# STD-LINE

## COB 200 RGBW

COB

User Manual

PRSTAGE.PRO

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## 1 – INTRODUCTION

Welcome to the COB 200 RGBW User Manual. This document provides information on the setup, operation, and maintenance of the device

## 2 – GENERAL SAFETY WARNING

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

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

⚠ 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: 200 W (RGBW)
- CRI: RA>60

**Optical System:**

- Beam angle: 60°

## 4– ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

**The COB 200 RGBW** is a budget-friendly, all-purpose spotlight with a 200W RGBW LED, delivering clean, accurate color rendering and soft, uniform light.
The fixture is ideal for theater productions, concert halls, cultural centers, and restaurants.
The COB 200 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.

**COB 200 RGBW Features:**

- 60° beam angle.
- RGBW accurately renders any color.
- Compact size.
- Barndoors.
- Intuitive menu with a backlit graphic LCD touchscreen.
- Operating voltage: 100-240 V.

**Dimmer / Strobe:**

- Linear dimmer
- Stroboscope with a frequency from 1 flash/sec to 25 flashes/sec.

## 4 – TECHNICAL SPECIFICATIONS

### Colors

- The fixture features a COB LED with 5 RGB@ colors: Red, Green, Blue, and White.

### DMX and Control

- 4 or 8 DMX channels (default).
- RDM Manufacture ID: 05ACh
- RDM Model ID: 8221
- RDM Name: CON 200 RGBW

### Connections

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

### Power Supply

- Voltage: 100–240 V (50/60 Hz).
- Power Consumption: 220 W.

### Operating ambient temperature

- From -10°C to +40°C.

## 4 – TECHNICAL SPECIFICATIONS

### Interface

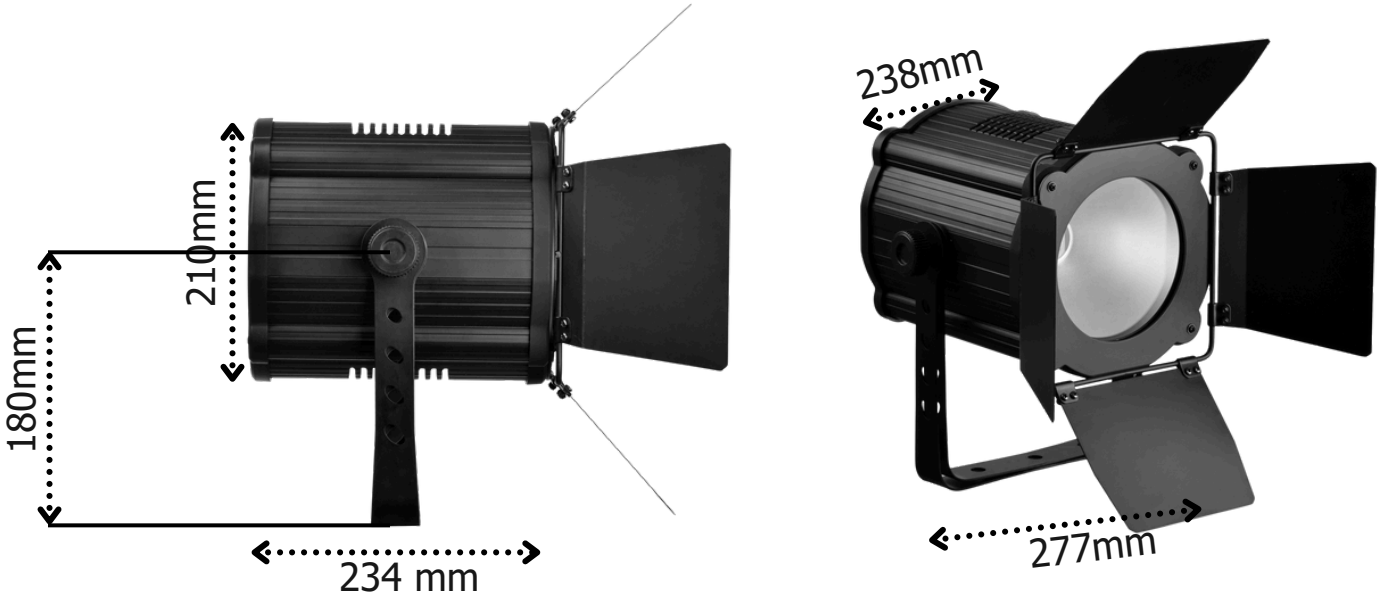
- Graphic touchscreen LCD display with backlight.

