# Nidec
## Elevator

**50**th

We have been focused on elevator controls for over 50 years.
The projects cover over 50 countries around the world.
专注电梯控制50多年，项目覆盖全球50多个国家。

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# 产品样册
## PRODUCT CATALOG

尼得科康迪克电梯技术(无锡)有限公司
**Nidec Kinetek Elevator Technology (Wuxi) Corporation**

# 尼得科株式会社
# NIDEC CORPERATION

## 致力于成为-稳健成长的百年企业
## Nidec is committed to becoming a robustly growing century-old enterprise.

尼得科创立于1973年，集团的业务覆盖全球各个角落，是全球首屈一指的马达驱动供应商。尼得科集团在全球拥有近347家子公司和分支机构，10万多名员工分布在全球106个生产基地。凭借独创的技术及先进的产品，为电梯、通讯、办公自动化、家电、汽车、工业、环境能源等行业领域提供持续发展的安全动力。

Nidec was founded in 1973, and the group's business covers every corner of the globe, making it a leading supplier of motor drives worldwide. The Nidec Group has nearly 347 subsidiaries and branches globally, with over 100,000 employees spread across 106 production bases around the world. With its original technology and advanced products, it provides a safe and sustainable power for the development of industries such as elevators, communications, office automation, home appliances, automobiles, industry, and environmental energy.

### 尼得科康迪克电梯技术(无锡)有限公司
### Nidec Kinetek Elevator Technology (Wuxi) Corporation

**40%** 生产人员
**60%** 技术人员

NKET凭借其多元的国际文化背景，为全球各个市场提供符合各国安全标准的解决方案。它致力于为全球电梯市场提供可靠且安全的技术方案和产品。

面对全球不同地区的标准化和差异化的产品需求，NKET拥有极为丰富的产品解决方案。它已经为包括美国、澳大利亚、英国、新加坡等50多个国家和地区提供了符合各国安全标准要求的电梯和自动扶梯解决方案。

凭借专业过硬的自有研发技术和长期的实践经验，NKET已在北美及世界各地扎根。它为海外发达国家的众多商业项目、公共项目、住宅项目以及特殊电梯应用提供电梯设备，其中更包括了医院、银行大楼、高层住宅楼、机场和火车站等高端项目。

NKET with its diverse international cultural background, provides solutions that meet the safety standards of various markets around the world. It is committed to offering reliable and safe technical solutions and products for the global elevator market.

Facing the standardized and differentiated product demands from different regions around the world, NKET has an extremely rich set of product solutions. It has provided electric and escalator solutions that meet the safety standards required by more than 50 countries and regions, including the United States, Australia, the United Kingdom, and Singapore.

With professional and solid in-house R&D technology and long-term practical experience, NKET has taken root in North America and around the world. It supplies elevator equipment for numerous commercial projects, public projects, residential projects, and special elevator applications in developed countries overseas, including high-end projects such as hospitals, banking complexes, high-rise residential buildings, airports, and train stations.

**100+** 年
NIDEC-拥有百年的电梯技术历史
NIDEC has a century-long history in elevator technology.

**100+** 万
100万个全球安装项目
NIDEC has completed 1 million global installation projects.

## 8家 尼得科电梯事业部发展历程
## Nidec Elevator Business Division Development History


墨西哥，Mexico

**2016** 尼得科电梯(青岛)有限公司-NEQC
Nidec Elevator

电梯控制系统制造基地-KDM
Control System Factory-KDM(Mexico)

**2006**


中国 无锡，Wuxi

**1995** 尼得科康迪克电梯技术(无锡)有限公司-NKET
Nidec Kinetek Elevator Technology (Wuxi) Corporation


美国 加州，US

电梯控制系统研发基地-MCE
Control System R&D Center-MCE(California, USA)

**1983**


英国 威尔士，UK

**1973** 电梯变频器基地-CT
Control Techniques-CT(Wales, UK)


中国 广东，China

金泰德胜电机研发制造基地-KDS
Traction Machine-KDS(Foshan Shunde, China)

**1960**


美国 俄亥俄州，US

**1946** 液压整梯基地-CANTON
Hydraulic Elevator-CANTON(Ohio, UsA)


美国 俄亥俄州 US

帝国电气-IMPERIAL
Traction Machine-IMPERIAL(Ohio, UsA)

**1908**

# 核心优势
# Core Advantage

**专业的设计团队  Professional Design Team**

- 核心专业能力  Core professional competence
- 严格的研发设计流程  Strict R & D design process
- 专业的EMC和功能测试能力  Professional EMC and functional testing capabilities
- 坚定不移的质量承诺  Unwavering quality commitment

**提炼的系统方法 The Method of System Refinement**

- 经过国内、外改造项目实践总结，提炼系统方法
  Refined through the summarization of domestic and international modernization project practices, a systematic approach has been developed.

- 满足不同梯型&需求的改造要求
  It meets the modernization requirements of different scales and needs.

**全球的项目案例  Global Project Case**

- 超过10000项目  More than 10,000 projects
- 案例覆盖全球50多个国家  Cases cover more than 50 countries
- 涉及多品牌电梯改造  Involves multi-brand elevator transformation

**No.1**

**40**+ 年
专注电梯改造
Focus on Elevator Modernization

**50**+ 国家
项目覆盖国家
Project Poverage Country

我们是全球领先的电动机和控制系统制造商

We are the world's leading global manu-facturer of electric motors and controls

**良好的客户服务&评价 Good Customer Service & Reviews**

- 管家式服务
- 客户口口相传
- 转介绍新客户
- 我们对质量的坚持和对细节的关注赢得了客户的信赖和高度评价，建立了良好的市场声誉
  Our commitment to quality and attention to detail has earned us the trust and high praise of our clients, establishing a good market repu-tation

### K-MC1000 一体化控制系统 Integrated Control



K-MC1000 一体化控制器
K-MC1000 Integrated Elevator Controller



K-MC1000 一体化控制柜
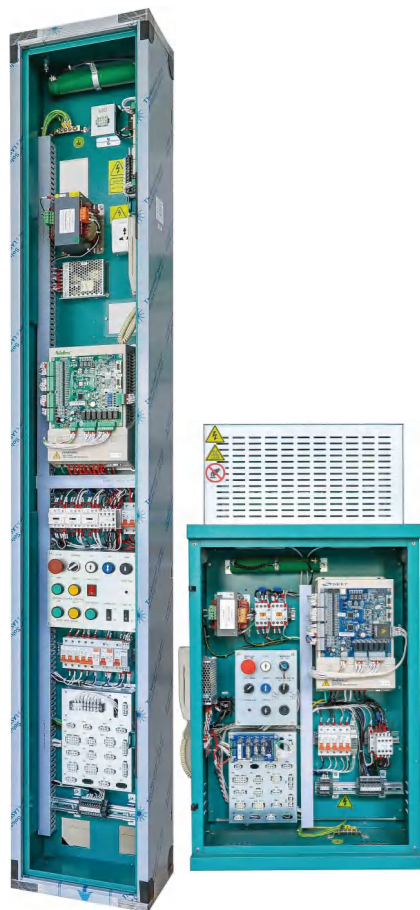K-MC1000 Integrated Elevator Control

#### 产品特点 Features

- 控制器和驱动单元的一体化设计提升了产品的性能，提高了系统的执行效率.
  FUSION™ combines elevator control with inverter, improving system performance

- 满足EN81-20标准：UCMP，门锁短接检测，门旁路功能，底坑检修功能
  Meets the EN81-20 standard: UCMP, door lock short detection, door lock bypass function, pit inspection function

- 定制S运行曲线，适用于不同应用场所
  Custom S-curve, suitable for different applications

- 满足客户项目定制功能　Project based customization

- UCMP现场测试功能　UCMP field test function

- 超短距离运行　Ultra short floor operation

- 智能扭矩控制　Intelligent pre-torque

- 空载功率法　Auto counterweight percentage estimation

- 精简调试　Streamlined parameter setup.

- 内置群控　Roaming dispatching

- 井道绝对位置定位系统(选配)
  Shaft absolute position landing system (Optional)

- 轿厢调试　Elevator Cabin Debugging Features

#### 适用范围　Applications

| 梯型<br>Elevator type | 有机房或无机房<br>MRL and MR elevator |
|---|---|
| 最大梯速<br>Maximum speed | 3 m/s |
| 最大楼层<br>Maximum floor | 128层<br>128 Floors |
| 单梯<br>Single elevator | 全集选<br>Selective collection |
| 内置群控<br>Roaming dispatching | 6 台电梯群控<br>6 Car group control |
| DBD | 8台电梯目的楼层控制<br>8 Car DBD floor control |
| 适配编码器<br>Encoder supported | SIN/COS & ABZ |
| 容量范围<br>Power range | 5.5～75kW |

### FUSION G5 一体化控制系统 Integrated Elevator Control



FUSION G5 一体化控制器
FUSION G5 Integrated Elevator Controller



FUSION G5 一体化控制柜
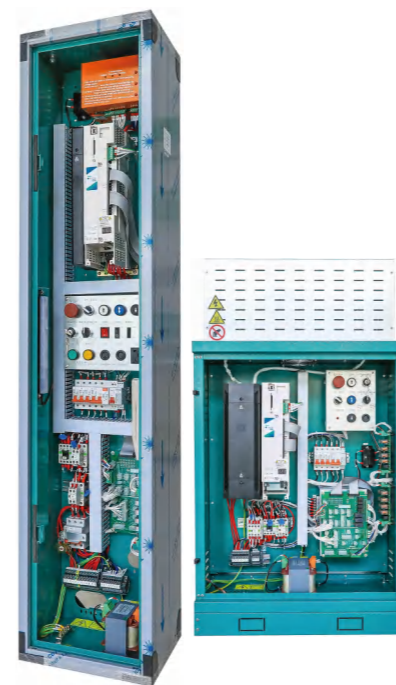FUSION G5 Integrated Elevator Control

#### 产品特点 Features

- Fusion G5承载着KINETEK & Control Techniques核心控制技术，是当今市场上最先进的电梯一体化控制器之一。
  The Fusion G5 carries the core control technology of KINETEK & Control Techniques and is one of the most advanced elevator integrated controllers in the market today.

- 主要元器件均采用国际品牌，电子元器件配置性能稳定
  The main components are all sourced from major international brands to ensure the reliability of all electronic components.

- 内置EMC滤波器，可减少对市电电源的射频辐射
  Built-in EMC filter can reduce radio frequency radiation to the mains power supply

- 适配感应电机或是同步电机(内转子电机/外转子电机)，都能实现高性能的电流矢量控制。
  Works with both induction motor and synchronous motor (inner rotor motor/outer rotor motor) with high-performance current vector control.

- 定制S运行曲线，适用于不同应用场所
  Custom S-curve, suitable for different applications

- 井道绝对位置定位系统(选配)
  Shaft absolute position landing system (Optional)

- 满足客户项目定制功能　Option for customized features

- 满足EN81-20/50标准　EN81-20 Compliance

- UCMP现场测试功能　UCMP field test function

- 超短距离运行　Ultra short floor operation

- 智能扭矩控制　Intelligent pre-torque system

- 空载功率法　Auto counterweight percentage estimation

- 内置群控　Roaming dispatching

- 轿厢调试　Elevator Cabin Debugging Features

#### 适用范围　Applications

| 梯型<br>Elevator type | 有机房或无机房<br>MRL and MR elevator |
|---|---|
| 最大梯速<br>Maximum speed | 4m/s |
| 最大楼层<br>Maximum floor | 128层<br>128 Floors |
| 单梯<br>Single elevator | 全集选<br>Selective collection |
| 内置群控<br>Roaming dispatching | 6 台电梯群控<br>6 Car group control |
| DBD | 8台电梯目的楼层控制<br>8 car DBD floor control |
| 适配编码器<br>Encoder supported | SIN/COS & EnData & ABZ |
| 容量范围<br>Power range | 2.2～160 kW |

## FUSION 3P Integrated Control(Parallel System)



FUSION 3P 一体化控制器
Fusion 3P Integrated Elevator Controller

### 产品特点 Features

■ 采用控制器结构与电梯功能一体化的设计理念，节省空间&增强控制功能。
Utilizes the integrated design concept of motor control and elevator function to save space & enhance control functions.

■ 直接停靠技术，S运行曲线实时计算生成，使电梯运行更平稳、快速、精准；300mm超短楼层精准平稳运行。
Real-time direct to floor S-curve processing to improve efficiency and ride quality.Capable to work with short floor as low as 300mm.

■ 控制器I/O信号采用自定义的配置方式，使整个系统的应用更加灵活。
Field programmable inputs / outputs for improving flexibility.

