot to steer its coded courses and tasks. Coding is easily implemented by snapping the coding buttons onto the wheel and having the robot perform its movement. This mission-based, coding system will definitely help users to learn about mechanical engineering and coding basics.



## 安裝編碼豆

### Snap Coding Button

不同種類的編碼豆可以讓機器人執行不同的動作任務  
Different combination makes robot execute assigned task

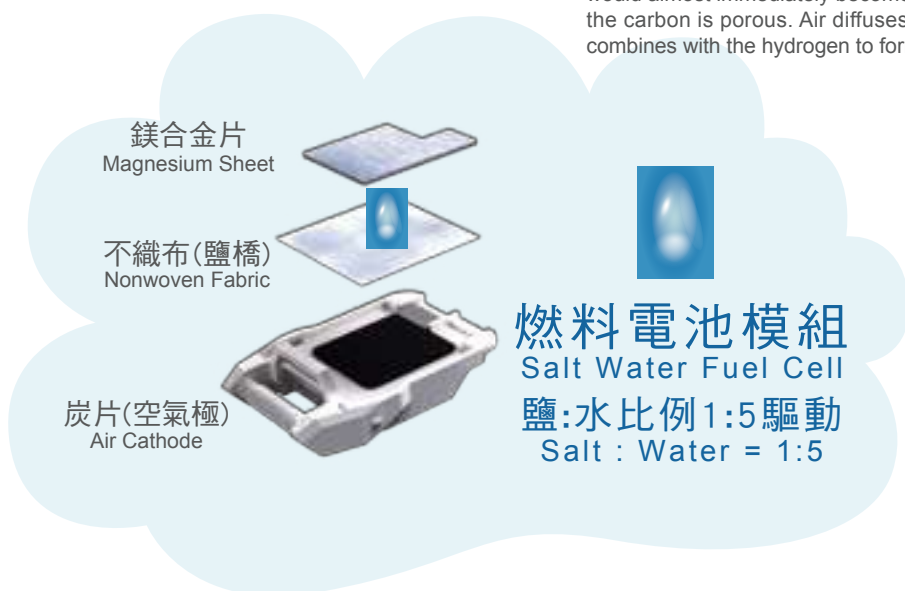


# 鹽 水 能 發 電

## Salt water fuel cell

利用浸潤過鹽水的不織布當做鹽橋，讓鎂合金片與鹽水及空氣混合。鎂片丟出電子，空氣中的氧氣獲得電子後，與鎂離子形成氫氧化鎂生成物，電子從鎂經過電路到達空氣極，電子的移動產生電流，進而驅動馬達。

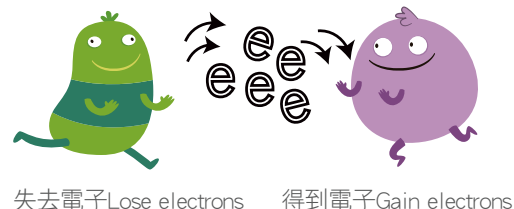
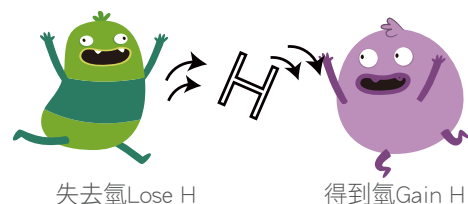
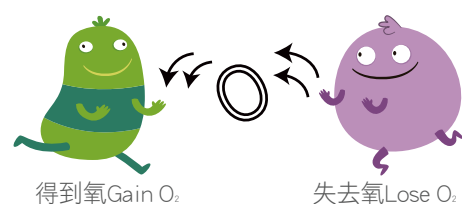
In this cell, magnesium is the anode, the porous carbon sheet (air) is the cathode and salt water is the electrolyte. During chemical reactions, magnesium loses two electrons. The saltwater slowly dissolves the magnesium sheet to produce hydrogen ions that migrate to the carbon cathode, thus creating an electrical current. The carbon surface would almost immediately become blocked, or polarized, by the hydrogen except that the carbon is porous. Air diffuses down through the carbon and yields oxygen that combines with the hydrogen to form water, permitting the electrical effect to continue.



## 氧化還原反應產生電流，驅動馬達

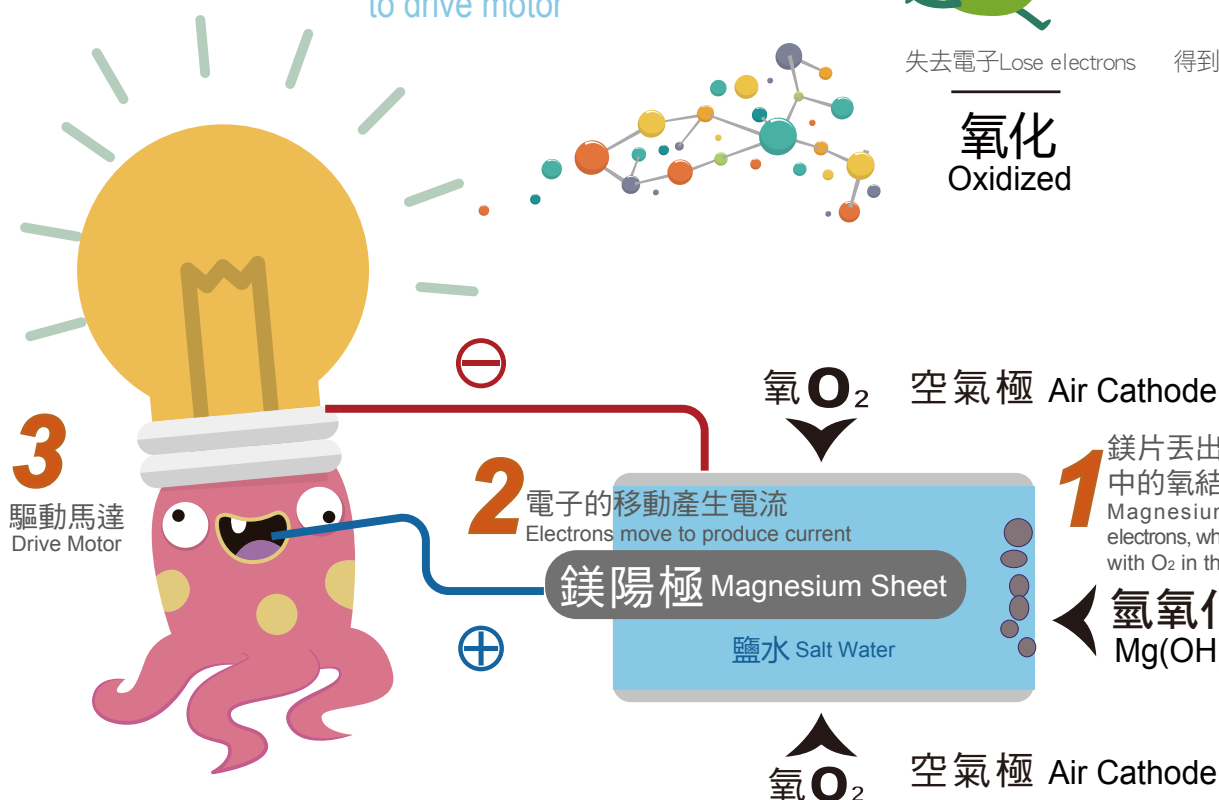
Redox reaction produces current to drive motor

### 氧化還原反應 Redox



氧化  
Oxidized

還原  
Reduced



# 太陽也來電

Solar power

## 太陽能發電面板搜集太陽熱能 轉化為電能

吸收300NM ~ 1100NM波長的太陽光，光子能量激發矽原子產生正負電，在半導體上產生了電子移動，電來了，就發動了。

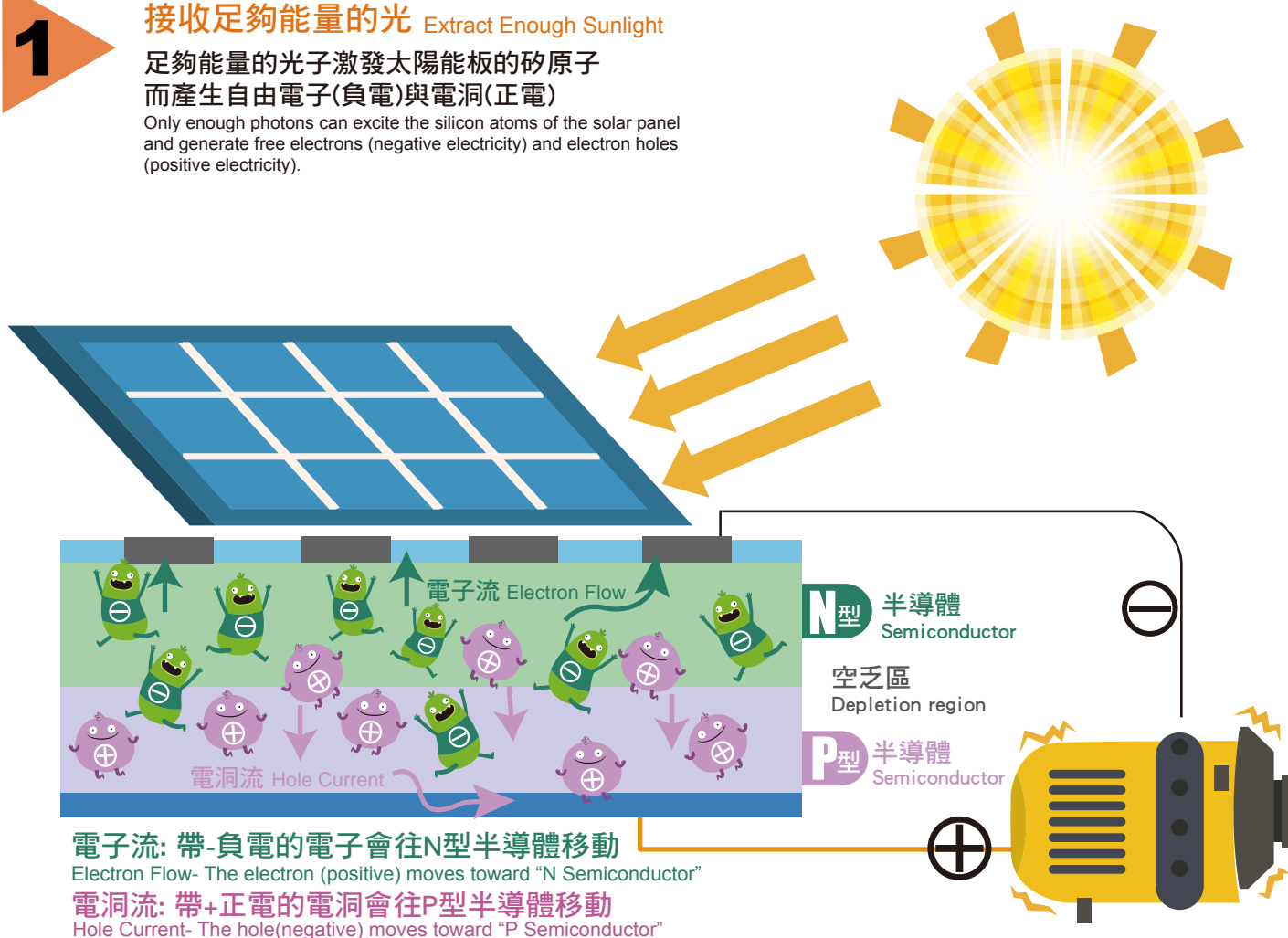
The solar cell converts the energy of light directly into electricity by the photovoltaic effect. A solar panel works by allowing photons, or particles of light, to knock electrons free from atoms, generating a flow of electricity.

