水互动（娱乐）产品

Water Interactive (Entertainment) Products



水帘秋千

水帘秋千是一款在数字水帘基础上，通过机械及控制原理，使人在水中穿梭摆荡但不会被淋湿的互动景观产品。其适用于景区、公园、广场、乐园等多种户外场景。

水帘秋千底部水箱内置了低压潜水泵，可将水输送到顶部水箱。通过其配备的高精度传感器及高效算法，能够精准控制顶部电磁阀的落水时间，从而始终保证人体在正下方时不会被水淋到。

Waterfall Swing

Waterfall Swing is an interactive landscape product which developed from digital water curtain. People will not get wet when swing on it. It is suitable for various outdoor scenes such as scenic spots, parks, squares and enter-tainment parks.

With E-Tech extra low voltage submersible pump inside bottom tank, it transports water from the bottom tank to the top tank. By controlling the top solenoid valve with high-precision sensors and efficient algorithms, it can accurately control the water falling gaps, so as to keep you dry in the water when you swing.



特点 Features

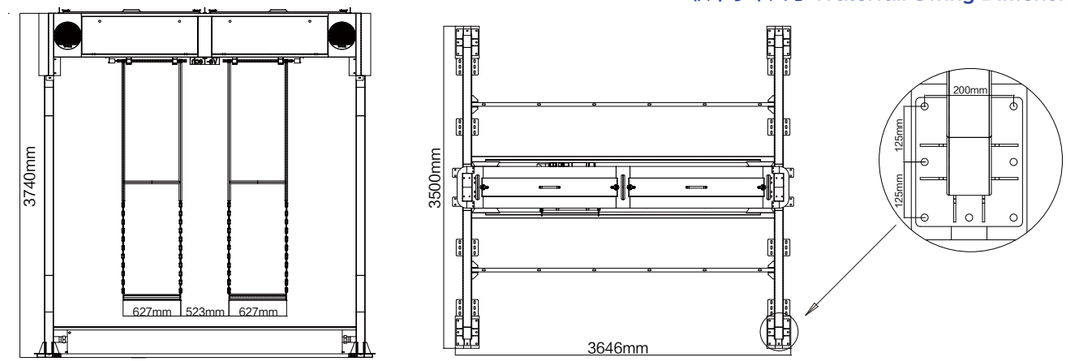
- DC24V低压水泵 — E-Tech DC24V Extra Low Voltage Pump
- DC24V高速电磁阀 — DC24V High Speed Solenoid Valve
- 内置纸芯过滤器 — High Quality Paper Filter
- 惠威音响系统 — HW Audio System
- LED-RBG程控灯 — LED-RGB Light
- 高精度传感器及算法落水更长 — High-precision Sensors And Efficient Algorithms
- 支持扫码付费启动 — Scan-To-Pay To Start
- IP43防护等级室外防雨 — IP43 Waterproof Grade

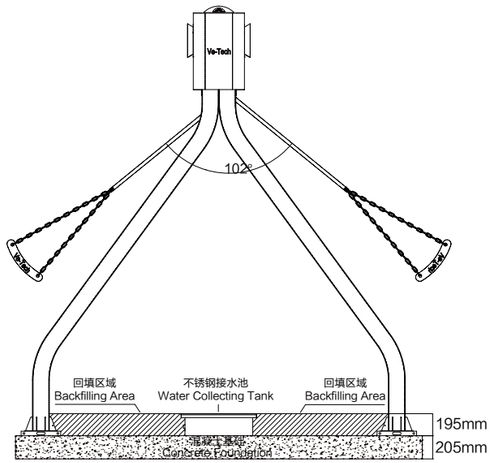
扫二维码观看视频
Scan code to watch video

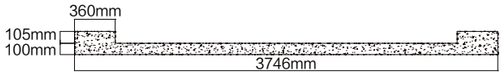
参数 Parameters

名称	Item	参数 Parameter
颜色方案	Color Scheme	红/蓝/白/自定义 Red/Blue/White/User-defined
工作环境温度	Working Ambient Temperature	3~40℃
工作环境湿度	Working Ambient Humidity	20~90%RH无冷凝 20~90%RH Non-condensing
防水等级	Waterproof Grade	IP43
材质	Material	不锈钢304+碳钢 SS304+Carbon Steel
电磁阀数量	Solenoid Valves	120个 120 Pcs
喷嘴数量	Nozzles	240个 240 Pcs
音响	Audio	惠威音响100Wx2 HW Audio 100x2
启动方式	Starting Mode	按键启动/扫码付费启动，可选 Optional: Button/Scan-To-Pay
安装场地	Installation Site	可户外安装（室外防雨） Outdoor and Indoor (Outdoor Rainproof)
安装电源	Installation Power Supply	AC220V-2.2kW
净重	Net Weight	600kg
外形尺寸	Dimension	3646mmx3500x3740mm

秋千水帘尺寸 Waterfall Swing Dimension













互动地板

互动地板是一款集灯光、喷泉、互动功能于一体的产品，适用于景区、公园、广场、乐园等多种户外场景。可独立使用，也可搭配其它水景产品。

Dancing Fountain Tile

Dancing Fountain Tile is an interactive product, which is an intergrated product of lighting,music and fountain systems. It can be modularized. It is suitable for square, dry fountain and other outdoor environments that have landscape requirement.



