

轩诗迪® Sciensdy®

传感器、开窗机、开门机、安防家居产品的缔造者——Dweller  
Creator of sensor, window opener, door opener, security and home furnishing products—Dweller

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山东迪威尔光电科技有限公司  
Shandong Dweller Optoelectronics Technology Co., Ltd.

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# 电动开窗机

## ELECTRIC WINDOW OPENER



山东迪威尔光电科技有限公司

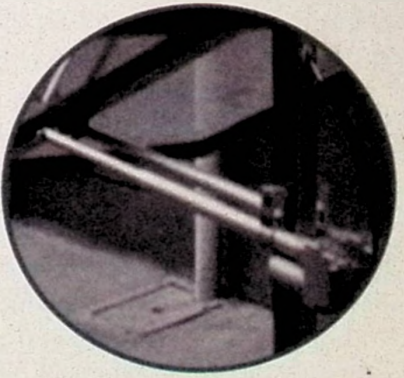
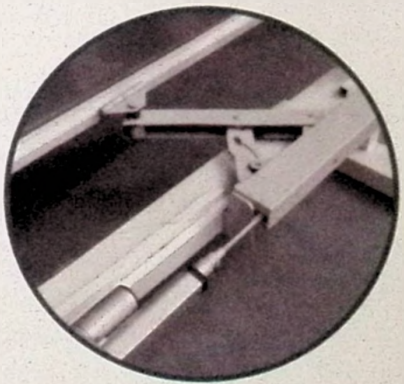
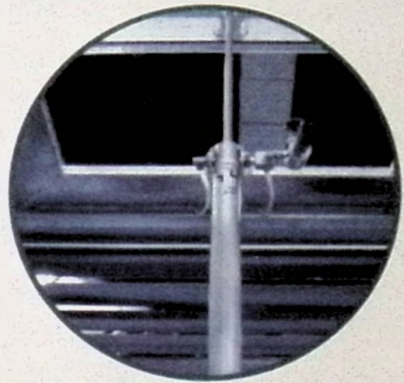
SHANDONG DWELLER OPTOELECTRONICS TECHNOLOGY CO., LTD.

香港迪威尔光电集团有限公司

HONGKONG DWELLER OPTICAL GROUP LIMITED



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山东迪威尔光电科技有限公司，坐落于美丽的海滨城市烟台，位于国家渤海蓝色经济区内，便利的海、陆、空交通为企业提供了优越的发展环境和条件，公司身处深具前景和潜力的智能化电子行业，坚持专业智能安防家居路线，专注于开发和运营开窗机及门控产品，以其全面创新的意识和行动带动和促进了智能化安防家居行业的复兴与发展。目前在香港、山东设有机构，直属员工 200 余人，已成为一家集研发、生产、销售、推广、服务于一体的现代化实力企业。

公司与美国菲利普光电 (JCL) 技术公司合作依靠先进的技术实力开发了先进的门控、窗控、车位器、传感器等物联网相关光电科研项目，迪威尔拥有全套 SMT 生产线、马达、变压器、铸铝、铸塑生产线。自成立以来研发生产了系列智能遥控车库门开门机、智能开窗机、遥控车位锁、卷帘门管状电机、控制器、各种遥控器等高科技物联网智能化安防家居产品，深受市场欢迎。



Shandong Dweller Optoelectronics Technology Co., Ltd. is located in the beautiful coastal city of Yantai, listed in the national Bohai Blue Economic Zone. The convenient transportation on sea, land and air provides the Company with superior development environment and conditions. The Company is engaged in the intelligent electronic industry with deep prospects and potential, and insists on the professional intelligent security home furnishing route, focusing on the development and operation of window openers and control products, with its comprehensive innovative awareness and action to drive and promote the revival and development of the intelligent security home furnishing industry. At present, the Company has offices in Hong Kong and Shandong, and has more than 200 employees. It has become a modernized enterprise integrating R&D, production, sales, promotion and service.

The Company has cooperated with Philip Optoelectronics (JCL) Technology Co., Ltd. (USA) to develop advanced IOT-related optoelectronic scientific research projects such as door control, window control, parking space, sensors, etc. with advanced technology strength. Dweller has a full set of SMT production lines, motors, transformers, cast aluminum, casting production line. Since its establishment, it has developed and produced a series of intelligent remote control garage door openers, intelligent window openers, remote control parking locks, rolling door tubular motors, controllers, various remote controls and other high-tech Internet of Things intelligent security home products, which are well received by the market.



作为物联网智能化家居行业的专业者，迪威尔一直秉持专注、诚信、创新、规范、共赢的企业理念，以消费需求为先导，以丰富产品开拓应对市场细分，以量身定制的客户化服务满足个性化需求。迪威尔面对智能家居的全面市场，坚持鲜明的产品创新理念，运用“个性化应用”的产品开发思路，以产品的独特性，不断的将产品内容智能化、产品升级化，创新传统智能安防家居市场，引导市场需求和升级换代。旨在以生产研发的核心资源、创新精良的优质产品、先进严谨的管理制度及强势有效的行销体系，为广大客户提供最具实用的智能化安防家居产品。

As a professional in the intelligent home industry of the Internet of Things, Dweller has always adhered to the company philosophy of focus, integrity, innovation, standardization and win-win, taking consumer's demands as the guide, enriching product development and responding to market segmentation, and tailoring it. The customized services meet individual needs. Facing the comprehensive market of smart homes, Dweller adheres to the bright product innovation concept, applies the product development ideas of "individualized application", intellectualizes and upgrades the contents of products, innovates the traditional smart home market, and guides the market demand and upgrade. With the core resources of R&D, innovative high-quality products, advanced and rigorous management system and strong and effective marketing system, we aim to provide our customers with the most practical intelligent security home products.



未来，迪威尔将继续着眼于门控、窗控等系列高技术产品的技术研发，随着物联网智能化安防家居产业的发展，紧抓行业机遇，迎合不同的消费需求，不断向更广阔的领域发展，也将积极推动中国物联网智能化安防家居市场进一步走向成熟！

Dweller will continue aiming at technical R&D of series of hi-tech products such as door and window controls. It will also seize industrial opportunities, meet different consumption demands and positively promote further maturity of internet of things, intelligent safety security home market in China along with the development of internet of things intelligent safety & security home industry.

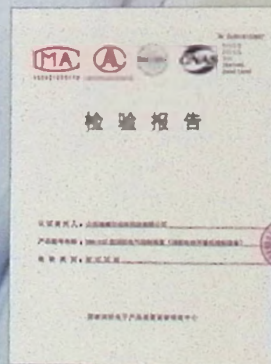
基于前瞻的产品意识和敏锐的市场判断，迪威尔坚持自主研发生产，不断创新超越。高水平研发团队及大量的研发投入，确保产品可适应当前高科技产品的发展。在此基础上迪威尔与航空 513 所，207 所等国内顶尖的科研机构保持密切合作关系，并与烟台大学结成校企合作队伍，供烟大研究生在公司实习，实现了双赢合作的目标。

迪威尔坚持以人为本和创新应用，打造结构完整、技术雄厚的研发队伍，建立严格规范、系统先进的生产基地，开发功能完备、客户满意的解决方案，同时也提供素质一流、专业完善的服务保障。本着“高举高打”的战略思维，站在整个物联网产业的高度，始终在智能化家居市场的盘整与提速中扮演着关键性角色。

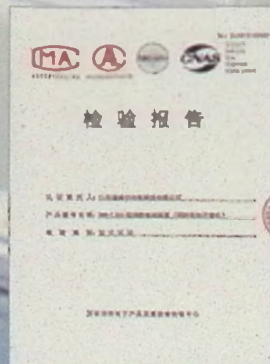


Based on perspective product awareness and acute market judgment, Dweller abides by independent R&D and production, and making innovations gradually. With high-level R&D team and plenty of R&D input, the Company ensures the products could be adapted to the development of hi-tech products at the present, based on which Dweller has kept close partnership with high level scientific research institutions including Aviation Research Institute 513 and 207. Besides, it builds university-enterprise cooperation team with Yantai University and provides internship places for graduate students of Yantai University, thus achieving the goal of win-win cooperation.

