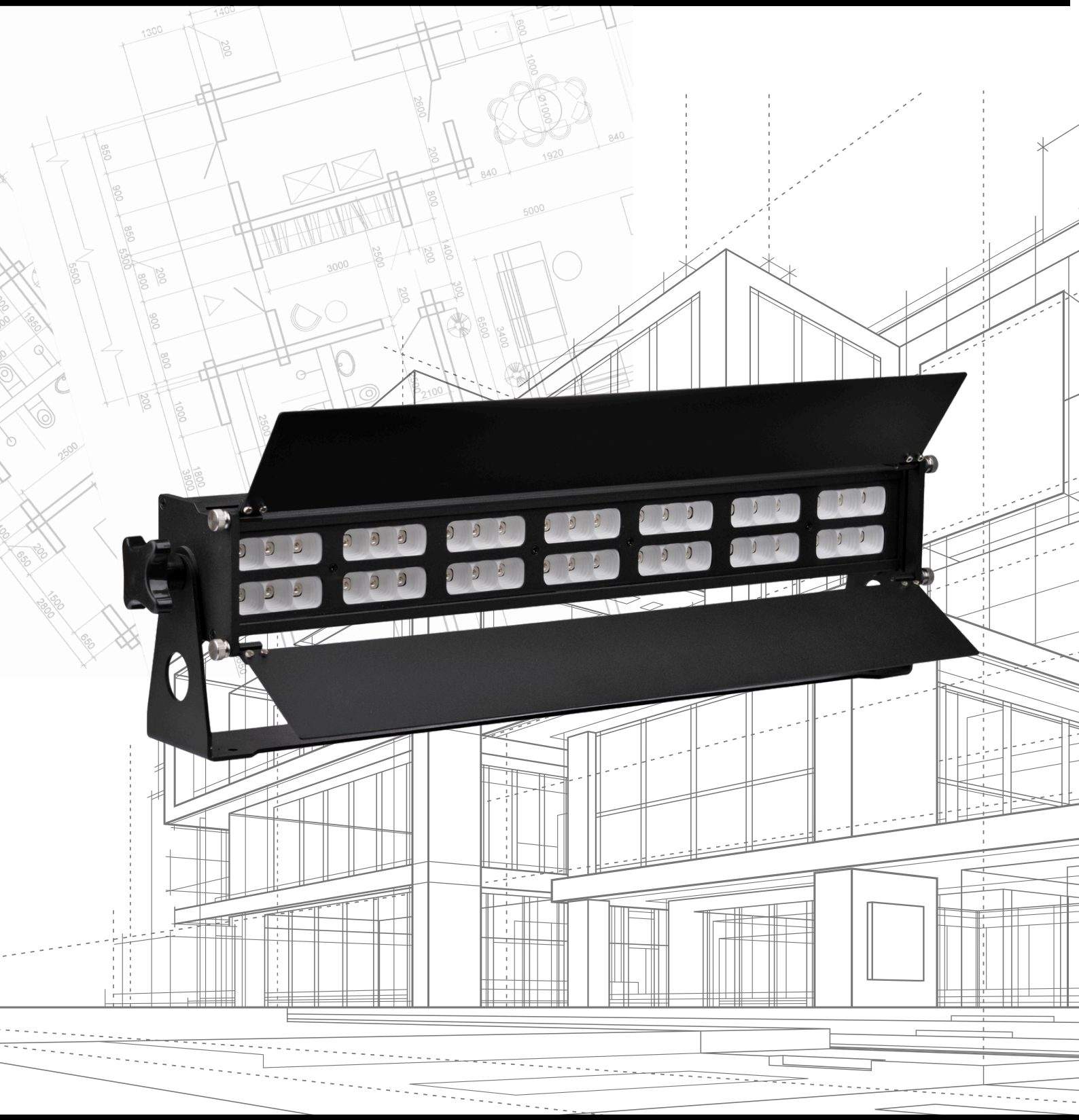
PRO-LINE



LEDBAR 424 RGB+UV

LED BAR

User Manual

PRSTAGE.PRO

1 – INTRODUCTION TO THE MANUAL 3
2 – GENERAL WARNING 3
3 – GENERAL WARRANTY TERMS 3
4 – TECHNICAL SPECIFICATIONS 3
5 – PACKAGE CONTENTS 6
6 – IMPORTANT SAFETY INFORMATION 7
7 – VOLTAGE AND FREQUENCY 8
8 – INSTALLATION 8
9 – POWER CONNECTION 11
10 – DMX SIGNAL CONNECTION 11
11 – DISPLAY FUNCTIONS 13
12 – "SETTING" MENU 14
13 – PERIODIC CLEANING 17
14 – PERIODIC INSPECTIONS 17
15 – DMX PROTOCOL 19
16 – WARRANTY CARD 23