特点

- 不锈钢304材质
- IP67防护等级
- 磨砂钢化玻璃
- LED标准DMX512协议
- 多种输出信号485/模拟量/开关量

Features

- SS 304
- IP67 Waterproof Grade
- Frosted Tempered Glass
- DMX512 Standard Protocol
- Multi Different Signals Output

扫二维码观看视频
Scan code to watch video

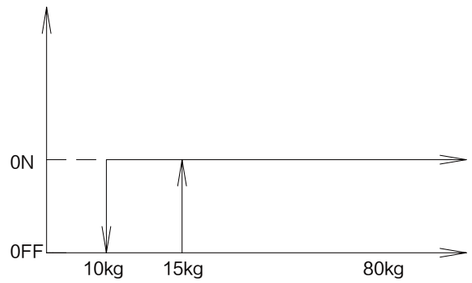
控制原理图方案一　Control Schematic Diagram – Scheme Ⅰ

- **开关量输出**

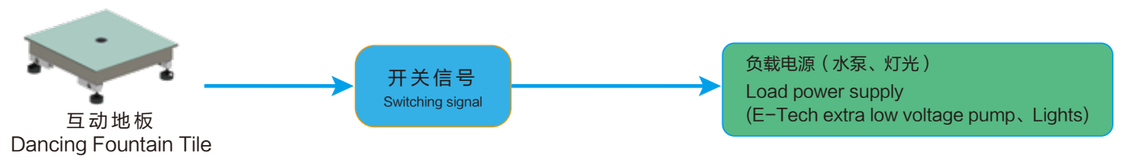
通过重量传感器将重量转换成一个开关量信号，重量的变化直接控制开关的导通和断开。通过开关的接通/断开，实现低压水泵、水娱乐、灯光等设备的开关机。开关量输出特性：无源常开接点，Max 250V 5A。

- **Switching Output**

The gravity sensor converts weight changing stimuli into the electrical signal and send it to the switch.Then the switch controls E-Tech extra low voltage water pump, water entertainments, lighting and other equipment on/off.Switching output characteristics: passive normally open contact, Max 250V 5A.



开关量与重量特性图
Switching And Weight Diagram



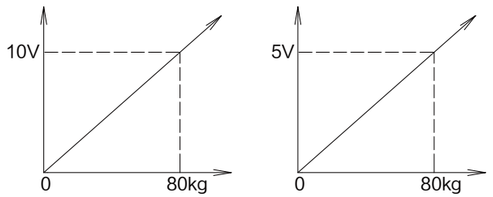
控制原理图方案二　Control Schematic Diagram – Scheme Ⅱ

● 模拟量输出

通过重量传感器将重量转换成一个模拟量信号，重量的变化直接转换成0–5V或0–10V电压信号，方便与低压水泵、变频器、调光器等设备连接，可以单台单控，也可单台多控。

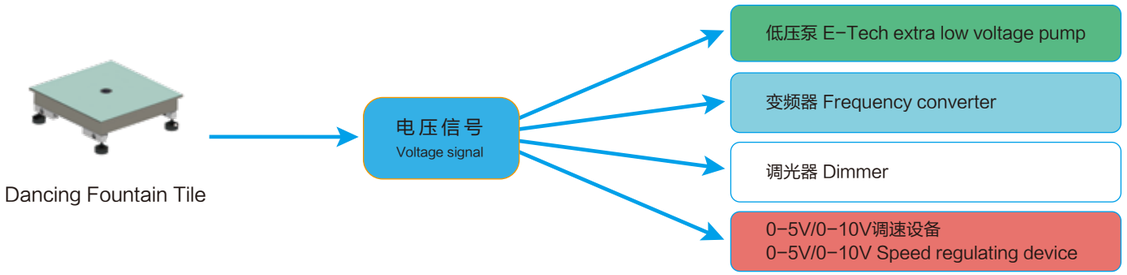
● Analog Output

The weight changing stimuli is converted into the analog signal by the gravity sensor, the signal is directly converted into 0–5V or 0–10V voltage signal, then the input signal is transmitted to low–voltage water pump, frequency converter, dimmer and other equipments. One–to–one control or one–to–many control.



