

PRO-LINE



Dimmer Pack 4

Dimmer
User manual

R STAGE

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1 – INTRODUCTION TO THE MANUAL

Welcome to the Dimmer Pack 4 User Manual.

This document provides information on setting up, operating, and maintaining the device.

2 – GENERAL WARNING

-  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 residential use and should be installed by a qualified electrician or experienced professional.
The device must be properly grounded.

3 – GENERAL WARRANTY TERMS

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

4 – TECHNICAL SPECIFICATIONS

Number of dimmer channels:

- 4 pcs.

Operating modes:

- Dimmer.
- Switch.
- DMX-512.
- Built-in dimmer programs.

The Dimmer Pack 4 is one of the most compact mobile dimmers with a total current consumption of 20A across all channels.

Thanks to its advanced and compact dimmer system, it can be used in virtually any project.

The Dimmer Pack 4 is ideal for professional applications, both mobile (concerts, shows, tours, special events) and permanent (clubs, concert venues), requiring a dimmer with versatile functionality.

4 – TECHNICAL SPECIFICATIONS

Dimmer Pack 4 Features:

- Number of Channels: 4
- Operating Modes: Dimmer/Switch
- Load up to 10A per channel, total load up to 20A
- Dimmer Resolution: 8-bit
- Operating ambient temperature: -10°C to +40°C.

Dimmer/Switch

- Linear Dimmer (8-bit) – up to 4 pcs
- Switch Mode – up to 4 pcs

Effects

- 16 dimming programs with speed and fade mode adjustments

DMX and Control

- 4/5/8 DMX channels
- Dimmer Modes: 4CH (DM4, DM-MFP), 8CH (DM4-MFP) Channels
- Switch Modes: 4CH (SW4), 5CH (SW4-M) Channels

Connections

- 2 XLR Connectors:
 - 3-pin DMX In/Out with RDM support
- Power Cable: 4 mm²

Power supply

- Electronic ballast: 100–240 V (50/60 Hz).
- Power consumption: up to 4400 W.

Interface

- Graphic LCD display with backlight.

Weight

- 2.74 kg.

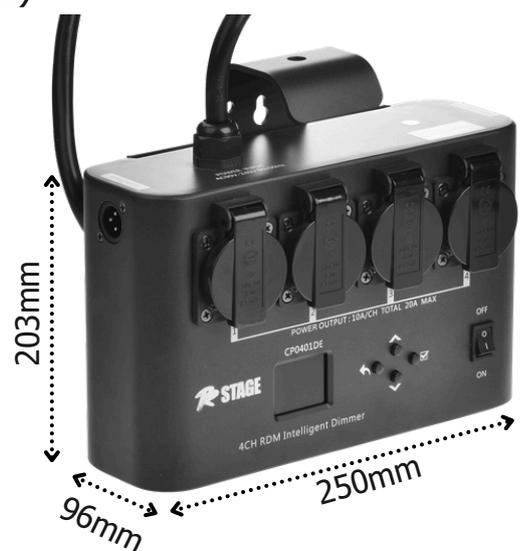
Dimensions:

- Packaged: 300 x 200 x 160 mm
- Unpackaged: 250 x 203 x 96 mm

5 – PACKAGE CONTENTS

Standard Package Includes

- 1× Dimmer Pack 4.
- 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 place the appliance on flammable surfaces.
- Minimum distance from flammable materials: 1.5 m.
- Replace blown or damaged fuses only with fuses of the same rating.
- Connect the appliance to the power supply only through a thermal circuit breaker.



6.2. Preventing Electric Shock:

- High voltage is present inside the device. Before performing any work that involves touching the device's internal components, disconnect it from the power supply.
- The Dimmer Pack 4's sophisticated technology requires servicing by qualified personnel only. Contact an authorized PRstage service center.
- Reliable grounding is essential for proper operation of the device.
- Never connect the device without proper grounding.
- The device must be installed in a well-ventilated area.



