FTVOGUE FTVOGUEm6s9edypgv

FTVOGUE RGB LED Light Controller DMX512 Decoder User Manual

Model: FTVOGUEm6s9edypgv

1. Introduction

This manual provides comprehensive instructions for the FTVOGUE RGB LED Light Controller DMX512 Decoder. This device is designed to receive DMX512 standard digital control signals and convert them into PWM signals to drive LED lighting systems. It is suitable for various applications including stage, bar, and studio lighting.

The decoder can operate in two primary modes:

- **DMX Mode:** When connected to a DMX console, it functions as a DMX decoder, allowing precise control over RGBW LED lights. Multiple decoders can be linked to expand output channels for complex lighting effects.
- **Standalone Mode:** When not connected to a DMX console, the unit can act as a synchronization controller, enabling multiple decoders and LED lights to operate in synchronized patterns.

2. Safety Information

- Ensure the power supply voltage matches the device's requirements (DC 5V-24V). Incorrect voltage can damage the unit.
- This product is designed for **indoor use only**. Do not expose it to moisture or water, as it is not water-resistant.
- Always disconnect power before making any connections or performing maintenance.
- Avoid placing the device in areas with high temperatures, direct sunlight, or excessive dust.
- Do not attempt to open or modify the device. Refer all servicing to qualified personnel.

3. Product Overview

The FTVOGUE RGB LED Light Controller DMX512 Decoder features a robust design with multiple input and output interfaces for versatile lighting control.

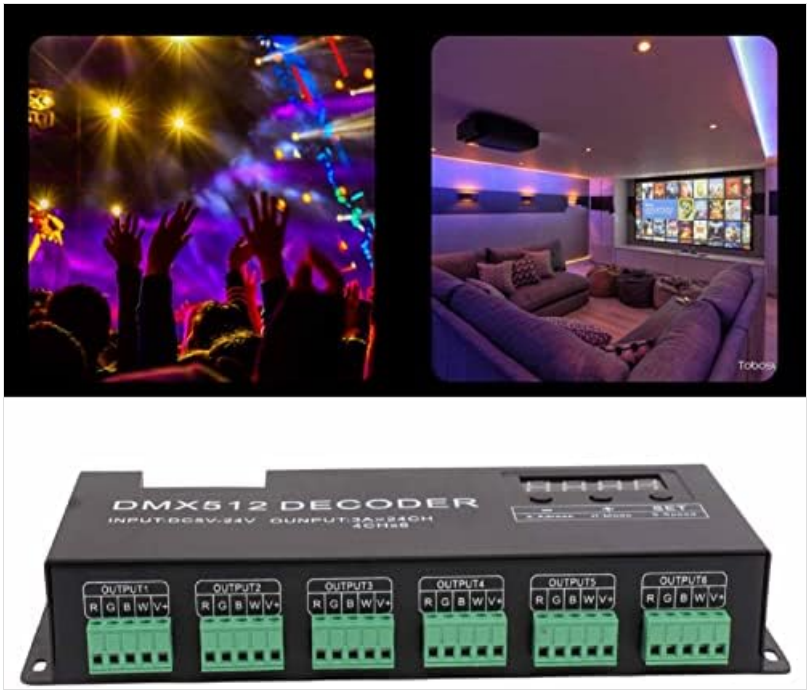


Figure 3.1: FTVOGUE DMX512 Decoder showing its output terminals and examples of its use in stage and home theater lighting environments.

Key Features:

- Advanced computer control chip for DMX512 signal reception.
- Converts DMX signals to PWM for driving RGBW LED lights.
- 24 output channels (3A per channel, 24 channels total).
- Can function as a standalone synchronization controller.
- Expandable output channels by connecting multiple decoders.
- Digital display for address and mode settings.