电压与重量线性图

Voltage And Weight Linear Diagram



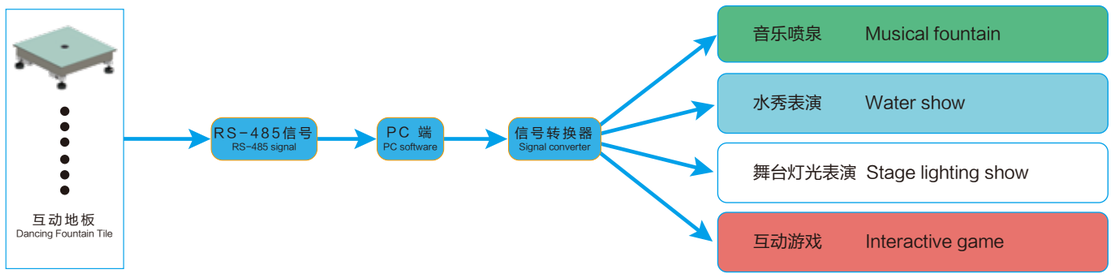
控制原理图方案三　Control Schematic Diagram – Scheme Ⅲ

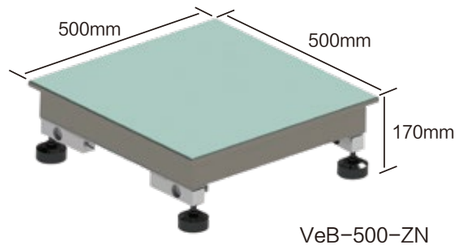
● RS–485通讯输出

标准modbus RTU协议，方便与PC/PLC等各种自动化设备通信。上位机软件通过协仪，可实现动感单车与喷泉、水秀、灯光等设备进行互动控制。接口类型：RS–485隔离型，支持03、06、16（0x10）功能码。

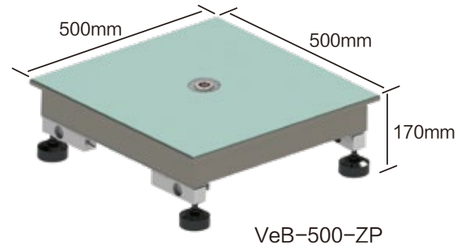
● RS–485 PIF Out

The weight changing stimuli is converted into the standard modbus RTU protocol by the gravity sensor, then the input signal is transmitted to PC/PLC and other automation device. The upper computer software can control fitness fountain bicycle, fountain, water show, lighting and other equipments by the protocol. Interface type: RS–485 isolation type, support 03, 06, 16 (0x10) function code.





VeB–500–ZN



VeB–500–ZP

型号 Model	VeB–500–ZN	VeB–500–ZP
工作环境温度Working Temperature	3~40℃	3~40℃
防水等级 Waterproof	IP67	IP67
材质 Material	SS304+钢化玻璃 SS304+Tempered Glass	SS304+钢化玻璃 SS304+Tempered Glass
额定电压 Nominal Voltage	DC24V ± 2V	DC24V ± 2V
功率（不含灯光）Power(No Light)	30W	42W
地板灯 Floor Light	33W–RGB–DMX512	30W–RGB–DMX512
环形喷泉灯 Circle Fountain Light	N/A	12W–RGB–DMX512
DMX通道 DMX Signal Channel	3（地板灯） 3 (Floor Light)	6（地板灯–3、环形灯–3） 6 (Floor Light–3、Circle Fountain Light–3)
输出信号 Signal Output	开关量/电压/Modbus可选 Switching/Voltage/Modbus Output	开关量/电压/Modbus可选 Switching/Voltage/Modbus Output
承重 Bearing Weight	300kg	300kg
DC24V潜水泵 DC24V Submersible Pump	N/A	选配 Optional
安装电源 Installation Power Supply	DC24V ± 2V–40W	DC24V ± 2V–52W
净重 Net Weight	18kg	18kg
外形尺寸 Dimension	500mmx500mmx170mm	500mmx500mmx170mm

备注：数量大于200台，单块地板尺寸可以定制。

Note: More than 200 Pcs, the size of dry fountain tile can be customized.

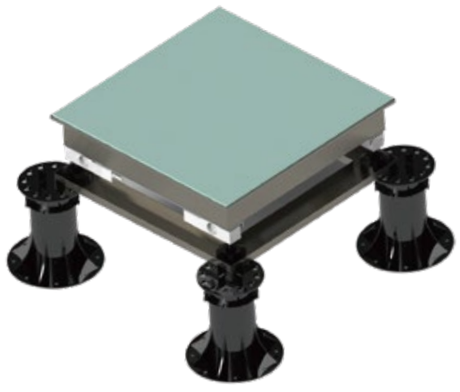
产品安装 Installation

方案一 万能支撑器

地板的四个安装脚置于万能支撑器的支架上，将其调平稳固。整体拼装时，每个地板的四边与周围地板之间预留5mm以上的间隙，防止其相互挤压卡边。

Scheme Ⅰ Fountain Universal Supports

Making four legs of the dancing fountain tiles on the fountain universal supports, in same plane and with no wobbling, 5 mm gaps between each side of tiles shall be maintained to prevent the tiles squeezing each other.



