

## Parameters

Electrical Parameters:	
Working voltage	DC12~30V
Buspro power consumption	40mA/DC24V
Signal interface	HDL Buspro, RJ45
RJ45 connection	RJ45-UDP/IP network interface
Environmental Conditions:	
Working temperature	-5°C~45°C
Working relative humidity	Up to 90%
Storage temperature	-20°C~+60°C
Storage relative humidity	Up to 93%
Approved	
CE	
RoHS	
Product Information:	
Dimensions	72×90×66 (mm)
Net weight	141.5g
Housing material	Nylon, PC
Installation	35mm DIN rail installation
Installation Position	Distribution box (DB )
Protection rating	IP20

## HDL Buspro Cable Guide

CAT5/CAT5E	HDL Buspro	HDL Buspro/KNX
Brown/ Orange	DC24V	Red
Brown white/ Orange white	COM	Black
Blue white/ Green white	DATA-	White
Blue/ Green	DATA+	Yellow

## Important Notes

- Buspro cable – CAT5E or HDL Buspro/KNX cable
- Buspro Connection – Series connection (hand-in-hand)
- DMX Cable – Shielded twisted cable, less than 200 meters
- DMX device - less than 32 DMX devices

## Overview



**HDL-MC48IP-DMX.431** 48-channel DMX show controller with DMX1990 protocol. It is designed to control the RGB LED Strips, RGB Lights and other DMX devices.

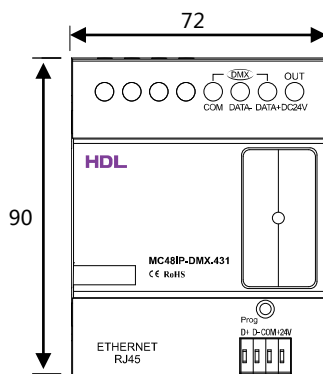
## Functions

- 48-channel , maximum 48 separate areas
- 0-99 scenes can be set in each area, each scene has up to 60 minutes of running time
- Total 99 sequences , 4 running modes are available for each sequence: forward, backward, forward & backward, random
- DMX512 ( 1990 version )
- Supports Art net / HDL Net DMX protocol
- Low Threshold, High Threshold, Maximum Threshold are all available for each channel for different devices
- Each channel has Light protection delay time (0-25 seconds)
- Each channel has protection delay time for power On after power Off (0-60 minutes)
- Gateway between HDL Buspro and Ethernet

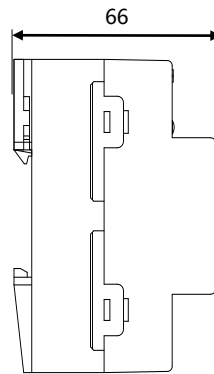
## Installation Steps

- 35mm DIN rail installation, inside DB Box.
- Connect HDL Buspro cable, RJ45 cable.
- Check the connection, avoid any mistakes.

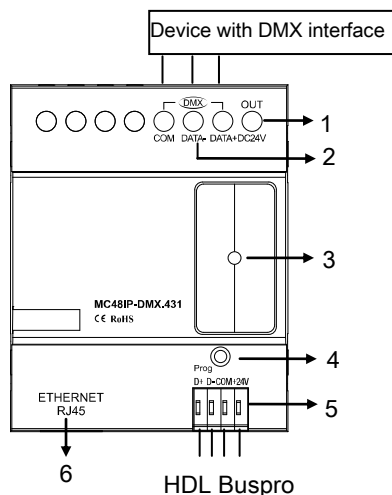
## Dimensions and Wiring



Front View



Side view



1. DC24V output, supply DC24V voltage from Buspro.
2. DMX signal output, 1990 version
3. Data indicator
4. Button and Indicator: Flickers in green when the module is working properly.

Keep pressing for 10S, it turns to red, the module will be restored into default setting from factory.

Default setting parameters:

IP: 192.168.10.250

ROUTER IP: 192.168.10.1

Port: 6000

5. HDL Buspro interface
6. RJ45 connection: UDP/IP interface

### Setting of Network Parameters:

48-channel scenes/show controller has a default IP-192.168.10.250, the port is 6000. Please change the user PC IP into a same IP segment.

Steps for change IP address:

- a. Modify the IP address of the User PC into 192.168.10.\*\*(\*\* means any).
- b. Open the "HDL Buspro Set Up tool", find the device , change the IP address into a same IP segment of the user PC. Finish and save.
- c. Change the IP address of the user PC back to previous IP.
- d. Power the device off, then the new IP address will be available after power on.

## Safety Precautions



- The screw down strength should not exceed 0.4Nm.
- Installation-Inside DB box.
- Do not make wrong connection on Buspro interface, it will damage the Buspro interface of this module.
- Do not get AC power into Bus wire , it will damage all devices in the system.
- Do not let the module come into contact with hazardous liquids or corrosive gases.

## Package Contents

- Device\*1 / Datasheet\*1 / Buspro connector\*1

