

# STD-LINE



PAR 543 RGBW

PAR

User manual

**R** STAGE

PRSTAGE.PRO

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## 1 – INTRODUCTION TO THE MANUAL

Welcome to the PAR 543 RGBW user manual. This document provides information on setup, operation, and maintenance of the unit.

## 2 – GENERAL WARNING

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

This appliance is not intended for household use and should be installed by a qualified electrician or other experienced professional.

 This appliance must be properly grounded.

## 3 – GENERAL WARRANTY TERMS

The device is guaranteed for 12 months from the date of purchase against manufacturing defects in materials and workmanship.

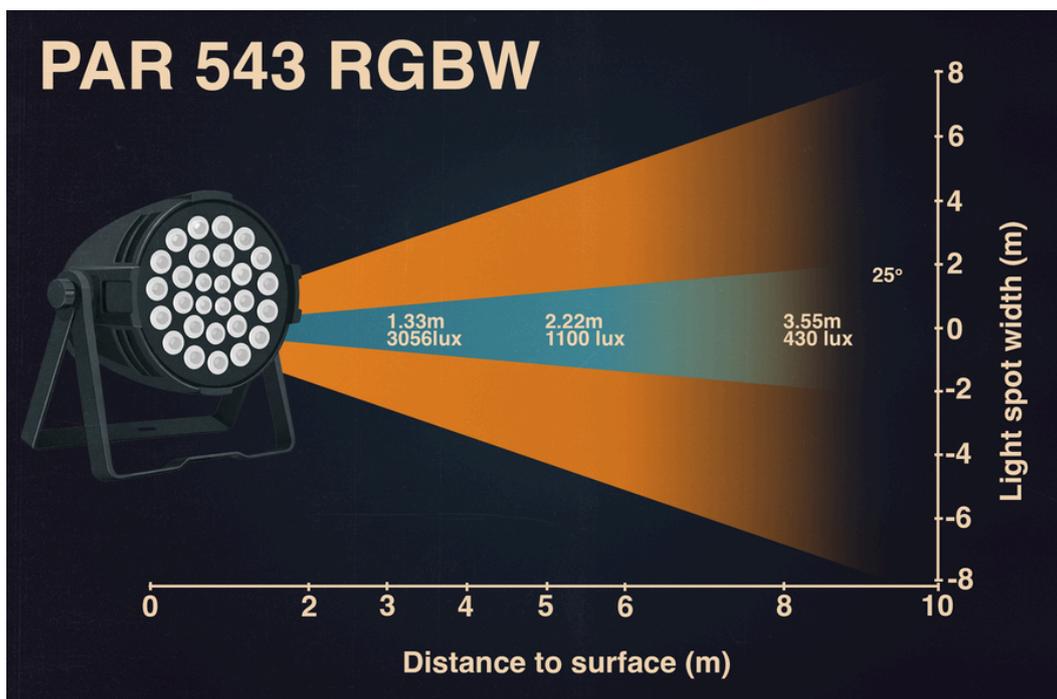
## 4 – TECHNICAL SPECIFICATIONS

### Light source:

- LED: 200 W (RGBW)
- CRI: RA>60

### Optical system

- Beam angle: 25°



## 4 – TECHNICAL SPECIFICATIONS

The **PAR 543 RGBW** is a budget-friendly, all-purpose spotlight with 54 3W RGBW LEDs, providing clean, accurate color rendering and soft, uniform light.

The fixture is ideal for theater productions, concert halls, cultural centers, and restaurants.

The PAR 543 RGBW is designed specifically for stage lighting, where flexible control and high-quality light output are essential in a budget-friendly solution. It delivers 1020 Lux at a 60° angle of 5 meters.

### **PAR 543 RGBW Features::**

- 25° beam angle.
- RGBW allows for precise rendering of any color.
- Compact size.
- Intuitive menu with a backlit graphic LCD touchscreen.
- Operating voltage: 100-240 V.