### Weight

- Unpackaged: 6 kg
- Packaged: 8 kg

### Dimensions:

- Unpackaged: 234 x 238 x 210 mm
- Packaged: 500 x 500 x 375 mm




## 5 – PACKAGE CONTENTS

### Standard Package Includes:

- 1 × COB 200 RGBW spotlight
- 1 × POWERCON male connector (plug)
- 1 × 3-pin XLR male connector (plug)
- 1 × 3-pin XLR female connector (socket)
- 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.
- Burnt or damaged fuses must be replaced only with fuses of the same rating.
- Connect the fixture to the power supply only through a thermal automatic circuit breaker.

### 6.2. Electric Shock Prevention:

- High voltage is present inside the device. Before performing any work involving contact with internal components, disconnect the fixture from the power supply.
- Due to the high level of technical complexity of the COB 200 RGBW, servicing must be carried out only by qualified personnel. Contact an authorized PRstage service center.
- Proper grounding is required for correct operation of the fixture.
- Never connect the device without proper grounding.
- The fixture must be installed in locations with good ventilation.

### 6.3. Protection from Bright Radiation:

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

### 6.4. Safety:

- The spotlight must always be installed using bolts, clamps, and other mounting hardware capable of supporting its weight.
- Always use an additional safety cable to secure the fixture in case the primary mounting fails.
- The outer surface of the fixture may reach temperatures above 70 °C in certain areas. Do not touch the device 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 Solid Objects and Liquids:

- The spotlight is classified as standard equipment with an IP20 protection rating, which means it provides no protection against dust or moisture.
- For outdoor use, PRstage recommends using special rain covers or dedicated fixtures designed with protection against the ingress of liquids or solid particles. For more details, please contact a PRstage specialist.

## ⚠ 7 – VOLTAGE AND FREQUENCY

- The COB 200 RGBW operates within a voltage range of 100–240 V at a frequency of 50 or 60 Hz.

## 8 – INSTALLATION

- The COB 200 RGBW can be installed either on a stand or suspended using a clamp.

### Stand Mounting:

- Mount the fixture using the central mounting hole (see Fig. 1, p. 9).