1 – INTRODUCTION TO THE MANUAL

Welcome to the LEDBAR 424 RGB+UV user manual.
This document provides information on the setup, operation, and maintenance of the device.

2 – GENERAL WARNING

Please read the instructions in this user manual carefully, as they contain important safety information regarding installation, use, and maintenance.

⚠ This device is not intended for household use and must be installed by a qualified electrician or experienced technician.

⚠ The device must be properly grounded.

3 – GENERAL WARRANTY TERMS

The device is covered by a 12-month warranty from the date of purchase against manufacturing defects in materials and workmanship.

4 – TECHNICAL SPECIFICATIONS

Light Source:

- LED: 42x4 w.

Optical System:

- **Beam**: 60°.

4 – TECHNICAL SPECIFICATIONS

LLEDBAR 424 RGB+UV is a high-power theatrical fixture with a 400W RGBALC LED source, providing clean, accurate color reproduction and smooth, even illumination.
The unit is ideal for theatrical productions, opera and drama performances, TV studios, and concert halls.
LEDBAR 424 RGB+UV is specifically designed for professional stage lighting applications where flexibility, high light quality, and precise color adjustment are essential.
At a distance of 5 meters with a 15° beam angle, it delivers 8400 lux.

Key Features of LEDBAR 424 RGB+UV:

- Silent "theatre" operation mode.
- RGB+UV color system for precise color rendering.
- "Pixel" control capability.
- Barndoors included.
- Frost filter included.
- Intuitive menu with a graphic backlit touch LCD display.
- Operating voltage: 100–240 V.

Dimmer / Strobe:

- Linear dimmer.
- Strobe effect adjustable from 1 to 25 flashes per second.

4 – TECHNICAL SPECIFICATIONS

Colors

- The fixture is equipped with a 4-color RGB+UV LED — Red, Green, Blue, and Ultra-Violet.
- Ultraviolet wavelength: 395 nm
- High color rendering quality.

DMX and Control

- 8 DMX channels
- 32 DMX channels

Connections

- 2 XLR connectors:
  - 3-pin DMX In/Out
- POWERCONN (Neutrik) In/Out power connectors

Power Supply

- Voltage: 100–240 V (50/60 Hz)
- Power consumption: 200 W
- Operating ambient temperature: from -10°C to +40°C.

Interface

- Graphic LCD display with backlight.

4 – TECHNICAL SPECIFICATIONS

Weight

- 10.2 kg.

Dimensions:

- Without Packaging: 614 × 150 × 88 mm

5 – PACKAGE CONTENTS

Standard package includes:

- 1× LEDBAR 424 RGB+UV.
- 1× POWERCONN Male connector
- 1× 3-pin XLR Male connector
- 1× 3-pin XLR Female connector
- 1× User manual

6 – IMPORTANT SAFETY INFORMATION

6.1. Fire Prevention:

- Never place the fixture on flammable surfaces.
- Minimum distance from combustible materials: 1.5 m.
- Minimum distance to the nearest illuminated surface: 2 m.
- Replace blown or damaged fuses only with those of the same rating.
- Connect the device to the power supply only through a thermal circuit breaker.

6.2. Electrical Shock Prevention:

- High voltage is present inside the device. Before performing any work that involves touching the internal components, disconnect the device from the power supply.
- The high level of technological complexity of the LEDBAR 424 RGB+UV requires maintenance by qualified personnel only. Contact an authorized PRstage service center.
- Proper grounding is essential for the device's correct operation.
- Never connect the device without proper grounding.
- The device must be installed in well-ventilated areas.

6.3. Protection from Intense Light Emission:

- Never look directly into the spotlight when it is on.