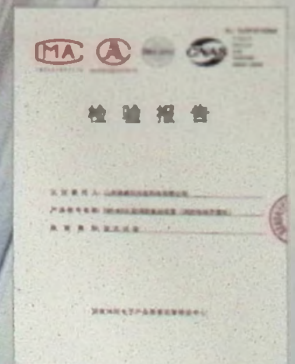
Dweller abides by people-oriented and innovative applications to build research team with complete structure and strong technical strength, establish strict, standard, systematic and advanced production base, and develop solutions offering complete function and customer satisfaction. Meanwhile it also provides first-rate quality and professional service guarantee. Based on strategic thinking of "forging ahead" and at the height of whole internet of things industry, the Company has always played a critical role in consolidation and acceleration of intelligent home market.



消防电动开窗机检验报告  
Test report of fire-fighting electric window opener



链式开窗机检验报告  
Test report on chain type window opener



链式开窗机检验报告  
Test report on chain type window opener

## 迪威尔开窗机生产检测设备

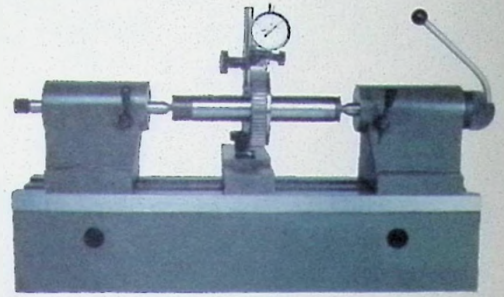
### Dweller Production Testing Equipment Of Window Opener

迪威尔拥有全套 SMT 生产线、马达、变压器、铸铝、注塑生产线，并斥资引进了全套先进的开窗机生产、检测设备，对所有开窗机产品均按照或超过国际标准进行严格检验测试，通过严谨的工作态度和丰富的管理经验，配合先进的生产工艺，按照 ISO9001 质量认证体系规范管理，使产品达到行业先进水平。

Dweller has a complete set of SMT production line, motor, transformer, cast aluminum and injection molding production line.

Dweller has also introduced a complete set of advanced window opener production and testing equipment, carrying out rigorous tests according to international standards or above, with rigorous work attitude and rich management experience.

With the advanced production technology, in accordance with the requirements of the ISO9001 quality certification system, the products have reached the advanced level of the industry.



偏摆仪 Deflection instrument



电解电容漏电检测仪  
Electric leakage detector of electrolytic capacitor



影像仪 Imager



洛氏硬度计  
Rockwell hardness tester



电子耐温箱  
Electronic temperature resistance box



双踪示波器 Double-trace oscilloscope



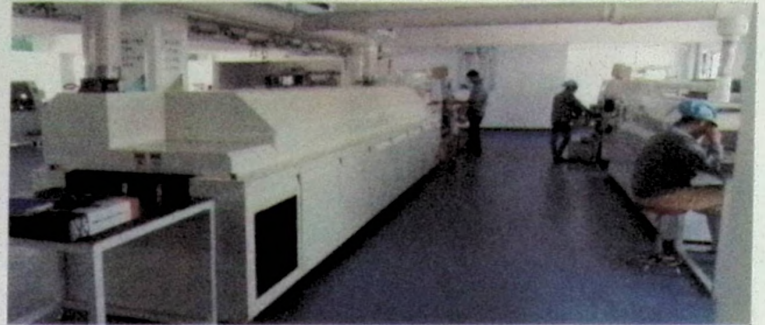
耐压测试仪 Voltage resistance tester

# 迪威尔电动开窗机生产检测设备

Dweller electric window opener detection equipment



SMT 设备 SMT equipment



整洁明亮的现代化生产线 Tidy & bright modern production line



插件机 Plug-in machine



开窗机安装测试 Installation test



开窗机寿命试验 Service life test



等待发货的开窗机成品 Ready for delivery openers



开窗机电机检测 Motor detection



开窗机外壳生产 Shell production



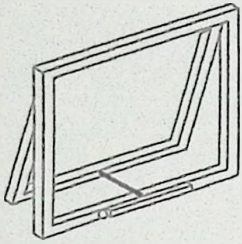
贴片机 SMT mounter



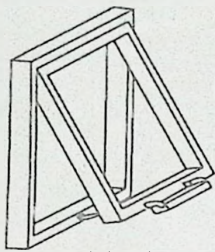
开窗机移印机 Pad printing machine

# 迪威尔电动开窗机适用窗型

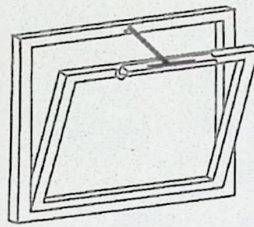
Applicable window types of Dweller electric window opener



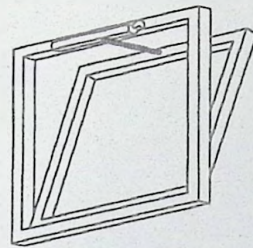
顶悬外开窗  
Top-hung out-opening window



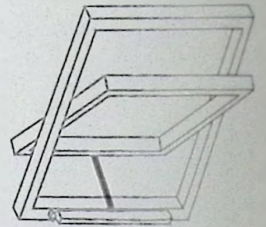
顶悬内开窗  
Top-hung in-swinging casement window



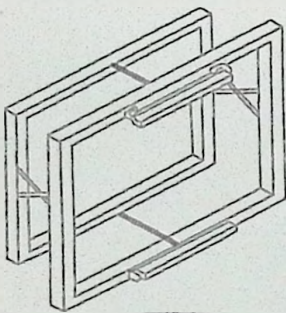
内倒窗  
Internal tilt-turn window



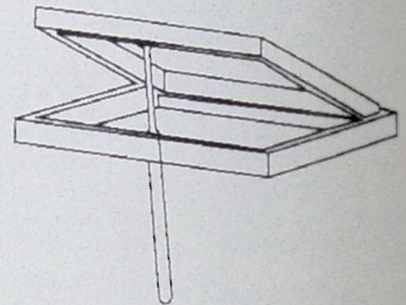
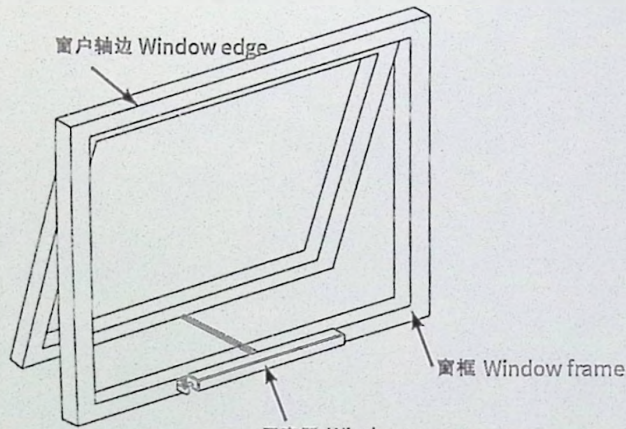
外倒窗  
External tilt-turn window