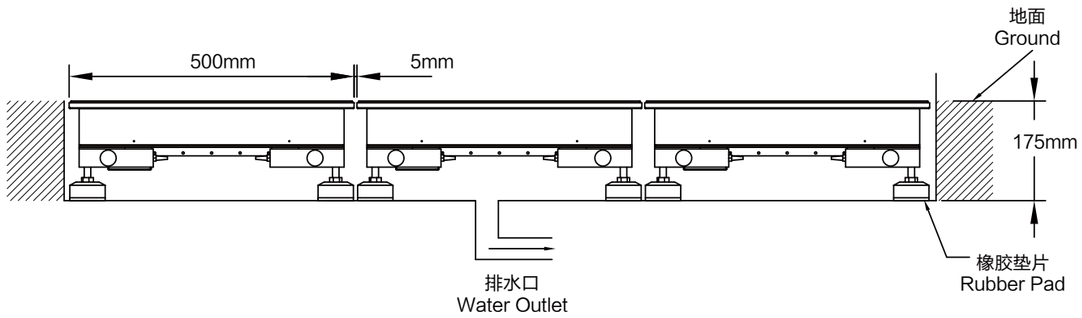


方案二 预埋基础安装

地板的四个安装脚安置在预埋基础里，橡胶垫调平，防止晃动。地板的四边与周围基础之间预留5mm以上的间隙，防止其相互挤压卡边。需预埋排水口，防止底部积水。

Scheme Ⅱ Embedded Foundation Installation

Making four legs of the dancing fountain tiles in the embedded foundation. Using rubber pad to make them in same plane and without wobbling,5 mm gaps between each side of tiles shall be maintained to prevent the tiles squeezing each other. Embedding the water outlet pipe in advance to prevent water accumulating in the bottom.



打地鼠互动模块

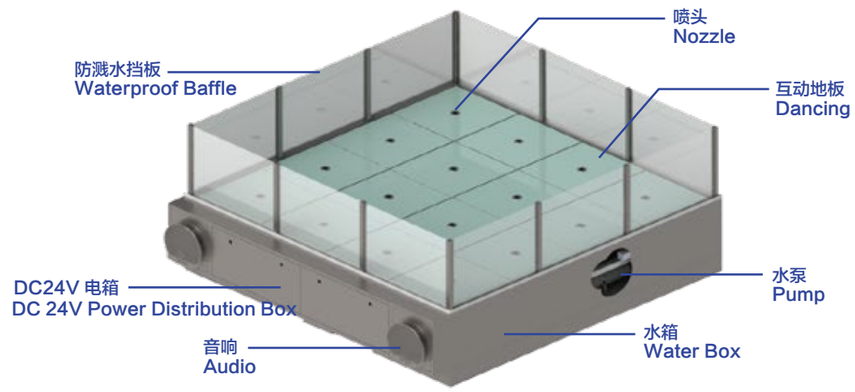
打地鼠互动模块是一款由旱喷地板组合而成的互动产品。游戏启动后，地板的灯光及喷水随机闪现，体验者应及时踩中喷水的地板，踩中后喷水即刻停止。游戏支持多人参与，考验体验者的反应及速度。适用于景区、公园、广场乐园等多种户外场景及室内场景。

Whack-A-Mole Water Interactive Module

Whack-A-Mole Water Interactive Module is an interactive product with a similar experience to the "whack-a-mole" game, which is composed of dancing fountain tiles. After the game starts, the tile's light and water will appear randomly. Players should step on the dancing fountain tiles in time, and the water will stop spray immediately after stepping on the dancing fountain tiles. The game supports multi-player participation, good challenge for players's reaction and speed. It's suitable for scenic spots, parks, squares, parks and other outdoor scenes and indoor scenes.



特点	Features
DC24V安全特低电压供电	DC24V E-Tech Extra Low Voltage Pump
多种颜色方案	Multi Color Schemes
不锈钢304材质	SS304
灯光、水效互动	Light & Fountain Interaction
音效及提示音互动	Music and Prompt Tone
IP43防护等级可户外安装	IP43 Waterproof Grade For Outdoor Installation
支持扫码付费启动	Scan-To-Pay To Start