■ 采用并行通讯技术，集成控制厅门&轿厢呼梯信号以及门机控制信号。
Utilize parallel connections for all the wirings, including door interface and car/hall calls.

■ 并行通讯与低楼层的配置模式，更加适合于电梯控制系统的灵活应用。
Simple design for low rise applications.

■ 安装引导模式的调试技术，使现场调试操作更加便捷。
Provides quick start up menu for ease of installation.

■ 丰富的门功能设定，可以满足电梯门控制多样性的要求。
Feature rich system that can interface with various types of door systems.

■ 显示输出方式：二进制编码、BCD码、七段码。
Available display interface format: Binary, BCD code, 7 segments.

### 通用规格 General Specifications

| 项目 Features | 规格 Descriptions |
|---|---|
| **1. 技术性能特性 Technical performance characteristics** | |
| 1.1. 输入电压范围 Input voltage range | 3P AC 220V~240V -15~10%<br>3P AC 380V~440V -15~10% |
| 1.2. 最大楼层 Maximum floor | 17层<br>17 Floors |
| 1.3. 最大梯速 Maximum speed | 2m/s |
| 1.4. 并联 Duplex | 2台电梯并联<br>2 car duplex control |
| **2. 外围接口特性 Peripheral interface characteristics** | |
| 2.1. 开关量低压输入口 Low voltage input terminals | 17个外围输入信号监视接口<br>17-low voltage input |
| 2.2. 开关量输入&输出复用接口 Digital input & output multiplexing interface | 33个呼梯按钮&开关门按钮信号控制接口<br>33 call button & door open / close button signal control interfaces |
| 2.3. 高压检测输入口 High-voltage input | 3个门锁&安全回路高压监视接口<br>3-high-voltage input port |
| 2.4. 开关量输出口 Digital output | 19继电器输出信号控制接口<br>19-relay output port. |
| 2.5. CAN通讯端子 CAN communication terminal | 1个CAN通讯端子<br>1 CAN communication terminal |
| 2.6. 编码器端子 Encoder terminal | 正余弦、增量型编码器接口<br>Sin/cos, incremental encoder interface |

## K-ESC2扶梯功能安全控制器
## K-ESC2 Escalator Safety Protection Device



K-ESC2 扶梯功能安全控制器
K-ESC2 Escalator Safety Board

### 产品特点 Features

■ 自动扶梯和自动人行道可编程电子安全相关系统 (PESSRAE)
Microprocessor based escalator or moving walk control system

■ 参数设置简单、安装方便灵活、无需调试、支持多种品牌传感器的配套使用
Simple installation, no adjustments required and supports various brands of sensors

■ PESSRAE功能设计
Design for Programmable Electronic System in Safety Related Application for Escalator (PESSRAE) compliance

■ 防护等级 Protection class: IP54

■ 安全完整性等级 Safety Integrity Level 2: SIL2

■ 符合《电梯型式试验规则》GB16899-2011, GB/T20438-2006, IEC62061:2005,ISO22201:2009, EN115-1:2008+A1:2010 等规定。
Compliances: Lift Type Examination 2012, GB16899-2011, GB/T20438-2006,IEC62061:2005, ISO22201:2009,EN115-1:2008+A1:2010.

■ 梯级超速保护、梯级逆转保护、梯级缺失保护、扶手带欠速保护、制动器未释放保护、检修盖板打开保护、制停距离监测、梯级欠速保护
Over speed protection, reversal protection, missing step protection, handrail speed monitoring, brake operation monitoring, inspection cover interlock, stopping distance monitoring, step speed monitoring
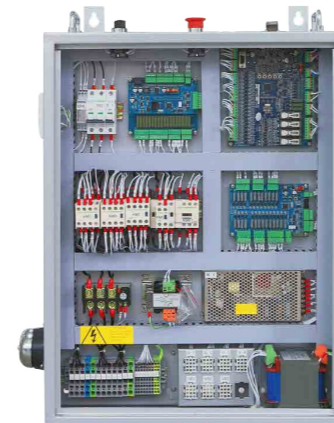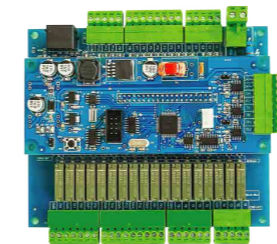
## K-MC2000自动扶梯/自动人行道控制系统
## K-MC2000 Escalator/Travelator Control System



K-MC2000 扶梯控制柜
K-MC2000 Escalator Control

### 产品特点 Features

■ 采用变频器控制模式或 Y/△ 控制模式
Supports VVVF or Y/△ control

■ 故障显示器，能快速简易辨识运行故障。
Clear fault display to easily identify problems.

■ 符合 GB16899-2011, GB/T20438-2006, IEC62061:2005, ISO22201:2009.
Compliance: GB16899-2011, GB/T20438-2006, IEC62061:2005, ISO22201:2009

■ 可提供局域网监控功能
Supports LAN based monitoring

■ 具有独特的抗干扰设计，系统抗干扰性能强
Robust system noise isolation design

■ 适用于梯级超速保护、梯级逆转保护、梯级缺失保护、扶手带欠速保护、制动未释放保护、检修盖板打开保护、制停距离监测、梯级欠速保护
Safety features: Over speed protection, Reversal protection, Missing step protection, Handrail speed monitoring, Brake operation monitoring, Inspection cover interlock, Stopping distance monitoring and Step speed monitoring

## K-MC8000-VVVF 控制柜 Elevator Controller



### 高速  High Speed
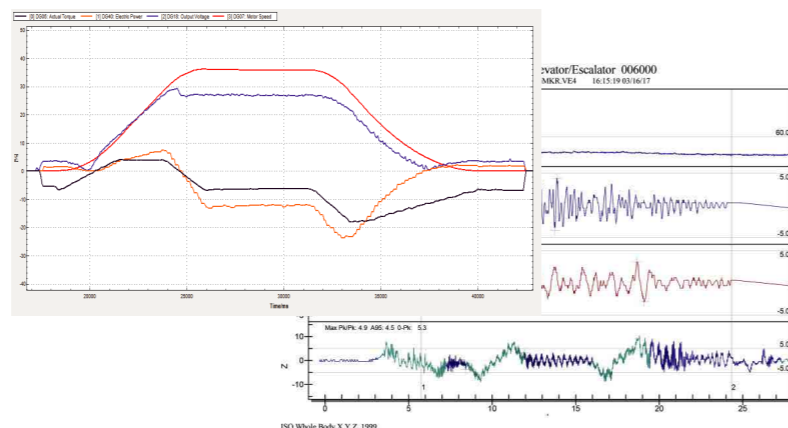
- 最大梯度：8m/s
- 最大楼层：128 层
- 最大容量：200kW
- 绝对距离原则下的智能速度控制方式

- Maximum Speed:8m/s
- Maximum Number Of Floor:128 Floors
- Maximum Motor Size:200kW
- Serial speed control with absolute position and velocity feedback

### 舒适  Comfortable

**噪音及振动(公司标准)**
**Noise & Vibration Standard**

| | | |
|---|---|---|
| 水平振动 | ( A95)max | ≤ 7 gal |
| 垂直振动 Vertical Vibration | ( A95)max | ≤ 7 gal |
| 噪音测定值 Noise Measurement | max | ≤ 55 dB |



### 安全  Safety

- 与控制系统结合实现防错层保护
  Integrated with control system for robust floor position protection
- 节省原有井道系统内的平层插板、平层开关、强迫减速开关、限位开关等信号开关
  Eliminates the need for leveling vanes and switches, terminal slowdown limit switches, normal limit switches, etc.
  which are required for a traditional shaft system
- 绝对位置和速度检测，可实时检测轿厢的位置和速度信息
  Absolute position and speed detection for real-time information
- 与控制系统结合实现门锁短接检测
  Combined with control system to detect shorted door locks.

| 集成功能 Function | 安全等级 Safety Integrity Level (SIL) |
|---|---|
| 预开门功能 Pre-opening function | SIL3 |
| 开门再平层功能 Re-leveling with doors open function | SIL3 |
| 轿厢意外移动(UCMP)保护功能 Unintended Car Movement Protection (UCMP) | SIL3 |
| 超速保护功能 Overspeed protection | SIL3 |
| ETSL 减行程功能 ETSL reduced stroke buffer function | SIL3 |

#### 绝对位置控制系统
#### Absolute position landing system
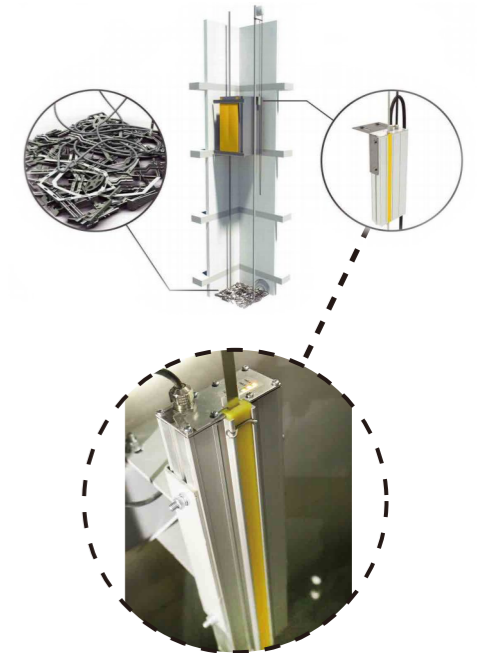


### 环保  Environmentally Friendly

能源回馈系统在高速控制中是标准配置的，它在电梯满载下行或空载上行运行期间将"再生"能源，并回馈建筑物的电网系统，可供其他的电力设备使用，从而减少电力消耗。

有源前端(AFE)是最有效的解决方案。可用于实现最严格的谐波失真控制(THDi<5%)，与具有谐波滤波器的多个并行能源回馈单元相比，AFE 解决方案可以更大的提供成本优势。

The regenerative system is a standard configuration in high-speed control. It will take the energy generated from the motor when the elevator is running full-load down or no-load up and feed it back to the grid system of the building, which can be used by other power equipment, thereby reducing power consumption.

For regenerative system, Active Front End (AFE) is the most effective solution. AFE can be used to satisfy the most stringent harmonic distortion levels (THDi < 5%). An AFE solution can provide a cost advantage in comparison to multiple parallel line regenerative units with harmonic filters.

### 电磁兼容  EMC

控制柜的 EMC 电磁兼容与干扰抑制是电梯安全运行的基础，经过设计优化，具有电流和电压限制功能的 EMC 模块，适用于高速电梯控制的应用，确保系统稳定运行。
满足EMC标准（EN12015、EN12016、EN61000-4等）
减小馈电电缆辐射干扰,减小输入电流尖峰,抑制系统干扰,减少全波整流电路产生的系统低频干扰。
谐波滤波器具有创新意义的解决方案,类似电抗器安装,占用空间小,可以方便地嵌入电控系统中。

The Electro-Magnetic Compatibility (EMC) and interference suppression of the elevator controller is the basis for the safe operation of elevators. With precise design, the EMC filter with current and voltage limiting functions is suitable for high-speed elevator control applications to ensure the stable operation of the system.
It meets EMC standards (EN12015, EN12016, EN61000-4, etc.)
Reduce feeder cable radiation interference; reduce input current spikes and suppress system interference; reduce system low-frequency interference generated by the full-wave rectifier circuit.
Harmonic filter is an innovative solution with very small size and can be easily embedded in the elevator control system.
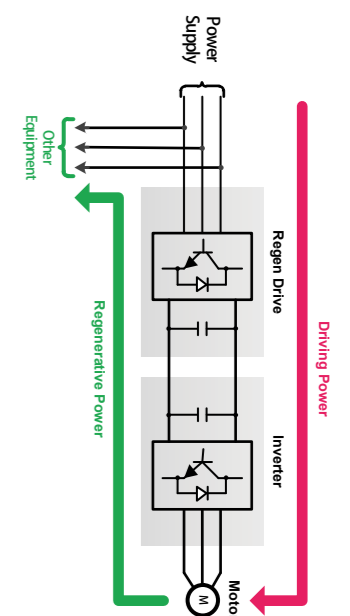
## DBD系统介绍

### 只需要选择您的目的楼层，即可为您提供完美的电梯体验

DBD系统让电梯更智能、高效、舒适，更易于使用，使乘客有序乘坐电梯，让等候大厅井井有条；此外，电梯轿厢不再拥挤，减少不必要的停梯次数，让乘客花更少的时间到达目的楼层。

传统的电梯群控系统只能采集乘客所需的行驶方向(上行或下行)，DBD系统具有更智能的信息记录与分析能力(例如：用户所需的目的楼层，乘客数量，残疾人服务等)；有了更多的信息，DBD系统可大大提高信息处理能力，提升电梯系统性能，缩短乘客等候时间，减少了电梯停留时间并提高了乘客的舒适度。最为显著的是，DBD系统可以完美的解决在传统群控系统中难以应付的流量高峰问题。

### Just choose your destination
### Will provide you with a perfect elevator experience

The DBD system makes the elevator more intelligent, efficient, comfortable, and easy to use, allowing passengers to take the elevator in an orderly manner and keeping lobby in order.  In addition, the elevator is no longer as crowded, reducing the number of unnecessary stops, allowing passengers to spend less time to reach the destination floor. The traditional elevator group control system can only collect the travel direction (up or down) required by the passengers.  The DBD system has more intelligent information recording and analysis capabilities (such as the destination floor required by the user, the number of passengers, disabled services, etc.); With more information, the DBD system can greatly improve information processing capability, improve elevator system performance, shorten passenger waiting time, reduce elevator intermediate dwell time and improve passenger comfort. Most notably, the DBD system can perfectly solve the traffic peak problem that is difficult to cope with in the traditional group control system.