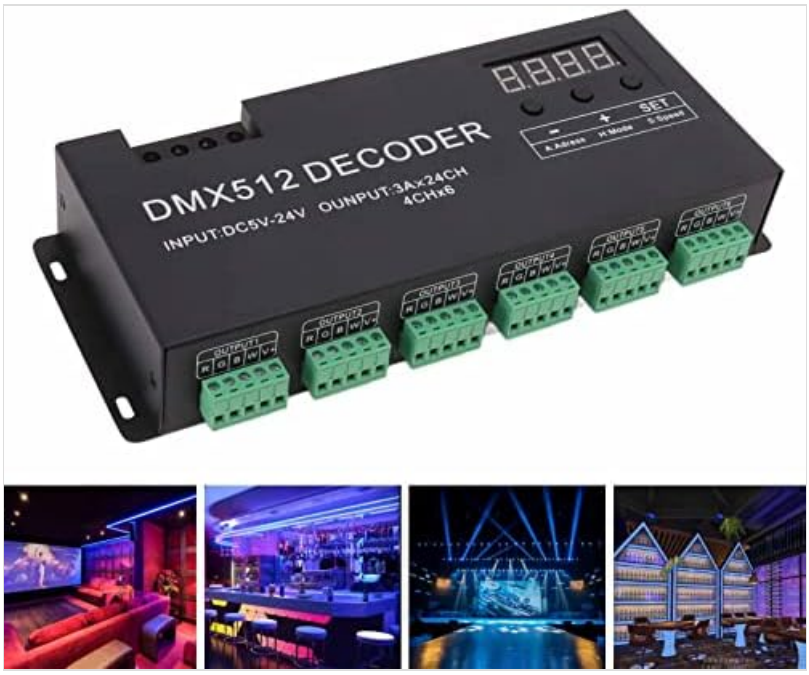


Figure 3.2: Top view of the DMX512 Decoder, highlighting the digital display and control buttons for address, mode, and speed settings.

Components:

- **Power Input:** DC 5V-24V terminal.
- **DMX512 Input/Output:** XLR 3-pin connectors for DMX signal chain.
- **DMX Input/Output (RJ45):** RJ45 interfaces for DMX signal chain.
- **LED Outputs:** 6 sets of RGBW terminals (OUTPUT1 to OUTPUT6), each supporting 4 channels (R, G, B, W).
- **Digital Display:** Four-digit display for current settings.
- **Control Buttons:** '+', '-', 'SET' buttons for configuration.

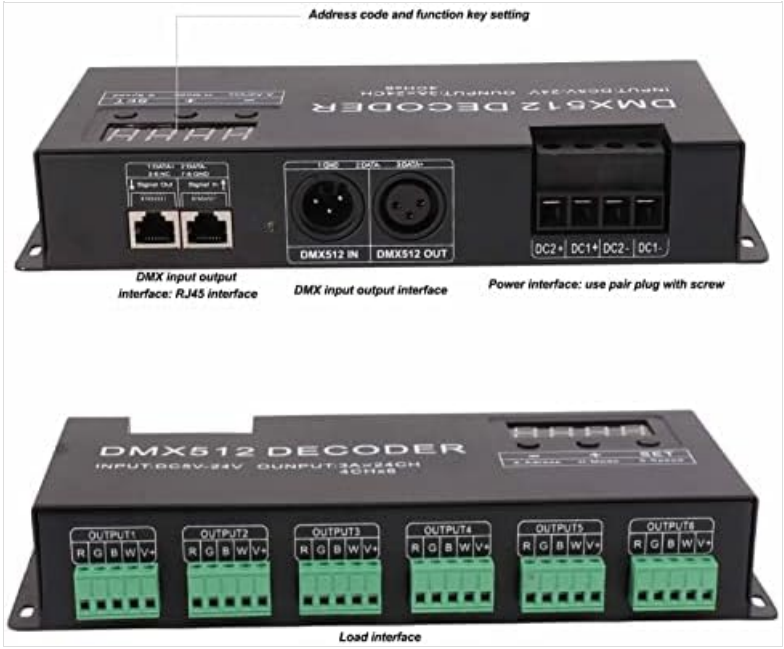


Figure 3.3: Detailed view of the DMX512 Decoder's input and output interfaces, including DMX XLR, RJ45, power, and LED load terminals.

4. Setup

Follow these steps to set up your FTVOGUE RGB LED Light Controller DMX512 Decoder:

1. **Mounting:** The device is designed for surface mount installation. Secure it in a stable, well-ventilated area away from heat sources and moisture.
2. **Connect LED Lights:** Connect your RGBW LED lights to the 'OUTPUT' terminals. Each output terminal has connections for R (Red), G (Green), B (Blue), W (White), and V+ (Common Positive). Ensure correct polarity. The decoder supports 6 outputs, each controlling 4 channels (RGBW).
3. **Connect DMX Signal (Optional):**
    - For DMX control, connect your DMX console's output to the 'DMX512 IN' (XLR 3-pin) or 'Signal In' (RJ45) port on the decoder.
    - If chaining multiple decoders, connect the 'DMX512 OUT' (XLR 3-pin) or 'Signal Out' (RJ45) of the first decoder to the 'DMX512 IN' or 'Signal In' of the next decoder.