1

### 接收足夠能量的光 Extract Enough Sunlight

足夠能量的光子激發太陽能板的矽原子而產生自由電子(負電)與電洞(正電)

Only enough photons can excite the silicon atoms of the solar panel and generate free electrons (negative electricity) and electron holes (positive electricity).



2

### 電子移動，電來了 Electron Moves, Electricity Comes

正、負電會分別往正(P型)、負(N型)極方向移動，產生電流

This moving of the electrons up to a higher level of energy creates a direct current of electricity



3

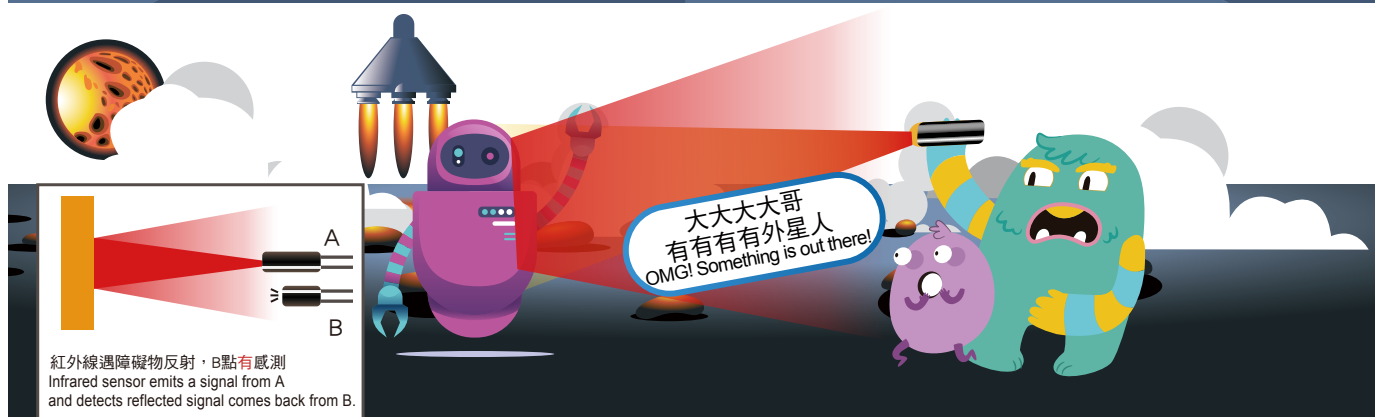
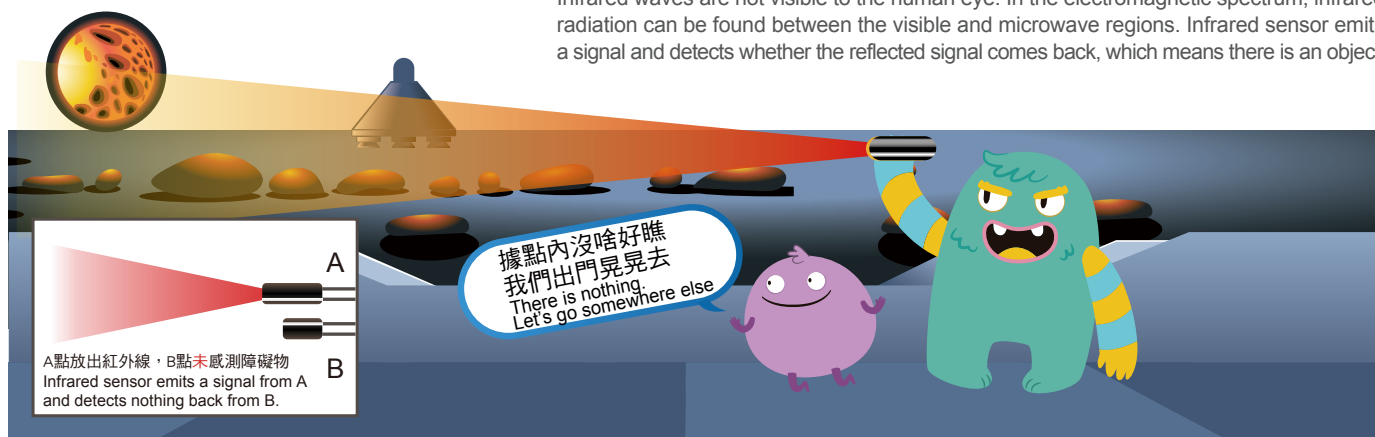
### 馬達驅動，享受玩吧! Activate Motor, Enjoy Your Time

# 紅 外 線 感 應

## Infrared sensor

紅外線是波長介乎微波與可見光之間的電磁波，感測器放射出肉眼看不見的訊號，並偵測是否反射訊號回來，以判斷前方是否有物體存在，使機器做出相對反應。

Infrared waves are not visible to the human eye. In the electromagnetic spectrum, infrared radiation can be found between the visible and microwave regions. Infrared sensor emits a signal and detects whether the reflected signal comes back, which means there is an object.



# 空 氣 動 力 學

## Aerodynamics (Air power)

氣動引擎的原理是源於氣體的可壓縮性，空氣在壓縮後會膨脹推動活塞，進而提供動力給引擎。整個過程不需要燃燒，沒有空氣污染的問題。

Air will expand and after compression, for which will push the piston and in turn provides power to the engine. The entire process does not require combustion and without air pollution.



衝！衝！衝！  
推動車子奔馳啦~  
Go! Go! Go! Let's move the car!

# RoBoTic

## HEDGEHOG

SOUND DETECTING ROBOT

Ai 鼓掌刺蝟

Item No :  
GE-896

Age  
8+

台灣專利證號

D196980

大陸專利證號

ZL201830552085.3

### 3種玩耍方式

3 Fun Way Mode

## 最受歡迎的明星商品

The cutest pet you could ever own

與AI Robotic Hedgehog進行互動

Have fun with AI Robotic Hedgehog



造型可愛 活靈活現 聲控指揮  
跟著你的掌聲滾動!

CUTE • LIVELY • SOUND DETECTING  
Clap and Roll, soothing and stress-relieving.



Size: 315x210x120mm

## 三種不同的聲控方式

與這款神奇的刺蝟進行互動和玩耍

3 Fun Way Mode Have fun with AI Robotic Hedgehog.

按照不同的拍手命令，刺蝟將捲曲它的身體，執行完美的向後滾動。

Following different clapping commands, the Hedgehog will extend its spines, curl its body, or perform a perfectly executed backward roll.

### 》① 單次翻滾，眼睛顯現半綠半橘燈光

SINGLE ROLLOVER (Hedgehog with green and orange eyes)

拍手一次，即後滾翻 / 拍兩次，即啟動睡眠模式 / 拍三次 即為甦醒模式

Clap x1 → Backward roll / Clap x2 → Sleep mode / Clap x3 → Wake up

### 》② 多次翻滾，眼睛亮綠色

MULTIPLE ROLLOVERS (Hedgehog with green eyes)

對著頭部拍手1-5次，連續多次後滾翻

Continuous roll-overs according to how many times players clap.  
Maximum is five times

### 》③ 鼓舞模式，眼睛亮橘色

CHEER UP (Hedgehog with orange eyes)

連續拍手多次，即翻滾成球形

Keep clapping until the Hedgehog rolls up into a ball.



LED眼睛閃爍 - 打開身體 - 前進  
LED eyes flashing - Uncurling the body - Moving forward.

後翻滾  
Backward roll

捲成球型  
Rolling up into a ball

舒展開來  
Extending sharp spines

# 5<sup>in</sup>1 Mechanical CODING robot

5合1機械編碼機器人

Item No :GE-895

Age  
8+

台灣專利證號

D197529

大陸專利證號

ZL201830650971.X

機械編碼 Mechanical Coding

多種變化玩法 5 Funway Mode

電池動力 Battery Power

1 Coding 編碼

Clicking-in

2 放入中心位置

Drawing

3 依照編碼畫圖



**UNPLUGGED**

全新概念玩法！機械編碼立即遊玩也  
不需電腦編輯或行動應用程式  
A new concept of coding without a  
computer or APP.