6.4. Safety:

- The dimmer must always be installed using bolts, clamps, and other fasteners capable of supporting its weight.
- Always use an additional safety cable to secure the fixture in the event of failure of the primary mount.
- The exterior surface of the fixture may reach temperatures exceeding 50°C in some areas. Do not touch the fixture for at least 10 minutes after turning it off.
- Never install the device in enclosed spaces without adequate air circulation. The ambient temperature must not exceed 40°C.



6.5. Ingress Protection Rating:

- The device is classified as standard equipment with an IP20 protection rating, meaning it is not protected against dust or moisture.
- For outdoor use, PRstage recommends using dedicated rain covers or dedicated devices with protection against liquid or other solid particles. Please contact a PRstage specialist for details.

⚠️ 7 – VOLTAGE AND FREQUENCY

- Dimmer Pack 4 can operate in the 100–240 V range at 50 or 60 Hz.

8 – INSTALLATION

- The Dimmer Pack 4 can be installed on either the floor or the ceiling.
- Ceiling Mounting:
 - It is recommended to use appropriate clamps to secure the unit to the mounting surface (Fig. 1, page 6).
 - The supporting structure to which the unit is suspended must be capable of supporting its weight, as must the mounting hardware used.
- Mounting System:
 - The base of the unit has one mounting point for bolting (not included).



Fig.1

⚠️ 8.1 – SAFETY CABLE

- We recommend using a safety cable connecting the Dimmer Pack 4 to the mounting truss. This will prevent the fixture from falling if the primary mount fails.
- Ensure the metal cable is capable of supporting the weight of the entire fixture.
- You can attach the safety cable to the hole (A) located at the base of the fixture, as shown in the image below (Fig 2, page 7).

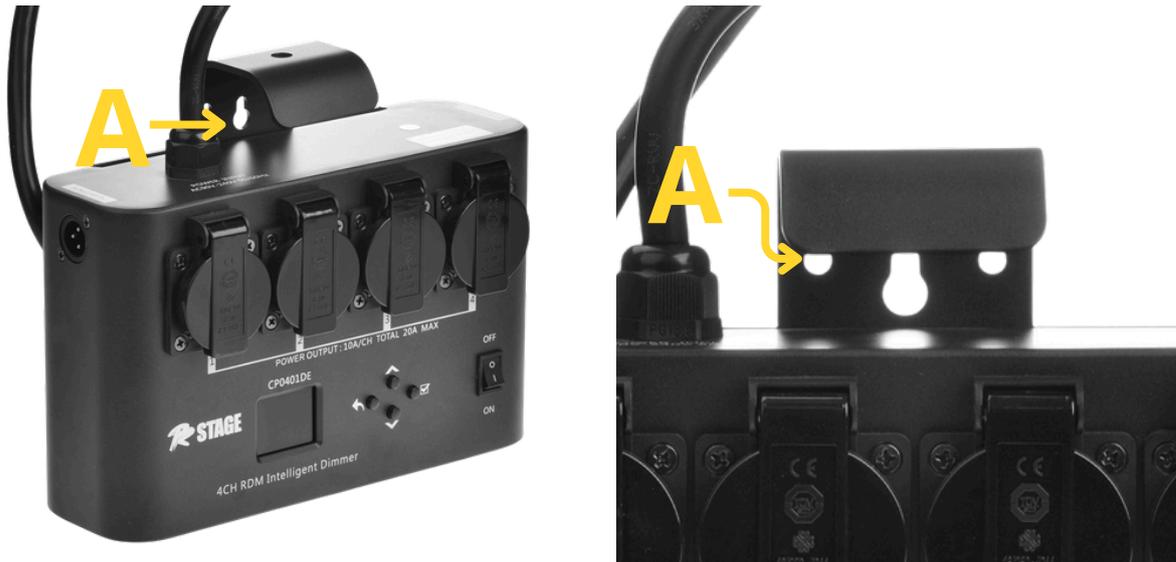


Fig.2

8.2 – LIQUID PROTECTION

- The device contains electrical and electronic components that should never come into contact with oil, water, or other liquids.
- Liquid contact may impair the device's operation.

8.3 – FORCED VENTILATION

- When inspecting the device, you will notice that it is equipped with air intake openings or cooling fans located at the base and head of the device.
- Never block or cover these openings while the projector is operating.
- Doing so may cause the device to overheat, which may result in malfunction.