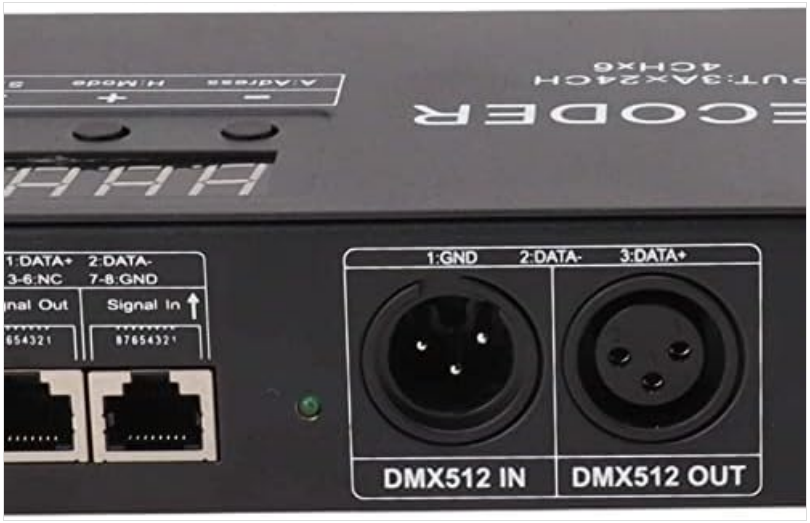


Figure 4.1: Close-up view of the DMX512 IN and DMX512 OUT XLR 3-pin connectors.

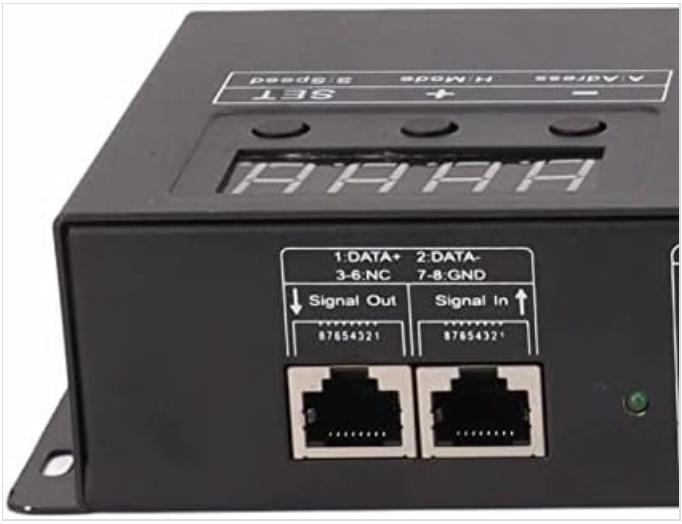
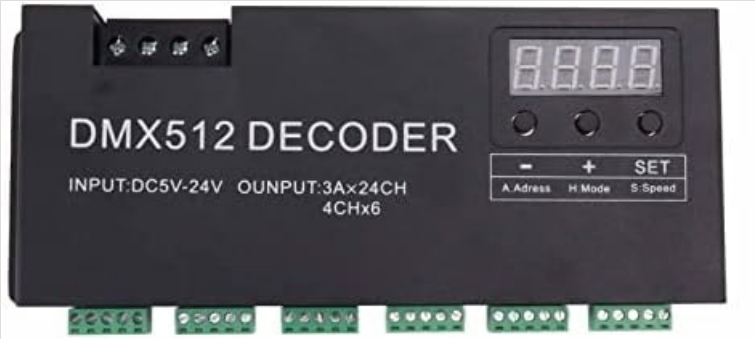


Figure 4.2: Close-up view of the DMX Signal In and Signal Out RJ45 interfaces.

