D-Controls®

MinBox & Remote

小盒子 & 遥控器

Design Concept

 Our living conditions are continually improving with more and more home appliances and facilities. The IoT techniques have changed the traditional home appliances to modern ones so that the various remote controllers are replaced with Apps. However, the current Apps are only working on separate appliances and the interactive process is sometimes annoying, especially for the aged people who are not familiar with smart phones and can't recognize the right App among similar-looking icons. What we need is an intelligent, easy and cool system. And that is the first version of D-Controls system, comprising of the Remote, the Minbox and the App.

我们的住宅越来越大，家庭电器和设备越来越多，物联网技术的出现，赋予了传统家电设备更为先进的性能和功能，例如我们可以丢弃家中各种各样的遥控器，通过app就可以远程监控和管理整个家，也不用再担心离家后门窗有没有关闭。但是在丢弃家中所有遥控器的同时，我们发现取代它们的是一个又一个不同厂家提供的app，其实在家中使用app真的也是一种非常烦人的交互，尤其对年长者甚为不便。你得拿起手机，解锁它，在一堆相似的ICON中找到对应的app，打开app，然后在app中找到你要控制的设备......

我们需要重新设计一个智能的、易用的、而且必须很酷的交互方式，于是第一版D-Controls Remote（遥控器）出现了，与它配套的还有一个超小主机Minbox和一款超级app（D-Controls Smarthome App）。

Too many remotes

Too many Apps

Remote & MinBox & App

The brain of the system is Minbox. It is the host connecting all home appliances and facilities. The Remote is the remote controller working in intranet. It can control all items connected in the system. The App enables users to control and monitor the whole system remotely on their phones.
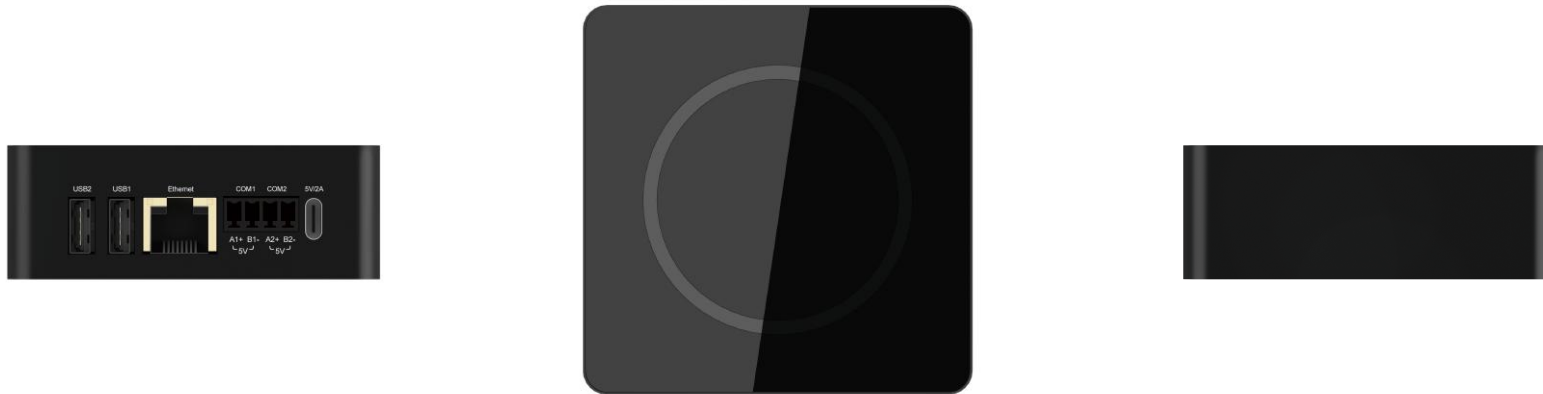
D-Controls的这套系统由三部分组成：Minbox(大脑)、Remote（遥控器）和app(移动软件)。Minbox是智能系统的中枢大脑，它用于对接不同的设备和系统；Remote（遥控器）用于在局域网内控制整套智能系统；app（移动软件）安装在智能手机中，用于远程控制和监控整套智能系统。

New design MinBox

With the size at 80x80x28mm, Minbox is as cute as a piece of Toufu. The finish is CNC cut Aluminum treated with anodic oxidation technique. The top is covered with film coated tempered glass. The status of the machine is shown by the different color of the imbedded LED lights. It can be placed wherever at home.