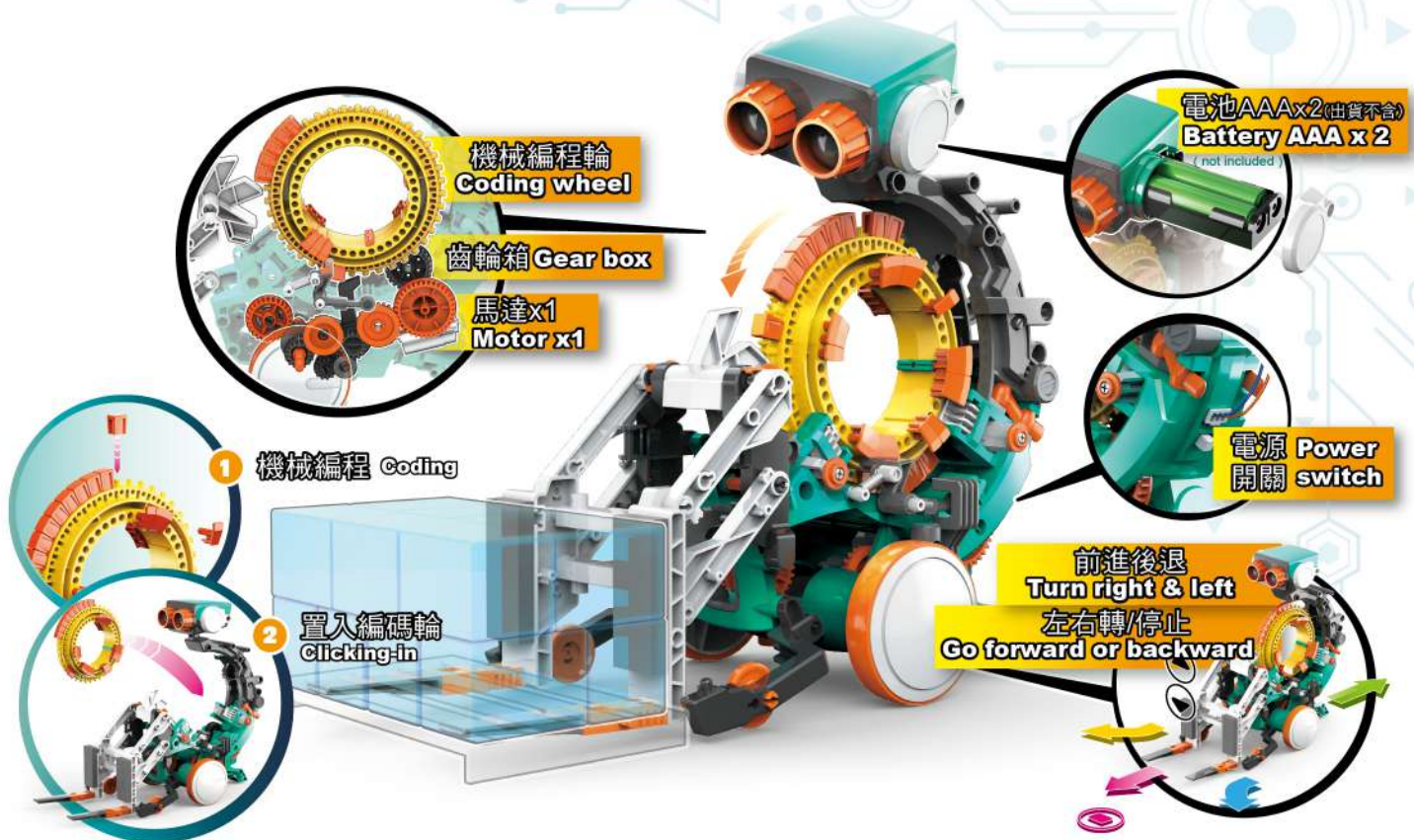
1 Drawing-bot 繪圖機器人



Size: 377x287x75mm

**機械編碼輪(Coding Wheel)**是機器人的核心套件，負責控制它的動作與頻率。將**編碼豆(Coding Button)**安裝在機械編碼輪上，讓機器人可以輕鬆執行各種基礎動作——前進後退，向右/向左轉，旋轉與待機。這種易於編輯的設計，更能讓機器人執行進階動作（諸如投擲、堆高、踢球及繪圖），透過您各種變化編碼的方式，讓機器人得以執行更加複雜的動作，是一款適合闔家歡樂，有極高的挑戰性與無限樂趣的玩具！

The mechanical coding wheel is placed into the heart of the robot to steer its coded courses and tasks. Coding is easily implemented by snapping the coding buttons onto the wheel and having the robot perform its basic functions – go forward, backward, right/left turn, spin or pause. Thanks to this easy to follow approach, coding and performing the tasks (such as throwing, lifting, kicking or drawing), become more interesting and challenging as the user's skills increase.



## AI Probbie Robot II 二代寶比機器人

# micro:bit

Item No: **GE-894**

Age **8+**

台灣專利證號

D196981

大陸專利證號

ZL201830551681.X

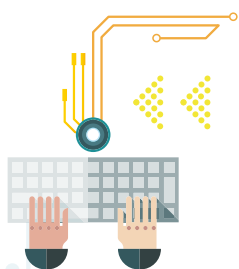
DIY kit

CODING robot

FUNWAY ∞

孩子的第一個電腦編程機器人  
Your First Codig Robot!

動動手、動動腦，創作一個獨一無二的寶比吧！  
使用Microbit晶片電腦編程，發揮您無窮創意！  
Build your own robot and make it alive by coding micro:bit!  
Easy and peachy!



Interactive  
Artificial intelligent

# AI

互動式人工智慧

Infrared  
Sensor

# I/R

紅外線感應

Funway  
Modes

# 12

12種遊玩模式

Eyes  
Illumination

# LED

LED眼睛



鹼性電池 AAAx4(不含)  
Battery AAA x4  
(not included)



Size:370x230x75mm

## 盡興編程吧！ Let's Code !

請您拜訪micro:bit或Scratch網站開始編程。  
使用MakeCode Editor/Python Editor/Scratch  
來創造你專屬的數位好朋友！

Please visit micro:bit or Scratch website to program the micro:bit, which can be coded in the MakeCode Editor, Python Editor or Scratch.



**MakeCode 編輯軟體**  
Make Code Editor

我們提供**12種**編程玩法，趕快上網下載  
We provide more than 12 Funways on line.



youtube



youku



1.探險家寶比 Explorer



2.小跟班寶比 Follow Me



3.唱跳寶比 Singing & Dancing



4.覓光寶比 Light Tracker



5.寶比溫度計 Thermometer



6.計算神腦寶比 Calculator



7.猜拳看誰贏 Rock-paper-scissors



8.擲骰子比大小 Dice



9.公告板寶比 Notice Board



10.羅盤寶比 Compass



11.寶比打保齡 Bowling



12.APP遙控模式 APP Remote Control  
(此模式適用於Android™ 5.0 以上系統)  
( APP for Android™ versions 5.0 or later )

# Probbie The Robot

• Your adorable smart friend •



Size: 370x230x73mm

## AI 智能寶比

Item No: GE-893

Age 8+

台灣專利證號

D174783

大陸專利證號

ZL201730526788.4

紅外線感應  
Infrared Sensor

AI 人工智慧  
Interactive Artificial Intelligent

跟隨 / 探索雙模式  
2 Funway Modes

六腳機器人Probbie寶比，設計有兩個遊戲模式“跟隨”或“探索”。在“跟隨”模式中，寶比能聽話的跟隨著主人，而在“探索”模式中，寶比可以避開障礙物並找到一個新的路線繼續前進。同時，寶比會發出聲音和燈光，活靈活現的像是你的寵物，讓您在玩樂中體會紅外線感測與AI機器人的最貼近的互動效果。

Probbie has two programmed modes to follow or avoid objects. In "Follow Me" mode, Probbie follows the object which ever approaches it, and makes it feels like an obedient pet. Possessing IR auto detect, Probbie can avoid obstacle in the "Explore" mode and find a new route to keep moving. The little robot offers wonderful sound and light effect which develops its own emotions and gestures, just like a living pet. Probbie is not just a normal robot, but an adorable smart friend.

兩種互動模式  
2 Funway Modes



跟隨模式  
Follow-me Mode



探索模式  
Explore Mode

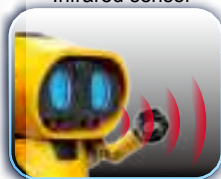
電源開關  
Power/Funway switch

人工智慧  
程式化IC板  
Programmed IC

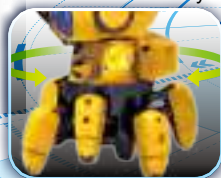
鹼性電池 AAAx4(不含)  
Alkaline battery AAAx4  
(not included)

LED反應  
Blinking LED  
2種遊戲模式  
2 Funway Mode

紅外線感應  
Infrared sensor

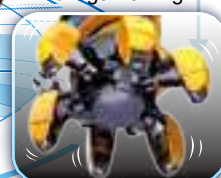


上身360°靈活旋轉  
360°Rotatable body



雙齒輪馬達  
Dual gear box

6足行走  
6 legs walking



Interactive  
Artificial intelligent

# AI

互動式人工智慧

Funway  
Modes

# 2

2種遊玩模式

Infrared  
Sensor

# I/R

紅外線感應

Eyes  
Illumination

# LED

LED眼睛

# FRILLED LIZARD ROBOT KIT

## AI 智能傘蜥蜴

Item No: GE-892

Age 10+

台灣專利證號

D168174

大陸專利證號

ZL201430494800.4

Size: 370x230x75mm



### IR紅外線感測，聲光效果十足!! I/R sensor makes the Lizard "ALIVE"!

這是一款使用紅外線感測器的玩具，具有"跟隨"及"逃跑"兩種互動模式。智能傘蜥蜴聲光效果十足，讓您在玩樂中體會紅外線感測與AI機器人的最貼近的互動效果。動手吧!驚奇與樂趣無限!!

The interactive robot lizard with artificial intelligence, infrared sensor and illuminated LED eyes makes it the perfect "pet" ever. The infrared sensor that is programmed to "escape" or "follow me", changing the way it behaves. It's lots of fun to build and even more fun to play with, making it a fantastic gift that any child will love.



紅外線感應 I/R Sensor

AI人工智慧 Artificial Intelligence

跟隨/逃跑雙模式 Follow / Escape mode

身長37cm

#### Funway 1 跟隨模式 Follow-me mode

如果紅外線感測器設定為跟隨模式，智能傘蜥蜴會張開頸傘表示感受到威脅並後退，若無感測到危險則智能傘蜥蜴會如同寵物般跟隨你。  
The robot will assess danger by bluffing the attacker (unfurling and shaking its frill). When the robot does not sense danger it will proceed to follow you like a pet lizard.

未感應危險 > 乖乖跟著走  
Follow me like a pet.



感應到"危險" > 張開並顫動頸傘  
Bluffing attacker by popping up its frill.

#### Funway 2 逃跑模式 Escape mode

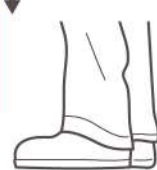
當紅外線感測器設定為逃跑模式，智能傘蜥蜴感測到物體時會自動作出威脅反應，張開頸傘並張狂的抖動，雙眼發出光亮後就逃走到安全地帶。  
The robot will assess danger by bluffing the attacker (unfurling and shaking its frill). When the robot does not sense danger it will proceed to follow you like a pet lizard.

驚嚇模式啟動  
Shocked!!



張開頸傘  
Bluffing!

