HDL®

CE RoHS

HDL-MIR01L.01   Infrared Code Learner
新红外学习器

buspro

Datasheet
产品说明书

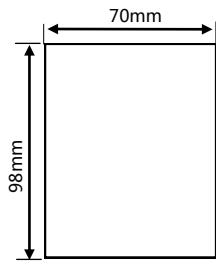Issued: December 7, 2018
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Figure 1. Infrared Code Learner
图1. 新红外学习器

70mm
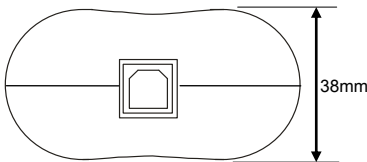
98mm

Figure 2. Dimensions - Front View
图2. 尺寸图 - 正面

38mm

Figure 3. Dimensions - Side View
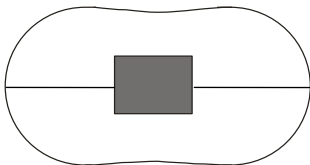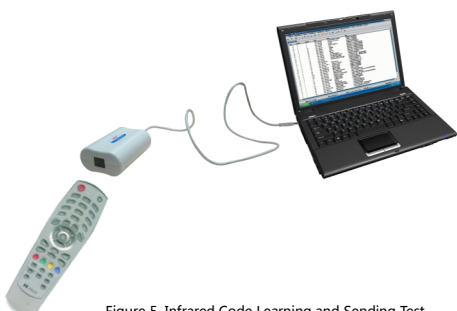图3. 尺寸图 - 侧面

Figure 4. Side View
图4. 侧面图

Figure 5. Infrared Code Learning and Sending Test
图5. 红外码学习发射测试

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Overview

Infrared Code Learner (See Figure 1) can learn various key commands (for example, AC, TV, DVD, satellite receiver, audio & video device, etc.). Testing mode is supported while no extra driver is needed.

Functions

- ■ USB Interface, driver free and easy to use
- ■ Infrared code learning
- ■ Infrared code sending test
- ■ Learning status indicator

Important Notes

- ■ Connect to PC with USB interface
- ■ During learning process, make sure the remote control has pointed to the IR learner, and the distance is about 3 cm
- ■ Supported OS: Windows XP, Windows 7, and Windows 8

Product Information

Dimensions - See Figure 2 - 3

Side view - See Figure 4

Infrared Code Learning and Sending Test - See Figure 5

After connecting with PC with special-designed USB cable, the red indicator will turn on. Then the IR learner can be recognized by the "HDL Buspro Setup Tool", click the IR Code Learner icon in the menu to enter learning page, in which the IR code learner can learn, test and save. Remote control function will be enabled after the codes are downloaded to Infrared transmitters.

As shown in Figure 5, remote control should point to the receive window of learner. Click "Learn IR Code" button in HDL Buspro Setup Tool, the blue indicator will turn on. Press remote control button, the learning process is completed as the blue indicator turns off. Click "Show the Learnt IR Codes" to see if the learner has learnt IR codes. Then the user can test the remote control to see if the target can be controlled, in order to make sure the learning process succeeds.

Safety Precautions ⚠ WARNING

- ■ The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- ■ HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- ■ Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- ■ Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

Package Contents

HDL-MIR01L.01*1 / Datasheet*1 / USB cable*1

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产品概述

新红外学习器（见图1)能够学习大部分常用遥控器的按键命令码（如空调、电视、DVD、卫星接收机、音响系统等），具有发射测试模式，无需驱动。

功能说明

- ■ USB接口，无需驱动，即插即用
- ■ 红外码学习
- ■ 红外码发射测试
- ■ 学码时指示灯显示

注意事项

- ■ 与电脑USB接口连接
- ■ 红外码学习时，遥控器发射端与红外学习器发射端要平行正对，距离约3cm
- ■ 支持windows XP和Win7，Win8系统

产品信息

产品尺寸 - 见图2 - 3

侧面图 - 见图4

红外码学习发射测试 - 见图5

新红外学习器有专用的USB接口线，连接好后，将接口线的另一端插入电脑的USB接口，此时红色指示灯亮，之后可被"HDL Buspro系统软件"自动识别，在图标栏找到红外学习器图标，点击图标，进入红外学习器的界面后就可以学码，试码及保存，下载到红外发射等设备之后就可以实现遥控的功能。

将遥控器正对着学习器的接收窗口，在HDL Buspro软件里按下"进入学码状态"，此时蓝色指示灯亮，按下遥控器按键后，蓝色指示灯灭，即说明学码完成。点击显示已学码，确认有码学入。此时可以进行学码发射测试，是否能够控制被控设备，以确认是否学码成功。

安全警告 ⚠ WARNING

- ■ 本设备的安装及调试工作必须由我司或我司指派的机构进行。其电气安装的计划和施工，必须遵守当地相关的安全标准和法规。
- ■ 未按照本说明书进行安装及接线方式的，所造成的一切后果皆与我司无关。
- ■ 请不要私自拆装或更换零部件，否则可能会导致机械故障、电击、火灾或身体伤害。
- ■ 请将一切维修工作交由我司售后部门或指定机构进行，本产品的保修范围不适用于因用户拆卸产品而导致的故障。

装箱清单

HDL-MIR01L.01*1 / 说明书*1 / USB连接线*1

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Technical Data | ## 技术参数

Communication Parameters | 通信参数

Range of carrier wave frequency	38kHz±20%	学习载波范围	38kHz±20%
USB	2.0, driver free	USB	2.0, 无需驱动

External Environment | 外部环境

Working temperature	-5℃~45℃	工作温度	-5℃~45℃
Working relative humidity	≤90%	工作相对湿度	≤90%
Storage temperature	-20℃~60℃	储存温度	-20℃~60℃
Storage relative humidity	≤93%	储存相对湿度	≤93%

Specifications | 产品规格

Dimensions	98mm×70mm×38mm	尺寸	98mm×70mm×38mm
Net weight	180g	净重	180g
Housing material	ABS	外壳材料	ABS
Connection interface	USB 2.0 interface	连接端口	USB 2.0接口
Protection rating (Compliant with EN 60529)	IP20	防护级别 (符合 EN 60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers （PBDE）
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	×	-	-
Solder	×	o	o	o	-	-
PCB	×	o	o	o	o	o
IC	o	o	o	o	×	×

The symbol "-" indicates that the hazardous substance is not contained.
The symbol "o" indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.
The symbol "×" indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 （Pb）	汞 （Hg）	镉 （Cd）	六价铬 （Cr（VI））	多溴联苯 （PBB）	多溴二苯醚 （PBDE）
塑胶组件	o	o	o	o	o	o
五金铜件	o	o	o	o	-	-
螺丝组件	o	o	o	×	-	-
焊锡	×	o	o	o	-	-
PCB组件	×	o	o	o	o	o
IC	o	o	o	o	×	×

- ：表示不含有该有害物质。
o ：表示该有害物质在该部件所有均质材料中的含量均在IEC62321-2015规定的限量要求以下。
× ：表示该有害物质至少在该部件的某一均质材料中的含量超出IEC62321-2015规定的限量要求。

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