Minbox小巧玲珑，体积只有80*80*28mm。Minbox全身采用全铝CNC切割和阳极氧化技术，顶部采用镀膜钢化玻璃，并采用了RGB-LED矩阵，通过LED的颜色变化实时反馈Minbox的运行状态。它可以安放在家中的任何一个位置。

The brain of home

Minbox can be connected via WiFi, Infrared and Bluetooth. It has 5 interfaces for USB (x2), COM(x2) and Ethernet (x1) and supports such communication protocols as Modbus, RS485/RS232, KNX, SCS, TCP/IP, TCP/UDP, XML, and HTTP, etc.
Working as the brain of home, Minbox can deliver orders, process data, operate timed tasks, logic tasks as well as automatic tasks. It is also the gateway to D-Controls Cloud, with which, Minbox becomes more intelligent so to handle energy-saving calculation, habit analysis, remote message reporting and noticing etc.

Minbox支持WiFi、Infrared、Bluetooth等无线通讯，并自带2路USB，2路COM和1路Ethernet接口，支持Modbus、RS485/RS232、KNX、SCS、TCP/IP、TCP／UDP、XML、HTTP等多种总线通讯协议。

Minbox是家庭的"大脑"，命令发送、数据处理、定时任务、逻辑任务、自动化任务都由它来处理和执行。同时它也是对接D-Controls Cloud的网关，在Cloud的支持下，Minbox将变得更加智能，例如它可以实现节能计算、习惯分析、信息远程报警及远程通知等功能。
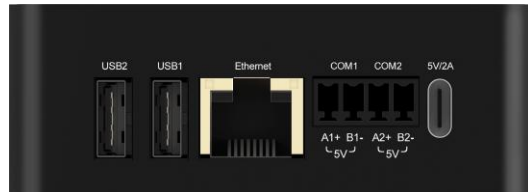
Continuous databank update

Currently Minbox can work on 1000 appliances, such as main stream Audio and Video devices as well as various wireless home appliances (incl. smart speakers). Thanks to the regular remote update, Minbox is always prepared to be connected with the latest smart devices.

目前Minbox的数据库已经支持超过近1000种设备的对接，不仅可以支持绝大部分的影视听设备，也支持多种无线的智能单品（包括语音音箱等）。
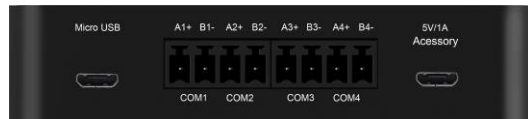定期的远程更新，将保证Minbox一直可以和市面上最新的智能设备做对接。

支持天猫精灵、Rokid音箱、小白机器人、科大讯飞魔飞、小度音箱……

KNX　　sOmfy.　　netatmo　　nest　　SONY　　BenQ　　PHILIPS

Pioneer　　SAMSUNG　　SONOS　　Panasonic.　　DIRECTV　　LIFX　　xfinity

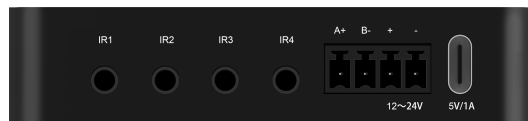ONKYO　　hue PERSONAL WIRELESS LIGHTING　　firetv　　BOSE　　YAMAHA　　LG　　Roku　　DENON

Minbox

USB转4路RS485模块

USB转4路RS232模块

RS485转4路全频段红模块

Minbox's friends

Minibox虽然个头小，但是拥有一个64位1.5GHz处理能力的A53大脑，可以轻松应对多数据并发、多线程任务处理。

2路USB和2路RS485串口，让它可以成为总线系统的大脑，例如：私人影院智能化、公寓智能化、酒店客房智能化、私人会所智能化、办公智能化......

Minibox还自带Wi-Fi和Bluetooth，因此它还能在无线智能化的改造项目中大显身手，例如私人影院的智能化改造、办公室的智能化改造、公寓的智能化改造......

Minbox最酷的还在它有很多专属的可扩展性配件，USB转单路RS232模块，USB转单路RS485模块，USB转4路RS232模块，USB转4路RS485模块，USB转4路红外模块（38KHz），RS485转4路红外模块（全频段），RS485转KNX模块......在这些扩展配件的支持下，　Minbox完全可以成为一台多串口的超级主机。

如果您的客户只需要将家中的中央空调进行智能化改造，那么Minbox加空调控制模块就可以实现；如果您的客户想将书房改造成一间专业的私人影院，Minbox也是第一优选方案；如果您的客户想把整套私人会所用KNX总线进行智能化装修，Minbox也能完美胜任......

· USB-1xRS232
· USB-1xRS485
· USB-4xIR
· USB-4xRS232
· USB-4xRS485
· RS485-4xIR
· RS485-KNX
· ......