迅速逃避  
Escape



Interactive Artificial intelligent

AI

互動式人工智慧

Funway Modes

2

2種遊玩模式

Infrared Sensor

I/R

紅外線感應

Eyes Illumination

LED

LED眼睛

Battery (Not included) x4

AAA

AAA電池x4發動(不含)

Age

10+

適合年齡

# MAGLEV FLOATING TRAIN

MAGNETIC LEVITATION

## 磁浮列車

Item No : GE-633

Age  
8+

台灣專利證號

D193653

大陸專利證號

ZL201630502669.0

磁浮技術 MAGLEV

酷炫列車 RAD DESIGN

模型DIY



想像一下，在沒有輪子的輔助下，列車該如何行進?!

Can you believe the train may run without the wheels or....

甚至是以懸浮的方式前進？  
Even magically float above the ground?

磁浮技術利用磁鐵轉為動力，將這項看似不可能的事變為可能，安裝在列車側邊導軌的磁條有助於列車在高速下仍能穩健前行，現在經由雙手就可打造這款磁浮列車，讓孩子們習得磁鐵“同性相斥，異性相吸”的原理，更能將“電磁”理論親手實現!

Thanks to maglev technology, floating train is no more a dream. The magnetic strips, which are built in the side of guideway, allows the train to hover stably and high-speed-run smoothly. Now, the floating train can be built by yourself! In addition to learn the basic principles of magnets to repel and attract each other; this is the best choice for children to experiment how the magnetic levitation train to build and work and also acquire knowledge of the electro-magnetism to apply and use in our living life. That's awesome!

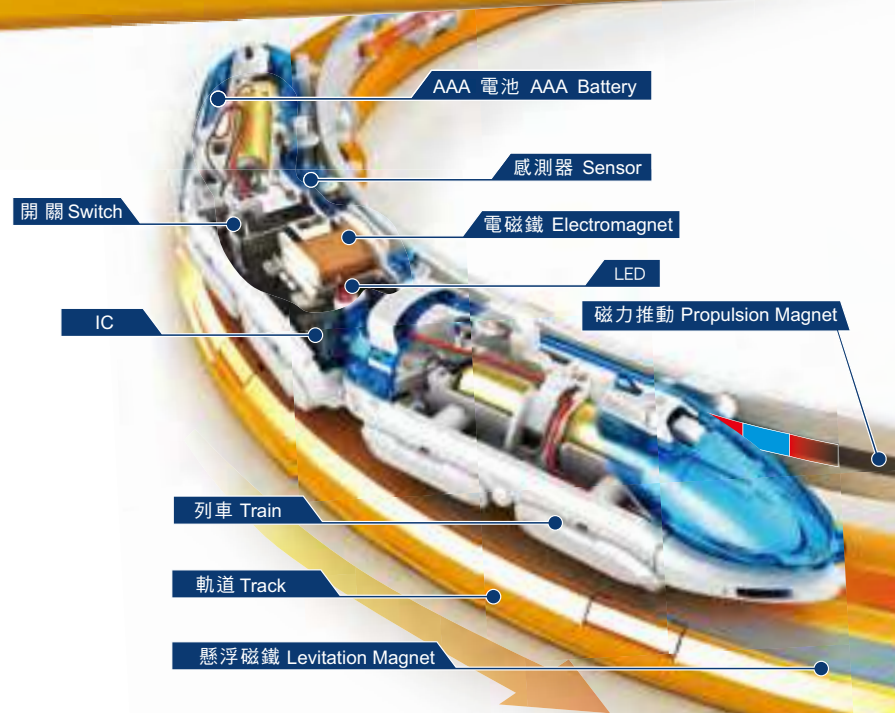
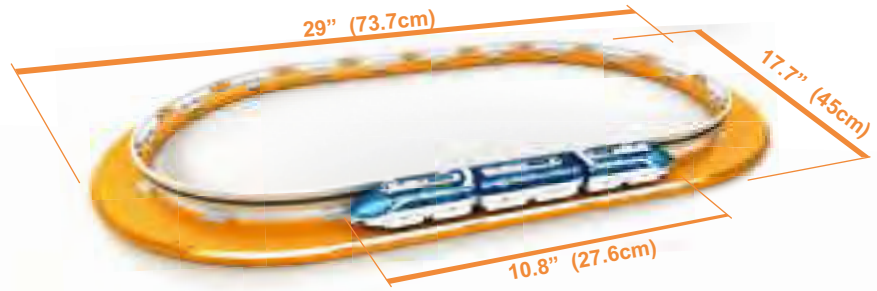
### 懸浮原理 Levitation



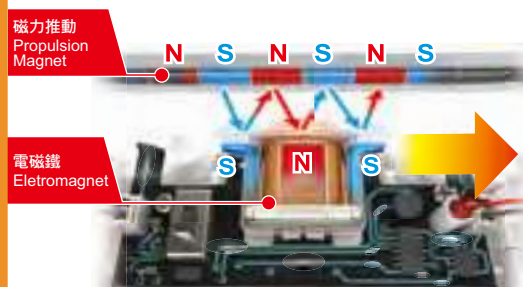


Size:380x325x76mm

## » 成品尺寸 Product Size



## » 動力原理 Propulsion





## 動力機器手臂

Item No : GE-535N Age 13+

最多marker課程指定的教育套件!

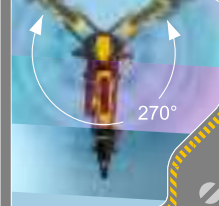
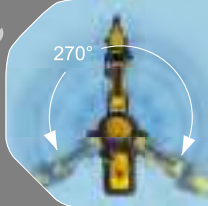
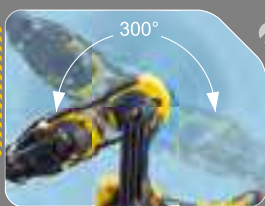
**Introduce your child the concepts of PHYSICS, ENGINEERING and ROBOTICS while enjoying hours of fun with the ROBOTIC ARM**

機械手臂藉由線控上的五個開關來啟動省閉上五個馬達進行多軸控制，搭配270度旋轉的底座，180度手腕關節旋轉，無論抓取、抬高、下降或是鬆開夾爪，操控起來相當順手，前端夾爪還可舉起100g的物品，滿足小小建築師的願望。

With its five-switch wired controller, the robot features base rotation of 270 degree, shoulder, elbow and wrist motion, and a functional gripper. The 5 motors operate the grab, lift, lower, and release smoothly. The Robotic Arm is the perfect way for kids to begin to explore the world of robotics.

機械力學  
Mechanics

五軸關節  
5 Axes Controlled





## 3合1變形坦克



Size: 392x290x81mm

Item No : GE-536N

### 履帶型全地形車，征服高地，地表最強! Conquers beyond boundaries!

台灣專利證號

D141863

大陸專利證號

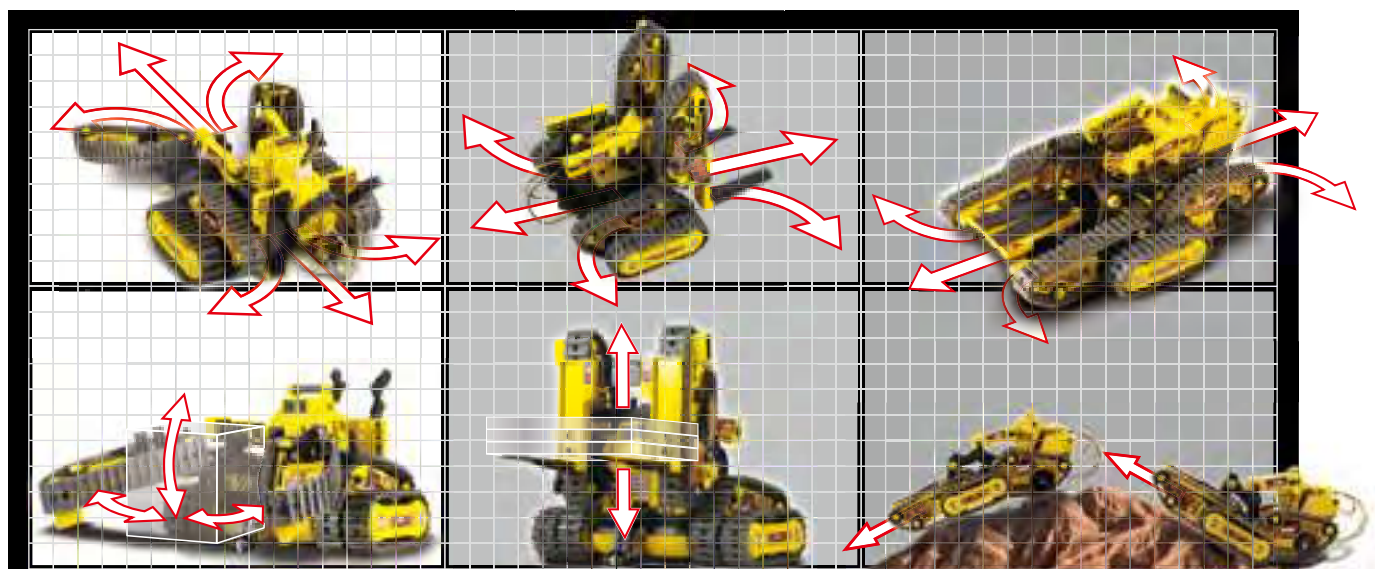
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Age  
13+

透過不同的履帶模組，它還可以變身成為

坦克車、堆高機及夾爪車，輕易征服各種崎嶇地形!利用線控方式，操縱變型坦克前進、後退、轉彎、夾取及抬舉物品。

Utilize different track modules and make your robot transform into 3 amazing models: Forklift, Rover and Gripper. The wired controller gives command to the robot to have it move forward, backward, turning, gripping or lifting.





Size: 265x184x88mm

## 4 in 1 Robot

Educational Motorized Robot Kit

4合1 變形蟲 Item No: GE-891

Age  
8+

台灣專利證號

D163019

大陸專利證號

ZL201330511332.2

簡單、好玩、4種可愛造型帶來大大驚喜!!  
**Simple, fun, and amazing!**

變形蟲帶給你4種不同形態組合, 它可以像機器人一樣利用齒輪傳動方式行走,也可變身為小蟋蟀用六隻腳行進,或像怪獸般排山倒海的大步向前,還可以像馬達驅動的拖拉機一樣運行, 每一個造型都可愛極了, 趕快來體驗吧!

The 4 in 1 Robot transforms into 4 different shapes and movements like Walking Robot, Running Cricket, Rolling Beast and Power Trailer at a time. You can't imagine how adorable each of them is!



- 只要1顆AA電池,啟動馬達機箱,可變化3種不同的速度!
- Just powered by battery. 3-speed vehicle.

- 不須焊接,安全電機箱設計,讓孩子能安全無虞的自己動手做、放心玩。
- Non-solder, safety gear box design makes it perfectly safe that allow children to build this robot kit and have fun by themselves.