### 高效 ● 舒适 ● 安全
### Efficient ● Comfortable ● Safe
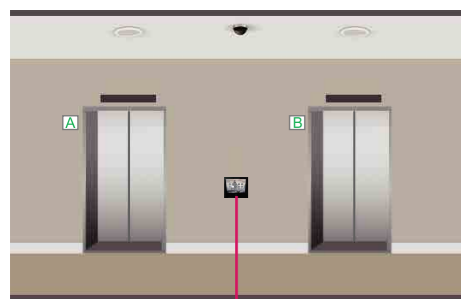
**大厅操作面板(DID)**
当乘客输入目的楼层时，会显示分配给目的地的电梯编号。

**Destination Input Device (DID)**
When the passenger enters their destination floor, the screen will display the elevator that is assigned to the passenger.

无论是在办公大楼、酒店、医院,或是住宅区等高密度人群区域，DBD系统都可以通过人工智能、模糊算法、高峰预测等先进的电梯调度控制，实现DBD系统的优势.

Whether in high-density crowd areas such as office buildings, hotels, hospitals, or residential areas, the DBD system can realize the advantages of the DBD system through advanced elevator dispatch control such as artificial intelligence, fuzzy algorithms, and peak forecasts.

1. 提高电梯的运行效率  Improve the operating efficiency of elevators.
2. 减少乘客的等待时间  Reduce the waiting time of passengers.
3. 增加乘客的安全性和舒适度  Increase the safety and comfort of passengers.
4. 增强乘客的满意度  Enhance passenger satisfaction.

## DBD系统特点  Features

### 更智能

DBD系统可以将目的楼层相同的乘客归为一组，减少中间站点，减少乘客的等待时间，从而缩短电梯运行时间并且减少中间站点的停留时间。该处理能力特别是在繁忙的运行时段（例如在办公楼中很常见的早高峰）期间得到了改善

### 更舒适

乘客在进入电梯之前先选择目的楼层，而无需在人群中费力地按下轿厢内的楼层按钮。此外，乘客在DID面板输入目的楼层时，DBD系统就知道乘客到达电梯等候区的时间，从而会计算好电梯的到达时间，乘客也不必担心会错过电梯

### 更安全

DBD系统可以和建筑物的门禁系统集成在一起。用户可以使用刷卡或其他安防系统，从而限制了未经授权人员使用电梯的行为，增加了整个建筑物的安全性

### 更多指引

DBD系统通过DID操作面板，电梯标识，电梯停站指示器，能够快速地引导乘客进入正确的电梯

### 更多空间

DBD系统可以为每台电梯分配正确的乘客人数，因此轿厢内不太可能拥挤。由于每台电梯仅服务于指定楼层的乘客，因此运行时间将很短

### 易于访问

对于需要更多时间或空间的人，可以使用VIP功能或特殊按钮(残疾人按钮)激活DBD辅助功能。这样可以使乘客获得更长的时间到达等候区，和更长的电梯开门等待时间，并且系统会减少乘客的分配，使轿厢的可用空间更大

### Smarter

The DBD system can group passengers with the same destination into one group, reducing intermediate stations and reducing passenger waiting time, thereby shortening elevator running time and reducing the staying time of intermediate stations. This processing capacity will have the most benefit during busy traffic hours (such as morning peaks that are common in office buildings).

### More Comfortable

Passengers choose a destination before entering the elevator without having to push the floor button in the car. In addition, when passengers enter their destination on the DID operating panel, the DBD system knows the time for the passenger walk to the elevator. Together with the arrival time of the elevator, the DBD system will ensure that the passengers will have enough time to catch the elevator.

### Safer

The DBD system can be integrated with the building's access control system. Users can use security cards or other security systems, thereby restricting unauthorized personnel from using elevators and increasing the safety of the entire building.

### Better Guidance

The DBD system can quickly guide passengers into the correct elevator through the DID operating panel, along with the elevator identification.

### More Space

The DBD system can assign the correct number of passengers to each elevator, so the car is unlikely to be too crowded. Since each elevator only serves passengers on designated floors, the travel time will be shorter.

### More Guidance

For those who need more time or space, you can use the VIP function or special buttons (buttons for the disabled) to activate the DBD auxiliary function. This allows passengers to get longer time to arrive at the waiting area, and longer waiting time for the elevator to open the door, and the system will reduce the allocation of passengers and make the available space of the car larger.

## DBD优势 Advantages of DBD

### Without DBD
乘客在等待电梯时无法知道哪台电梯会先到达。当一台电梯到达时，乘客不管目的地是哪一层站，都会争先恐后地进入轿厢。

Traditional dispatching results in a high mix of destinations per car, requiring more stops and longer travel time.

### With DBD
当乘客进入等候大厅时，通过DID面板输入目的楼层会指示乘坐哪部电梯。当乘客前往指定的电梯时，轿厢已在路上，大幅减少乘客的等候时间。

Destination dispatching results in a low mix of destinations per car, requiring fewer stops and shorter travel times.

当乘客输入目的楼层时，DID面板会立即显示哪台电梯将服务于该楼层。由于目的地楼层已经登记，乘客无需在轿厢内按下按钮。此外，按目的地分散乘客可以防止电梯拥堵，并最大限度地减少等待和乘梯时间。

When a passenger enters a destination floor, DID operating panel will immediately indicate which car will serve the floor. Because the destination floor is already registered, the passenger does not need to press any button in the car. Furthermore, DBD disperses passengers by destination preventing congestion in cars and minimizing waiting and traveling times.
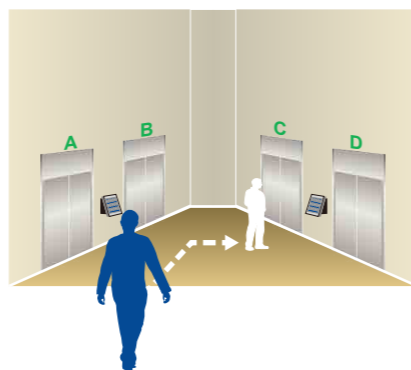
## 简易操作 Simple Operation
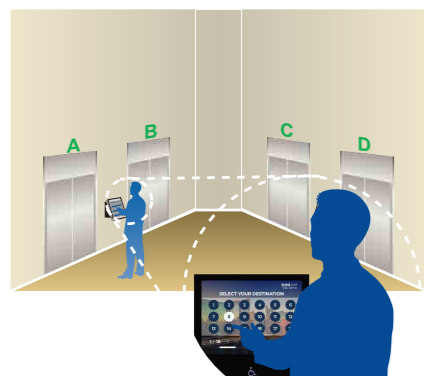
### Step 1
选择您的目的楼层
找到操作面板(DID),按列表选择目的地

**SELECT YOUR DESTINATION**
Find a DID operating panel, press an available destination on the list
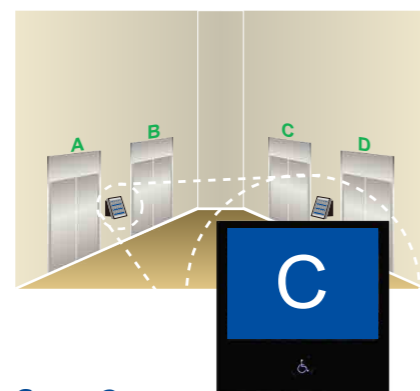
### Step 2
领取乘坐电梯编号
请注意分派的是哪部电梯

**RECEIVE AN ELEVATOR TO USE**
Please note which elevator was dispatched

### Step 3
前往您的电梯
按电梯门上的编号，找到并等待您的电梯

**PROCEED TO YOUR ELEVATOR**
Follow the number on the elevator door, find and wait for your elevator

## 辅助功能 Accessibility for Disabled Persons Compliance

激活残疾人辅助功能键可使扬声器播放目的层信息，在听到所需楼层时第二次按下按钮，然后扬声器将播放指派的电梯编号并提供前往该电梯的方向。指派的电梯到达后将延长电梯到达和开门时间。

Activation of the Accessibility Function key enables a speaker that verbally requests the button be pressed a second time when the desired floor is called out. Then the speaker announces the assigned car designation and provides directions to that car. A unique tone is also played.

The assigned elevator annunciator repeats the unique tone to further assist car location. Arriving car annunciators announce the car label and floors serviced. Passenger boarding time is also extended.

## DBD系统配置

### 多元化配置模式 Various Configuration Modes

DBD系统有两种经典配置模式，可以根据您的需求，更轻松、更多元地个性化定制系统。

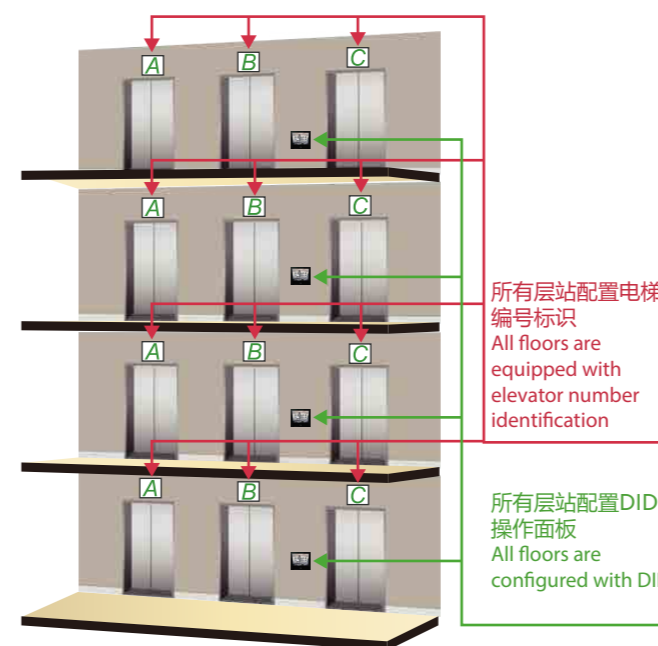The DBD system has two main configuration modes and can be customized to meet your needs.

### 纯DBD模式
### Full DBD Mode

在纯DBD模式配置中，所有的楼层都配置有DID操作面板和电梯编号标识；因此在轿厢内将没有COP操作面板，所有的乘客需通过DID面板输入目的楼层并获得乘坐的电梯编号。

对于高流量的电梯群组，复杂的建筑系统(例如：L形、T形或圆形等)，推荐使用该配置模式。

In the full DBD mode configuration, all floors are equipped with DID operating panels and elevator number identification; therefore, there will be no Car Operating Panel (COP) in the car, and all passengers need to enter their destination through the DID operating panel and follow the directions.