Brand-new remote controller

The D-Controls Remote is connected with Minbox via WiFi. The users can control the appliances and devices with the Remote no matter where they stand at home. The metal bottoms on the Remote can be defined by the users' habits or preferences. A custom-made home, only for you.

D-Controls最新推出的Remote遥控器采用了WiFi无线技术，可在家中的任意地方实现与Minbox的实时无线通讯，从而实现对智能系统的控制。从灯光控制到视频矩阵切换，从空调影音到场景模式控制，真正做到随心遥控！

Excellent quality

The Remote, although made by metal, is quite slim and light. It makes a life so enjoyable while using it to control your smart home.
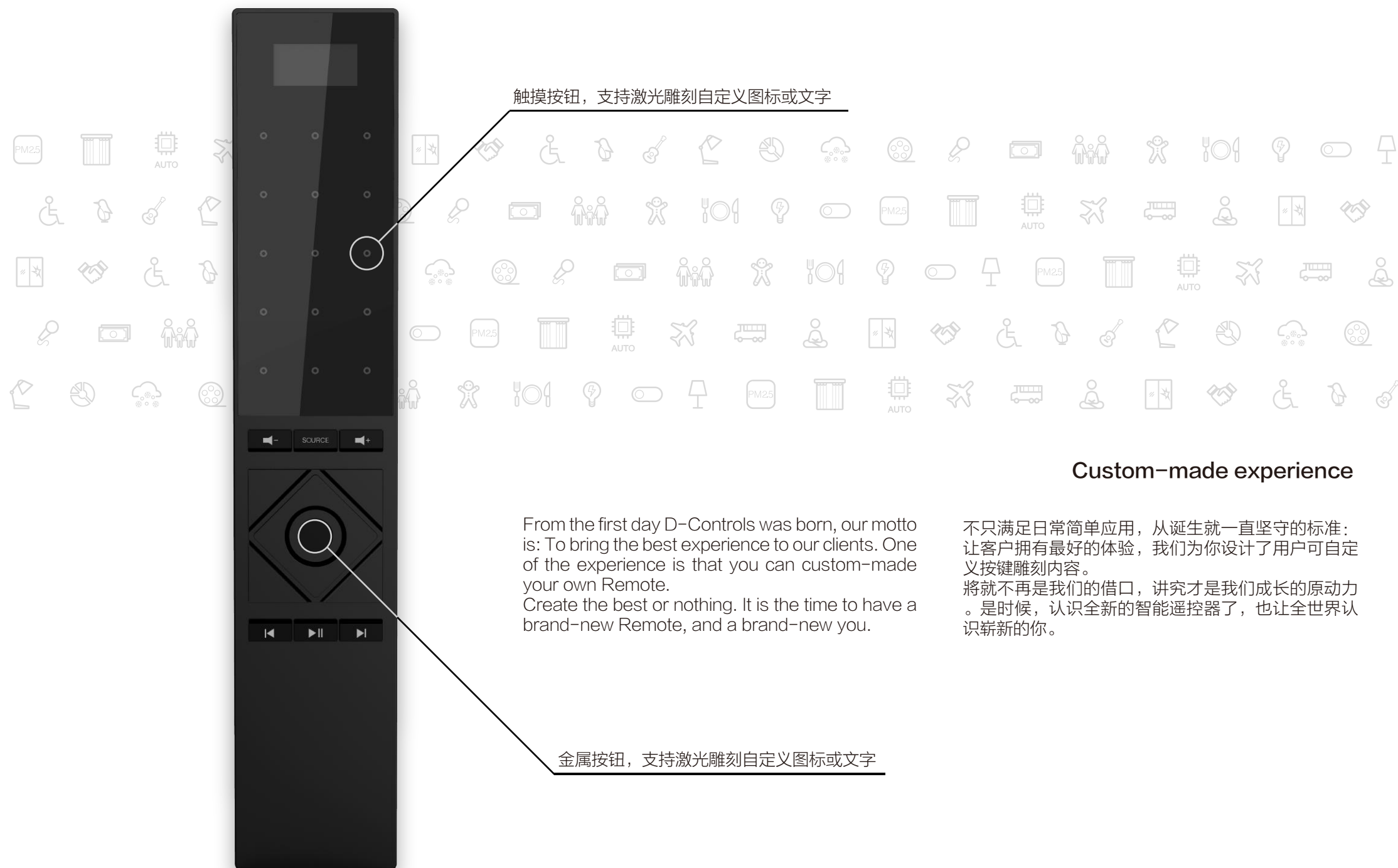
金属的质地，纤细的机身，轻盈的手感与智能科技的结合是我们追求的卓越品质。用心的设计，从心的科技，焕新的体验！
D-Controls全新设计的遥控器，一定您爱不释手。轻轻按键，享受真正自在生活！

We need ONE remote!