### **Dimmer/Strobe**

- Linear dimmer.
- Strobe frequency from 1 flash/sec to 25 flashes/sec.

### **Colors**

- The fixture contains 54 LEDs with 4 RGBW colors: Red, Green, Blue, and White.

### **DMX and Control**

- 4 or 8 DMX channels (default).
- RDM Manufacture ID: 05ACh
- RDM Model ID: 8004
- RDM Name: PAR 543 RGBW

### **Connections**

- 2 XLR connectors:
  - 3-pin DMX In/Out.
- Power In/Out connector.

## 4 – TECHNICAL SPECIFICATIONS

### Power Supply

- Voltage: 100–240 V (50/60 Hz).
- Power consumption: 170 W.

### Interface

- Graphic touchscreen LCD with backlight.

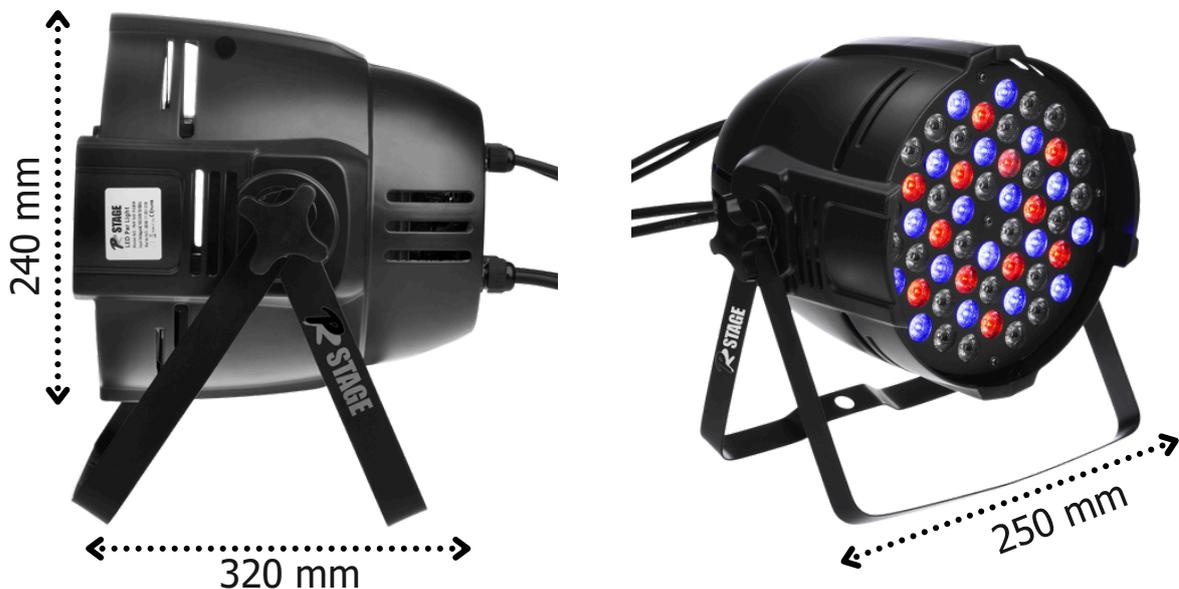
### Weight

- Unpackaged: 2.8 kg.

### Dimensions

- Unpackaged: 250 x 240 x 320 mm.

Operating ambient temperature: -10°C to +40°C.



## 5 – PACKAGE CONTENTS

### Standard Package Includes

- 1× PAR 543 RGBW Floodlight.
- 2× Male/Female Power Connectors (Male/Female).
- 1× 3-Pin Male XLR Connector (Male).
- 1× 3-Pin Female XLR Connector (Female).
- User Manual.

## 6 – IMPORTANT SAFETY INFORMATION



### 6.1. Fire Prevention:

Never install the fixture on flammable surfaces.

Minimum distance from flammable materials: 1.5 m.