For high-traffic elevator groups and complex building systems (such as L-shaped, T-shaped or circular, etc.), this configuration mode is recommended.
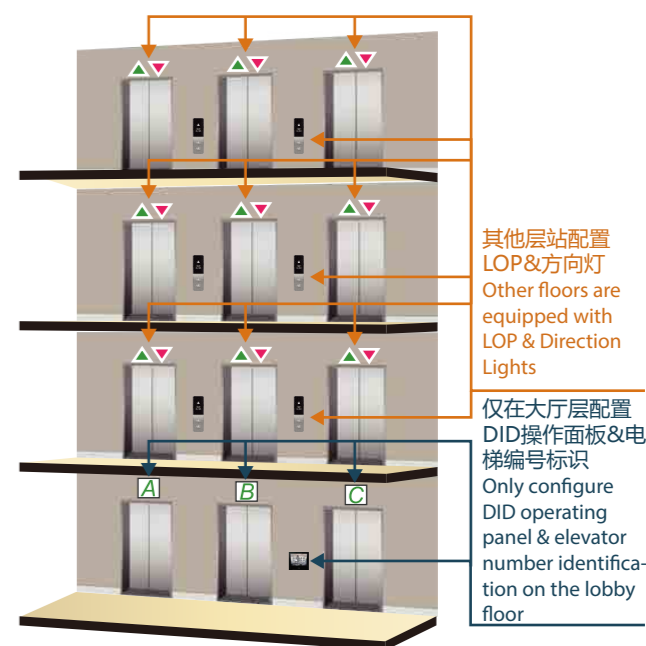
### 混合DBD模式
### Mixed DBD Mode

在混合DBD模式配置中，仅在建筑物在大厅配置有DID操作面板，其他楼层将保持LOP&方向灯的传统配置模式；此外，轿厢内的COP操作面板也是必不可少的。

该模式对于传统群控的改造是非常经济、有效的。

In the mixed DBD mode configuration, the DID operating panel is installed in the lobby of the building only. All other floors will maintain the traditional configuration of Lobby Operating Panel (LOP) and direction light. In addition, the COP operating panel in the car is also required.
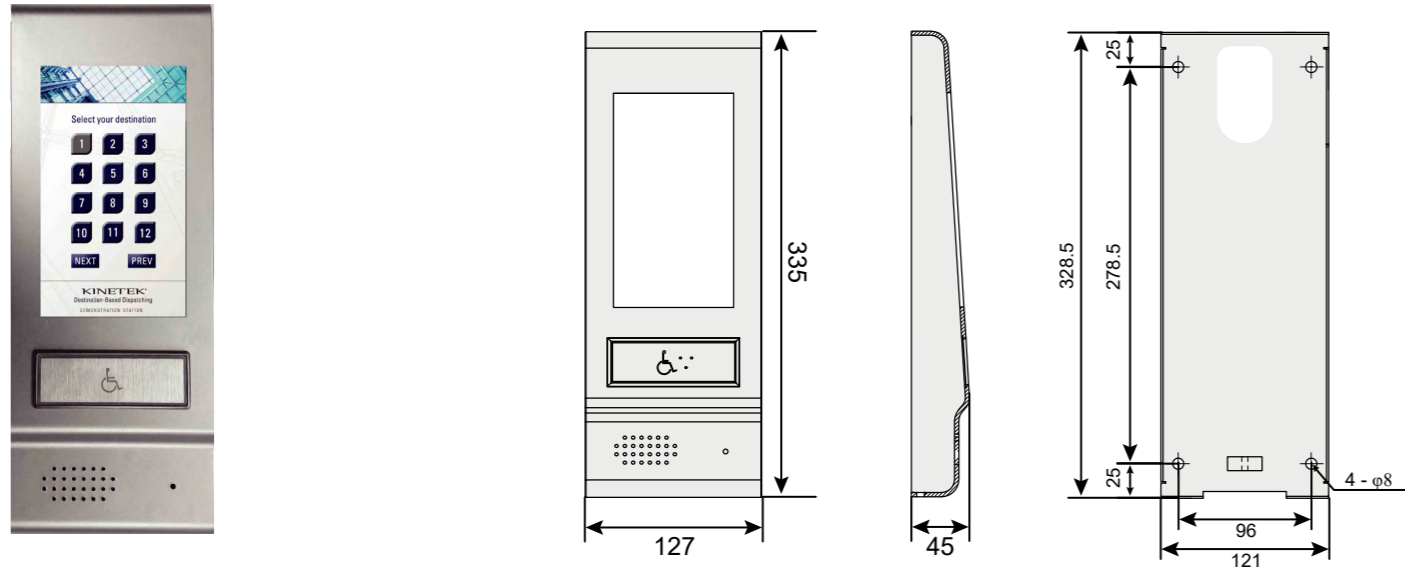
This mode is very economical and effective for enhancement of traditional group control.

所有层站配置电梯编号标识
All floors are equipped with elevator number identification

所有层站配置DID操作面板
All floors are configured with DID

其他层站配置LOP&方向灯
Other floors are equipped with LOP & Direction Lights

仅在大厅层配置DID操作面板&电梯编号标识
Only configure DID operating panel & elevator number identification on the lobby floor

※ 轿厢内无COP操作面板
No COP operating panel in the car

※ 轿厢内至少配置一套COP操作面板
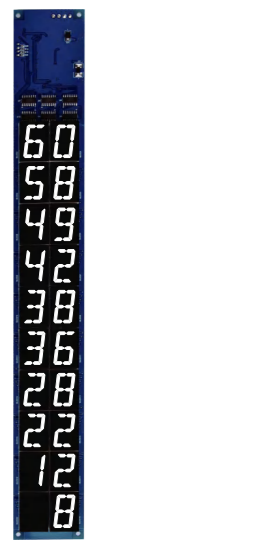At least one set of COP operating panel is required in the car

## Destination Input Devices
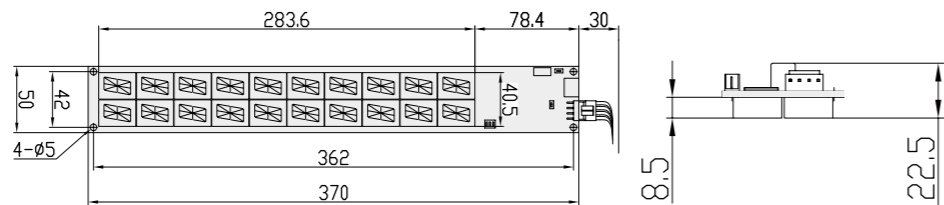
### 产品规格 Product Specifications — K-DID-7



| 产品名称<br>Product Name | 目的地输入设备  Destination Input Devices(DID)<br>7"LCD显示 & 电容触摸屏    7" LCD Display & Capacitive Touch Screen | | | |
|---|---|---|---|---|
| 集成功能<br>Integrated Function | ■ 触摸按钮(可翻页)<br>Touch Button (Turn pages) | ■ ADA按钮<br>ADA Button | ■ 语音播放器<br>Voice Player | ■ 红外感应器<br>Infrared Sensor |
| 特点<br>Features | ■ 挂壁式安装<br>  Wall mount<br>■ 屏幕视觉元素(背景、控件外观和消息)——可以根据需要进行定制<br>  Screen visual elements (Background, Control appearance, and Messaging) – Can be customized if desired. | | | |

### 产品规格 Product Specifications — K-PI1002



| 产品名称<br>Product Name | 目的地指示器      Destination Indicator<br>LED段码显示器    LED Segment Display | |
|---|---|---|
| 显示内容<br>Display Content | 目的地楼层信息<br>Destination Floor Information | |
| 可选颜色<br>Color | ■ 红<br>Red | ■ 蓝<br>Blue |

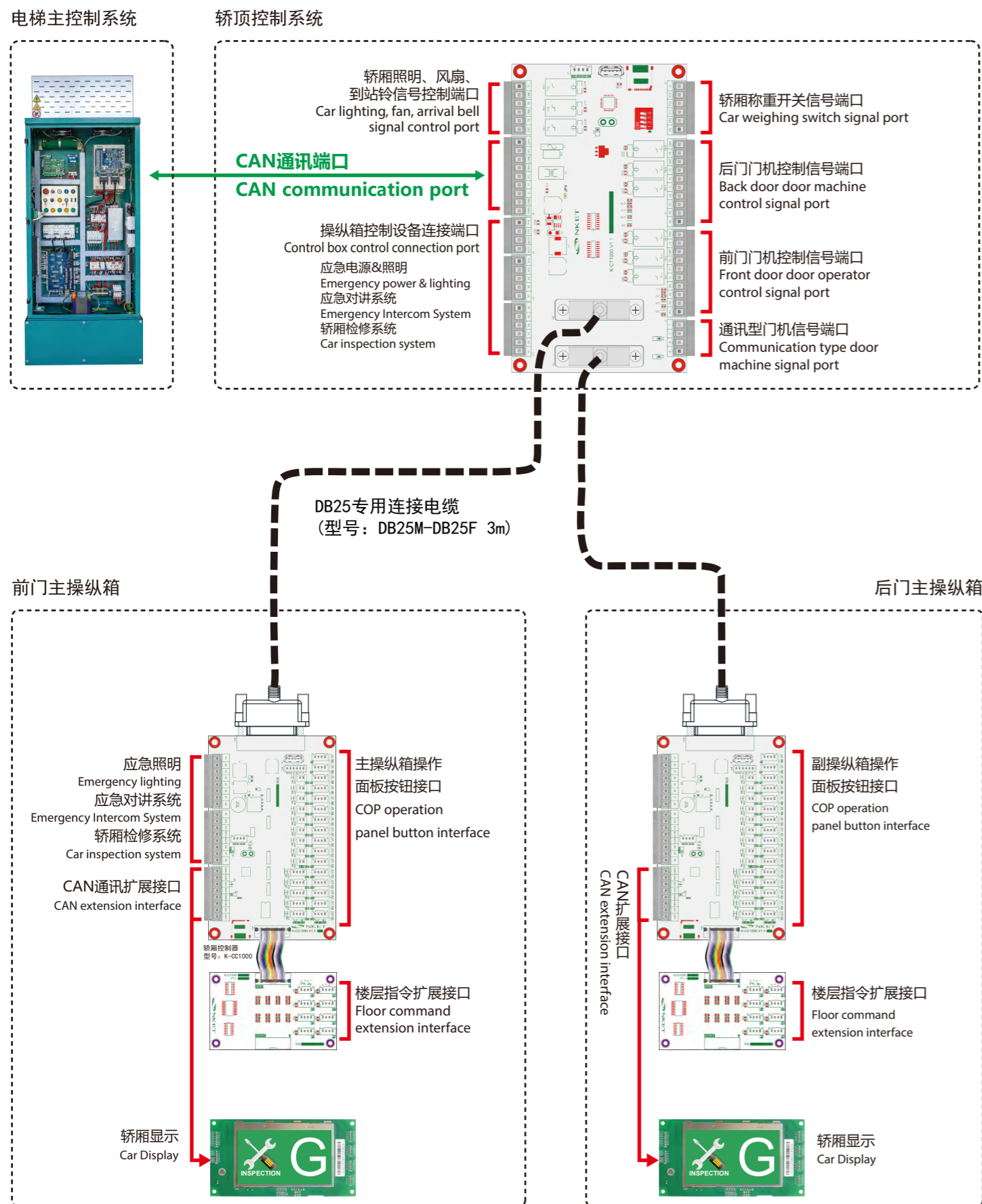## Destination Input Devices

### 产品规格 Product Specifications — K-DID-10



| 产品名称<br>Product Name | 目的地输入设备  Destination Input Devices(DID)<br>10.4"LCD显示 & 电容触摸屏      10.4" LCD Display & Capacitive Touch Screen | | | |
|---|---|---|---|---|
| 集成功能<br>Integrated Function | ■ 触摸按钮(可翻页)<br>Touch Button (Turn pages) | ■ ADA按钮<br>ADA Button | ■ 语音播放器<br>Voice Player | ■ 红外感应器<br>Infrared Sensor |
| 特点<br>Features | ■ 挂壁式安装<br>  Wall mount<br>■ 屏幕视觉元素(背景、控件外观和消息)——可以根据需要进行定制<br>  Screen visual elements (Background, Control appearance, and Messaging) – Can be customized if desired. | ■ 可调氛围灯光<br>  Adjustable Ambient Lighting | | |



直观的人机对话界面，操作简单、快速、易懂，即便您是第一次乘坐这类电梯的乘客,也可以快速掌握操作方法。

The user interface is simple, fast, and easy to understand. Even if you are a passenger taking this type of elevator for the first time, you can quickly grasp the operation method.