6.3. Protection from Intense Light Emission:

- Never look directly into the spotlight when it is on.

6.4. Safety:

- The fixture must always be installed using bolts, clamps, and other fasteners that can support its weight.
- Always use an additional safety cable to secure the fixture in case the primary mounting fails.
- The external surface of the device may reach temperatures above 70°C in certain areas. Do not touch the fixture for at least 10 minutes after it has been turned off.

6 – IMPORTANT SAFETY INFORMATION

6.4. Safety:

Never install the fixture in enclosed spaces without sufficient air circulation. The ambient temperature must not exceed 40°C.

6.5. Protection against solid particles and liquids:

The fixture is classified as standard equipment with a protection rating of IP20, which means it provides no protection against dust or moisture. For outdoor use, PRstage recommends using special rain protection covers or fixtures specifically designed with protection against liquids and solid particles.
For more details, please consult a PRstage specialist.

7 – VOLTAGE AND FREQUENCY

- LEDBAR 424 RGB+UV operates within a voltage range of 100 –240V at a frequency of 50 or 60 Hz.

8 – INSTALLATION

The BEAM LED 200 RING can be installed both on the floor and on the ceiling.

Mounting on a stand:

- The fixture can be mounted using the central mounting hole (see Fig. 1, p. 9).

Mounting with a clamp:

- It is recommended to use appropriate mounting clamps (see Fig. 2, p. 9).
- The supporting structure to which the fixture is attached must be capable of safely bearing its weight, as well as the weight of any mounting hardware used.

8 – INSTALLATION

Fig.1

Fig.2

⚠ 8.1 – SAFETY CABLE

- We recommend using a safety cable to secure the LEDBAR 424 RGB+UV to the truss structure. This will prevent the fixture from falling in case of primary mounting failure.
- Make sure that the metal safety cable is capable of supporting the full weight of the fixture.
- You can attach the safety cable to the hole (A) located at the base of the fixture, as shown in the image below.

8.2 – LIQUID PROTECTION

- The projector contains electrical and electronic components that must never come into contact with oil, water, or any other liquids.
- If liquids enter the device, its operation may be compromised or completely fail.

8.3 – FORCED VENTILATION

- Upon inspection, you will notice that the device is equipped with air intake vents and cooling fans located at the base and on the head of the fixture.
- Under no circumstances should these vents be blocked or covered during operation.
- Obstructing airflow can lead to severe overheating, which may result in device malfunction or failure.

9 – POWER CONNECTION

- LEDBAR 424 RGB+UV operates within a voltage range of 100 –240V at a frequency of 50–60 Hz.
- Before connecting the fixture to the power supply, make sure that the mains voltage matches the device specifications.

To connect:

- Ensure that the plug used supports:
- 8 A at 230 V or 16 A at 100–120 V

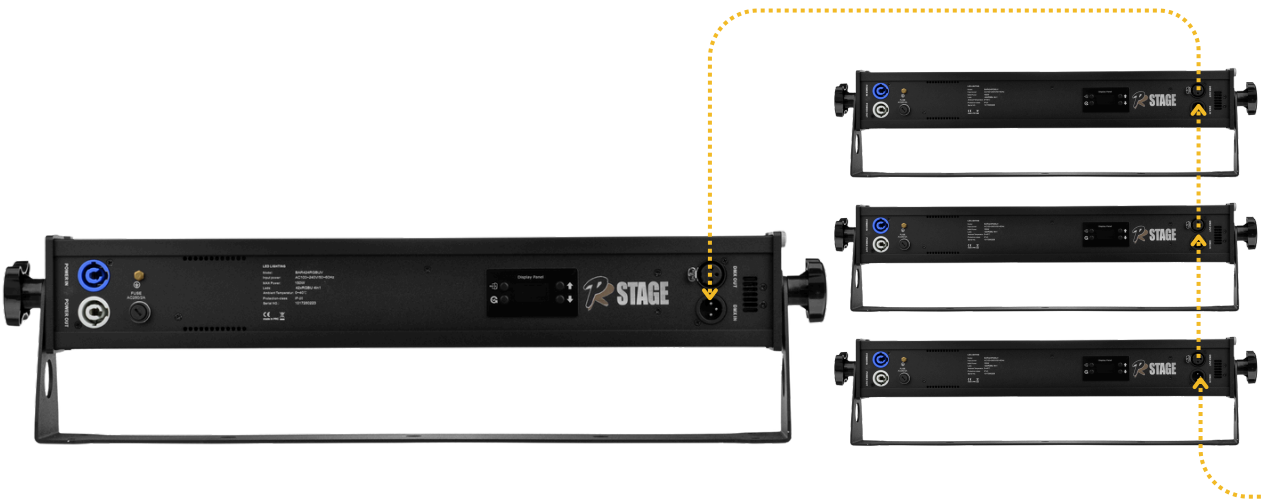
10 – DMX SIGNAL CONNECTION

The fixture operates using the DMX-512 digital control protocol.

1. DMX Connection

The connection between the DMX controller and the fixture—or between multiple fixtures—must be made using shielded twisted-pair cable (ø 0.5 mm) with XLR connectors (3-pin or 5-pin).

- Make sure the conductors do not touch each other.
- Do not connect the cable shield to the body of the XLR connector—the housing must remain electrically isolated.
- Connect the DMX OUT of the controller to the DMX IN of the first fixture.
- Then connect the DMX OUT of the first fixture to the DMX IN of the second fixture, and so on.
- In this way, all fixtures are connected in a daisy-chain configuration.



10 – DMX SIGNAL CONNECTION

2. DMX Errors

If the fixture does not respond to the DMX signal, it may indicate one of the following issues:

- No DMX signal present.
- DMX receiver error.
- Incorrect fixture address setting.

3. Using a DMX Terminator

In setups with long DMX cable runs, it is recommended to use a DMX terminator.

A terminator is an XLR plug (3-pin or 5-pin) with a 120-ohm resistor connected between pins 2 and 3.

The DMX terminator should be plugged into the DMX OUT of the last fixture in the chain.

10.1 – DMX-АДРЕСА

- LEDBAR 424 RGB+UV can be controlled in 8-channel DMX mode. Set the following addresses on the controller:
- Fixture 1 → A001
- Fixture 2 → A009
- Fixture 3 → A017
- …
- Fixture 6 → A041
- To assign the DMX address for the next fixture, simply add 8 to the previous address.

10.2 – SELECTING THE DMX ADDRESS

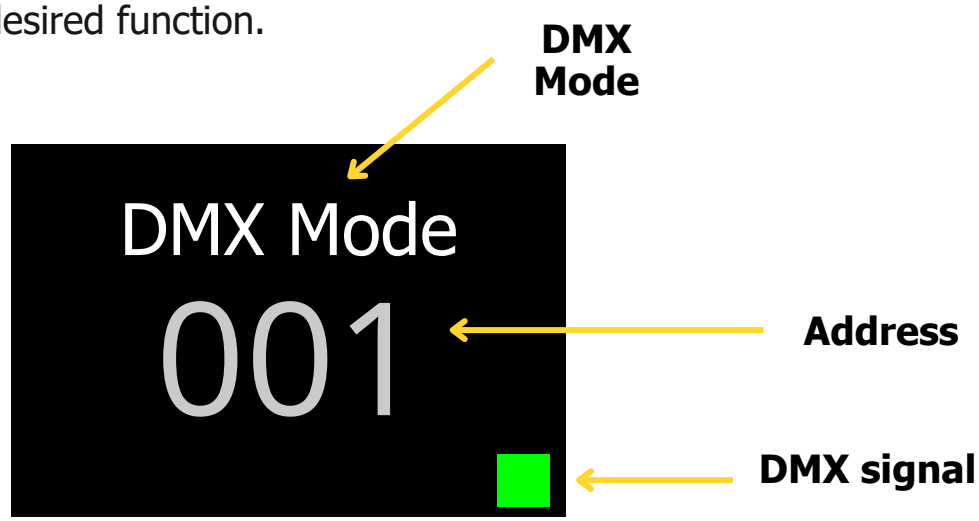
☞
- Press the DMX button and use the + / – buttons until you reach the DMX Address section, then press OK.
- Set the desired DMX address.
- Press OK to confirm your selection.
- Press the TOP button and check the address on the main screen.