Minimum distance to the nearest illuminated surface: 2 m.

Replace blown or damaged fuses only with ones of the same rating.

Connect the fixture to the mains supply only through a thermal automatic circuit breaker.



### 6.2. Prevention of Electric Shock:

High voltage is present inside the unit. Before performing any work involving contact with internal components, disconnect the fixture from the mains power supply.

Due to the high technological complexity of the PAR 543 RGBW, servicing must be carried out only by qualified specialists. Contact an authorized PRstage service center.

Proper grounding is required for correct operation of the fixture.

Never connect the unit without proper grounding.

The fixture must be installed in areas with good ventilation.



### 6.3. Protection from Bright Radiation:

Never look directly into the fixture when it is turned on.



### 6.4. Safety:

The fixture must always be installed using bolts, clamps, and other fastening elements capable of supporting its weight.

Always use an additional safety cable to secure the fixture in case the primary mounting fails.

The external surface of the unit may reach temperatures exceeding 70°C in certain areas. Do not touch the fixture for at least 10 minutes after it has been switched 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 Ingress of Solid Particles and Liquids:

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



## 7 – VOLTAGE AND FREQUENCY

- PAR 543 RGBW can operate within a voltage range of 100–240 V at a frequency of 50 or 60 Hz.

## 8 – INSTALLATION

- PAR 543 RGBW can be installed either on a stand or suspended using a clamp.

### Stand Installation:

- Mount the fixture using the central mounting hole (Fig. 1)

### Clamp Installation:

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



### Safety Cable:

- It is recommended to use a safety cable (not included) when the fixture is installed in a suspended configuration.