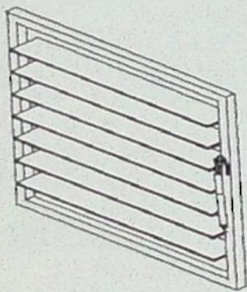
中悬窗  
Center-pivoted window



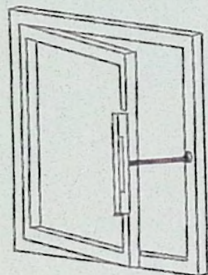
平推窗  
Casement window



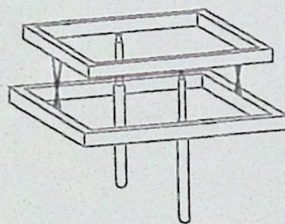
顶悬外开天窗  
Top-hung out-opening window



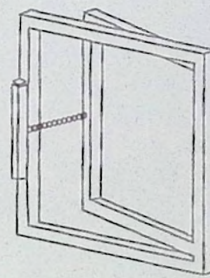
百叶窗 Louver



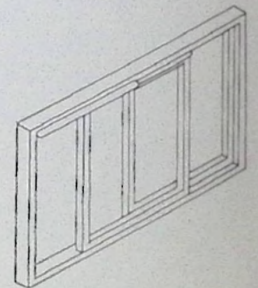
内平开窗  
Internal casement window



平推天窗  
Plane sliding window



外平开窗  
External casement window



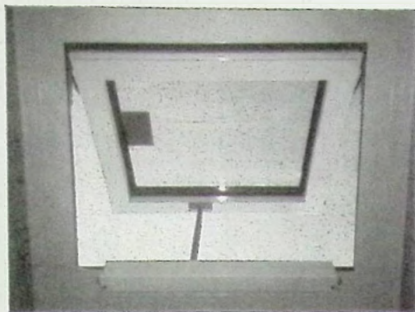
推拉窗  
Sliding window



# 电动开窗机产品

Dweller actuator for windows





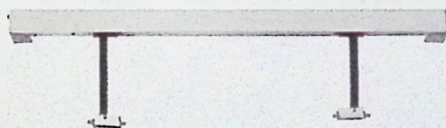
## 链式电动开窗机

### Chain Type Electric Window Opener

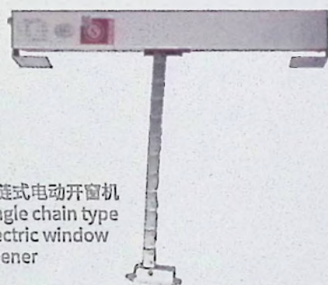
- 本产品是采用现代高新科技制造，使用符合国家消防标准的铝型材材质，开启和关闭自动保护系统，手动控制盒远距离无线控制，使用方便，美观，安全智能，轻松保持室内空气流通。
- 开窗时链条从开窗器伸出，把窗扇推开，关闭时链条隐藏到开窗器内。
- 设计寿命负载开闭 20000 次以上。
- 坚固的链条，不易折断，旋转支架，另有电子保护，使窗户关闭的很严密。
- 可连接 WIFI，手机遥控开窗、关窗，带您走向智能化生活。
- This product is made of modern high-tech technology, applying aluminum material that meets national fire protection standards, opening and closing automatic protection system, manual control box remote wireless control, easy to use and beautiful, safe and intelligent to maintain indoor air circulation.
- When the window is opened, the chain extends from the window opener, and when the window sash is pushed open, the chain is hidden into the window opener.
- Design life load opening and closing more than 20000 times.
- The sturdy chain is not easy to break the rotating bracket, and the electronic protection makes the windows closed very tightly.
- Can be connected to WIFI, mobile phone remote window, window, take you to intelligent life.

当火灾发生时，感应报警器发出报警信号并传输至智能管理系统，联动控制电动开窗机的开启，同时将这些信息发送到远程监控管理中心，实现对突发灾害及时、快捷、准确的监控。

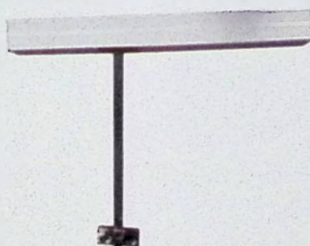
In case of fire disaster, the sensing alarm device sends out alarm signal and transmits it to the intelligent management system to realize coordinated control of electric window opener. Meanwhile it sends the information to remote monitoring management center to realize immediate convenient and accurate monitoring of sudden-onset disaster.



双链式电动开窗机  
Double-chain type electric window opener



单链式电动开窗机  
Single chain type electric window opener



小链式电动开窗机  
Small chain type window opener

### 适用范围 Scope of Application

广泛应用于机场、宾馆酒店、展览中心、会议中心、体育场馆、歌剧院、科技馆、购物中心，温室花园、工业厂房、仓库等公共场所和高档别墅、阳光房、普通住宅的上悬窗、下悬窗、平开窗、推拉窗及屋顶天窗。

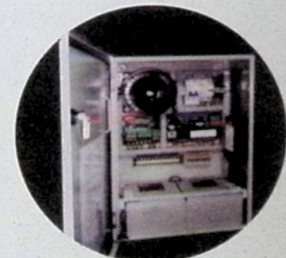
Widely used in public places such airports, hotels, exhibition centers, convention centers, stadiums, opera houses, science and technology museums, shopping centers, greenhouse gardens, industrial plants, warehouses, etc. and also in high-grade villas, sun rooms, ordinary residential windows, hanging windows, casement windows, sliding windows and roof skylights.



火灾发生时  
When fire occurs



感应器报警并传输至智能控制系统  
Sensor gives out alarm and transmits to the intelligent control system



智能控制系统联动消防安防系统  
Intelligent control system coordinates firefighting & security system



联动控制开窗机自动开启  
Automatic starting of coordinated control window opener

电动链式开窗机 Electric chain window opener	技术参数 Technical parameters
推力 / 拉力 Push/Pull (N)	300~400
环境温度 Ambient temperature (°C)	-15→35
速度 Speed (mm/s)	10
规格 Specifications (mm)	A*41*51
供电电压 Supply voltage (V)	220
最大工作电流 Max. working current (A)	1
保护等级 Protection grade (IP)	32
行程距离 Travel distance (mm)	300~1000
设计寿命 (次) Designed service life (times)	20000

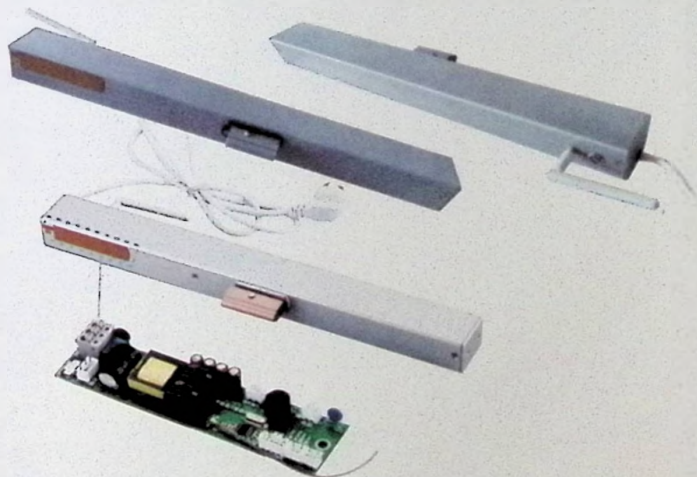
# 迪威尔电动开窗机

Dweller actuator for windows

## 雨感电动开窗机

Rain Sensing Electric Window Opener

- 产品外观精美、简洁、操作及安装方便快捷。
  - 产品主体及支架为铝合金和不锈钢 304 材质。
  - 链条材质为不锈钢链条。
  - 具有行程开关过载保护装置。
  - 产品通过 3 万次的寿命测试与满载工作测试。
  - 开窗机内置控制器，自带按钮，一键控制开、停、关。
- The product looks beautiful, simple, and easy to operate and install.
  - The main body and bracket are made of aluminum alloy and stainless steel 304.
  - The chain is made of stainless steel chain.
  - With stroke switch overload protection device.
  - The product passed 30,000 life test and full load test.
  - Window opener has built-in controller, with button, one control open, stop.



下雨天自动关窗

Automatic close in rainy weather

迪威尔智能开窗机——解决您的智能开窗开关安全。

Dweller intelligent window opener-ensure your safety of opening & closing windows.