### Clamp Mounting:

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

## 8 – INSTALLATION

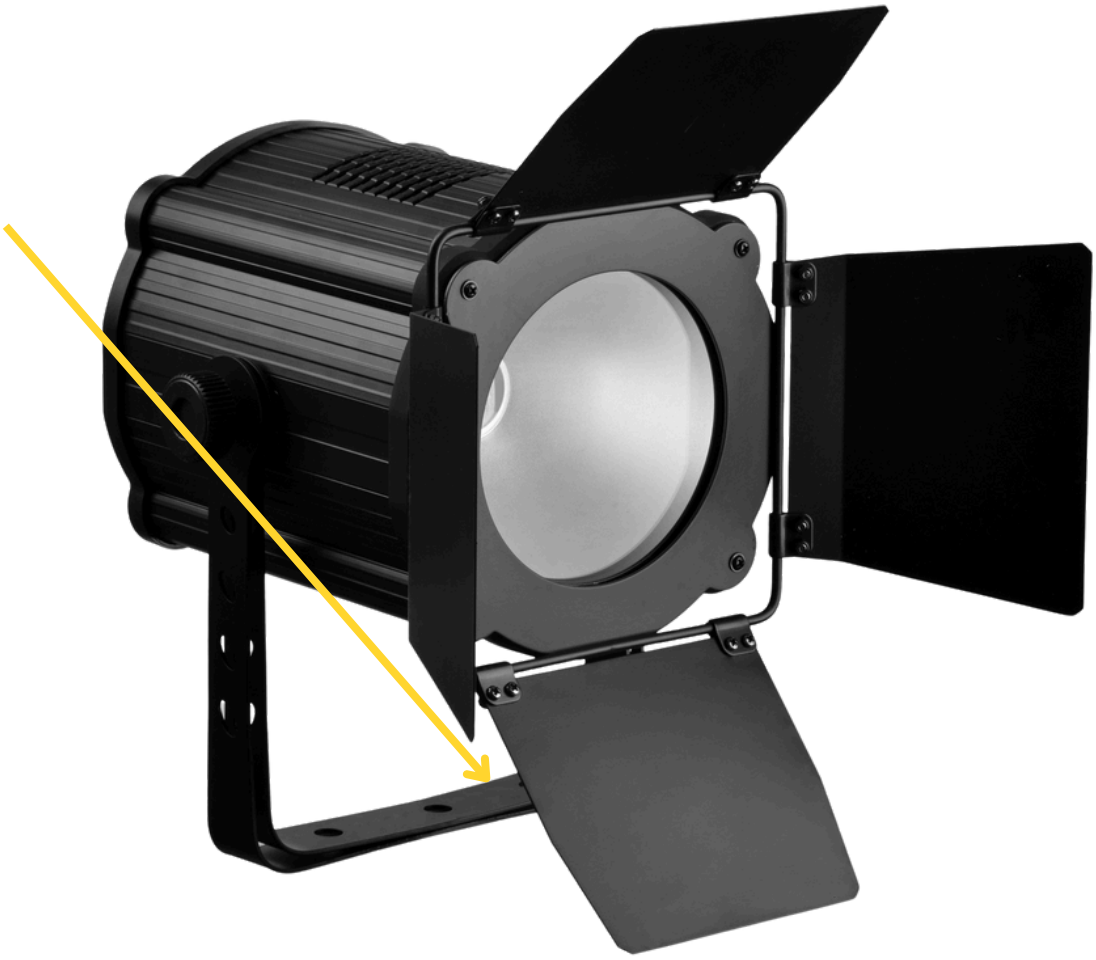


Fig.1

Fig.2

## 8.2 – PROTECTION AGAINST LIQUIDS

- The spotlight contains electrical and electronic components that must never come into contact with oil, water, or any other liquids.
- Exposure to liquids may cause the device to malfunction.

## 8.3 – FORCED VENTILATION

- When inspecting the device, you will notice that it is equipped with air intake vents and cooling fans located in the base and the head of the fixture.
- Never block or cover these vents while the spotlight is in operation.
- Doing so may cause serious overheating of the device, which can lead to malfunction.

## 9 – POWER CONNECTION

- The COB 200 RGBW operates within a voltage range of 100–240 V at a frequency of 50–60 Hz.
- Before connecting the fixture to the mains power, ensure that the supply voltage matches the device's specifications

**Connection Instructions:**

- Make sure the plug can handle a current 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.

**1. DMX Connection**

- The connection between a DMX controller and the fixture, or between multiple fixtures, must be made using a shielded twisted pair cable (Ø 0.5 mm) with XLR connectors (3- or 5-pin).
- Ensure that the conductors do not touch each other.
- Do not connect the cable shield 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 configuration.

## 10 – DMX SIGNAL CONNECTION

### 2. DMX Errors

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

- No DMX signal is present.
- DMX receiver malfunction.
- Incorrect fixture address setting.

### 3. 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-pin) with a 120 Ω resistor connected between pins 2 and 3.
- The DMX terminator should be connected to the DMX OUT of the last fixture in the chain.

## 10.1 – DMX ADDRESSES

- The COB 200 RGBW мcan be controlled in an 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 a DMX address to the next fixture, simply add 8 to the previous address.