## 8 – INSTALLATION

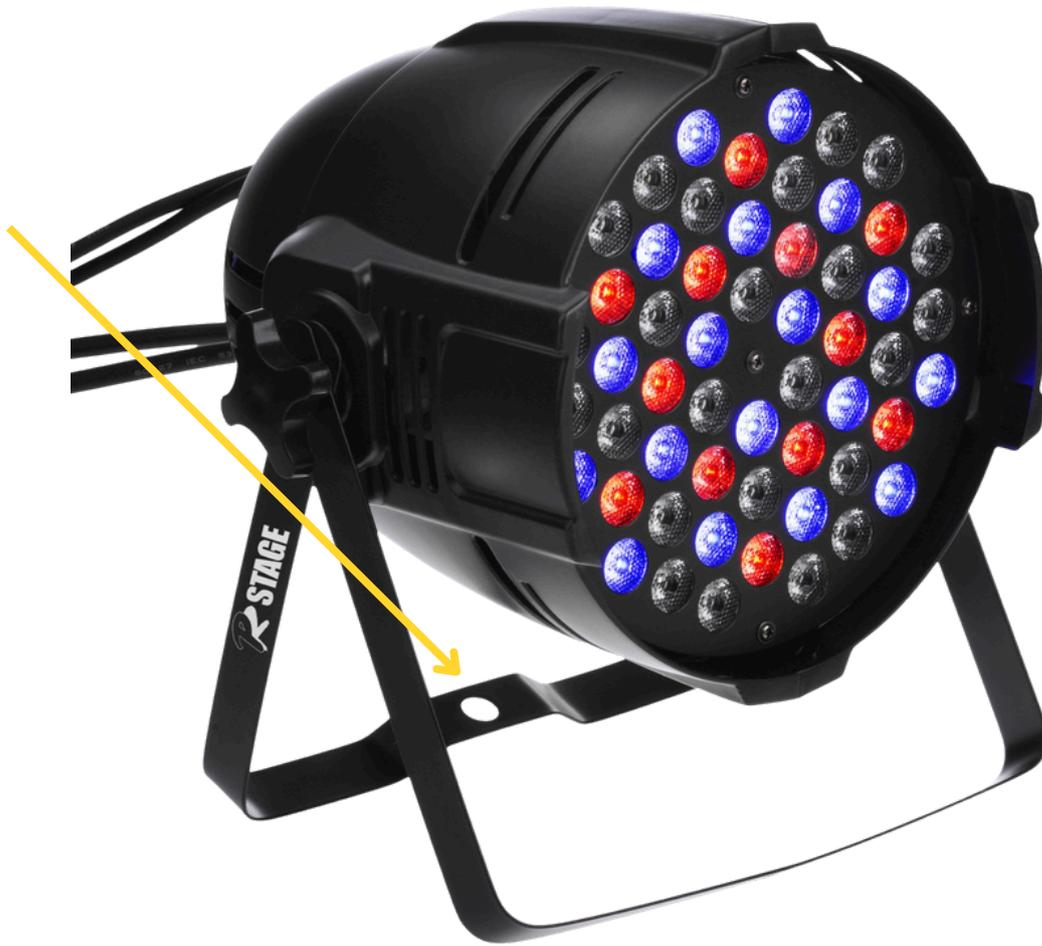


Fig.1



Fig.2



## 8.2 – PROTECTION AGAINST LIQUIDS

- The projector contains electrical and electronic components that must under no circumstances come into contact with oil, water, or other liquids.
- If liquid enters the unit, its operation may be impaired.

## 8.3 – FORCED VENTILATION

- When inspecting the unit, you will notice that it is equipped with air intake openings and cooling fans located at the base and on the head of the fixture.
- Under no circumstances should these openings be blocked or covered while the projector is in operation.
- Blocking the ventilation may cause serious overheating, which can lead to malfunction of the unit.

## 9 – MAINS CONNECTION

- PAR 543 RGBW operates within a voltage range of 100–240 V at a frequency of 50–60 Hz.
- Before connecting the fixture to the power supply, ensure that the mains voltage corresponds to the device model.

### For connection:

- Make sure that the plug supports a load of 8 A at 230 V or 16 A at 100–120 V.

## 10 – DMX SIGNAL CONNECTION

The fixture operates using the DMX-512 digital protocol.

### DMX Connection

- The connection between the DMX controller and the fixture, or between multiple fixtures, must be made using a shielded twisted pair cable (ø 0.5 mm) and XLR connectors (3-pin or 5-pin).
- Ensure that the conductors do not come into contact with each other.
- Do not connect the cable ground to the XLR connector housing — the housing must remain isolated.
- Connect the DMX output 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.

## 10 – DMX SIGNAL CONNECTION

### DMX Errors

- If the fixture does not respond to the DMX signal, this indicates one of the following problems:
- No DMX signal.
- DMX receiver error.
- The fixture address is set incorrectly.

### Using a DMX Terminator

- For installations with long DMX cables, it is recommended to use a DMX terminator.
- A terminator is an XLR plug (3 or 5 pins) with a 120 ohm resistor between pins 2 and 3.
- The DMX terminator should be connected to the DMX OUT port of the last fixture in the chain.

### 10.1 – DMX ADDRESSES

- The PAR 543 RGBW 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 set the DMX address for the next fixture, simply add 8 to the previous address.

### 10.2 – SELECTING A DMX ADDRESS



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

**10.3 – SETTING THE ADDRESS USING RDM**



- The PAR 543 RGBW spotlight supports RDM (Remote Device Management).
- Important: If your console supports RDM, you can set the fixture's address using the console.
- Contact the manufacturer to confirm whether your console supports RDM.

**Note:**

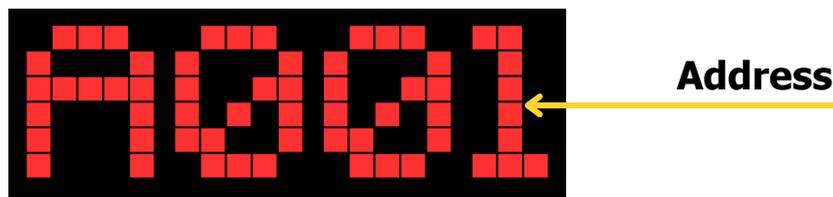
- All devices on the network, including ART-NET, sCAN, and others, must support RDM signal transmission.

