NUVOLIGHT
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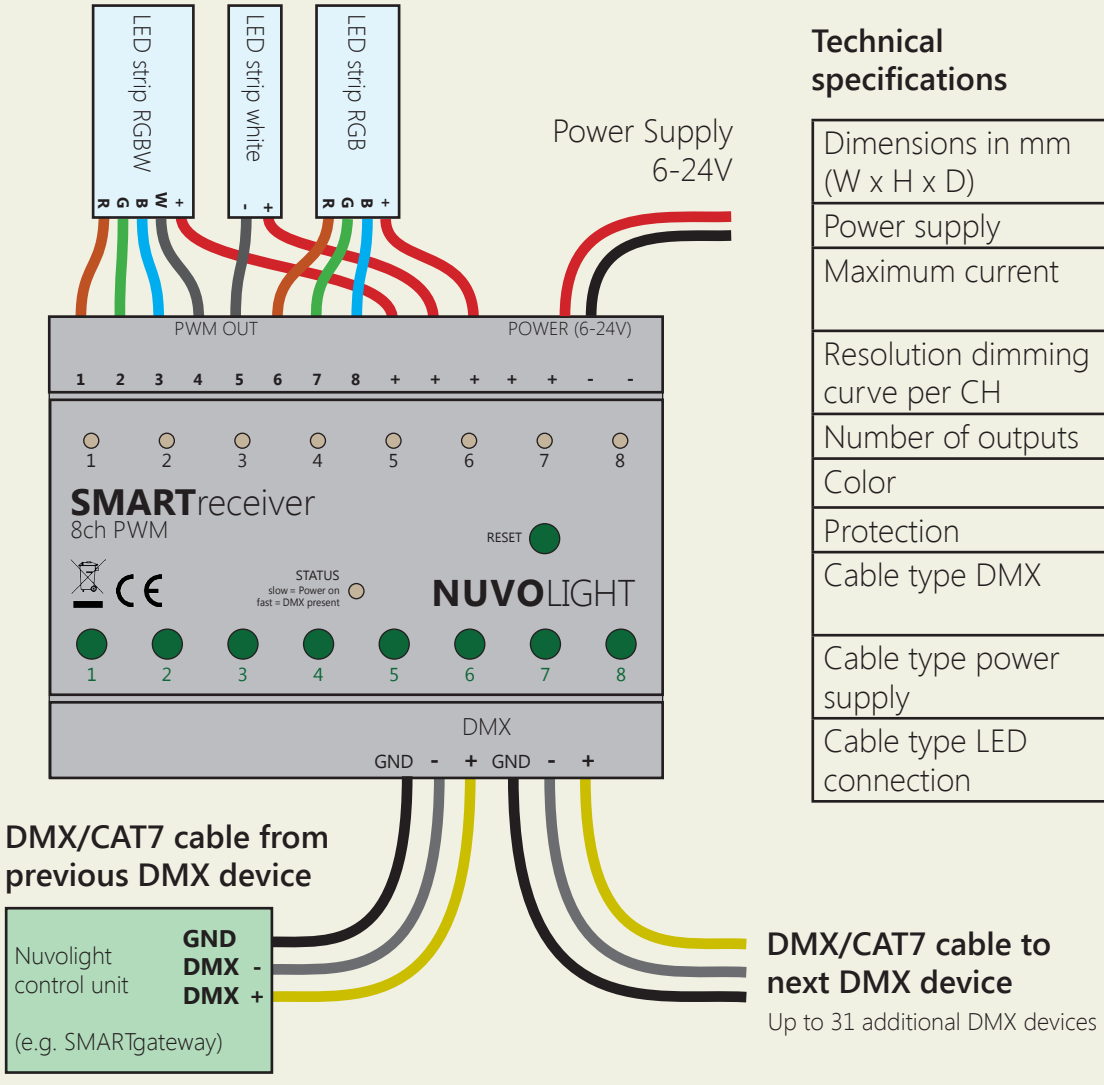
SMARTreceiver 8ch PWM

Art.-Nr.: 112021-DR

The Nuvolight SMARTreceiver PWM is a small and powerful LED controller for top-hat rail mounting, with which LED lights and LED strips with PWM-modulated voltage can be dimmed continuously. It reacts to DMX control signals or can be integrated into the Nuvolight system via WLAN. For this purpose, the SMARTreceiver offers 8 individually controllable outputs.