» 安全齒輪箱設計 Safety gearbox design

» 簡易操作 Easy assembly



# AIR POWER ENGINE CAR KIT



Size: 315x185x108mm

## 空氣動力引擎車 Item No: GE-631

Age  
10+

台灣專利證號

D169563

大陸專利證號

ZL201430565474.1

你知道嗎？"空氣"就是取之不盡的能源

**You must know - AIR is an INEXHAUSTIBLE clean energy!**

在石油燃料能源逐漸消耗殆盡之際，替代能源成為重要議題，而“空氣”就能解決這項難題！空氣要如何取代汽油呢？！現在就跟孩子們一起動手做空氣飛車，親身體驗空氣帶來的原動力！

As petroleum is becoming increasingly difficult to find, to develop alternative fuel becomes worldwide issue; and AIR is just the answer to this big issue! You may wonder how air can replace gasoline. Let's build air power engine car together and gain valuable insight into compressed air propulsion!

## 真正引擎原理打造 A Real Engine Car

空氣車內建打氣桿，只要將空氣瓶注滿空氣，車子通過空氣加壓可以在35秒內推進到50公尺！

A pump-up bar with a pressure meter is built into the car for easy operation. Release the compressed air while the air chamber is full, the car will be driven a distance up to 50 meters in 35 seconds.

空氣力學 Air Power

無需馬達 No Motor

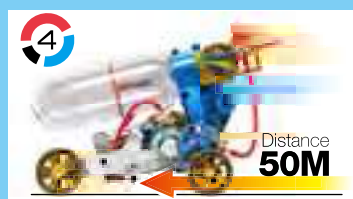
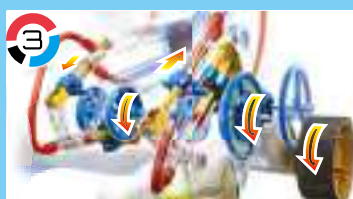
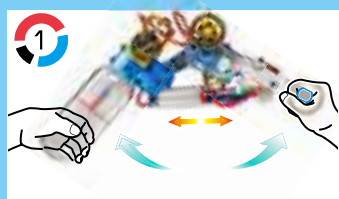
不需電池 No Battery



### 安全結構設計 Safety Device

當持續將空氣注入已注滿的空氣瓶時，安全氣閥裝置會自動開起來排放多餘的空氣，不用擔心氣瓶爆破問題。

If the user keeps pumping while the tank is full, the safety valve will open and bleed the air automatically.



# HYDRAULIC ROBOT ARM 液壓機器手臂

Item No : GE-632

Age  
10+

台灣專利證號

D174783

大陸專利證號

ZL201530437461.0

機械手臂這項看似一般人難以取得甚至操作的器具，現在不但可以自己組成，還能利用水力體驗操控這款機械手臂無窮樂趣。

Build your own hydraulic Robotic Arm! The fully functional Hydraulic Robot Arm demonstrates hydraulic power systems in a meaningful way for both kids and adults.

液壓動力  
Hydraulic

不用電池  
No Battery

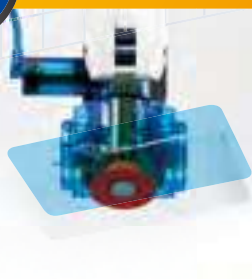
無需馬達  
No Motor

六軸關節  
Six Axes

夾持 Gripper

可替換  
Change-able

強力吸盤 Suction cup



可夾取或吸起50g物體

Lifting capacity: 50g Max.



Size:398x290x105mm

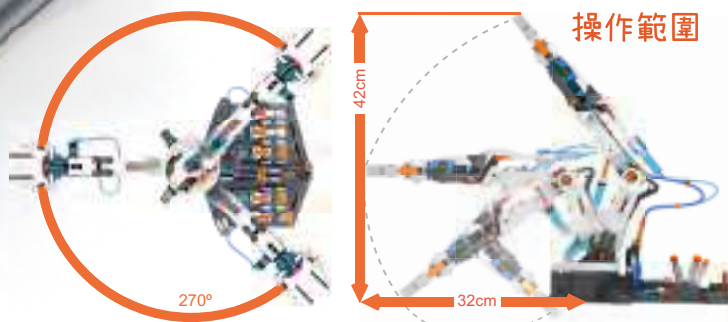
## 只要水! WATER ONLY

『液壓手臂傳送動力，讓你的機器手臂動起來』  
Transfer water to power. Have fun w/ Hydraulic Robot Arm.

機器手臂，讓孩子們充分以手與眼的協調操縱來啟動他，經由組裝的邏輯培養及透過操控機器手臂來感受液壓系統帶來動力的科學原理，讓你哇!哇!哇!驚喜連連，歡樂破表。機器人手臂由229件組件建構起來，跟著說明書詳細的圖文DIY組裝，輕鬆上手。他結合科學、科技、工程、數學的領域科學，不需要電池或電機，透過水的壓力(液壓)轉換成動力，使用操縱桿就能控制手臂進行各項運動，快樂享受小小天才工程師的成就感!機器手臂不僅讓你享受組合的成就感，更讓你啟動水力機械的樂趣。只要加入水，利用手臂後端的五個操縱桿加壓，將液壓傳送動力，即可驅動機械手臂做270°迴轉,上升,夾取,伸縮等各種動作，前端夾具可夾起50g的物品，小小工程師，看你的操控速度可以多靈活，試試看。拆下前端夾具還可啟動吸盤裝置喔，連手機都吸得起來。準備好與機器手臂啟發你的天才了嗎? 動手吧! 樂趣無限!!

Fun and easy to construct for children and adults alike; this robot arm is a great demonstration of a hydraulic power system! The arm function uses some of the same principles that drive real world machines. Easy to follow instructions with detailed graphic illustrations pave the way for successful and satisfying kit building of 229 pieces.

Compliment your engineering, math, science, and technology learning strategy. The hydraulic arm needs no battery, simply add water to put it to the test!



六軸控制搭配270度旋轉的底座，除了夾具之外，還可啟動吸盤裝置來執行更多工作  
Command six axes of varied movements with base rotation of 270 degrees. With the removal of the gripper, the suction apparatus can be activated, which enables the user lift objects up to 50g.



前端360度轉軸，腕關節可180度旋轉及98度擺動，肘關節上下擺動可達44度，肩關節則可45度前後移動  
Front shaft rotation of 360 degrees, wrist rotation of 180 degrees, wrist mobility of 98 degrees, elbow range of 44 degrees, and shoulder motion of 45 degrees.

## Salt Water FUELCELL Baja Runner KIT

Size: 205x155x45mm



## 鹽水動力越野車

Item No : GE-754

**讓車子疾速奔跑!!  
RUN! BAJA, RUN!**

Age  
**8+**

台灣專利證號

**D175579**

大陸專利證號

**ZL201530493300.3**

將鎂合金片與鹽水混合，進行化學反應後，分解出的電子產生電流進而驅動越野車向前奔馳，車子每加一次水可以跑15分鐘，每一片鎂合金片可以跑3-4小時。

The Salt Water Fuel Cell Baja Runner is designed and intended to facilitate transport via salt water fuel technology. After activating the magnesium fuel cell module with a saltwater mixture, the chemical reaction generates electricity using salt water as an electrolyte to power the on-board motor. The magnesium metal sheet can operate the vehicle for about 3-4 hours continuously and watered/time allows the vehicle to run 15 minutes.

Baja Runner是榮獲多項獎項的金屬燃料電池車，大輪胎設計與絕佳品質的模型組合，讓你享受燃料電池原理與賽車奔馳的樂趣。

The Salt Water Fuel Cell Baja Runner is an awarded salt water fuel cell car. With the huge wheeled design and superior quality makes more fun for building you own baja runner and also empower your children with the knowledge to make our world a better place to live.



**「鹽+水→燃料電池」  
Salt + Water → Fuel Cell**

燃料電池模組  
Fuel Cell Module



**安全無毒 Non-toxic**

**不需電池 No Battery**

**綠能環保 Environmentally Safe**

» 內部齒輪結構 Gear Structure



» 不需電池，直接於不織布滴鹽水即可發動  
Batteries are not requires, just add salt water.



鹽水動力燃料電池包含鎂合金片、不織布與空氣極，可讓車子行駛4個小時，每滴一次鹽水可跑15分鐘，每件組套附有3片鎂合金片供做替換。  
Salt water fuel cell kit contains a nonwoven fabric, a magnesium sheet and an air cathode. The magnesium metal sheet can operate the vehicle for about 3-4 hours continuously and watered /time allows the vehicle to run 15mins.



Size:208.5x180x70mm

# Salt Water FUELCELL Engine Car KIT

## 鹽水動力引擎車

Item No : GE-752

**V8汽缸、4輪傳動、登山越野!!**

**V8 engine, 4WD cruiser**

這是一款安全無毒、對環境友善、乾淨的金屬燃料電池車，其原理是使用鎂合金片與鹽水混合，進行化學反應後，分解出的電子產生電流進而驅動引擎車翻山越嶺。引擎車採V8汽缸，可調整為水平引擎或V型引擎，更以4輪傳動設計征服顛坡路面，車體會隨地形而扭動變化，有力的攀爬前行。這是很棒的體驗，雙手動起來，擁有樂趣，學習加倍。

The Salt Water Fuel Cell Baja Runner is designed and intended to facilitate transport via salt water fuel technology. After activating the magnesium fuel cell module with a saltwater mixture, the chemical reaction generates electricity using salt water as an electrolyte to power the on-board motor. Fully-equipped with four-wheel drive, adjustable height, pivoting body and a transformable engine shape, the vehicle can tackle any surface it encounters.



**「鹽+水→燃料電池」**  
**Salt + Water → Fuel Cell**

燃料電池模組  
Fuel Cell Module



**四輪傳動 4WD**

**不需電池 No Battery**

**綠能環保 Environmentally Safe**

» 引擎模式 Engine Mode		» 車體高度 Vehicle Height		» 4 輪傳動 4 Wheel Drive
V型引擎 V engine	水平引擎 Flat engine	可自由調整 Adjustable height		車體腰部可隨地形變化扭曲 Easily handle different types of terrain by its twisted car body design.

鹽水動力燃料電池包含鎂合金片、不織布與空氣極，可讓車子行駛4個小時，每滴一次鹽水可跑15分鐘，每件組套附有3片鎂合金片供做替換。

Salt water fuel cell kit contains a nonwoven fabric, a magnesium sheet and an air cathode. The magnesium metal sheet can operate the vehicle for about 3-4 hours continuously and watered/time allows the vehicle to run 15mins.