10.3 – SETTING THE ADDRESS VIA RDM

- The LEDBAR 424 RGB+UV fixture supports RDM (Remote Device Management) functionality.
- Important: If your lighting console supports RDM, you can set the fixture's address directly from the console.
- To confirm whether your console supports RDM, please check with the manufacturer.
- Note:
- All devices in the network, including ART-NET, sCAN, and others, must support RDM signal transmission for proper operation.

11 – DISPLAY FUNCTIONS

- The LEDBAR 424 RGB+UV display shows all available functions. These functions allow you to adjust the device parameters and enable additional options.
- Important: Changing the settings of the LEDBAR 424 RGB+UV may alter the fixture's functionality, which could cause it to stop responding to DMX control.
- Before making any adjustments, carefully follow the instructions below.
- Note:
- The display shows the button symbols that need to be pressed to select the desired function.



12 – "SETTING" MENU

DMX Address - Address selection

- Press OK and use the ↑/↓ keys to select the desired address.
- Press OK to confirm the device address.
- The default device address is 001.

Channel - Select the device channel mode.

- Press OK and use the ↑/↓ keys to select the desired mode.
- Press OK to confirm the device mode.
- The default device channel mode is 8CH.
- 8CH and 32CH modes are available for selection.

- **Screen Duration - Display duration**
- Press OK and use the ↑/↓ keys to select the desired mode.
- Press OK to confirm the device mode.

12 – "SETTING" MENU

Fan Mode

- Press OK and use the ↑/↓ keys to select the desired mode.
- Press OK to confirm the device mode.
- **There are 3 modes available:**
- 1 - Always On.
- 2 - Always Off. - Theater mode (always off).
- 3 - Control By DMX.

Static Color - Manual Device Parameters

- Press OK and use the ↑/↓ keys to select the desired parameter.
- Press OK to select the parameter.
- Press the ↑/↓ keys to change the value from 0 to 255.
- Press OK or to confirm.

Device Temp.

- You can view the temperature of the equipment.

Reset Default - Factory Reset

- Press OK and use the ↑/↓ keys to select Yes.
- Press OK to reset.

12 – "SETTING" MENU

Auto Run - Automatic Modes

- Press OK and use the ↑/↓ keys to select the desired effect.
- Press OK to confirm the device effect.

⚠ 13 – PERIODIC CLEANING

⚠ 13.1 – Lenses and Reflectors

Even a thin layer of dust can significantly reduce light output.
Regularly clean all lenses and reflectors with a soft cotton cloth dampened with a special cleaning solution.

13.2 – Fans and Vents

Fans and vents should be cleaned approximately every 6 weeks.
The cleaning frequency depends on the operating conditions of the projector.
For cleaning, you can use:

- A brush
- A regular vacuum cleaner
- An air compressor

If the device operates in a dusty environment, clean the fans and air ducts more frequently.

14 – PERIODIC INSPECTIONS

⚠ **Attention**!

Before removing the casing, disconnect the device from the power supply.

Mechanical Parts

Periodically check all mechanical components:

- Gears
- Guides
- Belts and other moving elements

Replace worn parts if necessary.
Check the lubrication of all components, especially those exposed to high temperatures.
Use the appropriate lubricant recommended by PRstage.
Check the tension of the belts and adjust if necessary.

Electrical Components

Check the grounding and the proper connection of all connectors.

- If any loose connections are found, tighten them.

14– PERIODIC INSPECTIONS

Fuse Replacement

- The fuse protecting the lamp and electronic components is located at the base of the LEDBAR 424 RGB+UV.
- Check the condition of the fuse using a multimeter.
- If the fuse is blown, replace it with one of the same rating.

Attention!
Disassembling the device during the warranty period is prohibited!
This may void the warranty service!