**11 – DISPLAY FUNCTIONS**

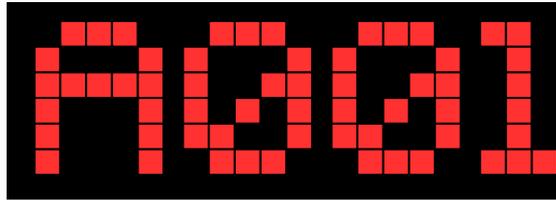
- The PAR 543 RGBW display shows all available functions. These functions allow you to change the fixture's parameters and add additional options.
- Important: Changing the PAR 543 RGBW settings may alter the fixture's functionality, causing it to stop responding to DMX control.
- Before making any changes, carefully follow the instructions below.

**Note:**

- The display shows the button icons  that must be pressed to select the desired function.



## 12 – “DMX” MENU




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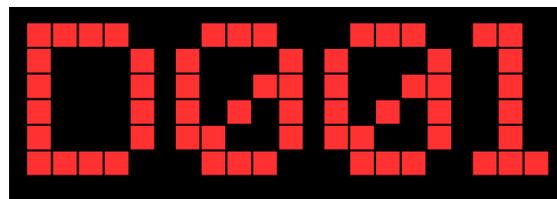
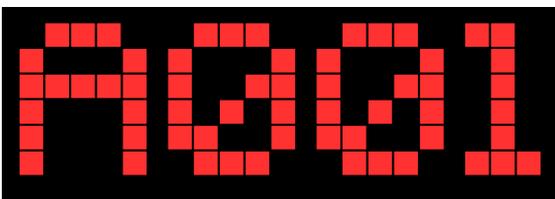
### DMX Address - Address Selection

- Press  ENTER and use the  +/- buttons to select the desired address.
- Press  ENTER to confirm the device address.
- The default device address is 001.

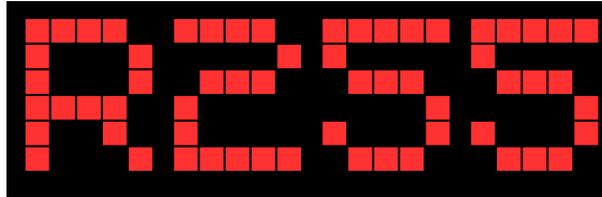
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### DMX MODE - Select DMX mode

- Press  ENTER and use the  +/- buttons to select the desired mode.
- Press  ENTER to confirm the device mode.
- A001 - 10-channel mod
- D001 - 5-channel mod

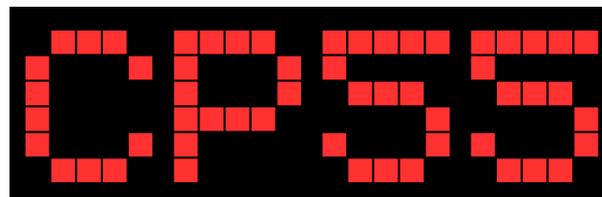


## 12 – “DMX” MENU



### Manual

- Press  ENTER and use the  +/- buttons to select the desired parameter.
- Press  ENTER to select the parameter.
- Use the  +/- buttons to select a value from 0 to 255.
- Press ENTER or to confirm.
- To exit, press MENU



### Modes:

- CC 99 - Sharp color change.
- FH 99 - Slow to fast strobe.
- CL01 - 8 preset colors.
- CP 99 - Smooth color gradient change.
- dE 99 - Color fade.
- SU01 - External sound/music mode.

## 13 – PERIODIC CLEANING

### 13.1 – Lenses and Reflectors

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

### 13.2 – Fans and Vents

- Fans and vents should be cleaned approximately every 6 weeks.
- The frequency of cleaning depends on the operating conditions of the projector.