# 拓扑图 Topology

电梯主控制系统

轿顶控制系统

轿厢照明、风扇、
到站铃信号控制端口
Car lighting, fan, arrival bell
signal control port

轿厢称重开关信号端口
Car weighing switch signal port

**CAN通讯端口**
**CAN communication port**

后门门机控制信号端口
Back door door machine
control signal port

操纵箱控制设备连接端口
Control box control connection port

应急电源&照明
Emergency power & lighting
应急对讲系统
Emergency Intercom System
轿厢检修系统
Car inspection system

前门门机控制信号端口
Front door door operator
control signal port

通讯型门机信号端口
Communication type door
machine signal port

DB25专用连接电缆
（型号：DB25M-DB25F 3m）

前门主操纵箱

后门主操纵箱

应急照明
Emergency lighting
应急对讲系统
Emergency Intercom System
轿厢检修系统
Car inspection system

主操纵箱操作
面板按钮接口
COP operation
panel button interface

副操纵箱操作
面板按钮接口
COP operation
panel button interface

CAN通讯扩展接口
CAN extension interface

CAN扩展接口
CAN extension interface

轿厢控制器
型号：K-CC1000

楼层指令扩展接口
Floor command
extension interface

楼层指令扩展接口
Floor command
extension interface

轿厢显示
Car Display

INSPECTION G

INSPECTION G

轿厢显示
Car Display

# 产品列表 Product List

| 规格/型号<br>Specifications / Model | 选购件说明<br>Description |
|---|---|
| 轿顶控制器<br>Cartop control board<br>K-CT1000 | ◆ 控制及监测电梯前门与后门控制系统<br>　 Control and monitor elevator front and rear door control systems<br>◆ 实时监测轿厢称重开关信号<br>　 Real-time monitoring of the car's weighing switch signal<br>◆ 智能控制轿厢照明&风扇系统<br>　 Intelligent control car lighting & fan system<br>◆ 扩展对讲、应急电源接口<br>　 Intercom, emergency power interface |
| 轿厢控制器<br>COP control board<br>K-CC1000 | ◆ 采集轿厢呼梯指令接口信号<br>　 Collecting car calls<br>◆ 采集轿厢操纵盘控制信号<br>　 Collect car operating panel control signals<br>◆ 扩展对讲、应急电源接口<br>　 Intercom, emergency power interface |
| 轿厢指令扩展板<br>Car call expansion board<br>K-CI1000 | ◆ 扩展轿厢呼梯指令接口信号，可扩展8个指令接口信号<br>　 Extended car call commands. Can expand 8 car call signals per board<br>◆ 配合指令扩展板连接电缆使用<br>　 Use with the car call expansion board connection cable |
| 语音报站控制器<br>Voice announcement controller<br>MC-VAB | ◆ 兼容MP3、WAV等多种音频格式<br>　 Compatible with MP3, WAV and other audio formats<br>◆ 背景音乐播放功能<br>　 Background music playback function |

## LED显示器 LED Display

### 产品规格 Product Specifications — K-PI1100
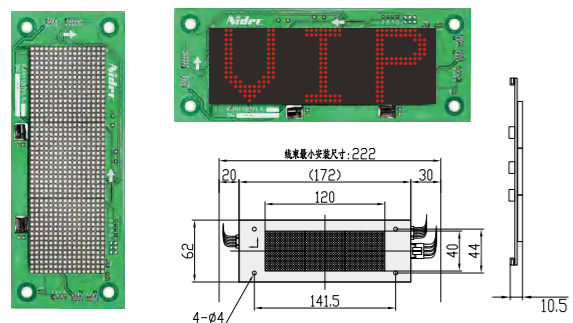


| 显示方式 Display Method | 高密度LED显示 High density LED display | ■ 横显Horizontal ■ 竖显Vertical |
|---|---|---|
| 显示内容 Display Content | ■ 楼层信息 ■ Floor Info | ■ 电梯状态(简体、繁体、英文) ■ Elevator status (CN、TC、EN) |
| 特点 Features | 超薄，适用于挂壁式安装 Ultra-thin, Suitable for wall mount | |
| 可选颜色 Color | ■ 红 Red ■ 蓝 Blue ■ 白 White | |

### 产品规格 Product Specifications — K-PI1200
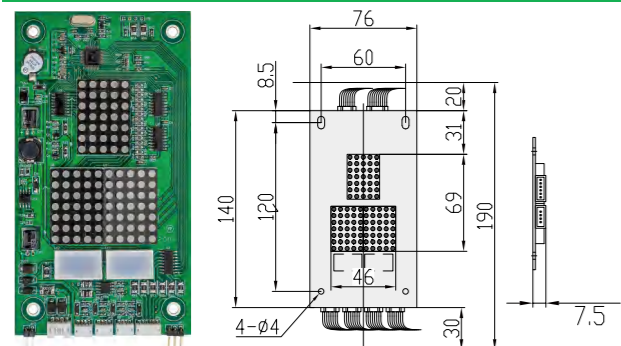


| 显示方式 Display Method | LED点阵显示 LED Dot matrix display | ■ 竖显 Vertical |
|---|---|---|
| 显示内容 Display Content | ■ 楼层信息 ■ Floor Info | ■ 电梯状态(英文) ■ Elevator status (EN) |
| 特点 Features | 超薄，适用于挂壁式安装 Ultra-thin, Suitable for wall mount | |
| 可选颜色 Color | ■ 红 Red ■ 蓝 Blue | |

### 产品规格 Product Specifications — K-PI1300
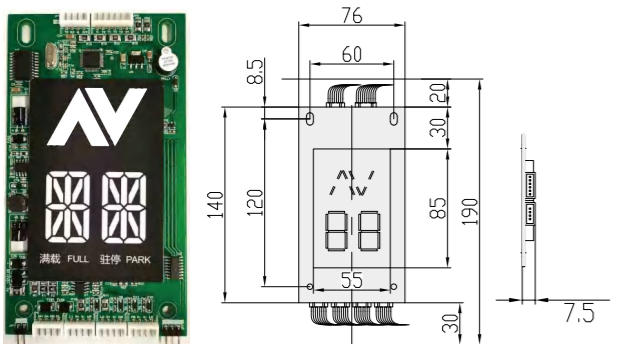


| 显示方式 Display Method | LED段码显示 LED Segment code display | ■ 竖显Vertical |
|---|---|---|
| 显示内容 Display Content | ■ 楼层信息 ■ Floor Info | ■ 电梯状态(英文) ■ Elevator status (EN) |
| 特点 Features | 超薄，适用于挂壁式安装 Ultra-thin, Suitable for wall mounting | |
| 可选颜色 Color | ■ 白 White | |

## LCD显示器

### 产品规格 Product Specifications — K-TFT43
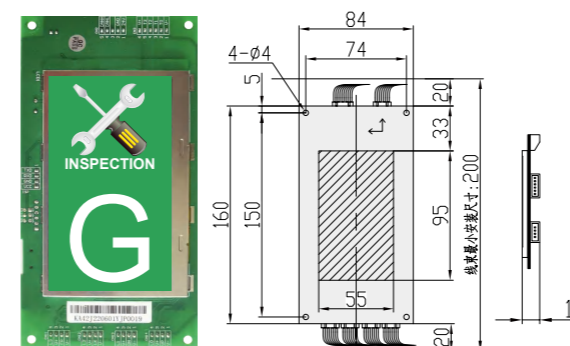


| 显示方式 Display Method | 4.3" LCD显示 4.3" LCD Display | ■ 横显Horizontal ■ 竖显Vertical |
|---|---|---|
| 显示内容 Display Content | ■ 楼层信息 ■ Floor Info | ■ 电梯状态(定制图片) ■ Elevator status (Custom pictures) |
| 特点 Features | 超薄，适用于挂壁式安装 Ultra-thin, Suitable for wall mount | |
| 可选颜色 Color | RGB色彩模式(可定制) RGB Color Mode(Customizable) | |

### 产品规格 Product Specifications — K-06T
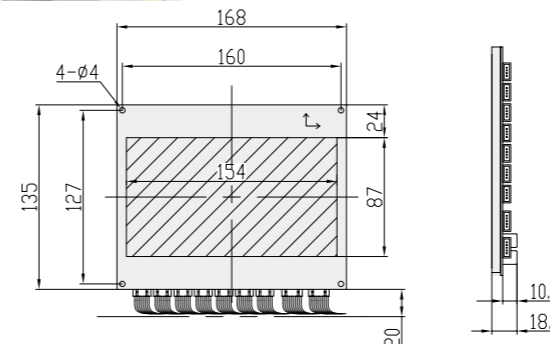


| 显示方式 Display Method | 7" LCD显示 7" LCD Display | ■ 横显Horizontal ■ 竖显Vertical |
|---|---|---|
| 显示内容 Display Content | ■ 楼层信息 Floor Info ■ 电梯状态Elevator status ■ 广告图片Ad Pictures ■ Logo & Date/Time | |
| 特点 Features | 显示内容&布局均可定制 Display content & Layout can be customized | |
| 可选颜色 Color | RGB色彩模式(可定制) RGB Color Mode(Customizable) | |
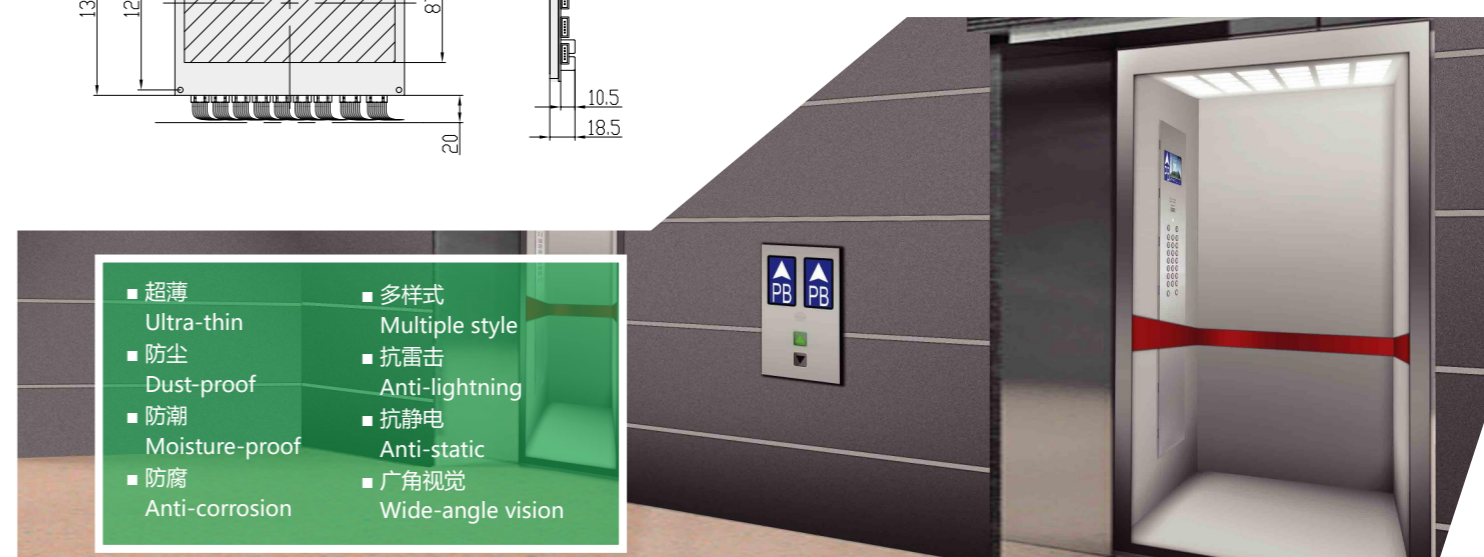
■ 超薄 Ultra-thin
■ 防尘 Dust-proof
■ 防潮 Moisture-proof
■ 防腐 Anti-corrosion
■ 多样式 Multiple style
■ 抗雷击 Anti-lightning
■ 抗静电 Anti-static
■ 广角视觉 Wide-angle vision

