

112031-DR SMARTsplitter  
4ch DMX merge & split



Nuvolight GmbH & Co. KG  
Gewerbegrund 12  
82272 Moorenweis  
DE - GERMANY

Tel: +49 (0)8146 / 99 58 00  
E-Mail: info@nuvolight.de

112031-DR-NI-001

## Safety instructions

Electrical devices may only be installed and assembled by qualified electricians. Improper installation can result in serious injuries, fire or property damage. Read and follow the instructions completely. Electric shock hazard.

Disconnect the device and load before starting work. Take into account all circuit breakers that supply dangerous voltages to the device or load.

When installing and laying cables, comply with the regulations and standards applicable to SELV circuits. These instructions are part of the product and must remain with the end customer.

## Function

### System informations

This device is used for signal processing and control of lighting control devices. The control takes place on both the input and output sides via the DMX 512 protocol. The Art-Net protocol can also be processed on the input side with up to two universes. Detailed specialist knowledge of DMX and Art-Net is required for understanding. The function of the device is software dependent. Technical descriptions and information about the software version can be found on our website.

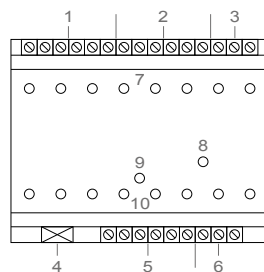
### Product features

- 4 x DMX output in two DMX universes
- 2 x DMX input & 2 x Art-Net input
- Operation can be set as a splitter or merger
- Connection to Nuvolight control system via network via RJ45 network cable
- Used to operate and address NuvoStrip Digital DMX 60 RGBW
- When using NuvoStrip Digital DMX 60 RGBW, lengths of up to 25.60 m per DMX output are possible by combining two DMX universes
- Settings via web interface
- Manual control directly on the device
- For mounting on a TH35 top-hat rail
- Used in industrial companies

### Package contents

- 1 x SMARTsplitter
- 8 x 3-pin connector
- 1 x usage information

## Device information



1. 2 x DMX output Universe 1, pluggable screw terminals
2. 2 x DMX output Universe 2, pluggable screw terminals
3. 19-24 V DC power supply, pluggable screw terminal
4. LAN socket for RJ45 patch cable
5. 2 x DMX input Universe 1, pluggable screw terminals
6. 1 x DMX input Universe 2, pluggable screw terminal
7. Status LED displays the inputs and outputs
8. Reset button
9. Status LED
10. Output control buttons

## Mount device



### DANGER

**Touching live parts can result in serious property damage or personal injury, e.g. fire or electric shock.**

Isolate before working on the device and cover live parts in the area.

Failure to do so will result in personal liability for damage to property and personal injury!

1. Disconnect the mains voltage.
2. Place the device on the top-hat rail.
3. Connect the bus system
4. Connect LAN network cable (RJ45)
5. Connect the power supply

**Warning:** Only operate the device with 19 ... 24 V DC voltage, otherwise damage to the device can occur. Connected devices must be designed for the voltage applied, otherwise the connected device may be damaged (in particular, the DMX bus is live).

## Installation

**Check the following before commissioning:**

- Power supply of 19 ... 24 V DC
- Check the polarity of the connections
- Check for electrically and mechanically perfect terminal contacts

### Configuration of the device via web interface

1. Activate the power supply
2. Log in to the device's WLAN access point  
Network name: SMART\_<serial number>  
Password: nuvolight123  
Address: http://192.168.4.1
3. Make the settings for your application in a web browser. You can find a detailed list of the setting options in the data sheet on our website:  
[www.nuvolight.de/de/downloads](http://www.nuvolight.de/de/downloads)



## Technical specifications

Supply voltage:	DC 19 ... 24 V
Current consumption:	max. 500 mA
Network connection:	100 Mbit/s Ethernet Port
Connection type:	Screw terminals
Conductor cross-section:	max. 2,50 mm <sup>2</sup>
Reference voltage:	0 V (GND)
DMX inputs:	
Count:	3 (each signal +/- & GND)
Input voltage:	0 ... 5 V signal
DMX outputs:	
Count:	4 (each signal +/- & GND)
Output voltage:	0 ... 5 V signal
Operating temperature:	-25 ... 60° C
Humidity:	0% ... 85% not condensing
Protection class:	IP 20
Attachment:	DIN rail mounting
Dimensions:	WxHxD: 87x107x77 mm 5 TE width
Weight:	150 g
Color:	white

## Behavior in the event of failure

**Behavior in the event of failure or loss of the mains voltage**

The buses are switched off, so the control devices present react as if there were no bus present. All unsaved device settings will be lost. When the device restarts, the last saved setting is loaded.

## Replacing the device



### DANGER

**When changing the device, touching live parts can result in a short circuit or danger to life and limb due to an electric shock.**

Before changing, de-energize all connected conductors. If ignored, there is a risk of property damage and personal injury!

## Warranty

The warranty is provided within the framework of the legal provisions via Nuvolight GmbH & Co. KG. If devices malfunction, please contact info@nuvolight.de or the support hotline.