9 – CONNECTING TO THE POWER SUPPLY

- The Dimmer Pack 4 operates in the 100–240 V AC/50–60 Hz range.
- Before connecting the device to the power supply, ensure that the power supply voltage matches the device model.

To connect:

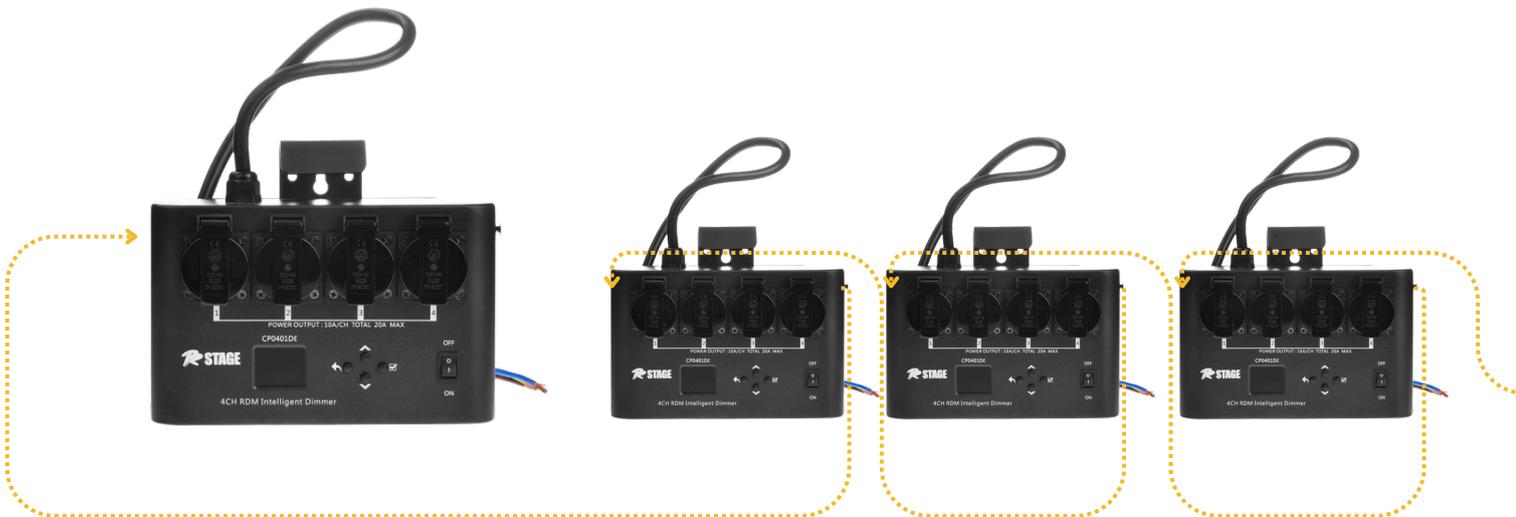
- Make sure the plug supports a load of 20 A at 230 V or 10 A at 100–120 V.

10 – CONNECTING THE DMX SIGNAL

The fixture operates using the DMX-512 digital protocol.

1. DMX Connection

- The connection between the DMX controller and the fixture, or between multiple fixtures, must be made using a shielded two-pair cable (ø 0.5 mm) and XLR connectors (3 or 5 pins).
- Ensure that the wires do not touch each other.
- Do not connect the ground of the cable to the XLR connector housing—the housing must be insulated.
- Connect the controller's DMX output 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.
- This way, all fixtures are cascaded.



2. DMX Errors

- If the green DMX address indicator is not lit, this indicates one of the following problems:
 - No DMX signal.
 - DMX receiver error.

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 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 Dimmer Pack 4 can be controlled in 4-channel DMX mode. If you are using 4-channel mode, set the following addresses on the controller:
- FIXTURE 1 → A001
- FIXTURE 2 → A005
- FIXTURE 3 → A009
- ...
- FIXTURE 6 → A021

To set the DMX address for the next fixture, simply add 4 to the previous address.