## 系统介绍 System Introduction

### 借助NIOE，您可以从任何一个位置监控所有电梯和自动扶梯
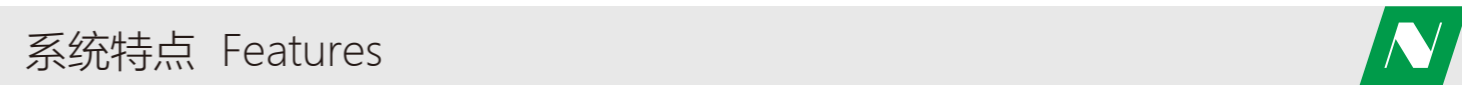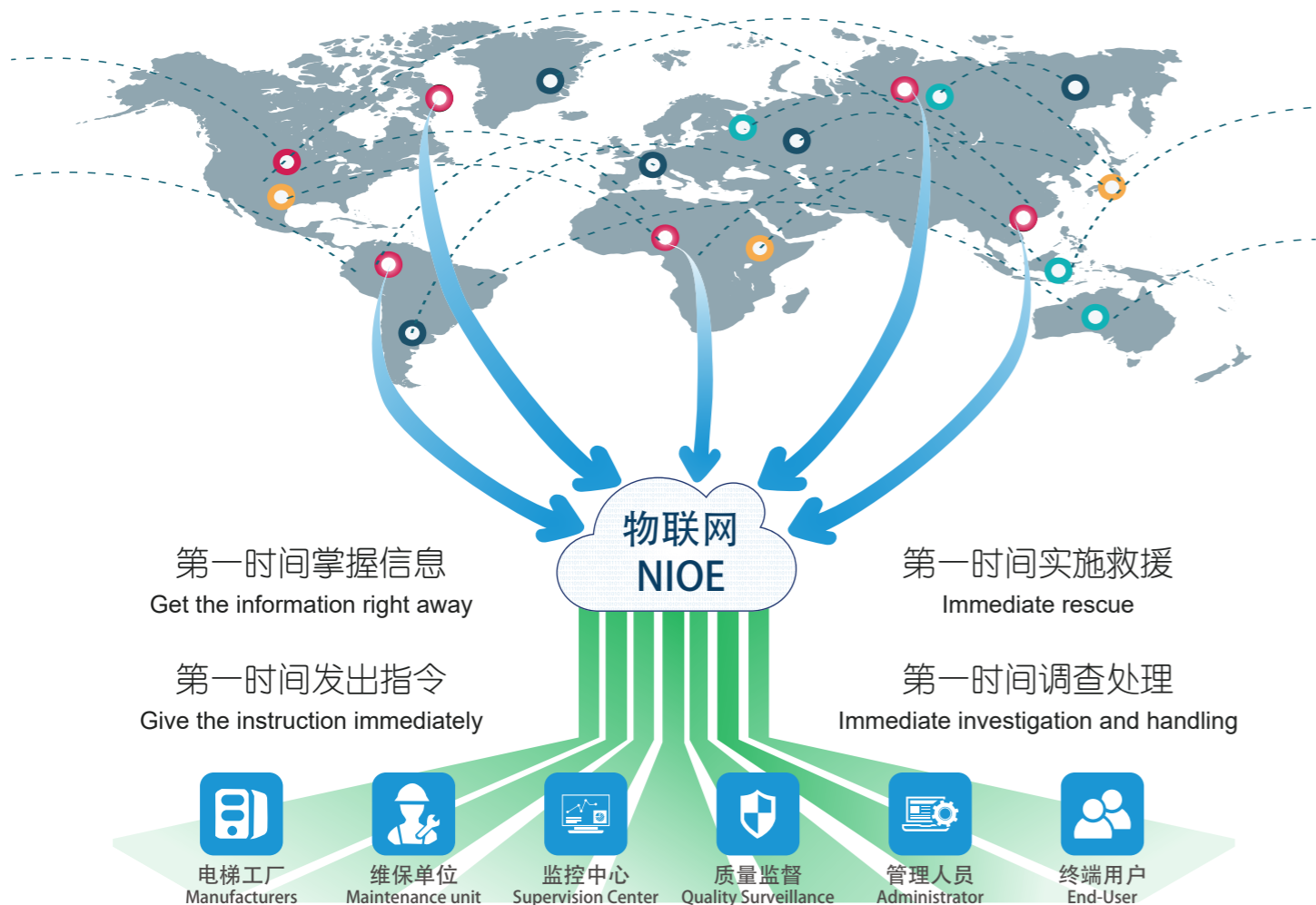
NIOE系统可实时向您提供电梯信息、电梯状态、设备故障和系统管理等各种数据

通过有线或者无线连接协议将电梯数据采集器、故障报警系统等信息整合到管理平台，经过数据分析，实现远程监测、自动报警、远程控制、诊断和维护、系统联动、数据挖掘、报表与决策支持等。

### With NIOE
### You can monitor all elevators and escalators from any location

**The NIOE system can provide you with various data such as elevator information, elevator status, equipment failure and system management in real time.**

Through wired or wireless connection, the elevator data, elevator fault and other information are sent to the cloud data management platform. Once the NIOE system collects and analysis the data, the system can support remote monitoring, automatic alarm, remote control, diagnosis and maintenance system linkage, data mining, reports, etc.

第一时间掌握信息
Get the information right away

第一时间实施救援
Immediate rescue

第一时间发出指令
Give the instruction immediately

第一时间调查处理
Immediate investigation and handling

物联网
NIOE

电梯工厂 Manufacturers
维保单位 Maintenance unit
监控中心 Supervision Center
质量监督 Quality Surveillance
管理人员 Administrator
终端用户 End-User

## 系统特点 Features

### 稳定
NIOE云服务器是服务器集群而产生的，故障可自动迁移，如果一台云服务器出现故障，其上面的应用就自动迁移到其他云服务器上，因此它的故障率很低。

### Stability
NIOE cloud servers are generated by server clusters, and failures can be automatically migrated. If a cloud server fails, the applications on it will be automatically migrated to other cloud servers, so its failure rate is very low.

### 安全
NIOE云服务器具有防攻击和欺骗的功能，快照备份，数据永久不丢失

### Safe
NIOE cloud server has anti-attack, spoofing functions, and snapshot backup to ensure that no data will be lost forever.

### 经济
用户可以在线实时增加自己的配置，可扩展空间较大，根据自己的需求，选择性地增加服务，使资源的利用性最大化

### Economic
Users can add their own configuration online in real time, and the expansion space is large. Users can selectively add services to maximize the utilization of resources according to their own needs.

### 可管理
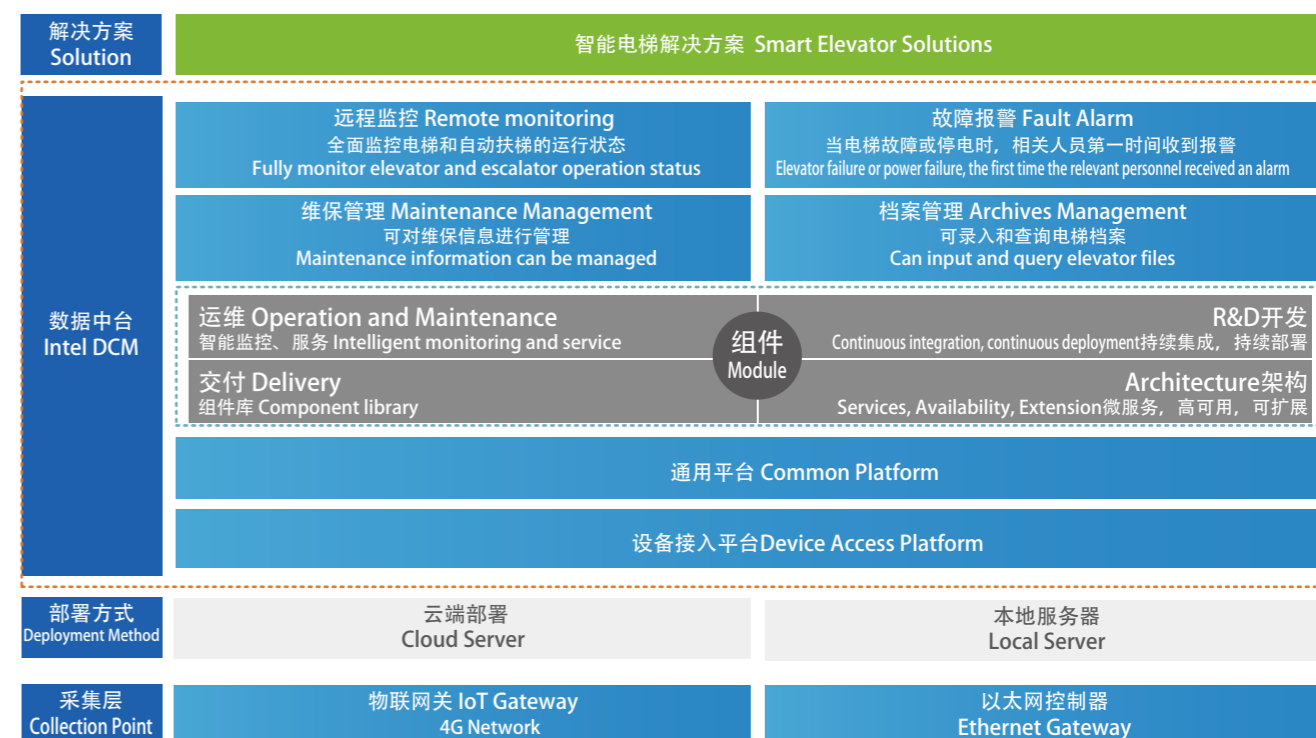支持整个网络系统各种设备的统一网络管理。 如设备管理、故障管理、配置管理、和安全管理等基本要求

### Controllable
It supports unified network management of various devices in the entire network system. Basic requirements such as device management, fault management, configuration management, and safety management.

### 标准化
在网络设计结构上实现真正开放，基于国际开放式标准，使用户可以自由地选择不同区域与质量监督局进行对接

### Standardized
Real openness in the network design structure based on international open standards. Users can freely choose different regions to connect with the Quality Supervision Bureau.

## 物联网架构 Network Architecture

| 解决方案 Solution | 智能电梯解决方案 Smart Elevator Solutions | |
|---|---|---|
| 数据中台 Intel DCM | 远程监控 Remote monitoring<br>全面监控电梯和自动扶梯的运行状态<br>Fully monitor elevator and escalator operation status | 故障报警 Fault Alarm<br>当电梯故障或停电时，相关人员第一时间收到报警<br>Elevator failure or power failure, the first time the relevant personnel received an alarm |
| | 维保管理 Maintenance Management<br>可对维保信息进行管理<br>Maintenance information can be managed | 档案管理 Archives Management<br>可录入和查询电梯档案<br>Can input and query elevator files |
| | 运维 Operation and Maintenance<br>智能监控、服务 Intelligent monitoring and service<br>交付 Delivery<br>组件库 Component library | 组件 Module   R&D开发<br>Continuous integration, continuous deployment持续集成，持续部署<br>Architecture架构<br>Services, Availability, Extension微服务，高可用，可扩展 |
| | 通用平台 Common Platform | |
| | 设备接入平台Device Access Platform | |
| 部署方式 Deployment Method | 云端部署 Cloud Server | 本地服务器 Local Server |
| 采集层 Collection Point | 物联网网关 IoT Gateway 4G Network | 以太网控制器 Ethernet Gateway |

## 拓扑结构 Topological Structure

# 多元化配置模式 Various Configuration Modes

### 4G组网模式
### 4G Network Mode

*i* 仅限于中国地区 Limited to China

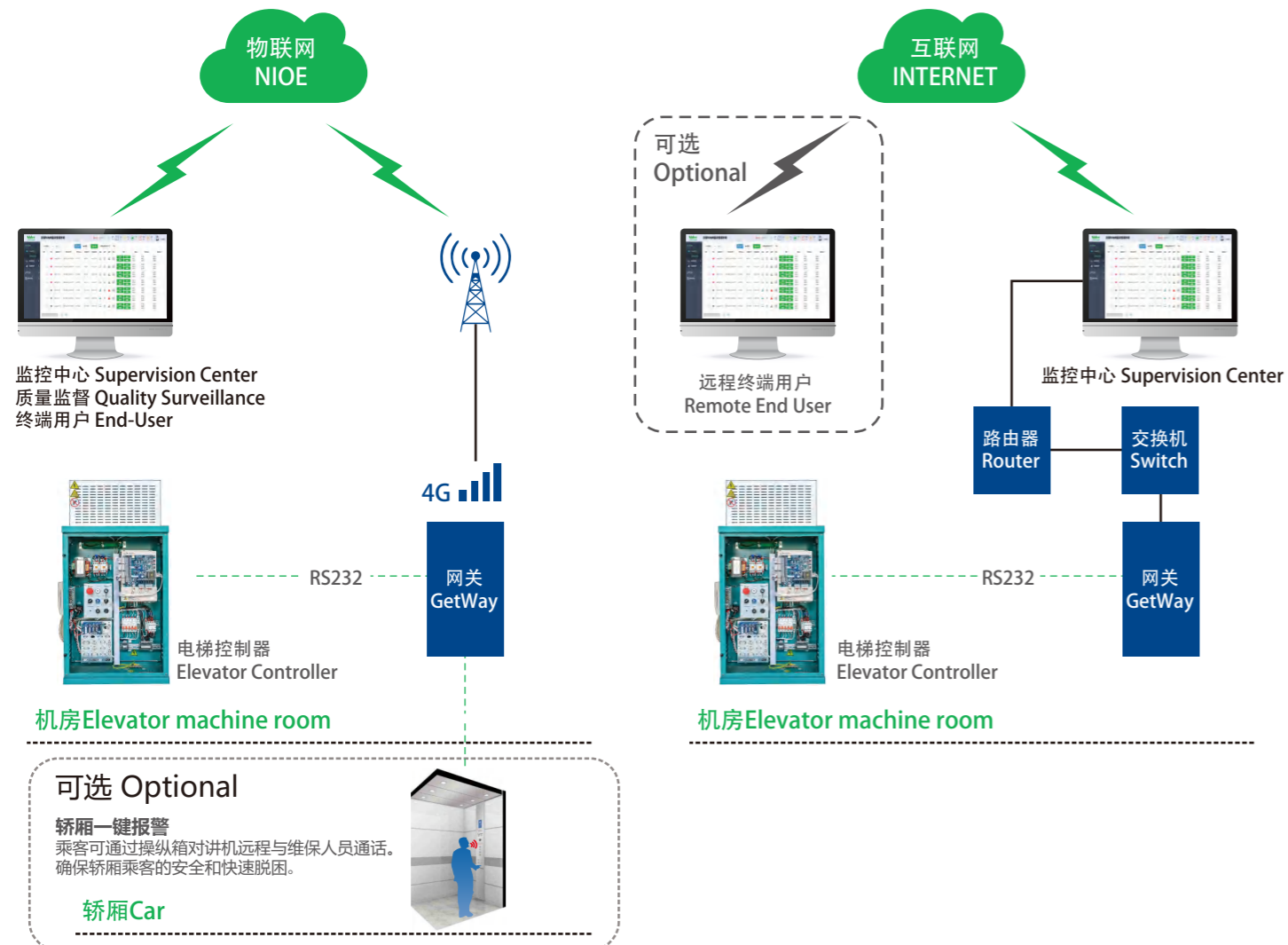**简单 Simple ● 快速 Fast ● 可扩展 Scalable**

- 实时监控电梯运行状态
  Real-time monitoring of elevator running status
- 历史运行状况统计
  Historical statistics
- 故障自动报警(短信、APP推送)
  Automatic fault alarm (SMS, APP push)
- 故障统计与分析
  Fault statistics & analyse
- 一键报警(可选)
  One-button alarm (optional)