## 10.2 – SELECTING A DMX ADDRESS

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

## 10.3 – SETTING THE ADDRESS VIA RDM

- The COB 200 RGBW fixture supports the RDM (Remote Device Management) function.
- Important: If your console supports the RDM function, you can set the fixture address directly from the console.
- Please check with the console manufacturer to confirm whether RDM is supported.

**Note:**

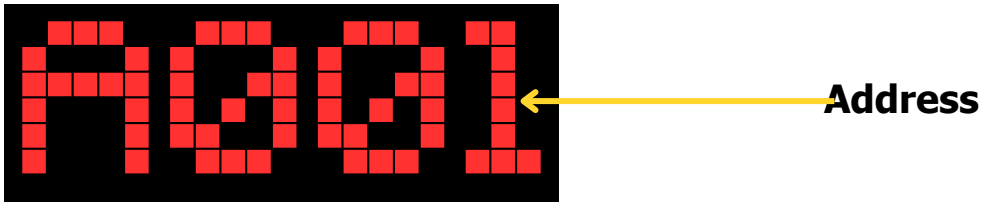
- All devices in the network, including ART-NET, sACN, and others, must support RDM signal transmission.

## 11 – DISPLAY FUNCTIONS

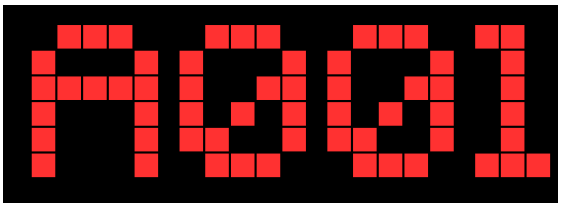
- The COB 200 RGBW display shows all available functions. Using these functions, you can change the device parameters and add additional options.
- Important: Changing the settings of the COB 200 RGBW may alter the fixture's functionality, which may result in it no longer responding to DMX control.
- Before making any changes, carefully follow the instructions below.

**Note:**

- The display shows button symbols ☞ indicating which buttons must be pressed to select the desired function.



## 12 – "DMX" MENU FUNCTIONS

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**DMX Address – Address Selection**

- Press ENTER, then use the + / – buttons to select the desired address.
- Press ENTER to confirm the device address.
- By default, the fixture address is set to 001.

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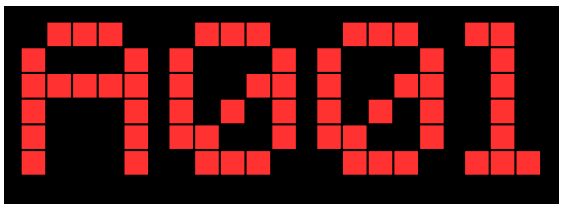
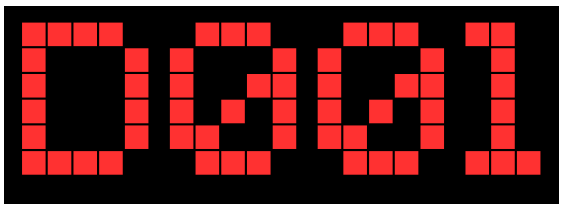
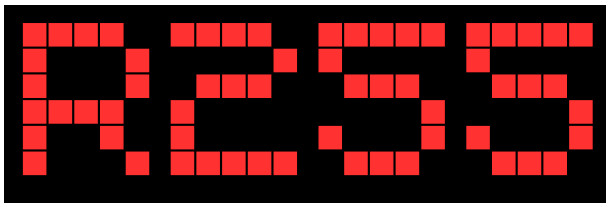
**DMX MODE – DMX Mode Selection**

- Press ENTER, then use the + / – buttons to select the desired mode.
- Press ENTER to confirm the device mode.
- A001 – 11-channel mode
- D001 – 6-channel mode



## 12 – "DMX" MENU FUNCTIONS

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**Manual**

- Press ENTER, then 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 to confirm.
- To exit, press MENU.