## Salt Water FUEL CELL Motorcycle KIT

Size: 210x180x70mm



### 鹽水動力巡弋車

Item No : GE-753

**不可思議!! 摩托車如神助般狂飆!**

**Incredible! Just SALT + WATER, the motorcycle runs as if by magic!**

採用自動復原不倒翁設計，具有直線行走、繞圈行走、S形行走的動能。透過組裝與操控的樂趣中，孩子們自然的瞭解機械的傳動原理，透過探索綠色科技，獲取低碳環保新能源的知識。

This motorcycle is equipped with cams and swing arms to have it ride on 3 ways: 'S' turn, circling and straight. This is a concept of an environmentally and friendly fuel cell motorcycle kit. The kit will teach children about new forms of clean energy.



**「鹽+水→燃料電池」**  
**Salt + Water → Fuel Cell**

燃料電池模組  
Fuel Cell Module



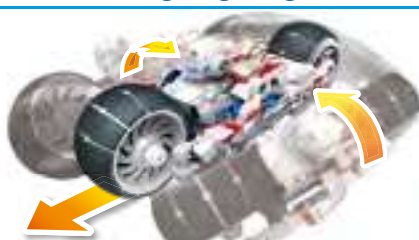
鹽 : 水  
Salt : Water  
1 : 5

**安全無毒 Non-toxic**

**不需電池 No Battery**

**綠能環保 Environmentally Safe**

» 不倒翁設計 自動復原  
Self-righting design



» 多種運作模式 3 Running mode

直線前進  
Straight run



繞圈迴轉  
Right or left circling



S 型行走  
"S" Turn



鹽水動力燃料電池包含鎂合金片、不織布與空氣極，可讓車子行駛4個小時，每滴一次鹽水可跑15分鐘，每件組套附有3片鎂合金片供做替換。

Salt water fuel cell kit contains a nonwoven fabric, a magnesium sheet and an air cathode. The magnesium metal sheet can operate the vehicle for about 3-4 hours continuously and watered/time allows the vehicle to run 15mins.

# Salt Water FUEL-CELL car KIT

## 鹽水動力霹靂車



Size: 205x150x45mm

Item No : GE-750

**流線造型快速馳聘，吸引你的眼球!**

**Always eye-catching by its modern style and speedy gallop.**

霹靂車一直是孩子心中的最愛，也是模型入門款設計，只要幾個零件簡單組合，滴入幾滴鹽水，就能快速奔馳前進。外觀採用透明流線外殼，機構一覽無遺，讓你驚訝鹽水動力的神奇!

It's a basic salt water fuel cell car kit, which is also ideal for DIY beginner.

With only a few of assembly parts and adding some drops of salt water, the car will start to run amazingly. The Salt Water Fuel

Cell Car gives children a chance to learn about new forms of clean energy, while building and powering their very own car.



鹽水動力燃料電池包含鎂合金片、不織布與空氣極，可讓車子行駛4個小時，每滴一次鹽水可跑15分鐘，每件組套附有3片鎂合金片供做替換。  
Salt water fuel cell kit contains a nonwoven fabric, a magnesium sheet and an air cathode. The magnesium metal sheet can operate the vehicle for about 3-4 hours continuously and watered/time allows the vehicle to run 15mins.

# Salt Water FUELCELL SPIDER KIT

## 鹽水動力蜘蛛



Size: 210x180x55mm

Item No : GE-751

**鹽水動力蜘蛛爬行速度快，別被嚇到喔!**  
**Love creepy crawlies? This is the kit for you!**



讓孩子們親手打造專屬自己的蜘蛛並且賦予他們"生命"，這是非常有趣的事，並藉由DIY模型組合和享受與蜘蛛互動玩樂的樂趣，讓孩子們認識新綠色能源。

Nothing will be more interesting than having very own pets and even make them alive. A great chance for children to learn about new forms of clean energy while building and powering their very own toy. See how amazing it is to just feed salt water, the spider will turn alive immediately and move in a frighten way.



鹽水動力燃料電池包含鎂合金片、不織布與空氣極，可讓車子行駛4個小時，每滴一次鹽水可跑15分鐘，每件組套附有3片鎂合金片供做替換。  
Salt water fuel cell kit contains a nonwoven fabric, a magnesium sheet and an air cathode. The magnesium metal sheet can operate the vehicle for about 3-4 hours continuously and watered/time allows the vehicle to run 15mins.

台灣專利證號

D141391

Age  
8+

大陸專利證號

ZL201030551195.1



鹽 : 水  
Salt : Water  
1 : 5

燃料電池模組  
Fuel Cell Module

台灣專利證號

D146882

Age  
8+



鹽 : 水  
Salt : Water  
1 : 5

燃料電池模組  
Fuel Cell Module

# 12 in 1 SOLAR & HYDRAULIC

## 12 合 1 百戰天龍

Item No : GE-618

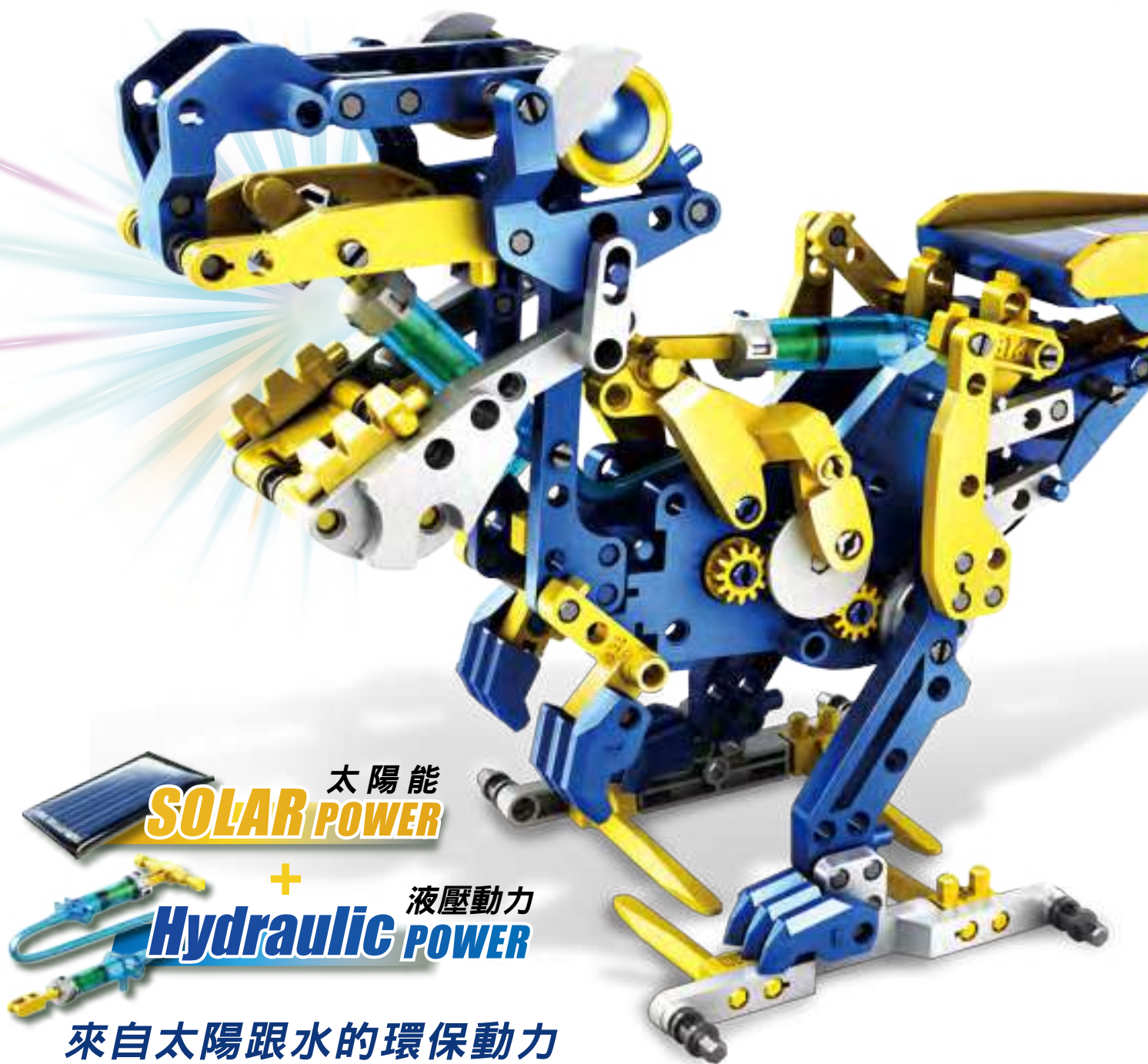
Age  
8+

台灣專利證號

D174783

大陸專利證號

ZL201730552703.X



太陽能  
**SOLAR POWER**

液壓動力  
**Hydraulic POWER**

來自太陽跟水的環保動力  
探索更多科學奧秘!

Solar power mechanical force hydraulic power



Size: 370x230x73mm

## 超過12種多變組合等你來創造!! 太陽能+液壓動力，無需電池 1 Kit, 2 Power, 12+ Festivities, More Fun!

12合1太陽能液壓動力百戰天龍結合太陽能動力與液壓動力設計而成，模型組裝超過12種玩法，每一個造型都是仿生模型，逼真活潑，只要太陽和水，無需電池，用歡樂讓孩子們學習替代能源及機械動力的技術概念，更讓孩子們走出戶外探索世界!孩子們可以透過雙手組裝培養邏輯能力，更透過功能的實現與觀察天龍們如何運作，學習更多科學奧秘。孩子們，用你自己的無限想像力再去創造第13個全新的變化吧!!

12 in 1 solar hydraulic powered robot is designed to have children learn the benefit of alternative energy and basic concept of these technologies. This product is powered by the sun and water, there are no batteries required. The reobot can move in direct sunlight and allows children to play with it outdoors and also encourage them to explore the world.



機械蠍  
Scorpion



無齒翼龍  
Pterosaurs



機械鴛鳥  
Ostrich



霸王龍  
T-Rex



機械猴  
Monkey



機械象  
Elephant



機械鱷魚  
Crocodile



主人與狗  
Master & Dog



堆高機  
Forklift



排障機器人  
Obstacle Avoiding Rover



挖土機  
Excavator



機械馬車  
Buggy

## TRANSFORMING 4 IN 1 SOLAR ROBOT

### 太陽能四戰士



Item No : GE-617

Age  
8+

台灣專利證號

D163020

大陸專利證號

ZL201330511181.0

### 走，享受陽光去吧！

太陽能四戰士是一款對環境安全、無毒、乾淨的太陽能電池模型玩具，永遠不需購買電池，在模型組合的啟發中認識「太陽能是一種新能源」的知識，太陽能四戰士高品質模型配件設計，即使年紀較小的孩子也可以輕易上手，享受4種不同型態機器人的組裝樂趣，讓我們在戶外享受太陽能科學玩具的樂趣吧!!