### 以太网组网模式
### ETHERNET Mode

*i* 全球通用配置 Universal configuration

**灵活 Flexibility ● 经济 Economy ● 稳定 Stability**

- 实时监控电梯运行状态
  Real-time monitoring of elevator running status
- 历史运行状况统计
  Historical statistics
- 故障自动报警(短信、APP推送)
  Automatic fault alarm (SMS, APP push)
- 故障统计与分析
  Fault statistics & analyse

物联网 NIOE

互联网 INTERNET

可选 Optional

监控中心 Supervision Center
质量监督 Quality Surveillance
终端用户 End-User

远程终端用户
Remote End User

监控中心 Supervision Center

4G ▂▃▄▅

路由器 Router

交换机 Switch

RS232

网关 GetWay

RS232

网关 GetWay

电梯控制器 Elevator Controller

电梯控制器 Elevator Controller

**机房 Elevator machine room**

**机房 Elevator machine room**

### 可选 Optional

**轿厢一键报警**
乘客可通过操纵箱对讲机远程与维保人员通话。
确保轿厢乘客的安全和快速脱困。

**轿厢 Car**

## 配件 Sparepart

**产品规格 Product Specifications** | **K-NIOE4000**

| 产品名称 Product Name | 4G数据网关 4G Data gateway |
|---|---|
| 应用场景 Application | 电梯、扶梯 Elevator, Escalator |
| 特点 Features | 4G全网通 4G Full Netcom<br>RS232通讯 RS232 communication<br>低功耗 Low power consumption<br>Micro卡槽 Micro card slot<br>※ 产品不配SIM卡 The product does not have a SIM card |

**产品规格 Product Specifications** | **K-N100**

| 产品名称 Product Name | 以太网数据网关 Ethernet Data gateway |
|---|---|
| 应用场景 Application | 电梯、扶梯 Elevator, Escalator |
| 特点 Features | RS232通讯 RS232 communication<br>低功耗 Low power consumption<br>不产生流量费用 No traffic charges |

**产品规格 Product Specifications** | **K-NIOE4000E1**
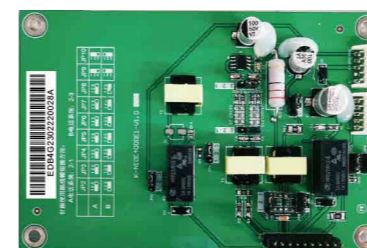
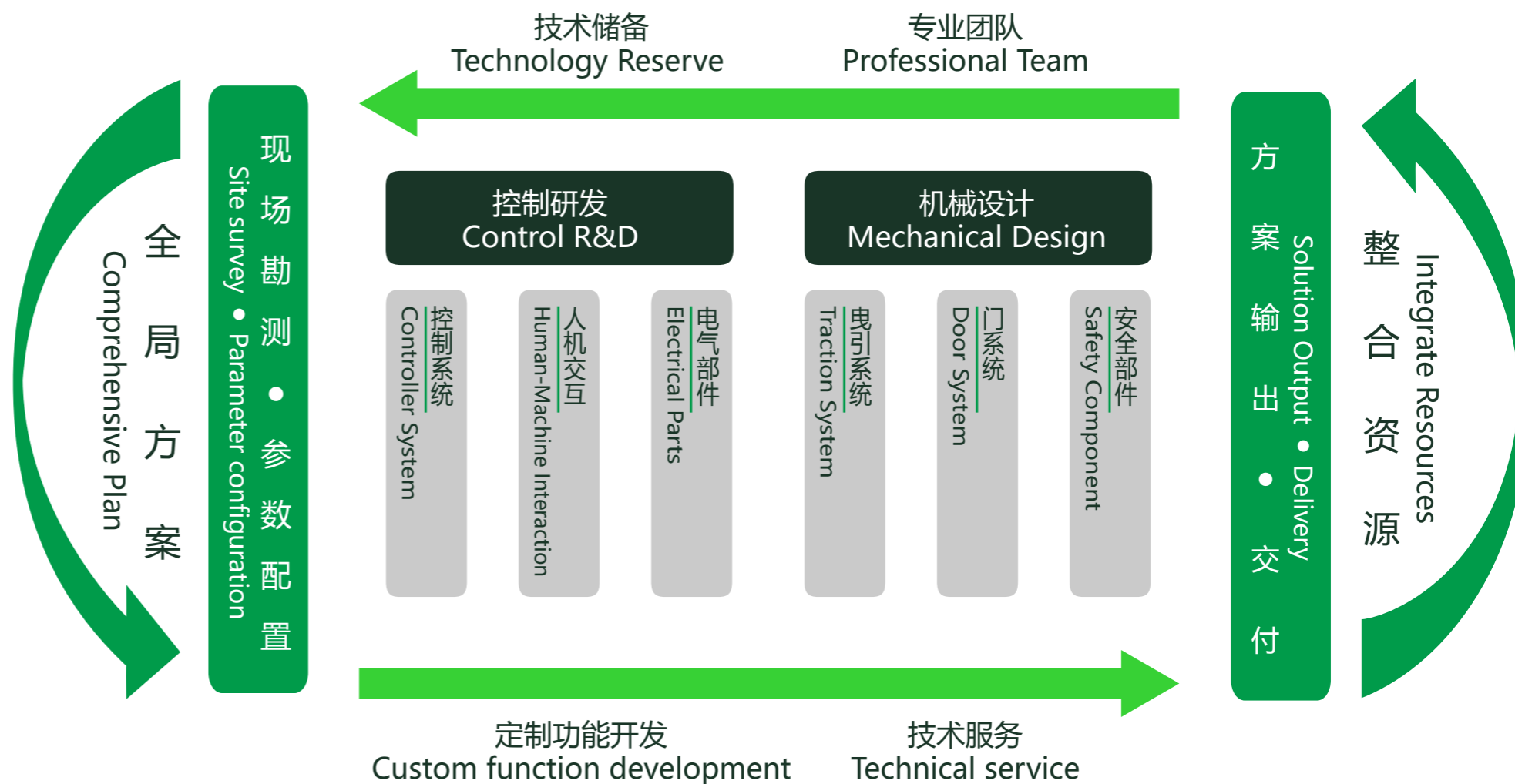| 产品名称 Product Name | 语音通话控制器 Voice call device |
|---|---|
| 应用场景 Application | 电梯 Elevator |
| 特点 Features | 一键拨号 One-touch dial<br>远程报警 Remote alarm<br>多号连拨<br>Continuous dialing of multiple numbers |

# 控制系统 Control System

## 控制柜型号 Control Cabinet Type

- K-MC1000-VVVF　　标准系列 Standard Series
- K-MC1001-VVVF　　安川系列 Yaskawa Series
- K-MC5000-VVVF　　高端系列 Advanced Series
- K-MC8000-VVVF　　高速梯系列 High-speed Ladder Series

## 控制柜样式 Control Cabinet Style

- 有机房 MRO　　无机房 MRL　　安装板 Mounting Plate

## 接线方式 Connection Mode

- 插件型 Plug-in Type　　端子型 Terminal Type

## 人机交互 Human-Machine Interaction

### COP定制项 Customized

不锈钢面板COP
Stainless steel panel

不锈钢面板COP
Stainless steel panel

玻璃面板COP
Glass panel

消防电梯COP
IPX3

- 材质Material：可选 Optional
- 按钮Button：可选 Optional
- 显示Display：点阵/断码/液晶 Dot-matrix/Segment/TFTLCD
- 安装Installation：嵌入式/一体式 Flush/Integrated

### LOP定制项 Customized

- 材质Material：可选 Optional
- 按钮Button：可选 Optional
- 安装Installation：挂壁式 Surface Mount

- 材质Material：可选 Optional
- 按钮Button：可选 Optional
- 尺寸Size：可选 Optional
- 安装Installation：嵌入式 Flush

# 曳引系统 Traction System

- 曳引机 Traction Machine
- 机架 Machine Bedplate
- 编码器 Encoder
- 导向轮 Diverter Sheave
- 钢丝绳 Wire Rope
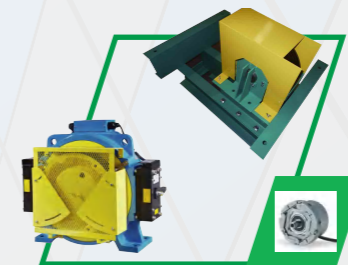
# 门系统 Elevator Door System

- 门机 Door Motor
- 轿门板 Car Door Panel
- 厅门板 Landing Door Panel
- 厅门装置 Landing Door Track
- 门机控制器 Door Operator
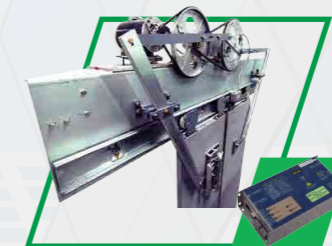
# 安全部件 Safety Component

- 限速器 Governor
- 安全钳 Safety Gear
- 缓冲器 Buffer
- 上行超速保护装置
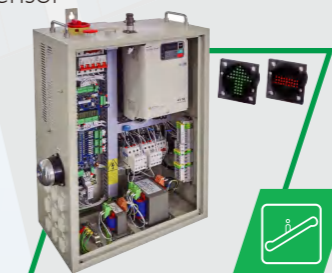  Ascending Car Overspeed Protection

# 垂直梯其他部件 Other Parts of Elevator

- 电缆 Cable
- 称重开关 Weighing Switch
- 平层开关 Level Switch
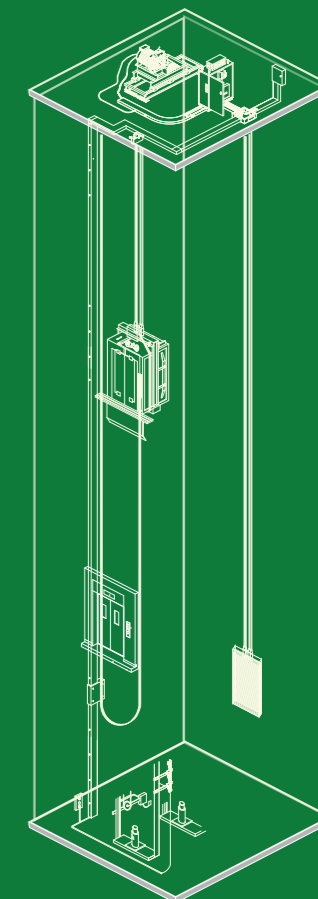- 风机 Fan
- 导轨 Guide Rail
- 导轨支架 Guide Rail Bracket

# 扶梯部件 Escalator Components

## K-MC2000-VVVF扶梯控制柜Escalator Control Cabinet

- 变频/双速VVVF or Y/△　　室内/室外Indoor/Outdoor
- 双链轮传感器 Double Chain Wheel Sensor
- 扶手带传感器 Handrail Sensor
- 梯级传感器 Step Sensor
- 入口传感器 Entrance Sensor
- 入口显示器 Entrance Display