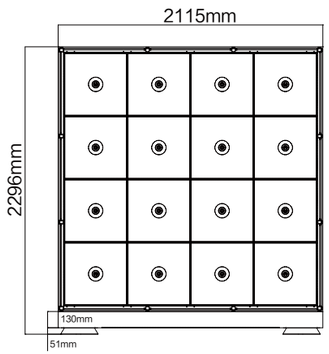
扫二维码观看视频
Scan code to watch video

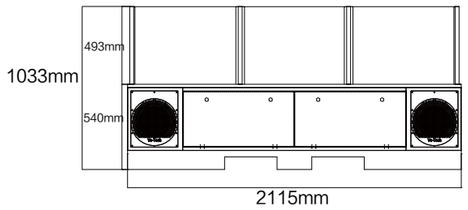
型号	Model	VeDS-3x3	VeDS-4x4
工作环境温度	Working Ambient Temperature	3~40℃	3~40℃
工作环境湿度	Working Ambient Humidity	20~90%无冷凝 20~90% Non-condensing	20~90%无冷凝 20~90% Non-condensing
防水等级	Waterproof Grade	IP43	IP43
外观颜色	Color	红/蓝/白/自定义 Red/Blue/White/User-defined	红/蓝/白/自定义 Red/Blue/White/User-defined
材质	Material	SS304	SS304
互动地板数量	Dancing Fountain Tile Quantity	9	16
音响	Audio	惠威定阻100Wx2 HW Nominal RES	惠威定阻100Wx2 HW Nominal RES
启动方式	Starting Mode	微信扫码付费/按键，可选 Scan-To-Pay/Button	微信扫码付费/按键，可选 Scan-To-Pay/Button
安装场地	Installation Site	可户外安装（室外防雨） Indoor And Outdoor (Rainproof)	可户外安装（室外防雨） Indoor And Outdoor (Rainproof)
安装电源	Installation Power Supply	DC24V±2V-1600W	DC24V±2V-2400W
外形尺寸	Dimension	1800mmx1890mmx480mm	2296mmx2115mmx540mm

备注：互动地板数量可根据实际需求自由组合。
Note: the quantity of dry fountain module can be combined freely according to the actual situation.



电箱型号	Power Distribution Box Model	VeDS-3x3	VeDS-4x4
输入电源	Input Power Supply	220V-0.8kW	220V-1.6kW
输出电源	Output Power Supply	DC24V+3V-1600W	DC24V+3V-2400W
尺寸	Dimension	500x400x200	500x400x200
材质	Material	SS304	SS 304
防护等级	Waterproof Grade	IP43	IP43





踢踏舞地板 Tap Dance Tile



踢踏舞是互动地板的一种新颖的互动功能。人机互动时，脚在地板上不断地踩踏、拍击，发出“踏踏”的声音，玩乐状态就像跳起了“踢踏舞”。与此同时，地板伴随踩踏的节奏闪现绚丽多彩的灯光，踩踏的节奏会同步转换成水泵的控制信号，使喷出的水花与“踢踏”节奏形成同步，给体验者带来声、光、水、舞相结合的多维感受。其适用于文旅度假区、广场、公园等。

Tap dance is a novel interactive function of the dancing fountain tile. When players trample on the floor constantly, They make "tap-tap" sound, similar as playing "tap dance". Meanwhile, the floor flashes colorful lights with the rhythm of trample, and the rhythm signal of trample will be synchronized into the control signal of the pump, The spray of water and the rhythm of "tapping" are in synchronization. These bring players a multi-dimensional feeling of sound, light, water and dance. It is suitable for tourist resorts, squares, parks, etc.

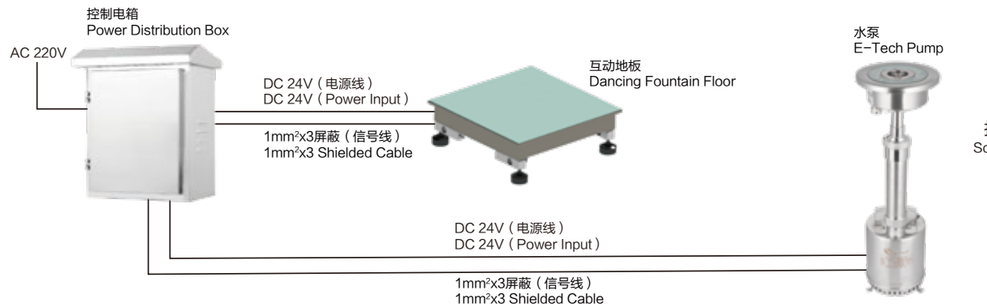
特点 Features

- 易达标准型号互动地板产品 — E-Tech Standard Dancing Fountain Module
- DC24V安全特低电压供电 — DC24V Extra Low Voltage Power
- 不锈钢304材质 — SS304
- 灯光、水效互动 — Light, Water Interaction
- IP67防护等级，可户外安装 — IP67 Waterproof Grade
- 支持扫码付费启动 — Scan-To-Pay To Start

产品安装 Installation

电箱和水泵根据需要选型另配。

Distributor boxes and pumps need to be purchased according to the actual situation.