#### **For cleaning, you can use:**

- A brush
- A standard vacuum cleaner
- Air compressor
- If the unit operates in a dusty environment, clean the fans and vents more frequently.

## 14 – PERIODIC CHECKS

### **Caution!**

**Before removing the housing, unplug the device.**

#### **Mechanical Components**

- Periodically inspect all mechanical components:
  - Gears
  - Guides
  - Belts and other moving parts
- Replace worn parts as necessary.
- Check the lubrication of all components, especially those exposed to high temperatures.
- Use the appropriate lubricant recommended by PRstage.
- Check belt tension and adjust if necessary.

#### **Electrical Components**

- Check grounding and proper connection of all connectors.
- Tighten any loose connections.

## **14 – PERIODIC CHECKS**

### **Replacing the Fuse**

The fuse protecting the lamp and electronic components is located in the base of the PAR 543 RGBW.

Check the fuse with a multimeter.

If the fuse is blown, replace it with one of the same rating.

### **Caution!**

**During the warranty period, disassembling the device is prohibited!**

**This may result in warranty denial!**

## **15 – DMX PROTOCOL**

### **4 - CHANNEL DMX MODE**

1. RED - Red color
2. GREEN - Green color
3. BLUE - Blue color
4. WHITE - White color

### **8 - CHANNEL DMX MODE (DEFAULT)**

1. DIMMER - Dimmer
2. SHUTTER - Shutter
3. COLOR MACRO - Color Macros
4. COLOR MACRO RATE - Macro Speed
5. RED - Red color
6. GREEN - Green color
7. BLUE - Blue color
8. WHITE - White color

**15 – DMX PROTOCOL  
MODE 1 – 4 CHANNEL DMX MODE**

DMX channel	Parameter	DMX meaning	Function
1	Red	0-255	Linear from 0% to 100%
2	Gren	0-255	Linear from 0% to 100%
3	Blue	0-255	Linear from 0% to 100%
4	White	0-255	Linear from 0% to 100%

We recommend creating a virtual dimmer and setting the Relation to all colors; this will make using the spotlight more comfortable.

For instructions on how to do this, refer to your console's manual or visit your console manufacturer's website.

**15 – DMX PROTOCOL  
MODE 2 – 8 CHANNEL DMX MODE**

DMX channel	Parameter	DMX meaning	Function
1	Dimmer	0-255	Linear from 0% to 100%
2	Shutter	000-004 005-255	Open Strobe from 1 to 25 flashes/sec.
3	Color macro	000-050 051-100 101-150 151-200 201-255	Open Colors, color changes are done using channel 4 Jump Gradient Pulse
4	Color macro rate	0-255	Linear from 0% to 100%
5	Red	0-255	Linear from 0% to 100%
6	Gren	0-255	Linear from 0% to 100%
7	Blue	0-255	Linear from 0% to 100%
8	White	0-255	Linear from 0% to 100%

## 16 – WARRANTY CARD

### 1. Product Information

- Device Model: PAR 543 RGBW
- Serial Number:
- Sale Date:
- Seller:

### 2. Warranty Terms

- The warranty is valid for 12 months from the date of purchase.
- Covers manufacturing 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 careless handling.
- Failures caused by improper connection or power supply overloads.
- Ingress of moisture, dust, or foreign objects into the device.
- Independent repairs and modifications.

### 4. Terms of Service

- For warranty repairs, you must provide a completed warranty card and a receipt or other payment document.
- Repair time depends on the severity of the problem.

### 5. Service Center Contact Information

- 📍 • Address: Petropavlovsk, Abay Street 29, Office 301
- ☎️ • Phone: +7 (7152) 63 04 04
- 📞 • What'sApp: +7 (776) 2390086
- ✉️ • Email: info@prstage.pro
- Seller's Seal: \_\_\_\_\_
- Buyer's Signature: \_\_\_\_\_

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