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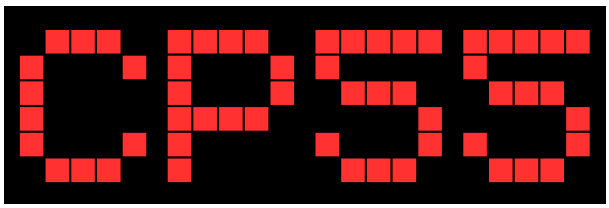


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**Modes:**

- CC 99 – Abrupt color change.
- CP 99 – Smooth color change with gradient transition.
- dE 99 – Color change with fade-in / fade-out transitions.
- S0und – Operation mode controlled by external sound/music.

## 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 using a soft cotton cloth moistened with a special cleaning solution.

### 13.2 – Fans and Ventilation Openings

Fans and ventilation openings should be cleaned approximately every 6 weeks.
The cleaning frequency depends on the operating conditions of the fixture.
For cleaning, you may use:

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

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

## 14 – PERIODIC INSPECTIONS

**Warning!**
**Disconnect the fixture from the power supply before removing the housing.**

### Mechanical Components

Periodically inspect all mechanical components, including:

- Gears
- Guide rails
- Belts and other moving parts

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

### Electrical Components

Check grounding and ensure all connectors are properly connected.
If any loose connections are found, tighten them.

## 14 – PERIODIC INSPECTIONS

### Fuse Replacement

- The fuse protecting the lamp and electronic components is located in the base of the COB 200 RGBW.
- Check the fuse condition using a multimeter.
- If the fuse is blown, replace it with one of the same rating.

**Warning!**
**During the warranty period, do not disassemble the fixture!**
**Doing so may result in voiding the warranty service.**

## 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 – 5-CHANNEL DMX MODE

| DMX Channel | Parameter | DMX Value | Function |
|---|---|---|---|
| 1 | Dimmer Virtual | 0-255 | Linear From 0% to 100% |
| 2 | Red | 0-255 | Linear From 0% to 100% |
| 3 | Gren | 0-255 | Linear From 0% to 100% |
| 4 | Blue | 0-255 | Linear From 0% to 100% |
| 5 | White | 0-255 | Linear From 0% to 100% |

## 15 – DMX PROTOCOL
## MODE 2 – 8-CHANNEL DMX MODE

| DMX Channel | Parameter | DMX Value | Function |
|---|---|---|---|
| 1 | Dimmer | 0-255 | Linear<br>From 0% to 100% |
| 2 | Shutter | 0-4<br>5-255 | Open<br>Strobe from 0 to 25 flashes/sec |
| 3 | Color macro | 0-100<br>101-150<br>151-200<br>201-255 | Open<br>Macro 1<br>Macro 2<br>Macro 3 |
| 4 | Color macro rate | 0-255 | Linear<br>From 0% to 100% |
| 5 | Red | 0-255 | Linear<br>From 0% to 100% |
| 6 | Gren | 0-255 | Linear<br>From 0% to 100% |
| 7 | Blue | 0-255 | Linear<br>From 0% to 100% |
| 8 | White | 0-255 | Linear<br>From 0% to 100% |

## 16 – WARRANTY CERTIFICATE

### 1. Product Information

- Fixture Model: COB 200 RGBW
- Serial Number:
- Date of Sale:
- Seller:

### 2. Warranty Terms

- 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. Warranty Does Not Cover:

- Mechanical damage caused by careless handling.
- Malfunctions caused by incorrect connection or power overloads.
- Ingress of moisture, dust, or foreign objects into the device.
- Unauthorized repairs and modifications.

## 16 – WARRANTY CERTIFICATE

### 4. Service Conditions

- For warranty repair, you must provide the completed warranty certificate and a receipt or other proof of purchase.
- 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
- Seller’s Stamp: _____
- Buyer’s Signature: _____

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Ver 1.1 от 11.11.2025