Installation

The SMARTreceiver needs to be mounted on a DIN rail. As soon as the BUS receiver is supplied with power, the status LED inside the controller begins to pulse. Fast and regular flashing signals a correctly applied DMX bus.



Technical specifications

Dimensions in mm (W x H x D)	87 x 107 x 77 (incl. plugs, plus cables)
Power supply	6V to 24V DC
Maximum current	15A@6-24V per clamp/ max. 30A total
Resolution dimming curve per CH	16 Bit (65536 steps)
Number of outputs	8
Color	White
Protection	IP20
Cable type DMX	CAT7, one pair of cable cores
Cable type power supply	max. 2,5mm²
Cable type LED connection	max. 2,5mm²

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Connection

Up to 32 SMARTreceivers or other DMX-capable controllers can be connected to a Nuvolight control unit with DMX output. Each SMARTreceiver can be controlled individually by appropriate addressing. The outputs of each SMARTreceiver can also be controlled individually.

Manual operation

Use the 8 Toggle buttons on the device's surface to turn the corresponding PWM output to its opposite state (0% or 100% dimming). The signal LEDs show the current state of the outputs. Manual operation is only possible when no DMX-signal is applied.

DMX addressing

The SMARTreceiver reacts to several consecutive addresses in the DMX protocol. The first channel is set as the start address. The data received on the start channel and the following address numbers determine the dimming states of the outputs.

The address assignment is as follows:

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Start address	CH1-
Start address + 1	CH2-
Start address + 2	CH3-
Start address + 3	CH4-
Start address + 4	CH5-
Start address + 5	CH6-
Start address + 6	CH7-
Start address + 7	CH8-

The start address is preset at the factory (see labeling), but can also be changed manually via WIFI using the browser interface. Valid DMX addresses range from 1 to 512.

Change DMX start address

1. Supply the BUS Receiver with power. The BUS Receiver now provides a WIFI network for ten minutes, through which settings can be made.