T4 is a basic Solar Robot Toy kit, powered by natural green energy source of Sunlight, - clean, eco-friendly and obtained easily from outdoors. No battery, no glue or screws required and easily build your own kit to change into 4 different working models for entertainment and fun.



## T3 TRANSFORMING 3 SOLAR ROBOTS 3合1 太陽能變形金剛

Item No : GE-614

**3合1 變形組合，不需電池**  
3 Working Models / No Battery

在透過與太陽能變形金剛的互動中，孩子可觀察陽光對機器人移動快慢影響以及不同造型中不同齒輪結構的運動方式，刺激孩子們更多觀察力與創造力。

T3 Transforming Solar Robot kit gives you the ability to create 3 different fun and educational models that move with solar nergy. Build a Robot, a Tank or a Scorpion, and the included solar panel will provide the power needed to make it move. The toy not only teaches kids about solar energy, but also helps them to develop building and motor skills and perceptiveness as well.



Size:180x70x210mm

Age  
8+

大陸專利證號

ZL201030200684.2



# SOLAR ROVER

Item No : GE-684  
太陽能探險車



Size: 210x180x69mm



**SOLAR POWER**

Age  
**8+**

台灣專利證號

D163020

大陸專利證號

ZL201730552703.X

**4輪傳動設計 6輪避震系統**  
**4 WD Design 6-Wheel Mechanical Suspension System**

太陽能探險車是為一部配有六輪避震系統的四輪驅動全地形車，能夠跨越所有障礙，盡情馳騁在任何地形之中，任何崎嶇路面都難不倒他，透過齒輪傳動系統和可調式機械手臂配合太陽能動力原理為孩子帶來更多學習的樂趣！

This is an all-terrain Solar vehicle, equipped with 6-Wheel mechanical Suspension and 4-wheel drive system. This super Rover conquers and goes beyond boundaries. Additionally, fantastic planetary gears transmission system and adjustable robotic arms add more interesting and fun for children to play and learn.



# SOLAR METAL RACER

太陽能小金剛

Item No : GE-681



Size: 160x110x50mm



**SOLAR POWER**

Age  
**8+**

台灣專利證號

D163020

大陸專利證號

ZL201530405509.X

**跟著陽光到處探險吧!**

小金剛探險車擁有科學、動力與速度，它以最經濟的迷你太陽能套件，最優質的品質，提供你最大的學習樂趣!

Solar Metal Racer just possesses all the qualities of a four tool player: power, speed, building, and cost effectiveness. It is affordable alternative to other high priced players, and the least expensive mini solar kit.





Size:205x155x45mm

## SOLAR WILD BOAR



### 太陽能野豬

Item No : GE-682

Age  
8+

台灣專利證號

D183032

大陸專利證號

ZL201630484329.X

## SOLAR POWER

小巧造型可愛的太陽能野豬，僅47個組件，組裝容易，即便是DIY初學者也能輕易上手，在組裝及操作過程可學習到機械傳動和太陽能動力知識，你絕對無法想像，在晴朗的陽光下，多麼的活靈活現！

Solar Wild Boar is a basic solar DIY toy. It is ideal for a DIY science fair, after-school or summer workshop project with the bonus gift of learning mechanical transmission and electrical motor theory. With only 47 assembly parts, you must hard to believe how cute this wild boar will be under sunshine!



Size:205x155x45mm

## SOLAR BUG

Item No : GE-683

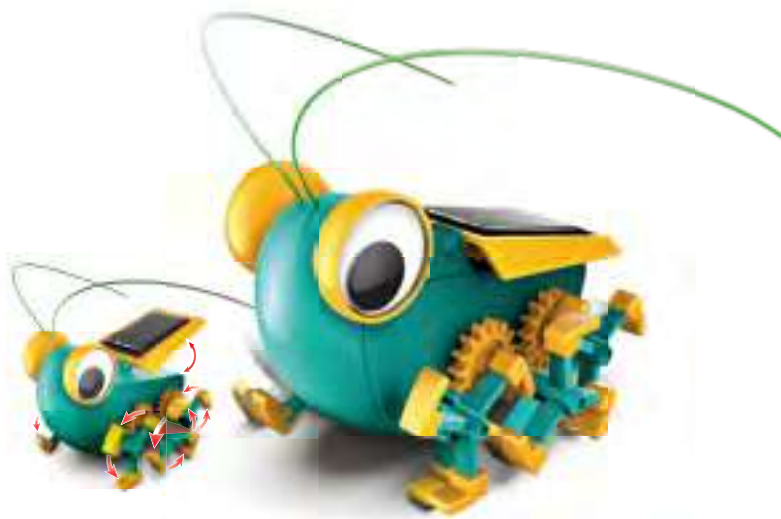


### 太陽能大眼蟲

## SOLAR POWER

太陽能大眼蟲獨特可愛造型，僅51個組件，組裝容易，即便是DIY初學者也能輕易上手。非常適合於DIY科學展展出，是孩子的第一次組合模型的最佳選擇，透過組裝及操作學習到機械傳動和太陽能動力知識。

Solar bug has only 51 assembly parts, which is ideal for a do-it-yourself science fair, and also a wonderful instrument for the beginner enthusiast with the bonus gift of learning mechanical transmission and electrical motor theory. With direct sunlight, this little bug will keep strutting and strutting with more vigor than you could imagine.



Age  
8+

台灣專利證號

D183031

大陸專利證號

ZL201630485894.8



Item No : GE-640  
7合1 太陽能充電車組



Size: 208x70x180mm

Age  
8+

台灣專利證號

D146883

大陸專利證號

ZL201130452403.7



**SOLAR POWER**

**太陽能充電站**  
**Solar Rechargeable Station**

**5種車款變化組合**  
**5 Vehicle Models**

**室內室外都能玩**  
**Suitable For Both**  
**Indoors & Outdoors**

只需要斜口鉗和你的雙手就能將所有塑膠件、太陽能板和小配件緊密結合，跟著說明書拼裝出兩種充電站和五種不同造型的酷炫車款! 充電站提供電力給各種形式的車子，白天能玩，晚上也沒問題，不論室內室外皆能充分享受玩的樂趣。

· 白天: 充電站可以透過太陽能板蓄電 · 晚上: 可以用一般電池提供充電站蓄電

This is an innovative solar science kit to make children exercise in creativity and imagination. Kit comes with all snap plastic parts (no screws or tools required), solar panel and accessories. It is easy to assemble with 2 power charging station modes and get 5 different vehicle models created. A full-time service of solar rechargeable station with 2 different styles, providing alternate twin power rechargeable sources (solar energy or AAA battery) to drive the motors and have the vehicles run. Experiment how solar energy to be re-charged and applied and learn its principles & knowledge in assembly.



迷你車 Solar Car

2 充電站造型卡車 & 充電站  
Rechargeable Station



小轎車 Concept Car



翻斗車 Dump Truck



跑車 Concept Racer



推土車 Bulldozer

**2種充電方式** Suitable for both indoors & outdoors

**充電站**  
**Station mode**



白天使用太陽能充電  
Day time  
Using solar energy to recharge.

**卡車充電站** (出貨不附電池)  
**Truck mode** not included



晚上使用一般電池充電  
Night time  
Using AAA battery x 2pcs

# 14 in 1 EDUCATIONAL SOLAR ROBOT KIT

Build your own solar robot kit Item No : GE-615

Age  
10+

## 14合1太陽能變形機器人



### SOLAR POWER

台灣專利證號

D146883

大陸專利證號

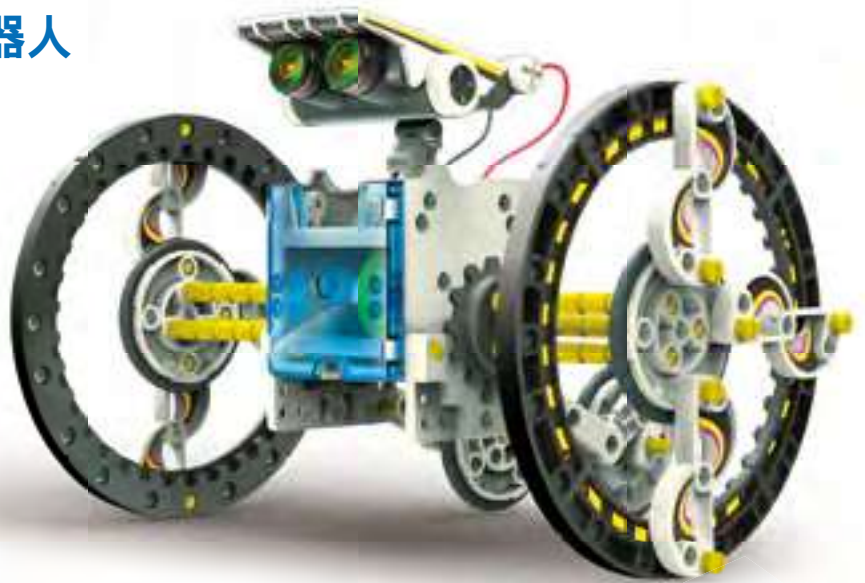
ZL201230484325.3

### 變換14種不同造型的機器人 樂趣多更多

**Creativity is no limit. Transform the robot as more as possible.**

只要一把斜口鉗加上雙手就能變化出14種不同造型的機器人，依據組裝難易度，我們將機器人分為初級版跟進階版提供給你參考，期待孩子們，發揮創意，創造第15種機器人喔！

The kit is powered by direct sunlight, so it requires no batteries. This kit allows children to create an amazing array of 14 different solar powered "Bots" using interchangeable pieces. Following are two levels of building these robot kits for your reference. We expect children to create their own unlimited unique designs!



將端子連接到太陽能板  
Easily connect the terminals to solar panel.



機器人頭部可上下調整,並快速縮入身體中  
Adjustable robot head which can be quick stored in the upper body.



機器人的頭可以安裝在機箱的前面、上面或後面  
The robot head can be installed in the front, top or rear of the gearbox.



透明殼體,讓孩子能清楚看到齒輪連轉結構  
Transparent housing to see the movements of the gears.