15 – DMX PROTOCOL

8 - CHANNEL DMX MODE (Default)

1. DIMMER – Linear Dimmer
2. RED – Linear Red
3. GREEN – Linear Green
4. BLUE – Linear Blue
5. UV – Linear Ultraviolet
6. SHUTTER/STROBE – Shutter/Strobe
7. DIMMER MODE – Dimmer Modes
8. FAN CONTROL – Fan Control

32-CHANNEL DMX MODE (Default)

1. DIMMER - Linear Dimmer
2. SHUTTER/STROBE - Shutter/Strobe
3. DIMMER MODE - Dimmer Modes
4. RED 1 - Linear Red 1
5. GREEN 1 - Linear Green 1
6. BLUE 1 - Linear Blue 1
7. UV 1 - Linear Ultraviolet 1
8. RED 2 - Linear Red 2
9. GREEN 2 - Linear Green 2
10. BLUE 2 - Linear Blue 2
11. UV 2 - Linear Ultraviolet 2
12. *** - ****

28. RED 7 - Red Linear 7
29. GREEN 7 - Green Linear 7
30. BLUE 7 - Blue Linear 7
31. UV 7 - Ultraviolet Linear 7
32. FAN CONTROL - Fan Control

15 – DMX PROTOCOL

8 - CHANNEL DMX MODE

DMX channel	Function	DMX Value	Effect
1	Dimmer	0-255	Linear from 0% to 100%
2	Red	0-255	Linear from 0% to 100%
3	Green	0-255	Linear from 0% to 100%
4	Blue	0-255	Linear from 0% to 100%
5	UV	0-255	Linear from 0% to 100%
6	Shutter/Strobe	000-015 016-214 215-255	Open Strobe from 1 to 25 Flashes/Sec. Random strobe
7	Dimmer Mode	000-009 010-059 060-084 085-109 110-134 135-159 160-184 185-209 210-255	No Feature Dimmer mod 1 Dimmer mod 2 Dimmer mod 3 Dimmer mod 4 Dimmer mod 5 Dimmer mod 6 Dimmer mod 7 Dimmer mod 8
8	Fan Control	000-127 128-255	Fan Auto On Theatre Mode (Fan Off)

15 – DMX PROTOCOL

32 - CHANNEL DMX MODE

DMX channel	Function	DMX Value	Effect
1	Dimmer	0-255	Linear from 0% to 100%
2	Shutter/Strobe	000-015 016-214 215-255	Open Strobe from 1 to 25 Flashes/Sec. Random strobe
3	Dimmer Mode	000-009 010-059 060-084 085-109 110-134 135-159 160-184 185-209 210-255	No Feature Dimmer mod 1 Dimmer mod 2 Dimmer mod 3 Dimmer mod 4 Dimmer mod 5 Dimmer mod 6 Dimmer mod 7 Dimmer mod 8
4	Red 1	0-255	Linear from 0% to 100%
5	Green 1	0-255	Linear from 0% to 100%
6	Blue 1	0-255	Linear from 0% to 100%
7	UV 1	0-255	Linear from 0% to 100%
8	Red 2	0-255	Linear from 0% to 100%
9	Green 2	0-255	Linear from 0% to 100%
10	Blue 2	0-255	Linear from 0% to 100%

15 – DMX PROTOCOL

32 - CHANNEL DMX MODE

DMX channel	Function	DMX Value	Effect
11	UV 2	0-255	Linear from 0% to 100%
***	***	***	Linear from 0% to 100%
28	Red 7	0-255	Linear from 0% to 100%
29	Green 7	0-255	Linear from 0% to 100%
30	Blue 7	0-255	Linear from 0% to 100%
31	UV 7	0-255	Linear from 0% to 100%
32	Fan Control	000-127 128-255	Fan Auto On Theatre Mode (Fan Off)

16 – WARRANTY CARD

Product Information

- Model: LEDBAR 424 RGB+UV
- Serial Number:
- Date of Sale:
- Seller:

2. Warranty Conditions

- The warranty is valid for 12 months from the date of purchase.
- It covers factory defects and malfunctions not caused by external factors.
- Warranty repairs are carried out at authorized service centers.

3. The warranty does not cover:

- Mechanical damage caused by improper handling.
- Breakdowns caused by incorrect connections or network overloads.
- Ingress of moisture, dust, or foreign objects inside the device.
- Unauthorized repairs and modifications.

16 – WARRANTY CARD

4. Service Conditions

- To obtain warranty repairs, you must provide the completed warranty card and a receipt or other payment document.
- The repair time depends on the complexity of the malfunction.

5. Service Center Contact Information

- Address: Petropavlovsk, Abay St. 29, Office 301
- Phone: +7 (7152) 63 04 04
- WhatsApp: +7(776) 2390086
- Email: info@prstage.pro

- Customer's signature: _____

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