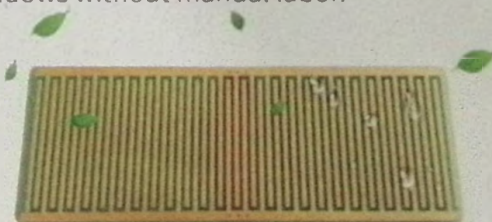


雨水感应芯片 实现自动关窗

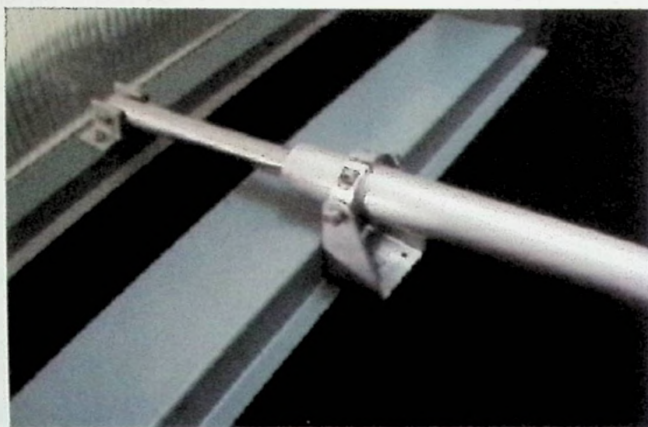
Rain sensor chip enables automatic closing of windows

迪威尔智能开窗机加入雨水感应芯片，做到无需人手也可以及时开合窗户。

With rain sensing chip, Dweller intelligent window opener realizes opening and closing windows without manual labor.



雨感电动开窗机 Rain Sensing Window Opener	技术参数 Technical parameters
推力 / 拉力 Push/Pull (N)	300-400
环境温度 Ambient temperature (°C)	-15~+35
速度 Speed (mm/s)	10
规格 Specifications (mm)	A*41*51
供电电压 Supply voltage (V)	220
最大工作电流 Max. working current (A)	1
保护等级 Protection grade (IP)	32
行程距离 Travel distance (mm)	300-1000
设计寿命 (次) Designed service life (times)	20000



电动螺杆式开窗机 Electric screw-type casement window	技术参数 Technical parameters
推力 / 拉力 Push/Pull (N)	1200
环境温度 Ambient temperature (°C)	-15~65
速度 Speed (mm/s)	4
供电电压 Supply voltage (V)	220
最大工作电流 Max. working current (A)	1.8
保护等级 Protection grade (IP)	35
行程距离 Travel distance (mm)	100~1500
常用行程 Common travel distance	300/500/600/1000/1200

## 螺杆式电动开窗机

### Screw Electric Window Opener

- 铝合金外壳，漂亮美观大方。
  - 采用防腐技术进行处理，能长时间耐腐蚀。
  - 材料刚性强，保证了窗户的平稳安全运行。
  - 大于 1 万次推出与拉回测试，3 万次开启设计寿命。
  - 自锁功能增加防盗系数。
  - 适合各种上、中、下悬窗、平开窗、推拉窗、点式玻璃幕墙及其他幕墙。
  - 内置超负荷电子过载保护。
- Aluminum alloy shell, beautiful and elegant.
  - Adopt anticorrosive technology for long time corrosion resistance.
  - Strong rigidity of materials ensures smooth and safe operation of windows. More than 10 thousand times to go out and pull back test 30 thousand opening design life.
  - Self lock function to increase Burglar resistance coefficient.
  - Suitable for all kinds of hanging windows, flat windows, sliding windows, point type glass curtain walls and other curtain walls. Built-in overload electronic overload protection.
  - protection electric screw window opener.

## 曲臂联动智能控制系统

### Curved arm linkage intelligent control system

曲臂联动开窗器主要用于工厂车间的一楼多扇位持窗的电动开启控制，通过接收来自消防报警系统的报警信息，联动电动开窗机的打开和关闭，并且将这些信息同步到远程监控管理中心，以便对消防设施的运行和管理实现及时、快捷、准确的监控，利用一个电机驱动多个窗扇的电动开启，更具经济使用价值。安装、使用方便。利用长曲臂和短曲臂结合的方式进行开关窗，是厂房排烟的最理想电动开启方式。

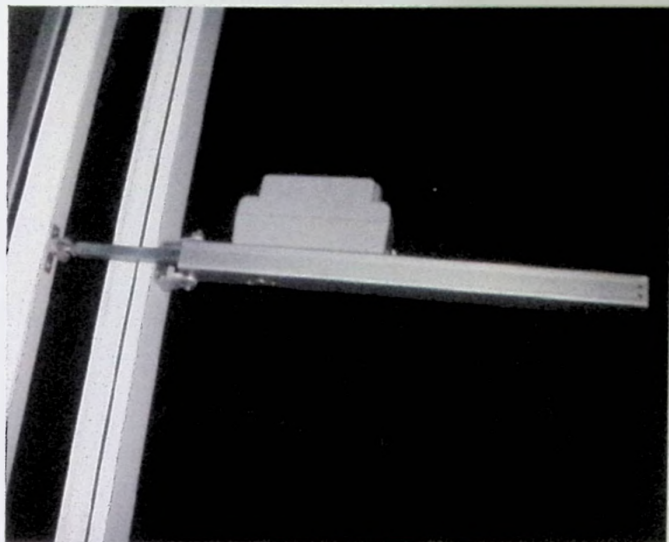
The curved arm linkage window opener is mainly used for the electric opening control of a multi-fan window in the factory workshop. By receiving alarm messages from the fire alarm system. Open and close of connected electric window opener. And synchronize this information to the Remote Surveillance Management Center. To monitor the operation and management of fire protection facilities in a timely, fast and accurate manner, It is more economical to use one motor to drive the electric opening of multiple window fans, Easy to install and use. Using the combination of the long curved arm and the short curved arm to switch the window is the ideal electric opening method for the factory to exhaust smoke.



电动曲臂 Electric crank arm

# 迪威尔电动开窗机

Dweller actuator for windows



## 齿条式电动开窗机

### Rack Type Electric Window Opener

- 铝合金外壳，漂亮美观大方。
- 齿条表面采用防腐技术进行处理，能长时间耐腐蚀。
- 材料刚性强，保证了窗户的平稳安全运行。
- 大于1万次推出与拉回测试，3万次开启设计寿命。
- 自锁功能增加防盗系数。
- 适合各种上、中、下悬窗、平开窗、推拉窗、点式玻璃幕墙及其他幕墙。
- 内置超负荷电子过载保护。

- Aluminum alloy shell, beautiful appearance.
- The rack surface is made by anti-corrosion processing technology, can be corroded in long time.
- Using strongly Material, ensure the smooth operation of the window.
- More than ten thousand tests, thirty thousand times open life design.
- The self-locking function to increase the anti-theft coefficient.
- Suitable for all kinds of glass curtain wall
- Built in high load electronic overload protection function.

齿条式开窗机 Rack-and-pinion Electric Window Opener	技术参数 Technical parameter	
名称 Name	DWR-CT550	DWR-CT750
推力 / 拉力 Push/Pull (N)	600	800
温度环境 Ambient temperature (°C)	-10~70	-10~70
推动速度 Speed (mm/s)	7	8
输入电压 Supply voltage (V)	DC 24	DC 24
最大工作电流 Max. working current (A)	1.2	1.4
防护等级 Protection grade (IP)	65	65
行程距离 Travel distance (mm)	550	750



## 曲臂式手摇开窗机

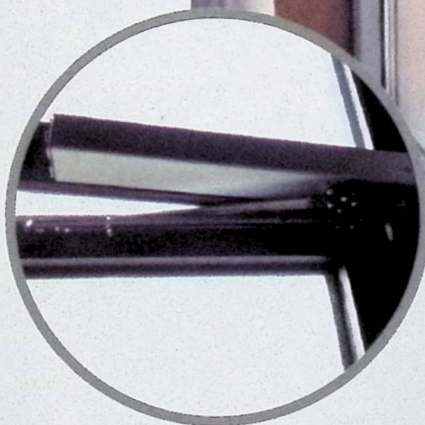
### Electric Single Arm Type Window

- 铝合金外壳，漂亮美观大方
- 表面采用防腐技术进行处理，能长时间耐腐蚀
- 材料刚性强 保证了窗户的平稳安全运行
- 大于1万次推出与拉回测试，3万次开启设计寿命
- 适合各种上、中、下悬窗、平开窗、推拉窗、点式玻璃幕墙及其他幕墙。

- Aluminum alloy shell, beautiful appearance
- The rack surface is made by anti-corrosion processing technology, can be corroded in long time
- Using strongly Material, ensure the smooth operation of the window
- More than ten thousand tests, thirty thousand times open life design
- Suitable for all kinds of glass curtain wall.