扫二维码观看视频
Scan code to watch video







动感单车

动感单车是一款将健身自行车和音乐喷泉相结合的互动产品，喷泉及单车灯光可随骑行速度的变化而变化。适用于景区、公园、广场、乐园等多种户外场景及室内场景。

其通过脚踏踩动的快慢来改变磁阻转盘转速，通过高速传感器检测转盘转速来控制自身音乐、灯光的变化。同时输出不同的信号，还可以扩展控制喷泉、灯光等设备。

Fitness Fountain Bicycle

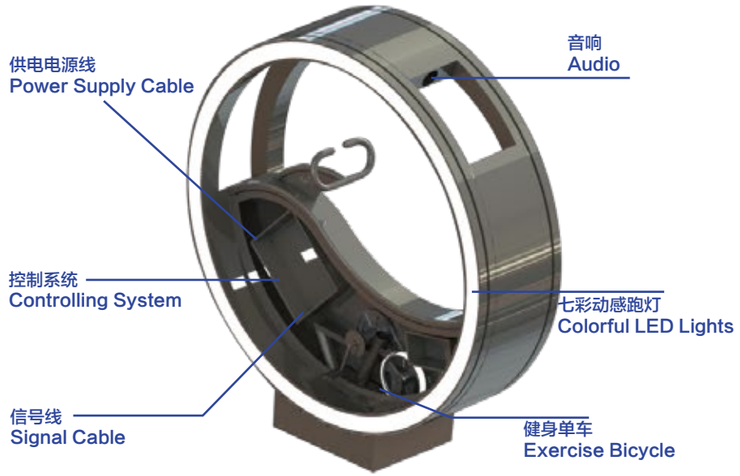
Fitness Fountain Bicycle is an interactive product that combines an exercise bike with a musical fountain. The fountain and the lights of the bike can change as the cycling speed changes. It can be placed on scenic spots, parks, squares, parks and other outdoor scenes and indoor scenes.

A high-speed sensor is used to detect the bicycle rotation speed. It sends variable signals to a reluctance riding pad,lighting and fountain equipments to control their performance.









特点

- 多种颜色方案
- 多种输出信号方案
- 高亮LED跑灯
- 高品质音响
- IP43防护等级，可户外安装
- 支持扫码付费启动

Features

- Multiple Color Schemes
- Multiple Signal Solutions
- Highlight LED Lights
- High Quality Audio
- IP43 Rainproof For Outdoor Installation
- Scan-To-Pay To Start

扫二维码观看视频
Scan code to watch video

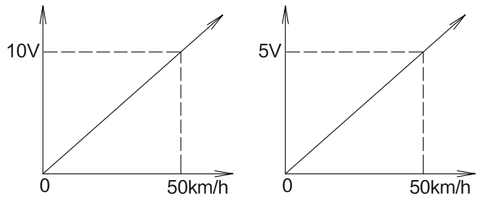
控制原理图方案一　Control Schematic Diagram – Scheme Ⅰ

模拟量输出

通过速度传感器将转速转换成一个模拟量信号，速度的变化直接转换成0–5V或0–10V电压信号，方便与低压水泵、变频器、调光器等设备连接。可以单台单控，也可单台多控。

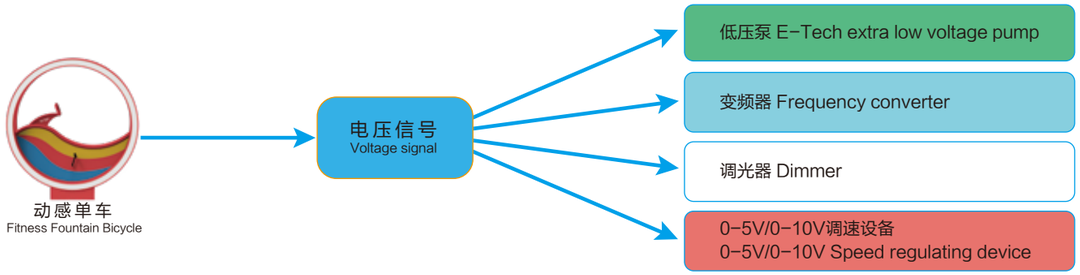
Analog Output

The rotation speed is converted into the analog signal by the speed sensor, the rotate speed signal is directly converted into 0–5V or 0–10V voltage signal, then the input signal is transmitted to low–voltage water pump, frequency converter, dimmer and other equipments. One–to–one control or one–to–many control.



电压与速度线性图

Voltage And Velocity Linear Diagram



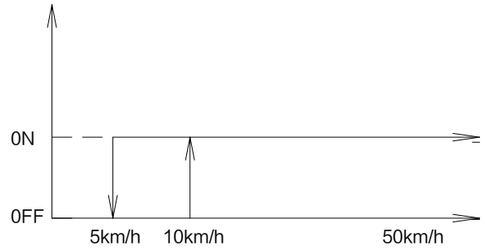
控制原理图方案二　Control Schematic Diagram – Scheme Ⅱ

开关量输出

通过速度传感器将转速转换成一个开关量信号，速度的变化直接控制开关的导通和断开。通过开关的接通/断开，实现低压水泵、水娱乐、灯光等设备开关机。开关量输出特性：无源常开接点，Max 250V 5A。