4. **Connect Power:** Connect a DC 5V-24V power supply to the 'DC1+' and 'DC1-' terminals. Ensure the power supply is appropriate for the total wattage of your connected LED lights.
5. **Power On:** Once all connections are secure, connect the power supply to an electrical outlet. The digital display on the decoder should illuminate.

5. Operating Instructions

The decoder features a four-digit digital display and three control buttons: '+', '-', and 'SET'.



Digital display description

The four digit nixie tube display is adopted, and the address is increased or decreased by pressing the key. Each decoder occupies 3 addresses. The first digit of the nixie tube is a function indicator, only showing A, H or S; The last three digits are digital display.

Display Symbols	Mode
H-00	Turn off output
H-01	Static red
H-02	Static green
H-03	Static blue
H-04	Static yellow
H-05	Static purple
H-06	Static cyan
H-07	Static white
H-08	Seven color jump (adjustable speed)
H-09	Seven color gradient (adjustable speed)

Figure 5.1: Digital display description and table of display symbols and corresponding modes.

Digital Display Description:

The four-digit display shows the current setting. The first digit indicates the function (A for Address, H for Mode, S for Speed), and the last three digits show the numerical value.

Setting DMX Address:

1. Press the 'SET' button until 'A' appears as the first digit on the display (e.g., A001).
2. Use the '+' and '-' buttons to adjust the DMX starting address. Each decoder occupies 24 addresses (4 channels x 6 outputs).
3. Press 'SET' again to confirm and save the address.

Setting Standalone Mode:

When not connected to a DMX console, the decoder can operate in various pre-programmed modes.

1. Press the 'SET' button until 'H' appears as the first digit on the display (e.g., H-00).
2. Use the '+' and '-' buttons to cycle through the available modes (H-00 to H-09) as listed in Figure 5.1.
3. Press 'SET' again to confirm the mode.

Adjusting Speed (for applicable modes):

For modes with adjustable speed (e.g., H-07, H-08, H-09), you can modify the speed setting.

1. After selecting an applicable 'H' mode, press the 'SET' button again until 'S' appears as the first digit on the display (e.g., S-01).
2. Use the '+' and '-' buttons to adjust the speed.
3. Press 'SET' again to confirm the speed setting.

Remote Control:

The FTVOGUE RGB LED Light Controller also supports control via a remote control (included). Refer to the remote control's specific instructions for its functions.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.
- **Inspection:** Periodically check all cable connections for wear or damage. Ensure power and DMX cables are securely connected.
- **Ventilation:** Ensure the device has adequate ventilation to prevent overheating. Do not block any ventilation openings.
- **Storage:** If storing the device for an extended period, disconnect it from power and store it in a cool, dry place.

7. Troubleshooting

- **No Power:**
  - Check if the power supply is correctly connected and plugged into a working outlet.
  - Verify the power supply voltage matches the decoder's requirements (DC 5V-24V).
- **LEDs Not Responding:**
  - Ensure LED lights are correctly wired to the output terminals with correct polarity.
  - In DMX mode, verify the DMX address is correctly set on the decoder and matches the address sent by the DMX console.
  - Check DMX signal cables for damage or loose connections.
  - If in standalone mode, ensure a valid 'H' mode is selected.
- **Incorrect Colors/Flickering:**
  - Verify the wiring of RGBW channels to the LED lights.
  - Check for DMX signal interference or incorrect DMX termination in a chain.
- **Decoder Overheating:**
  - Ensure adequate ventilation around the device.
  - Reduce the load on the decoder if it exceeds its maximum current capacity (3A per channel).

8. Specifications

Attribute	Specification
Brand	FTVOGUE
Model Name	FTVOGUEm6s9edypgv
Product Dimensions	11.02"L x 4.33"W x 2.36"H
Material	Acrylonitrile Butadiene Styrene
Color	Black
Voltage	DC 5V-24V
Light Color	RGBW

Number of Light Sources	24 (channels)
Control Method	Remote, DMX512
Installation Type	Surface Mount
Indoor/Outdoor Usage	Indoor
Water Resistance Level	Not Water Resistant
Item Weight	1.88 pounds
Included Components	Plugs, Manual, Remote Control

9. Warranty & Support

For warranty information or technical support, please contact FTVOGUE customer service. Keep your purchase receipt as proof of purchase.

You can visit the official FTVOGUE store for more information and support resources:FTVOGUE Store