The Remote enables free shift among different scenarios with a single bottom. It is as user-friendly as a traditional remote controller, but much smarter and stronger. Each bottom can be defined as you wish. With one Remote, the user can control the entire home cinema system, lighting system, and even the complete smart home system. In addition to the functions, the outlook can be custom-made too. There are no two identical Remotes available.

它和普通遥控器一样，适合所有年纪的人使用；
它和App一样，每一个按钮都可以实现自定义的功能；
它可以遥控整套私人影院系统，它可以遥控整套灯控系统，它可以遥控整个家；
它的功能和外观都极具个性，你甚至找不到两只完全一模一样的遥控器。

触摸按钮，支持激光雕刻自定义图标或文字

Custom-made experience

From the first day D-Controls was born, our motto is: To bring the best experience to our clients. One of the experience is that you can custom-made your own Remote.
Create the best or nothing. It is the time to have a brand-new Remote, and a brand-new you.

不只满足日常简单应用，从诞生就一直坚守的标准：让客户拥有最好的体验，我们为你设计了用户可自定义按键雕刻内容。
将就不再是我们的借口，讲究才是我们成长的原动力。是时候，认识全新的智能遥控器了，也让全世界认识崭新的你。

金属按钮，支持激光雕刻自定义图标或文字

通过D-Controls Smarthome App即可设计自己想要的遥控器，个性化定制将会产生费用

Magic button "SOURCE"!

We designed a "SOURCE" button on the remote control.
You can name it "switching room" or "switching sound source"...
With the switch of this button, the corresponding text will be displayed on the display.
At the same time, other buttons on the remote control will change their functions.
In the most extreme case, the remote controller can control 240 devices individually.

我们在遥控器上设计了一颗"SOURCE"按钮，
您可以将它命名为"切换房间"，也可以将它命名为"切换音源"......
随着这个按钮的切换，显示器上会显示对应的文字，
同时，遥控器上其它的按钮也会跟着改变功能。
在最极端的情况下，遥控器可以单独控制240个设备的开关。

Magic **SOURCE** button

拉丝银　　　　　深空灰　　　　　瑞士金　　　　　耀岩黑

Minbox

Technical Specifications

Size and weight
Height: 80mm
Width: 80mm
Depth: 28mm
Weight: 200g

System
Cortex-A53 1.5GHz, 64-bit Quad-Core
8GB eMMC
1GB RAM
Fan-less, low power design

System requirements
Gbps Ethernet, RTL8211E-VB-CG chip
WiFi: 802.11b/g/n
Bluetooth: 4.0 dual mode
Min. iOS 8 or Android 4+ for the D-Controls
Smarthome App

Ports and interfaces
WiFi: 802.11b/g/n
Bluetooth: 4.0 dual mode
10/100/1000BASE-T Ethernet
2 x RS485, 2 x USB

Compatibility
Voice, Rokid®, Tianmao®, Sonos® and
Philips® Hue support
Supports cable boxes, satellite systems,
amplifier, TV...
Supports RS485/RS232、KNX、SCS、
TCP/IP、TCP／UDP、XML、HTTP Smarth-
ome system...
over 1,000 supported devices, see more

Power
5V/2A charger

Environmental requirements
Operating temperature: 5° to 35° C
Storage temperature: -20° to 45° C
Avoid direct sunlight

Remote

Technical Specifications

Size & weight
Height: 230mm
Width: 44mm
Depth: 9.0mm
Weight: 160g

System requirements
WiFi: 802.11b/g/n
Bluetooth: 4.0 dual mode
Min. iOS 8 or Android 4+ for the D-Controls
Smarthome App
Minbox or Mixbox or IC3 Series KNX

Display
Ultra-thin bezel display
0.96 inches (diagonal) LED-backlit with IPS
technology
128-by-64-pixel resolution
Ultra low power consumption
Unique D-Controls multilayer design for thin
bezels

Ports & interfaces
Wi-Fi：802.11b/g/n

Bluetooth： 4.0 dualode
Touch Sensors

Compatibility
Voice, Rokid®, Tianmao®, Sonos® and
Philips® Hue support
Supports cable boxes, satellite systems,
amplifier, TV...
Supports RS485/RS232、KNX、SCS、
TCP/IP、TCP／UDP、XML、HTTP Smarth-
ome system...
over 1,000 supported devices, see more

Power
1600mAH Li-Ion battery
External 5V/1A charger
Charging via Type-C Docking Station (not
included)

Environmental requirements
Operating temperature: 5° to 35° C
Storage temperature: -20° to 45° C
Avoid direct sunlight