2. Connect your computer, tablet or mobile phone to the network of the BUS Receiver via WIFI.

Network name: *SMARTxxx_XX:XX:XX:XX:XX:XX*
Password: ***nuvolight123***

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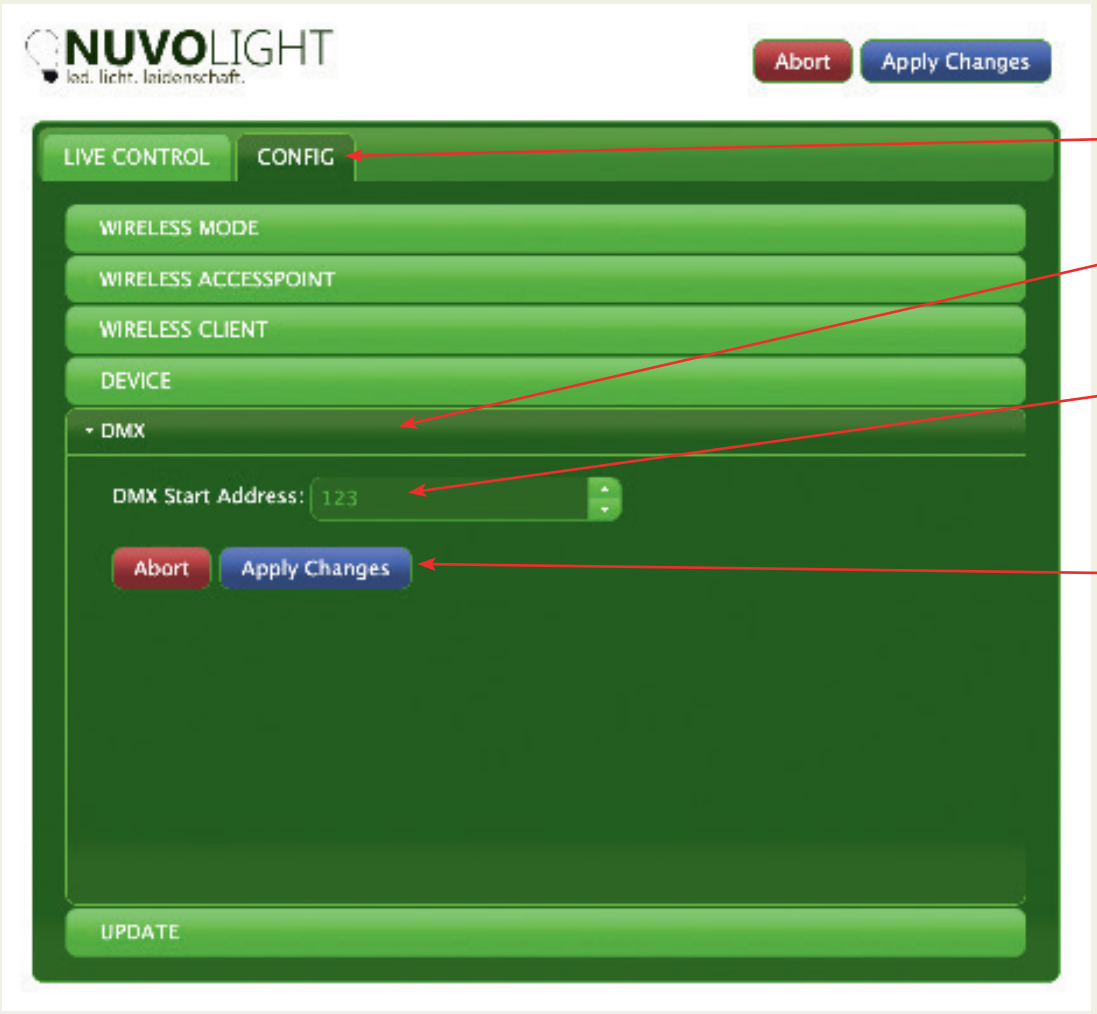
3. Now type the following address into your browser:

http://192.168.4.1

4. Now set the start address via the browser interface. To do this, click on the **CONFIG** tab. and select the sub-item **DMX**. Type the desired start address in the associated text field and then click **Apply Changes**.

The BUS receiver now restarts with the set start address. The WIFI connection is interrupted.



Made in Germany

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Further configuration options

Menu	Selection option	Function
WIRELESS MODE	Accesspoint	The device offers its own WIFI to connect to it via the browser interface.
	Accesspoint + Station	The device also tries to connect to another existing network so that it can be controlled wirelessly.
WIRELESS ACCESSPOINT	SSID, Password, Channel	Network name and password of the WIFI network the device offers. **CAUTION: Incorrect settings can block access to the configuration of the device! It's best not to change anything here.**
	Timeout [min]	The time after the device is switched on after which the configuration WLAN is switched off.
WIRELESS CLIENT	SSID, Password	Network name and password of the WLAN to which the BUS receiver is to connect.
	Hostname	The name under which the device logs on to the network
	DHCP	On: The SMARTreceiver expects that it will be assigned an IP in the network (standard) Off: The SMARTreceiver uses the self-assigned IP address, gateway, subnet mask and DNS IP addresses below
DEVICE	Status LED Timeout	The time after which the green status LED inside the device is switched off. A value of 0 means that the status LED never goes out (standard)
	Power Range	The minimum and maximum power that the device delivers at the output.
	No-DMX Boot Value	If this option is set, the outputs go back to the boot settings if there is no DMX signal.
DMX	DMX Start Address	The DMX start address
UPDATE	Current Firmware	The current firmware version
	Upload	Firmware update. The new firmware can be uploaded as a file from the computer to the SMARTreceiver.

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