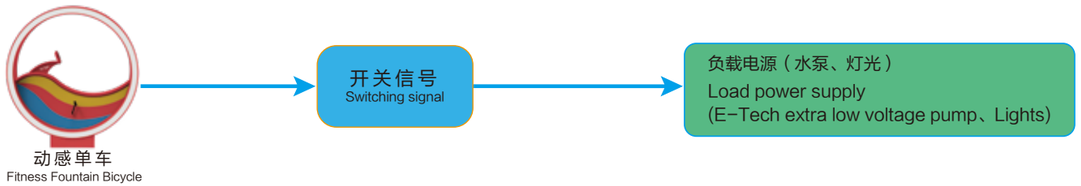
Switching Output

The rotation speed is converted into the analog signal by the speed sensor, and the speed changing controls the switching on/off directly. Then the switch turns E–Tech extra low voltage water pump, water entertainment, lighting and other equipments on/off. Switching output characteristics: passive normally open contact, Max 250V 5A.



开关量与速度特性图

Switching Output And Speed Characteristic Diagram



控制原理图方案三　Control Schematic Diagram – Scheme Ⅲ

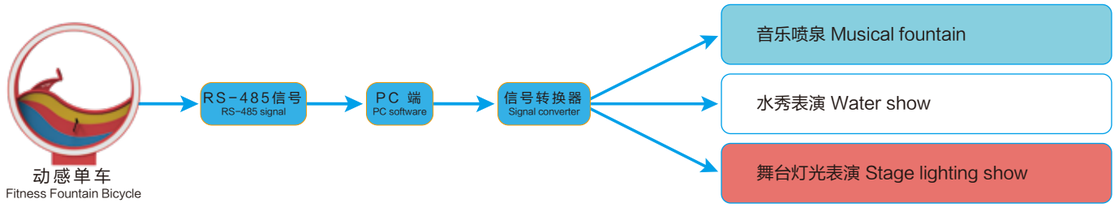
RS–485通讯输出

通过速度传感器将转速转换成标准modbus RTU协议方，便与PC/PLC等各种自动化设备通信。音乐喷泉等上位机软件通过协仪可实现动感单车与喷泉、水秀、灯光等设备进行互动控制。

接口类型：RS–485隔离型，支持03、06、16（0x10）功能码。

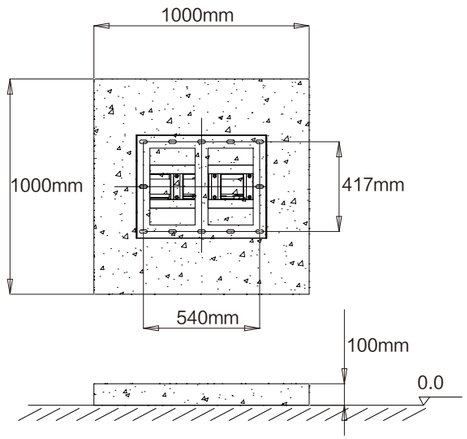
RS–485 PIF Output

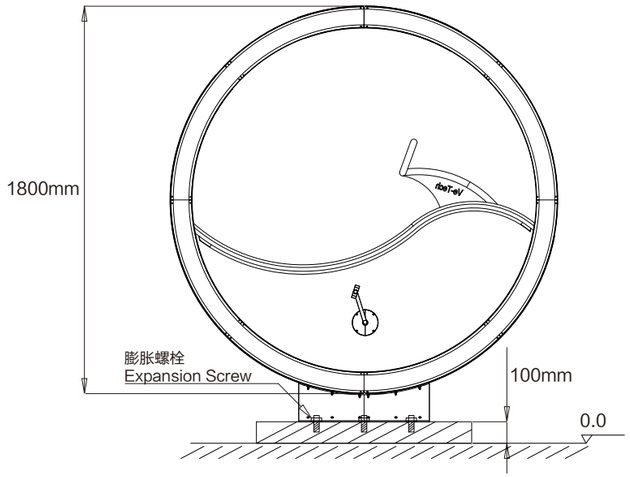
The rotation speed is converted into the standard modbus RTU protocol by the speed sensor, then the input signal is transmitted to PC/PLC and other automation device. The upper computer software can control between fitness fountain bicycle, fountain, water show, lighting and other equipments by the protocol.Interface type: RS–485 isolation type, support 03, 06, 16 (0x10) function code.