曲臂式手摇开窗机 Electric Single Arm Type Window	技术参数 Technical parameter
开启角度 Open Angle	30~70
推动速度 Speed (mm/s)	4
环境温度 Ambient temperature (°C)	-15~75
保护等级 Protection grade (IP)	65



## 平开式电动开窗机

### Flat Type Electric Window Opener

- 外形美观大方, 不影响现有窗户的美观, 速度快
- 不受行程限制, 行程可自行调节, 最大可开启 90 度
- 所有配件采用 304 不锈钢材质
- 经过数万次开关测试
- 适合内平开窗、外平开窗、悬窗、门上 (力量小)
- Appearance is beautiful and easy, don't effect the beauty of the existing Windows and fast speed
- It is not limited by the travel schedule. The trip can be adjusted by itself, with the maximum opening of 90 degrees
- All accessories are made of 304 stainless steel
- Tested by tens of thousands of switches
- Suitable for inward casement window, outer casement window, hung window and door (small force)



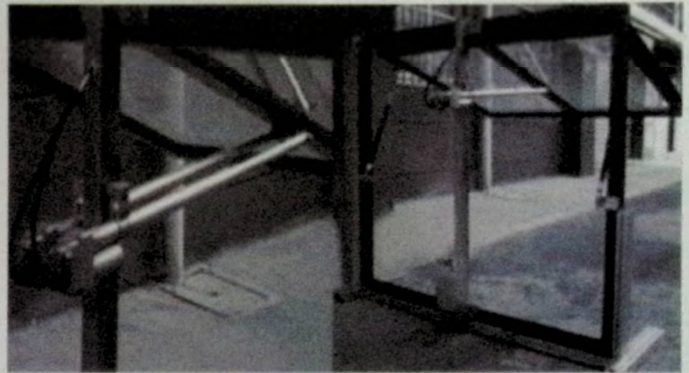
平开式电动开窗机 Flat type electric window opener	技术参数 Technical parameter
推 / 拉力 Pushing/Pulling force (N)	200
温度环境 temperature environment (°C)	-20~75
推动速度 Speed	3-6S 可开启 90 度 (can open 90 degrees)
最大工作电流 maximum operating current (A)	1.5
防护等级 levels of protection (IP)	32

# 迪威尔电动开窗机

Dweller actuator for windows

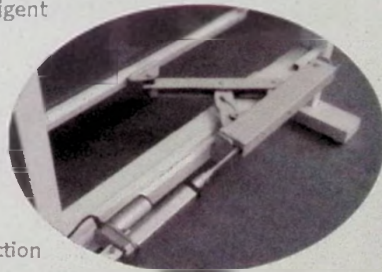
## 推杆式电动开窗机

Pushrod type electric window opener



- 外观简洁, 美观大方。
- 良好的防水防尘耐腐蚀性能。
- 材料刚性强, 保证了窗户的平稳安全运行。
- 多种安装支架选择, 满足不同的安装需求。
- 大于 1 万次推出与拉回测试, 3 万次开启设计寿命。
- 自锁功能增加防盗系数。
- 可以配接风雨、温度、烟雾感应器, 紧急按钮、遥控等多种智能产品, 实现智能一体化控制系统。
- 适合各种上、中、下悬窗、平开窗、推拉窗、玻璃幕墙、大型排烟通道口等各种窗型。
- 内置超负荷电子过载保护。

- Concise and beautiful appearance.
- Excellent waterproof, dustproof and corrosion resistance performance.
- Strong rigidity of materials ensures stable and safe operation of window.
- Multiple strut installation selections satisfy different installation requirements.
- More than 10 thousand times' pushout and pullback testing and 30 thousand times' opening design service life.
- Self-lock functional antitheft coefficient
- Can be connected with various intelligent products including wind, rain, temperature, smog sensor, emergency push button and remote control to realize intelligent integrated control system.
- Applicable to various window types such as: various top, middle bottom-hung windows, casement window, sliding window, glass curtain and large-scale smoke exhaust channels.
- Inbuilt electronic overload protection



推杆式开窗机 Rack-and-pinion Electric Window Opener	技术参数 Technical parameter			
名称 Name	DWR-TG600	DWR-TG450	DWR-TG350	DWR-TG120
推力 / 拉力 Push/Pull force (N)	6000(push)/4000(pull)	3500-4500(static load)	3500	1200
输入电压 Input Voltage	12 / 24 / 110V DC	12 / 24V DC	12 / 24V DC	12 / 24V DC
最大速度 MAX. Speed	4.2mm/sec (no load) 2.9mm/sec (6000N)	33.5mm/sec (no load)	8mm/sec(no load) 7mm/sec(3500N)	35mm/sec(no load) 25mm/sec(1200N)
防护等级 Protection Grade(IP)	42	54		54
行程距离 TRAVEL DISTANCE	50-300mm	102-610mm	102-610mm	100-350mm
工作周期 Working cycle	10%(continuously working time max.2 mins)	25% (continuously working time max.4mins within 16mins)	25% (continuously working time max.2mins)	10% (continuously working time max.2mins within 10mins)

## 推拉式电动开窗机

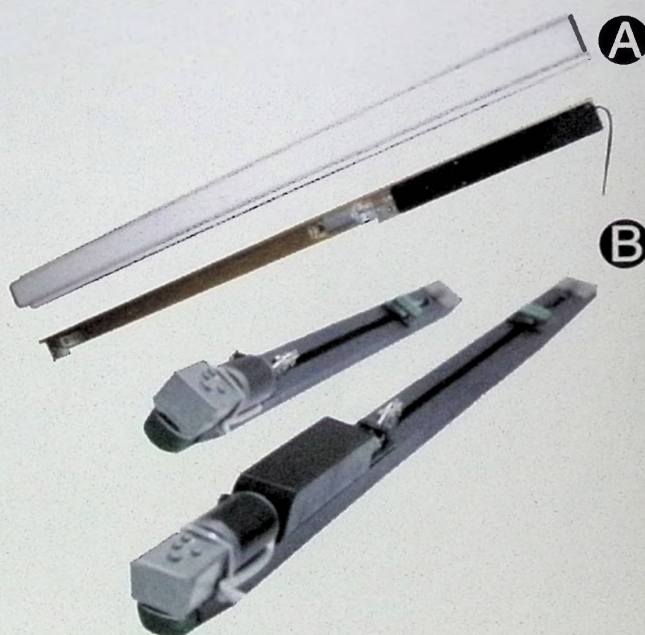
### Push-pull Type Electric Window Opener

- 铝合金外壳，时尚美观，简洁大方。
- 良好的防水防尘耐腐蚀性能。
- 材料刚性强，保证了窗户的平稳安全运行。
- 内置可调式双行程开关，有效保护电机的使用寿命。
- 独特的轨道以及外壳设计，安装便捷（可配合纱窗安装）
- 大于 2 万次负载、推拉寿命测试。
- 行程可根据客户需求定制，同步皮带传动，噪音低。
- 内置超负荷电子过载保护。
- 可与风雨、温度、烟雾、煤气感应器配合使用，可安装紧急按钮、遥控等多种智能产品，并可接入消防联动系统，实现智能一体化控制系统，有效保障用户生命财产安全。

- Aluminum alloy shell, stylish, simple and elegant.
- Good waterproof, dustproof and corrosion resistance.
- The rigidity of materials is strong, which ensures the smooth and safe operation of windows.
- Built in adjustable dual stroke switch can effectively protect the service life of the motor.
- Unique track and shell design, convenient installation (with window screen installation).
- More than 20 thousand times of load and push pull life test.
- Travel distance can be customized according to customer needs, synchronous belt drive, low noise.
- Built in overload electronic overload protection.
- It can be used in conjunction with wind and rain, temperature, smoke and gas sensors. Emergency buttons can be installed.
- Remote control and other intelligent products, and access to fire linkage system to achieve intelligent integrated control. The system ensures the safety of users' lives and property.