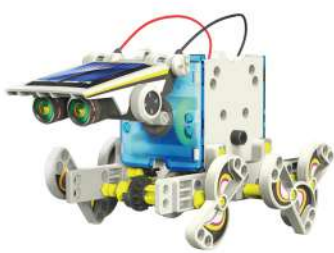
## 初級版 LEVEL 01



Size: 315x185x78mm



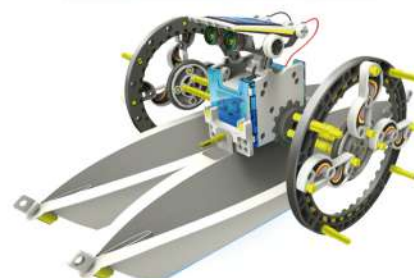
機器龜  
Turtle-bot



機械甲蟲  
Beetle-bot



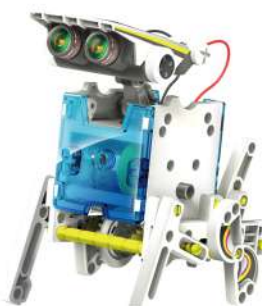
四足蟲  
Quadru-bot



船艇  
Boat-bot



行走機器人  
Walker-bot



機器狗  
Dog-bot



輪型機器人  
Wheel-bot

## 進階版 LEVEL 02



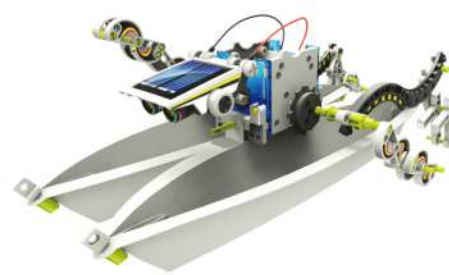
不倒翁  
Roly poly-bot



汽車  
Auto-bot



滑步機器人  
Slither-bot



衝浪機器人  
Surf-bot



機械拳擊手  
Boxer-bot



機器蟹  
Crab-bot



划船機器人  
Row-bot



Size: 180x70x210mm



Item No : GE-641

## 7合1太陽能星際艦隊

Age  
10+

台灣專利證號

D154923

大陸專利證號

ZL201230484178.X



**太陽能充電**  
**Solar Power**

**7種星際戰將變化組合**  
**7 Working Models**

**室內室外都能玩**  
**Suitable For Both Indoors & Outdoors**

浩瀚無窮的宇宙一向令人著迷,孩子們藉由"太陽能星際艦隊"的組裝與操作,不僅能夠知曉太陽能科學原理,還能激發創造力與想像力!!白天晚上都能充電;室內室外都能盡情享受太空冒險。

白天: 可以透過太陽能板蓄電。

晚上: 可以用一般電池蓄電。

To infinity and beyond! Create your own space station with the 7 in 1 solar rechargeable space fleet! Fun and easy to assemble for children and adults alike; this is an innovative solar-powered science kit. It provides opportunities to learn science principles. At the same time, it helps to increase creativities and develop imagination of space exploration. Suitable for both indoors and outdoors, the 7 in 1 solar rechargeable space fleet is an inventive and entertaining way to learn about space.

星際戰士 Space Mech



太空探測車 Space Explorer



太空人 Astronaut



太空站 Space Station



太空車 Space Rover



太空忠狗 Space Dog



太空船 Space Shuttle

# 6 in 1 EDUCATIONAL SOLAR KIT

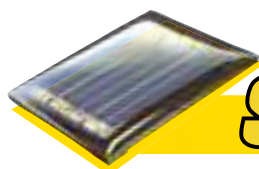
Item No : GE-610

太陽能教育組

Age  
8+



Size: 180x210x55mm



## SOLAR POWER

陸海空交通工具大變身  
三個願望一次滿足!

1 Kit, 6 Styles - From air to  
sea, sea to ground.

綠能陸海空科學組不用螺絲鎖扣，只要簡單的工具跟著說明書動手做就能輕鬆組成，是入門款的最佳選擇。不只可以組成兩種不同型態的飛機，還能變成汽車、小狗、船艇、風車、並從這六款身上可以觀察到六種不同的運動狀態，培養孩子的觀察力。

This is an excellent beginner educational solar kit, teaching the basic solar power principles and also how it drives the motor and makes movements of each model. Use the 21 snap together parts - no tools required - to build six different working models including an airboat, windmill, puppy, car and two different planes. Building these projects may teach the benefits of solar energy while having fun and also help develop children's perceptiveness.



太陽能繞行飛機  
Solar Revolving Plane



太陽能狗狗  
Solar Puppy



太陽能飛機  
Solar Plane



太陽能小汽車  
Solar Car



太陽能船艇  
Solar Airboat



太陽能風車  
Solar Windmill

# SUPER SOLAR RECYCLER

太陽能環保六金剛

Item No : GE-616



Size: 265x184x88mm

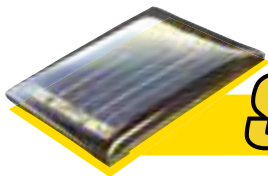
Age  
8+

台灣專利證號

D162768

大陸專利證號

ZL201330604511.0



**SOLAR POWER**

身邊垃圾變黃金，請撿起身邊不用的鋁罐、寶特瓶、CD片...等，馬上變身環保勇士！

**Garbage- the gold of tomorrow.  
Recycle and utilize, let's change trash to gold.**

這是一款獨特設計，喚起孩子環保意識並導入太陽能動力的科學玩具組。組套包含太陽能板、零配件、馬達、說明書。只要利用身邊隨手可得之回收物配合組套就可以輕鬆完成獨一無二的機器人喔！請跟著說明書的簡易圖文教學，讓孩子們將利用易開罐組成壓路機或機器人，使用寶特瓶變身為快艇、打鼓機器人或是飛鳥，還能用CD片組成賽車呢！

This is a totally green toy kit that powered by natural sunlight. (No battery required). Kit consists of all necessary parts, solar panel, motor and instruction. You could easily install and utilize recycled materials on the main structure and have your own solar kit with 6 different funway models and movements. For example, finding a drinking can to create a Street Roller and Walking Robot, using empty PET bottles to build a Bottle Yacht, Drummer Robot and Flying Bird, or, getting a scrap CD together to make a Racer run. Let's have our children play in an eco-friendly way, and learn a new green solar energy source as well as recycled materials used for earth and sustainable future.



漫步機器人 Walking Robot



極速賽車 CD-Racer



壓路機 Street Roller



擊鼓機器人 Drummer Robot



快艇 Bottle Yacht



飛鳥 Flying Bird

# THE SOLAR SYSTEM KIT

太陽能八大行星 Item No : GE-679



Size: 210x170x53mm

Age  
10+

台灣專利證

D137316



**SOLAR POWER**

- 認識八大行星運行  
Observe How the 8 Planet Orbit
- 啟發好奇心與觀察力  
Develop Perceptiveness & Curiosity
- 動手彩繪、美學創意  
Paint and Do-it-yourself

八大行星應該是大家都耳熟能詳的，但行星間是如何運行的，可能你就不是那麼清楚了，藉由太陽能八大行星的運行觀察，不僅認識太陽能動力，同時也深刻的認識了八大行星的運行位置，藉此訓練孩子的敏銳觀察力。你還可以親自動手為每顆星球著色，發揮無限創意，培養獨特的美感。

Children must delight in this Solar System Kit – as they build, paint and watch their very own Solar System come to life with real solar energy. Planets orbit around the solar-paneled “sun” that drives a motor so the planets actually move. This excellent kit provides a hands-on lesson about how solar power drives a motor. The kit comes with 6 colors of opaque acrylic paint, plus brush—which makes for the perfect exercise in science and creativity.



» DIY動手彩繪



# PERFECT TOOLS YOU MUST HAVE!

## 模型基礎必備推薦工具

SD-202B

- 橘黑雙色十字螺絲刀  
Pro-Soft Screwdriver (#1x75mm)



DK-2039

- 自動刀匣式美工刀  
Utility Knife



1PK-501A

- 不銹鋼掌心斜口鉗  
Micro Cutting Plier



PK-601

- 模型專用工具組  
Modeler Basic Craft Tool Set

最實用的基礎模型工具套組，新手上路必備，好工具帶來更大的便利性及DIY的成就感。

A must-have tool kit for model assembly. Right tool just makes everything right.



整套包含:

不銹鋼斜口鉗、鉻鉬鋼彩條十字螺絲刀、一字螺絲刀、不銹鋼防磁瘦尖鑷子、鑽石扁平挫刀、平口挫刀及精美收納盒

Contents:

Cutting plierx1 Flat filex1, Diamond flat filex1, Precision screwdriverx1, Super fine tip straight tweezersx1



PM-396F 不銹鋼斜口鉗 (11.5公分)

- 進口不銹鋼材, 斜嘴平口設計, 輕鬆將零件從模型板上平整剪下
  - 塑膠彈簧手柄更省力快速
  - 精巧設計, 操作更順手
- AISI 420 stainless steel assures corrosion-resistance.  
POM spring for self-opening action to supply smooth operation.



一字螺絲刀 (12公分)

- 打開模型或刮除合金板上的氧化物
  - 輕鬆將零件鎖附成型
- Additional application: scrape off oxide on the alloy plate.  
Ideal to release/fix the slotted screws.



十字螺絲刀 (12公分)

- 輕鬆將零件鎖附成型
- Ideal to release/fix the Phillips screws.



1PK-125T 不銹鋼防磁瘦尖鑷子 (12公分)

- 用來夾持、固定小零件, 也可用來夾持貼紙的細小物品
- Straight pointy tweezers is handy for gripping or fixing small parts or stickers.



9K002A/9K002B 鑽石扁平/平口挫刀 (13公分)

- 包含了鑽石扁平挫刀(精磨)與平口挫刀(粗磨) 提供零件表面處理
- Great for fine or coarse grinding.



# Aftermarket Support

市場行銷支援

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**Promote Pro'sKit® to get benefit!**



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為提供國客戶無時差的即時服務，**Pro'sKit®** 自有網站伺服器，方便客戶隨時下載產品圖片、說明書、影片等行銷支援。效率更上層樓！

**Pro'sKit®** owns private internet server center providing. It also contents product database with technical information support including Product Video Demonstration buying guide to help customers make the best item selection and product utilization. Do you **Pro'sKit®** today ? Please online now.



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台灣製造 專利研發 無毒環保

## LEARNING BY MAKING PLAYFUL LEARNING

製造商  
寶工實業股份有限公司  
新北市新店區民權路130巷7號5樓  
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