

DMX-LED-DIMMER X9HRX+

User Manual



Description

The **DMX LED Dimmer X9HRX+** is a 9-channel LED driver with 16-bit grayscale adaptive pulse density modulation (APDM) and a high output frequency of up to 8kHz at the same time.

Thanks to the special APDM technology in combination with the optimized 48V LED drivers, the DMX LED dimmer X9HRX+ is perfectly suited for controlling RGB, RGBW or even single-color W stripes.

9 Outputs

The DMX-LED-Dimmer X9HRX+ has 9 outputs to which LEDs can be connected. All outputs are designed in the same way so single color, RGB or RGBW LEDs can be connected.

High Power Outputs

The outputs can drive a current up to 10A. So it is possible to connect a maximum load of 120W (12V) / 240W (24V) / 240W (48V).

High efficiency

The 48V LED drivers are designed to allow the DMX LED Dimmer X9HRX to operate without active cooling (no fan).

0% up to 100% dimmable

The connected LEDs are dimmed by APDM from 0% to 100%.

For voltages from 12V up to 48V

The DMX-LED-Dimmer X9HRX+ operates with supply voltages from 12V up to 48V. The LED voltage can be different per output so that one DMX-LED-Dimmer X9HRX+ can control different LED systems.

DMX-FAIL Function

An adjustable DMX FAIL function offers the option to get in case of loss DMX signal the current state (HOLD) or predefined a preset value.

DMX-Master Dimmer

Optionally, another DMX channel can be activated as Master Dimmer (all outputs) or one master dimmer per RGB/RGBW group.

Adjustable Output Frequency

The output frequency at the LED outputs can be adjusted between 500Hz and 8000Hz via RDM.

Adjustable Dimming Curve

The dimming curves can be configured individually for each output.

RDM Support

The DMX-LED-Dimmer X9HRX+ allows configuration by RDM via DMX.

Free RDM-Software

To set the parameters via RDM, our free RDM Configurator software is available to download from our website www.dmx4all.de.

SubDevice-Mode

In SubDevice mode, each output is assigned its own DMX address and DMX FAIL behavior via RDM.

Touch-Control

The DMX-LED-Dimmer X9HRX+ is designed with 3 touch fields for operation and a 7-segment display.

RGB-Status-Display

The device status is shown via the RGB status display.

Firmware-Update-Function

In order to be able to use future functions, the DMX-LED-Dimmer X9HRX+ offers a firmware update function both via USB and RDM.

Data sheet

Power supply:	12-48V DC 80mA@12V / 100mA@24V (without connected LED load)
LED voltage:	12-48V DC (no AC voltage!)
Protocol:	DMX512 RDM
DMX Channels:	9 channels with 8Bit-controlling and Curve-Definition 18 channels with 16Bit-controlling + optional Master-Dimmer channels
DMX-FAIL:	Hold / 0%-100%
Output:	9 PWM-signal with 16Bit-resolution and APDM (Adaptive Pulse Density Modulation) common supply voltage
Output current:	max. 10A each output In sum 90A with all GND connections (direct from power supply)
Output power:	9x 120W (12V) / 9x 240W (24V) / 9x 240W (48V)
Masterdimmer:	No / Global / RGB / RGBW
PWM frequency:	500Hz / 1kHz / 2kHz / 4kHz / 8kHz
CTRL Output:	Control output for switching off the load power supply units (Energy-Save)
StandAlone Function:	9 internal Stand-Alone programs
Display:	7 segment display RGB LED
TOUCH-Control:	3 touch buttons
Connections:	Screw terminals
Dimension:	105mm x 90mm x 60mm

Content



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