型号	Model	VeDC–1800–D
颜色方案	Color Scheme	红/蓝/白/自定义　Red/Blue/White/User–defined
工作环境温度	Working Ambient Temperature	3~40℃
工作环境湿度	Working Ambient Humidity	20~90%RH无冷凝　20~90%RH Non–condensing
防水等级	Waterproof Grade	IP43
外观	Surface	拉丝 Wire Drawing Process
材质	Material	不锈钢304/201/冷扎板 SS304/201 Cold–rolled sheet
启动方式	Starting Mode	微信扫码付费/按键/骑行，可选 Optional: Scan–To–Pay/Button/Riding
输出信号	Output Signal	开关量/电压/Modbus, 可选 Optional: Switching /Voltage /Modbus
音效	Music	MP3歌曲，6首 6 Songs
灯光功率	Light Power	380W
安装场地	Installation Site	可户外安装（室外防雨）Outdoor and Indoor (Outdoor Rainproof)
安装电源	Installation Power Supply	AC220V–500W
净重	Net Weight	140kg
外形尺寸	Dimension	⌀1800mmx500mm

设备的安装要求
Installation requirements





自选项：互动水池

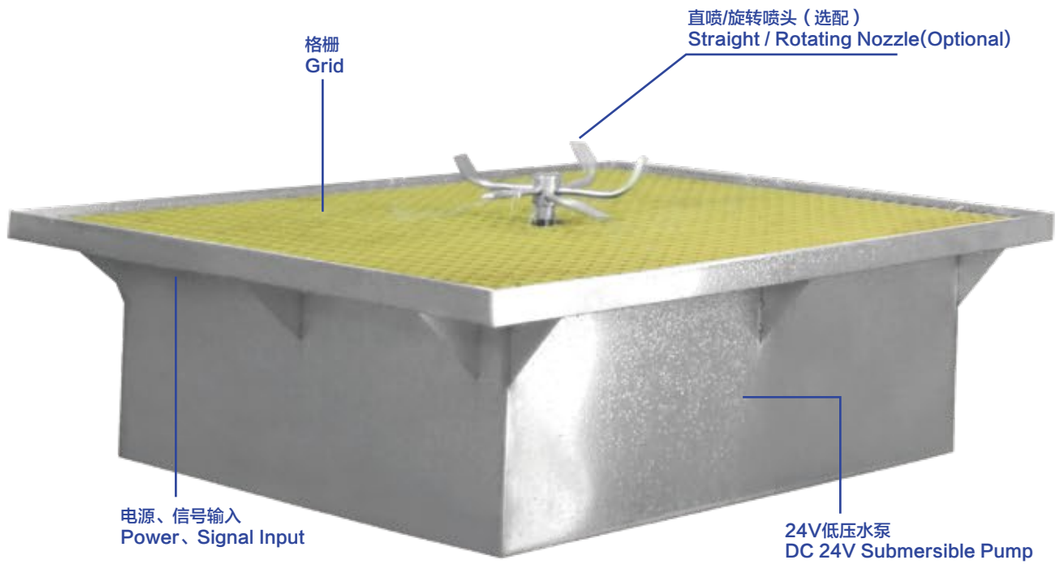
动感单车不与其它水景设备互动时，可以选配水池设备（内含水泵、灯光、喷头），进行一对一的独立水景互动。

Optional: Interactive Tank

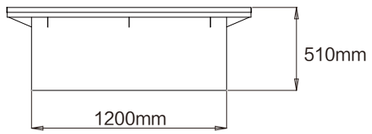
When there is no other water equipments or water features to interact with fitness fountain bicycle, you can purchase the interactive tank (including water pump, light and nozzle) separately to realize independent interaction.

工作环境温度	Working Ambient Temperature	3~40℃
防水等级	Waterproof Grade	IP68
水池材质	Material	SS304
池面格栅材质	Surface Grid Material	玻璃钢　Glass fiber reinforced plastics
额定电压	Nominal Voltage	DC24V
水泵型号	E-Tech Pump Model	MSP200
水泵材质	Pump Material	SS304
水泵额定功率	Pump Nominal Power	DC-24V-150W
喷泉灯材质	Fountain Light Material	SS304
喷泉灯	Fountain Light	DC24V-18W选装 24V-18W Optional
喷头材质	Nozzle Material	SS304
喷头接头	Nozzle Joint	DN25
喷头形式	Nozzle Type	旋转花篮或直喷 可选　Optional: Rotating flower basket and Direct spray
安装场地	Installation Site	可户外安装 Indoor And Outdoor (Rainproof)
安装电源	Installation Power Supply	DC24V-200W
外形尺寸	Dimension	1500mmx1500mmx500mm

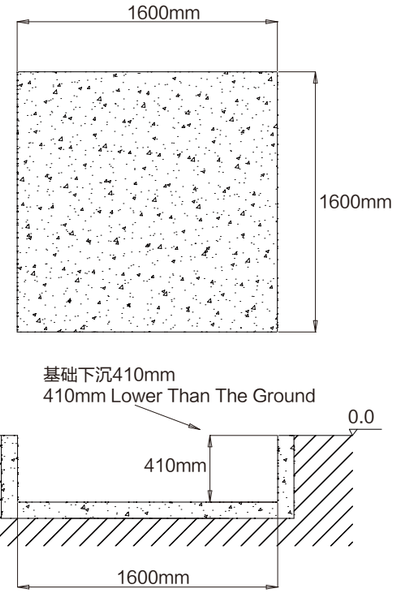
水池 Tank







水池尺寸图
Tank Dimension



水池基础图
Tank Construction Diagram