技术参数 Technical parameter	推拉式开窗机 Electric Push-pull Window Opener
推 / 拉力 Pushing/Pulling force (N)	200
输入电压 Input Voltage (V)	220V - 50Hz
最大工作电流 maximum operating current (A)	1.2
最大速度 Max speed	60mm/sec
防护等级 levels of protection (IP)	55
行程距离 Travel Distance (mm)	800~3000
温度环境 temperature environment (°C)	-25~75



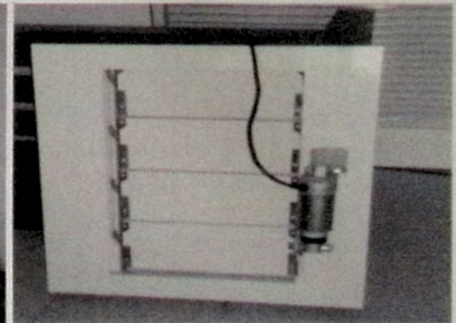
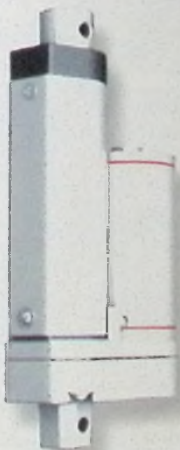
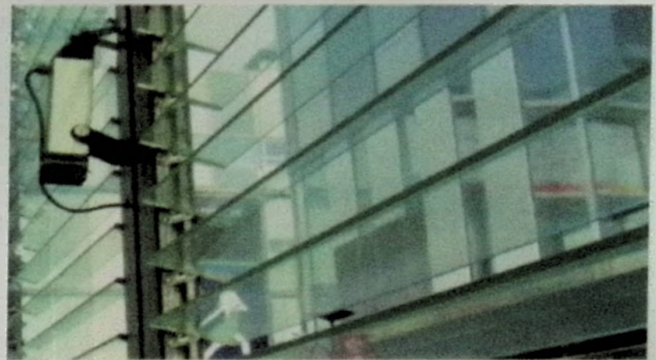
### 电动百叶窗

#### Electric Louver



- 采用进口 220V 交流管状电机。
- 电机噪音小，旋钮式行程调试，行程控制精确、可靠。
- 根据窗帘的重量、面积的大小选择电机型号。
- 单套产品最大宽度 4 米，最大高度为 5.5 米。
- 卷线器经独特设计，一台电机即可完成百叶帘片的翻转和上下收放。
- 百叶帘叶片宽度一般为 25mm 或 50mm，材质有铝合金叶片、竹、木片等。
- 配合使用自行研制的万向节中座，可以实现一台电机驱动几幅百叶帘。
- 内置超负荷电子过载保护。
- 可与风雨、温度、烟雾、煤气感应器配合使用，可安装紧急按钮、遥控等多种智能产品，并可接入消防联动系统，实现智能一体化控制系统。

- Imported 220V AC tubular motor.
- Low noise of motor, rotary knob type stroke debugging, accurate and reliable stroke control.
- Select the motor model according to the weight and area of the curtain.
- The single product has a maximum width of 4 meters and a maximum height of 5.5 meters.
- The reel is uniquely designed, and one motor can complete the turning and hoisting of the blinds.
- The width of the blind blades is generally 25mm or 50mm. The material is made of aluminum alloy blades, bamboo and wood chips.
- With the use of the self-developed universal joint middle seat, it is possible to realize several blinds driven by one motor.
- Built-in overload electronic overload protection.
- It can be used together with sensors of wind and rain, temperature, smoke and gas, and can be installed with intelligent items such as emergency button, remote control, etc., and can be connected to the fire linkage system to achieve intelligent integrated control system.



# 自动开窗机 在火灾中的重要作用



位于某市的高层突发火灾，烈火熊熊，浓烟遮天，火着了一夜后，仍有大量浓烟弥漫。离厦门前的警戒线内，消防官兵不时进出，由于该商场二楼买塑料制品，三楼买家具，浓烟不断，一有风吹过，浓烟势头更大。烟雾有浓烈的刺激性气味，是塑料焚烧过的味道，一些消防官兵背起了“空气呼吸机”戴上防毒面罩。

据科学分析：在火灾中死难的人员大部分是被浓烟熏死，如果采用通风引入空气对流，把烟气排出，大大降低人员的死亡率。因此，在人口密集的场所，必须安装顶部开启窗，高窗开启排烟采用开窗机的应用。

## Significant Role Of Automatic Window Opener In Fire Disaster

A commercial building is suddenly caught on fire with big flame and heavy smoke. Plenty of dense smoke even remains after the fire burning all night long. The firemen come in and out from time to time within the warning line in front of the building. As the plastic products are sold on the second floor, and furniture is sold on the third floor, the dense smoke is getting heavier and heavier when the wind blows. The smoke brings about strong pungent smell, coming forth from the burnt plastics. Some firemen put on their "air breathing machines" and gas masks...

According to scientific analysis: most of the victims in the fire are suffocated from the smoke. If cross ventilation is applied to exhaust the fume, the mortality shall be greatly reduced. Thus in dense populated places, top window openers must be installed to ensure the evacuation of smoke.

## 智能控制系统——现代建筑消防 / 安防新宠

Intelligent Control System- new favorite for firefighting/security protection in modern buildings

当危险发生时，感应报警器发出报警信号并传输至智能管理系统，联动控制电动开窗机的开启，同时将这些信息发送到远程监控管理中心，以便对消防设施的运行和管理实现及时、快捷、准确的监控，现代建筑消防安防必备。可广泛应用于广泛应用于机场、宾馆酒店、展览中心、会议中心、体育场馆、歌剧院、科技馆、购物中心、温室花园、工业厂房、仓库等公共场所和高档别墅、阳光房、普通住宅等。

In case of danger, sensor alarm device gives out alarm signal and transmits it to the intelligent management system to realize linkage control of electric window opener. Simultaneously, it sends the information to the remote monitoring management center to activate immediate, convenient and accurate monitoring of the operation and management of firefighting facilities. It is required for firefighting security protection of modern buildings. It can be widely applied to public places, high-class villas, sunshine rooms and common residences such as: airport, hotel, exhibition center, conference center, stadium, opera house, science museum, shopping center, conservatory garden, industrial plant and warehouse.



### 开窗机的适用范围 SCOPE OF APPLICATION

适用范围：适用于工业建筑和部分民用建筑适用于基本风压 < 900pa 的地区 适用于密闭要求不高的建筑外窗 适用于 380V 用电源地选用说明：选用开窗机时设计人应按实际工程绘制久竹开窗机布置简图 当用于粉尘多，湿度大和有腐蚀的环境时，定货应向生产商提出采取必要的防护措施。

Applicable to industrial buildings and some civil buildings with wind pressure less than 900pa, external windows with ordinary tightness, selection description of 380V power site. When selecting window opener, designer shall draw layout plan of bamboo window opener as per actual project. Purchaser(s) shall apply to manufacturer(s) for necessary protective measures when the opener is used in the environment with much dust, high humidity and corrosion.

