

Important: Read all instructions prior to installation.

DS-DMX48

4-Channel DMX/RDM Decoder



DS-DMX48

Safety and Notes

- Product should be installed and serviced in accordance with applicable national, state, and local building and electrical codes.
- To reduce the risk of electric shock, ensure that the main power source and circuit breakers are switched off before performing any installation or wiring procedures.
- A DMX signal amplifier will be required if more than 32 decoders are connected or if using excessively long signal wiring. No more than five signal amplifiers should be used in series.
- If recoil effect occurs because of long signal wires or bad signal quality, try to connect 0.25 W 90–120 Ω terminal resistor at the end of each DMX signal line.

Specifications

Model	DS-DMX48
Operating Temperature	-22°–131° F (-30°–55° C)
IP Rating	IP20

Check product label for specific electrical specifications related to installation.

Improper installation will void warranty.

DMX Mode

- If there is a DMX signal input, decoder will enter DMX mode automatically. To manually enter DMX mode, press M button. Display will show 001-999.
- Press ◀ or ▶ button to switch between DMX decode start address (001-999). Hold ◀ or ▶ button to change the address faster.
- Each DMX decoder occupies four DMX addresses. The default start address is 1. See the table below for the corresponding relationships.

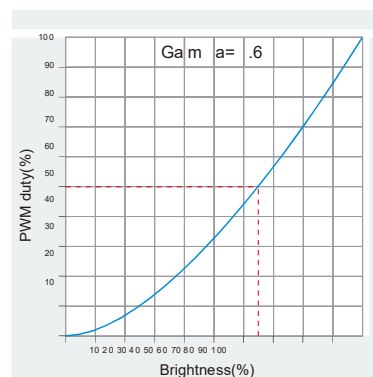
DMX Console	DMX Decoder Output
CH1 0–255	CH1 PWM 0–100% (LED R)
CH2 0–255	CH2 PWM 0–100% (LED G)
CH3 0–255	CH3 PWM 0–100% (LED B)
CH4 0–255	CH4 PWM 0–100% (LED W)

Self Test Mode

Enter self-test mode only when the DMX signal is disconnected or lost.

- Press M key until the display reads value L-1 through L-5.
- Press ◀ or ▶ key to change mode number.
- Self-test mode includes four channel light up separately or synchronously.

Dimming Curve

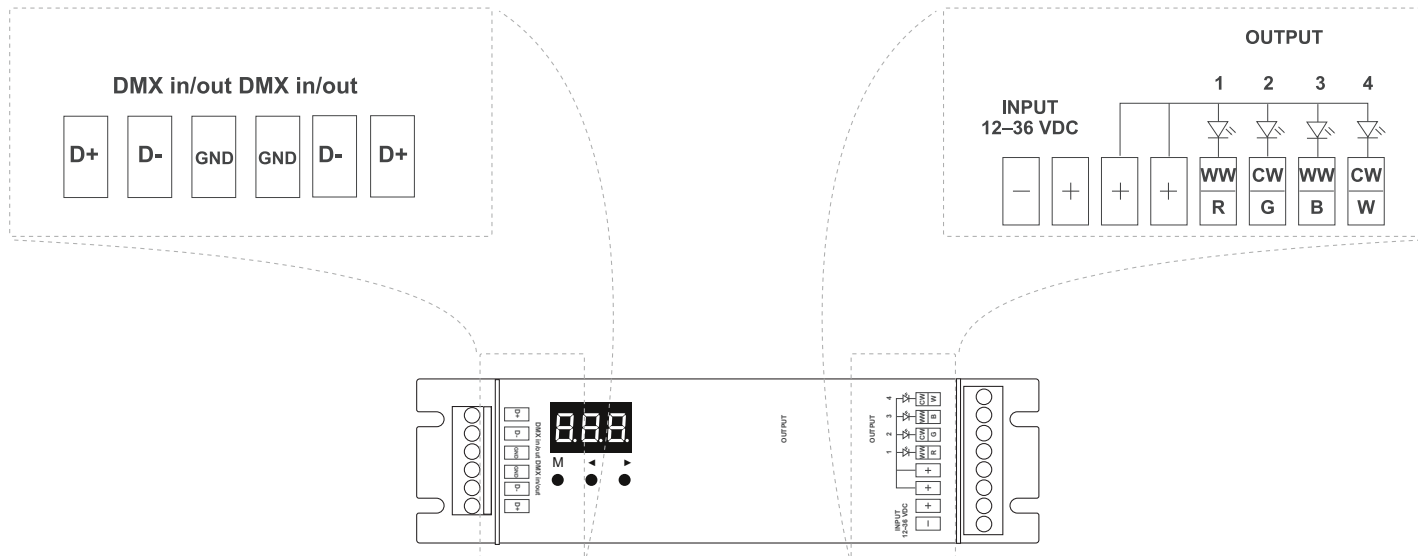


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4-Channel DMX/RDM Decoder

DMX Wiring Diagrams

DS-DMX48



Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> 1. No power 2. Incorrect or loose connection 	<ol style="list-style-type: none"> 1. Check power 2. Check the connection
Wrong color	<ol style="list-style-type: none"> 1. Incorrect wiring 2. DMX decode address error 	<ol style="list-style-type: none"> 1. Check wiring 2. Set correct decode address
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> 1. Output cable is too long 2. Wire diameter is too small 3. Overload beyond power supply capability 4. Overload beyond controller capacity 	<ol style="list-style-type: none"> 1. Reduce cable length 2. Change to higher gauge wire 3. Replace with a higher wattage power supply 4. Add power repeater.