全球供应，本地服务

Global Supply, Local Service

# 项目案例 Project Case

**10,000** ⁺ 台

已完成改造数量
Number Of Modernization Completed

尼得科电梯
美国自由女神像电梯
改造服务商

Statue of Liberty
Elevator Modernization Service Provider

# DBD 改造项目 Modernization Project

DBD 系统让电梯更智能、高效、舒适，更易于使用，使乘客有序乘坐电梯，让等候大厅井井有条. 此外，电梯轿厢不再拥挤，减少不必要的停梯次数，让乘客花更少的时间到达目的楼层。

The DBD system makes the elevator more intelligent, efficient, comfortable, and easy to use, allowing passengers to take the elevator in an orderly manner and keeping lobby in order. In addition, the elevator is no longer as crowded, reducing the number of unnecessary stops, allowing passengers to spend less time to reach the destination floor.
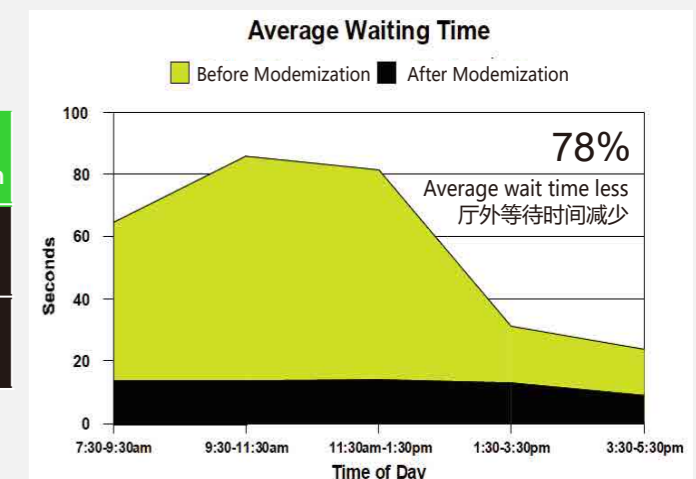
北运河中心,美国芝加哥
10台/3.5m/s

8台/6m/s
大通银行总部，美国曼哈顿

## 项目成果

1.更新控制系统和调度系统
2.电梯提供高性能的舒适乘坐体验
3.DBD与门禁应用
4.远程访问，实时监控，连接和诊断
5.目的地的调度系统明确乘客到其指定的电梯
6.提高群控效率，降低高达70%的呼叫等待时间
7.在高峰时段对更多的乘客交通管制进行了改进

## Project outcome

1. Update the control system and dispatching system.
2. The elevator provides a high performance and comfortable ride.
3. Turnstile security with DBD.
4. Remote access, real-time monitoring, connection and diagnosis.
5. The DBD dispatch system directs passengers to its designated lift.
6. Improve group efficiency and reduce call waiting time by up to 70%.
7. Improved traffic control for more passengers during peak hours.

### 测评数据 Evaluation Data

| 数据<br>Data | 改造前<br>Before modification | 改造后<br>After transformation |
|---|---|---|
| 呼梯次数<br>Number of calls | 3,130 | 2,496 |
| 人数<br>Number of people | 3,200 | 5,000+ |

**Average Waiting Time**

■ Before Modemization ■ After Modemization

**78%**
Average wait time less
厅外等待时间减少

Seconds

100 / 80 / 60 / 40 / 20 / 0

7:30-9:30am  9:30-11:30am  11:30am-1:30pm  1:30-3:30pm  3:30-5:30pm

Time of Day

# P roject Case
## 项目案例

## 定制改造 Customized Modernization

**新加坡HDB项目**

HDB Modernization Project (Singapore)

为全面满足所有HDB要求而定制的设计：
Customized design to fully meet all HDB requirements

- 与当地政府LMD监控系统接口
  Interface with local government LMD monitoring system
- 定制不间断电源（UPS）接口
  Customized UPS interface
- 门恶作剧检测与报警系统
  Door vandalism detection with alarm
- 尿液检测系统接口
  Urine detection system interface
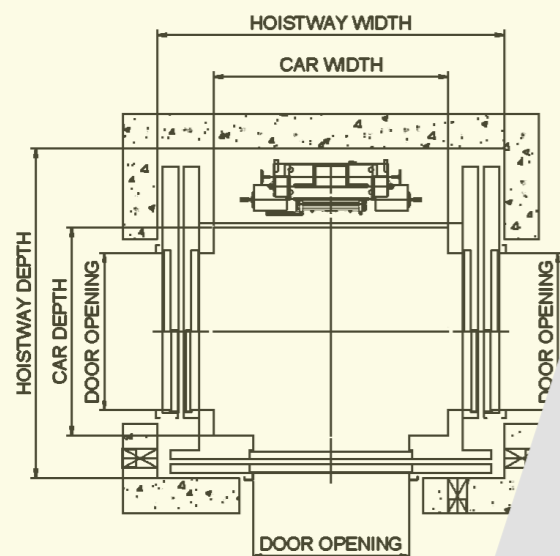
### 三开门电梯

定制控制系统与机械结构，控制三个门在不同楼层的开启与关闭

### Three Entries Lift

Control three doors to open/close in different floors.

HOISTWAY WIDTH
CAR WIDTH
HOISTWAY DEPTH
CAR DEPTH
DOOR OPENING
DOOR OPENING
DOOR OPENING

### AGV跨楼层运输解决方案

自动控制AGV智能搬运机器人和自动输送线，根据AGV的电梯乘坐引导，实现楼层自动登记、AGV安全进出电梯、自动门、故障处理以及其他定制功能。

### AGV Cross-floor Transportation Solution

Automatic ally control of AGV intelligent handling robot and automatic conveyor-line,According to the AGV's elevator taking guidance,Realize automatic floor registration,AGV safety entering and exiting the elevator,Automatic door,Fault handling and other customized functions.
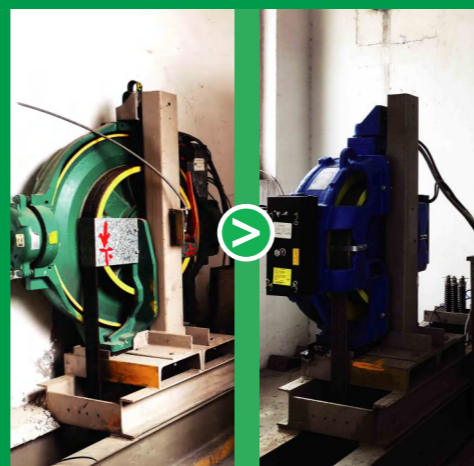
### ELGO安全控制盒应用

- 高精度平层&再平层控制（<1mm）
- 减行程功能(ETSL)电梯改造
- 消防员电梯改造

### Safety Control Box Application

- High precision leveling & re-leveling control (<1mm)
- Reduced Travel function (ETSL) elevator retrofit
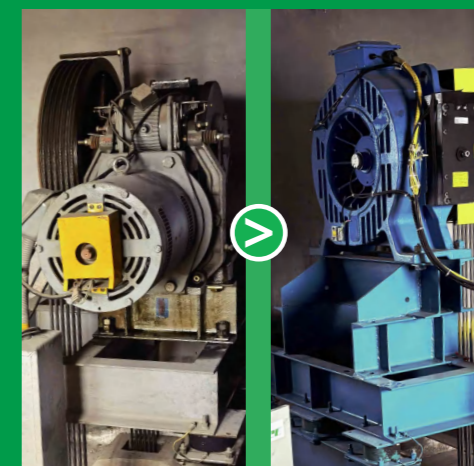- Firefighter elevator renovation

### 碟式马达更换

- 机械与电气1：1替换
- 块式抱闸，更静音

### Disc motor replacement

- Mechanical and electrical 1:1 replacement
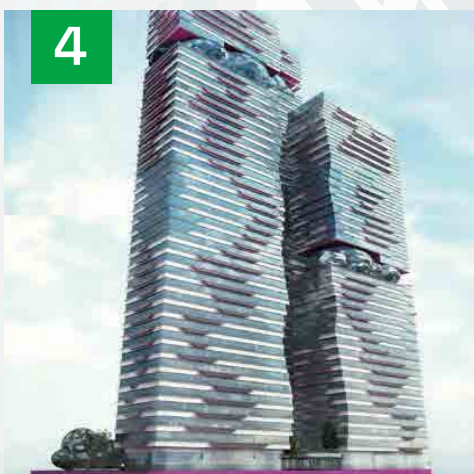- Block type brake, quieter operation

### 异步马达更换

- 曳引比1：1同步马达无缝替换
- 保留原机械结构，减小人工成本

### Asynchronous motor replacement

- Haul-off ratio 1:1 seamless switch to synchronous motor

# P roject Case

## 项目案例

1. Arte MK(马来西亚)高速梯项目
   Arte MK, Kuala Lumpur, Malaysia
2. 沙特雷迪森蓝光酒店
   Najmat Tower Reem Island C10, Abu Dhabi
3. 伦敦加尔默罗楼项目
   London MRL Anti-Fire Building
4. Arte Plus 高速梯项目, 马来西亚
   Arte Plus High-speed, Malaysia
5. 悉尼机场项目
   Sydney Airport
6. 海尔有住智能家居项目
   Haier Youzhu Smart Home Project
7. 墨尔本阳光站项目
   Melbourn Sunshine Station
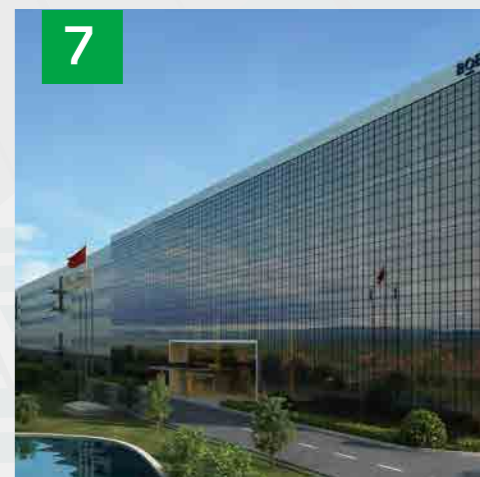
1. 纽约华尔街金融中心项目
   11 Wall S, New York
2. 芝加哥111北运河中心项目
   111 Chicago North Canal Center, USA
3. CNN新闻总部项目
   CNN News Headquarter
4. 美国驻阿富汗大使馆项目
   Afahanistan American Embassy
5. 沙特阿拉伯海水淡化公司项目
   Saudi Arabian SWCC Project 243 sets
6. 澳大利亚布里斯班机场
   Brisbane Airport
7. 京东方(重庆)基地项目
   Chongqing BOE Project
8. 马来西亚MSU医院项目
   MSU Hospital, Malaysia

# Project Case

项目案例
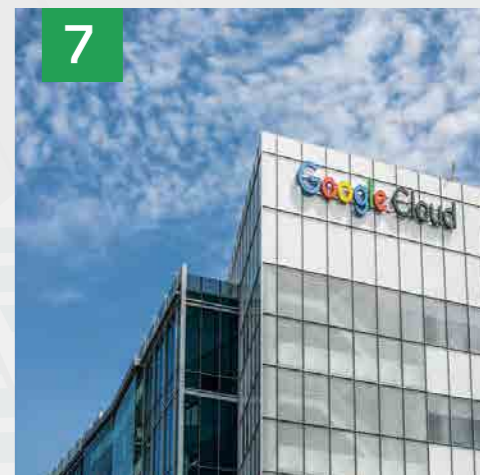


1. 上合之珠国际博览中心项目
   SCO Pearl International Expo Center
2. 青岛胶东国际机场项目
   Qingdao Jiaodong International Airport
3. 上合组织国家青年创业中心项目
   SCO National Youth Entrepreneurship Center
4. 墨西哥第一高大厦高速梯项目
   TOP Project -The Tallest Building, Mexico
5. 阿卜杜勒齐兹国王世界文化中心项目
   King Abdulaziz Center for World Culture
6. 越南岘港万豪酒店项目
   Marriott Hotel, Vietnam
7. 2022FIFA卡塔尔世界杯项目
   Qatar FIFA Headquarters

1. 武汉协和医院项目
   Union Hospital Modernization project, Wuhan
2. 通辽金融商业中心项目
   Tongliao Financial and Business Center
3. 澳大利亚皇家展览中心项目
   Royal Australian Exhibition Center
4. 印度金奈地标项目
   Runwal Greens, India
5. 智利安第斯山脉矿井电梯项目 抗地震设计
   Andes Mine Elevator, Chile
6. 卡塔尔国家石油开采项目 海上项目
   King Salamn Global Maritime Industries
7. 谷歌(智利)重载汽车梯项目
   Google Heavy-duty Car Elevator, Chile
8. 中法国际客厅青岛项目
   Sino-French International Convention Center