# 消防联动控制箱

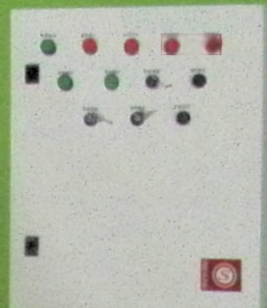
开启智能生活新时代  
Open A New Era of Intelligent Living

## High quality fire fighting linkage control box

迪威尔控制箱是为消防电动开窗机的应用而开发的专用控制设备，控制箱采用单片机控制，电路集成度高，极大提高了产品的质量和系统的稳定性。灵活的控制方式使得电动开窗机实现集中控制和本地单点控制相结合成为现实。系统在满足消防要求的同时也给用户环境的日常通风带来方便。

Dweller control box is a special control device developed for the application of fire electric window opener. The control box is controlled by single chip microcomputer and has high circuit integration, which greatly improves the quality of the product and the stability of the system. The flexible control mode makes the electric window opener realize the combination of centralized control and local single point control. It becomes a reality system to meet the fire protection requirements and also brings convenience to the daily ventilation of the user environment.

产品经过严格检验，安全环保  
Strictly tested, safe and environmentally friendly



- 智能开窗控制箱采用了 SMT 微数字处理技术电子芯片。
- 可手动控制消防窗开、关、停。
- 可外接风光雨感应器、烟感感应器和其他 WIF 智能系统。如果主控制箱接风光雨感应器，当有降雨或有强风时风光雨感应器会发出信号，主控制箱接收此信号后，会自动关闭所有窗户，此时通风开关无效，信号解除 10-15 分钟后通风开关功能恢复。
- 可连接消防紧急信号。如果控制箱接有紧急按钮或与消防联动时，当有火灾发出或按动紧急按钮，控制箱会自动开窗，此时通风开关、风光雨感应器与其他智能控制器无效，直至警报解除。
- 备有储备电源。控制箱内有蓄电池，当外接电源断电时控制箱可由蓄电池供电，保证控制箱正常工作。
- 输出电路短路保护，过载保护，延时保护。

- Intelligent window control box adopts SMT micro digital processing technology electronic chip.
- The fire window can be manually controlled to open, close and stop.
- May connect to external wind and rain sensor, smoke sensor and other WIF intelligent systems. If the main control box is connected to the wind and rain sensor, the wind and rain sensor will send a signal when there is rain or strong wind. After receiving the signal, the main control box will automatically close all windows. At this time, the ventilation switch is invalid and the signal is released 10-15. The ventilation switch function is restored after a minute.
- Can connect fire emergency signals. If the control box is connected with an emergency button or linked with fire, when the fire alarm is issued or the emergency button is pressed, the control box will automatically open the window. At this time, the ventilation switch, the wind and rain sensor and other intelligent controllers are invalid until the alarm is released.
- There is a reserve power supply. There is a battery in the control box. When the external power supply is cut off, the control box can be powered by the battery to ensure the normal operation of the control box.
- Transmission circuit short circuit protection, overload protection, delay protection.

消防联动控制箱 Fire Linkage Control Box	技术参数 Technical parameter
输入电源 Input power	AC220V±10% 50HZ
备用电源 Standby power	DC24V/60AH
静态功耗 Static consumption	13W
环境温度 Ambient temperature	-10~+65℃
相对湿度 Relative humidity	75% (40±2℃)
保护等级 Protection grade	IP65
最大输出功率 Maximum output	150-1500W



## 智能控制模块 Intelligent control module

- 具有连接、识别和处理各类感应器（风光雨、温度、燃气、人体感应、烟雾、定时、气味）感应信号的接口和功能；
  - 温度保护，谐波保护，过压过流保护；
  - 具有手动开关功能、自动开关功能和遥控开关功能；
  - 具有行程大小设置功能；
  - 具有正确的优先开关窗选择功能；
  - 具有单控和群控功能；
  - 有数码显示，有故障显示功能：  
通过不同的错误代码，能快速查询到不良问题；
  - 有在线烧写功能；
  - 便于维修。
  - 具有交流、直流电源接口和自动切换功能。
- Connect, identify and process the induction signal from all kinds of sensors (wind&rain, temperature, gas, human body, smoke, timing, smell)
  - Temperature protection, harmonic protection, over-voltage and over-current protection
  - Can be opened and closed by manually, automatically and remote control.
  - Distance of pushing and pulling can be adjusted.
  - Can choose the priority of opening and closing the windows.
  - Can be single control and group control.
  - Have the function of digital display and fault display, can find faults fastly by different error code.
  - Have the function of programming online.
  - Can be maintained conveniently.
  - Have AC and DC interface, and can be switched automatically.

### ■ 温度感应器 Temperature Sensor

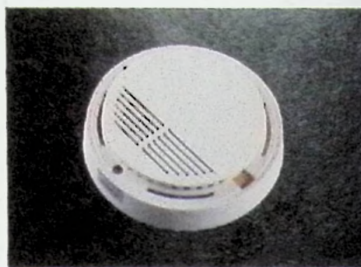
采用进口优质半导体热敏传感器，智能单片机模糊控制技术，报警温度任意设定。先进的信号技术及精密的电路设计，保证了报警器的稳定可靠，并杜绝误报。

- 电源：DC12V
- 使用电流：待机 $\leq 10\mu A$  报警 10~15mA
- 动作：当环境温度达到设定报警温度时（30-75°C）可调
- 报警音量：1米处 85dB
- 尺寸（ $\phi \times H$ ）：107X44mm

Imported high quality semiconductor thermal sensors, Intelligent single-chip microcomputer fuzzy control technology, Alarm set arbitrary temperature. Advanced technology and precision circuit design, ensure the alarm system is stable and reliable, wipeout false positives



- Power: DC12V
- Operating Current: Standby  $\leq 10\mu A$  Alarm 10~15mA
- Action: When the environment temperature reaches set alarm temperature (30-75°C), can be adjusted.
- Alarm volume: 85dB around 1m
- size( $\phi \times H$ ): 107X44mm



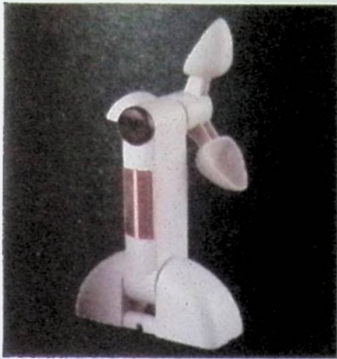
### ■ 烟雾感应器 Smoke sensors

当有火灾时，发出报警信号并联动开窗机控制器实现开窗。

- 烟雾（火警）探头工作电压：DC12V
- 响应时间：不大于 30 秒
- 恢复时间：不大于 60 秒
- 无线距离：（与主机间）30—50 米  
（距离长短可以选择，最远可达 1000 米）
- 外形尺寸：10.5×10.5cm 技术指标
- 报警灵敏度：1 级；
- 监视面积：大于等于 20 平方米；
- 消耗功率：监视状态 $< 20\mu A$  报警状态 $< 14mA$ ；
- LED 指示：监视状态：LED 每 40 秒闪一次；  
报警状态：LED 每 1 秒闪一次；
- 报警输出：95db 连续报警声，同时发出声光信号；
- 工作电压：直流（DC12V）
- 自动检测：每 1.67 秒自检一次；
- 自我检测：按测试键可模拟报警状态；
- 工作环境：温度：-10 ~ +50o 湿度：小于 97%。

When fire, send out signal alarm and connect the windows controller to open windows.

- DC12V Working voltage of smoke probe (fire) DC12V
- Response time: 30s
- Recovery time: 60s
- Wireless distance: ( to main engine) 30-50m (distance can be optional, the farthest distance up to 1000m )
- Boundary dimension: 10.5 X 10.5cm
- Alarm sensitivity: 1 grade
- Monitoring area: 20
- Consumed power: Monitored Status 20uA Alarm Status 14mA
- LED indicate: Monitored Status:LED flash 1 time/40s  
Alarm Status:LED flash 1 time/1s
- Alarm Output: Continuous alarm sounds and acoustic-optical signal at the same time.
- Working voltage: DV12V
- Automatic testing: 1.67s/ 1 time
- Self testing: pushing the testing button to simulate the alarm status
- Working condition: Temperature: -10~50°C Humidity: <97.



