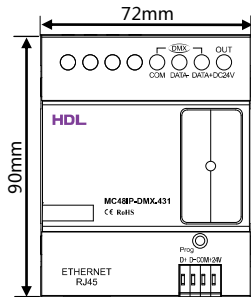
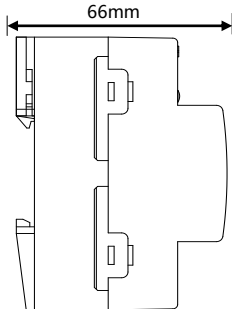
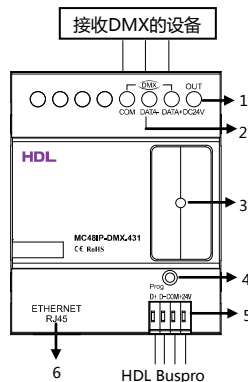


Figure 1. 48CH DMX Scene Controller
图 1. 48路表演控制器Figure 2. Dimensions - Front View
图 2. 尺寸图 - 正面Figure 3. Dimensions - Side View
图 3. 尺寸图 - 侧面Figure 4. Wiring
图 4. 接线图

Overview

48CH DMX Scene Controller (See Figure 1) supports DMX512, Art Net, and HDL Net protocol. With 48 areas and 99 scenes in each area, the controller is designed to control RGB LED strips, RGB lights, and other DMX devices using 48 channels.

Functions

- 48-channel, up to 48 separate areas
- 0-99 scenes, running time up to 60 minutes for each, can be set for each area
- Up to 99 sequences supported, 4 running modes (backward, forward & backward, random) available for each sequence
- DMX512 (1990 version)
- Art net / HDL Net DMX protocol supported
- Low threshold, high threshold, maximum threshold available for each channel for different devices
- Gateway between HDL-Buspro and Ethernet

Important Notes

- Buspro cable - CAT5E/HDL Buspro/KNX dedicated cable.
- Buspro connection - Series connection (hand-in-hand recommended).
- DMX cable - Shielded twisted cable, less than 200 meters.
- DMX load - Less than 32 devices recommended.

Product Information

Dimensions - See Figure 2 - 3

Wiring - See Figure 4

- 24V DC output, supply 24V DC voltage from Buspro.
 - DMX signal output, 1990 version
 - Data indicator
 - Programming button and Indicator: The indicator flashes in green when the module is working properly.
Keep pressing the button for 10S, it turns to red, the module will be restored default factory setting.
- Default setting parameters:
- IP: 192.168.10.250
ROUTER IP: 192.168.10.1
Port: 6000
- HDL Buspro interface
 - RJ45 interface: UDP/IP interface

Network Parameter Setting:

- 48CH DMX Scene Controller default IP: 192.168.10.250, port 6000. Please modify the IP address of user PC into the same IP segment in the following steps:
 - Modify the IP address of user PC into 192.168.10.** (** may be any value).
 - Search the device in HDL Buspro Setup Tool and modify the IP address into the same IP segment of user PC, then press "save". (Subnet mask, router IP and MAC can be modified in this step)
 - Change the user PC IP to the original one.
 - Turn off the device and the new IP address will be available after restart.

Installation - See Figure 5 - 7

- Fix the DIN rail with screws.
- Buckle the bottom cap of the controller on the edge of the DIN rail.
- Press the device on the DIN rail, slide it and fix it up until an appropriate position is adjusted.

Safety Precautions

- 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.
- The device should be installed with Din rail in DB box. 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-MC48IP-DMX.431*1 / Buspro connector*1 / Label*5 / Datasheet*1

产品概述

48路DMX表演控制器(见图1), 支持DMX 512、ART网和HDL网络协议。它是用来控制RGB LED灯带、RGB灯和其他DMX设备, 使用48通道, 有48个区域和每个区域有99个场景。

功能说明

- 48个回路控制, 最多48个独立区域
- 每个区域可设置0 - 99个场景, 场景运行时间最长60分钟
- 共99个序列, 每个序列具有正向、反向往返、随机运行模式
- DMX512 (1990版本)
- 支持Artnet / HDL Net DMX 协议
- 每个回路具有灯具上限、下限、最大限幅
- 交换机功能: HDL Buspro与以太网数据交换