### ■ 风雨感应器 + 信号处理器 (遥控器) Wind&rain sensor+signal processor (remote control)

- 风感器为 3 叶风标式监测, 准确可靠;  
可设定 1-4 级风速值, 范围: 3Km/h-20km/h。
  - 雨感器为表面式检测, 反应迅速;  
可设定范围: 1mm/h-5mm/h,
  - 风标体由抗撞击的聚酰胺材料制造。
  - 雨测面附为热镀金探测面, 外层树脂包裹。
  - 感应器内置自动复位延迟装置。
  - 外壳抗风雨高分子外壳。
  - 安装方便, 可固定于墙 / 桅杆上和屋顶等处, 可立 / 卧安装。
  - 使用电源: 接收机 AC220V。
  - 输出 2 线无源闭合触点, 容量: 5A。
  - 可直接控制各种电动开窗机或其它电动设备。
  - 系统构成: 感应探头 + 信号处理器
- The wind sensor monitor by 3 leaves of weather vane, accurate and reliable;  
Can set 1-4 level of wind speed value, range: 3Km/h-20km/h
  - The rain sensor is Surface type testing, response rapidly.  
Setting range: 1mm/h-5mm/h
  - The wind vane is made by the resistant polyamide material.
  - The rain testing side is hot gold-plated detection surface, cover by resin at outside.
  - Automatic reset delay device inside of sensor.
  - Polymer shell and resistance to wind and rain
  - Easy installation, can be fixed on the wall/mast and the place such as roof, vertical/horizontal installation
  - Power: Receiver AC220V
  - Output 2 lines Passive make contact, capacity: 5A
  - Can control all kinds of windows opener and other electrical equipments directly.
  - System composition: inductive probe+signal processor

### ■ 联网报警装置 Networking alarm device

能够接收来自消防报警系统的报警信息和消防设施的状态信息, 并且将这些信息发送到远程监控管理中心, 以便对消防设施的运行和管理实现及时、快捷、准确的监控。

Receive alarm messages from the fire alarm system and status information of fire control facilities, and send the information the remote monitoring management center, so that reaching the facilities timely, fast and accurate monitor for the operation and management of fire control.

### ■ 可燃气体感应器 Gas sensor

- 使用电源: AC220V/DC12V
- 12VDC 整机静态功耗: < 0.5W (按 12VDC 计算)
- 220VAC 整机静态功耗: < 2W (按 9VDC 计算)
- 报警浓度: 可燃气体: 液化气 0.1% ~ 0.5%; 天然气 0.1% ~ 1%; 城市煤气 (H2) 0.1% ~ 0.5 一氧化碳: 1% ~ 0.4%
- 燃气响应恢复时间: ≤ 30S
- 一氧化碳响应恢复时间: ≤ 200S
- 报警音量: ≥ 70dB
- 工作环境: 湿度 ≤ 97%
- RH 温度: -15°C ~ 50°C

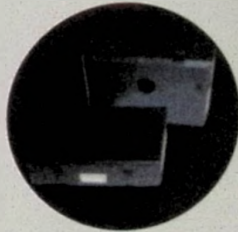


- Power: AC220V/DC12V
- 12VDC whole machine static power: < 0.5W (Calculated at 12 VDC)
- 220VAC whole machine static power: < 2W (Calculated at 9VDC)
- Alarm concentration: Combustible gas:  
Liquid gas 0.1% ~ 0.5%; Natural gas 0.1% ~ 1%;  
City gas (H2) 0.1% ~ 0.5; Carbon monoxide: 1% ~ 0.4%
- Gas response and recover time ≤ 30S
- Carbon monoxide response and recover time: ≤ 200S
- Alarm volume: ≥ 70dB
- Working environment: Humidity ≤ 97%
- RH Temperature: -15°C ~ 50°C



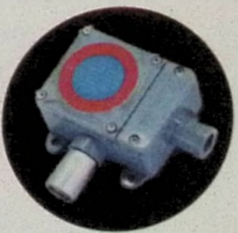
### ■ 幕帘防盗感应器 Screen security sensor

检测人体侵入窗口, 自动关窗  
Detect the sourcing window of the human body, shut the window automatically



### ■ 屏蔽感应器 Shielding sensors

防蚊虫的感应器  
Mosquitoes sensors



### ■ 化学感应器 Chemoreceptory

化学感应器分为  
A: 室内甲醛感应器  
Indoor formaldehyde sensors  
B: 厕所用的感应器  
Washroom sensors



宁波利时大厦  
NINGBO LISHI MANSION



苏州现代物流园  
SUZHOU MODERN LOGISTICS PARK



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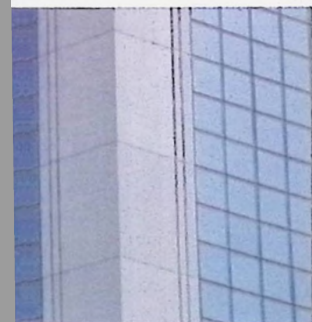
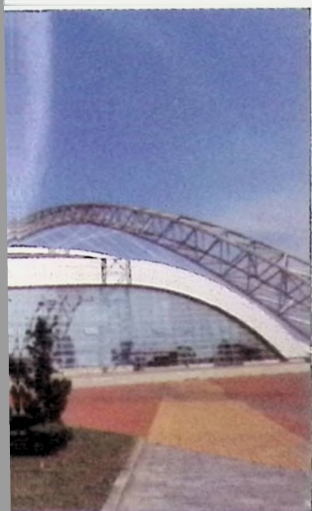
凤凰大厦  
CHINA PHOENIX MANSION



山东高速鼎晟大厦  
SHANDONG EXPRESS DINGCHENG

# 迪威尔电动开窗机案例

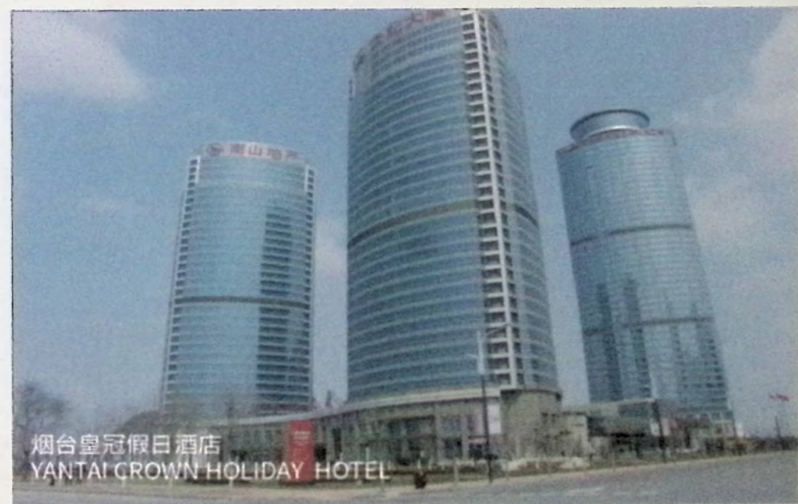
DWELLER PROJECT CASES OF WINDOW OPENERS



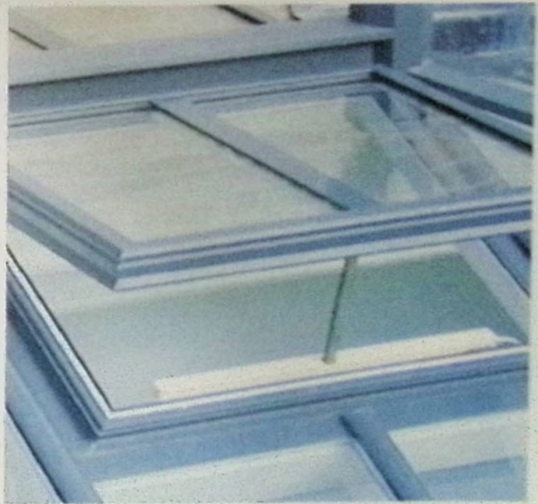
寿光盛荣温室  
SHOUGUANG SHENGRONG GREENHOUSE



南宁火炬大厦  
NANNING TORCH SQUARE



烟台皇冠假日酒店  
YANTAI CROWN HOLIDAY HOTEL



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