注意事项

- 总线 - CAT5E或者HDL Bus/KNX 专用电缆
- 总线连接 - 推荐使用手拉手的连接方式
- DMX总线 - 带屏蔽双绞线, 推荐200米长度以内
- DMX负载 - 推荐少于32个设备

产品信息

产品尺寸- 见图 2 - 3

产品接线 - 见图 4

- 24V DC输出端
- 输出DMX信号, 1990 版本
- 数据指示灯
- 编程按键&指示灯: 正常工作时绿灯闪烁。按住10秒红色指示灯亮, 模块复位
复位后出厂网络参数为:
IP: 192.168.10.250
路由IP: 192.168.10.1
端口: 6000
- HDL Buspro接线端子
- RJ45接口: UDP/IP 接口

网络参数设置:

- 48路表演控制器的出厂IP为192.168.10.250, 端口为6000。如果该IP与用户PC服务器的IP段不相同, 则搜索不到设备, 需要更改PC的IP地址为10段。
- 修改步骤:
- 修改PC服务器的IP段为192.168.10.** (**为任意值)。
 - 打开“HDL Buspro系统控制软件”, 找到该设备, 输入与用户PC服务器的IP段, 点击“储存”后退出。
 - 修改回PC服务器的原来的IP。
 - 48路表演控制器断电重新上电后IP地址生效。

设备的安装 - 见图 5-7

- 步骤1. 用螺丝固定丁导轨。
- 步骤2. 将48路表演控制器底盖的一端扣到导轨的边上。
- 步骤3. 将整个模块压到导轨上, 并滑动模块直至调整到合适的位置则固定下来。

安全警告

- 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。
- 该产品需以丁导轨安装方式, 安装在电箱里, 未按照本说明书记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-MC48IP-DMX.431*1 / 总线端子*1 / 标签纸*5 / 说明书*1



Figure 5 / 图 5



Figure 6 / 图 6



Figure 7 / 图 7

Figure 5 – 7. Installation
图 5 – 7. 安装图

技术支持
服务热线：020-85820195
(工作时间：9:00-12:00, 13:00-18:00, 星期一至星期五)
邮箱：kfb@hdlchina.com.cn
网址：http://www.hdlchina.com

Technical support
E-mail: support@hdlchina.com.cn
Website: https://www.hdlautomation.com

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EN

Technical Data

Electrical Parameters

Working voltage	12~30V DC
Working current	40mA/24V DC
Communication	HDL Buspro
RJ45 connection	RJ45-TCP/IP network interface

External Environment

Working temperature	-5°C~45°C
Working relative humidity	≤90%
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%

Specifications

Dimensions	72mm×90mm×66mm
Net weight	142g
Housing material	Nylon, PC
Installation	35mm DIN rail installation (See Figure 5 - 7)
Protection rating (Compliant with 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	x	-	-
Solder	x	o	o	o	-	-
PCB	x	o	o	o	o	o
IC	o	o	o	o	x	x

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 "x" 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.

HDL Buspro Cable Guide

HDL Buspro	HDL Bus/KNX	CAT5/CAT5E
DATA+	Yellow	Blue/Green
DATA-	White	Blue White/Green White
COM	Black	Brown White/Orange White
24V DC	Red	Brown/Orange

ZH

技术参数

电气参数

工作电压	12~30V DC
工作电流	40mA/24V DC
通信协议	HDL Buspro
RJ45连接	RJ45-TCP/IP网络接口

外部环境

工作温度	-5°C~45°C
工作相对湿度	≤90%
储存温度	-20°C~60°C
储存相对湿度	≤93%

产品规格

尺寸	72mm×90mm×66mm
净重	142g
外壳材料	尼龙, PC
安装方式	35mm 丁导轨安装 (见图5-7)
防护级别 (符合 EN 60529)	IP20

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	x	-	-
焊锡	x	o	o	o	-	-
PCB组件	x	o	o	o	o	o
IC	o	o	o	o	x	x

- : 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。

x : 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。

总线定义

HDL Buspro	HDL Bus/KNX	CAT5/CAT5E
DATA+	黄	蓝/绿
DATA-	白	蓝白/绿白
COM	黑	棕白/橙白
24V DC	红	棕/橙