10.2 – SELECTING A DMX ADDRESS



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

10.3 – SETTING THE ADDRESS USING RDM



- Dimmer Pack 4 supports RDM (Remote Device Management).
- Important: If your console supports RDM, you can set the device's address using the console.
- Please contact the manufacturer to confirm whether your console supports RDM.

Note:

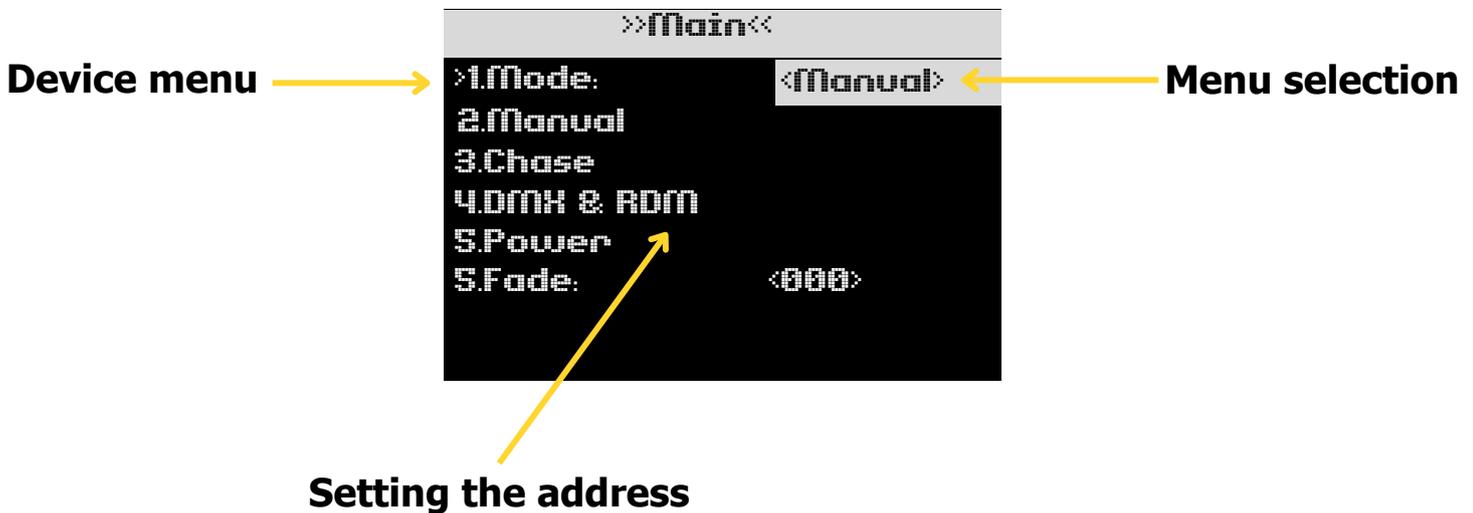
All devices on the network, including ART-NET, sCAN, and others, must support RDM signal transmission.

11 – DISPLAY FUNCTIONS

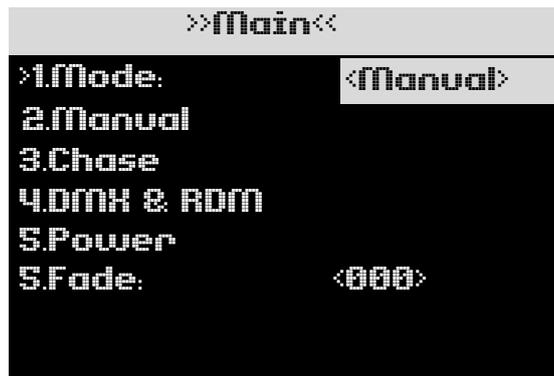
- The Dimmer Pack 4 display shows all available functions. These functions allow you to change the device's parameters and add additional options.
- Important: Changing the Dimmer Pack 4 settings may alter the fixture's functionality, causing it to stop responding to DMX control.
- Before making any changes, carefully follow the instructions below.

Note:

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



12 – “MENU” FUNCTIONS



Mode - Dimmer operating mode

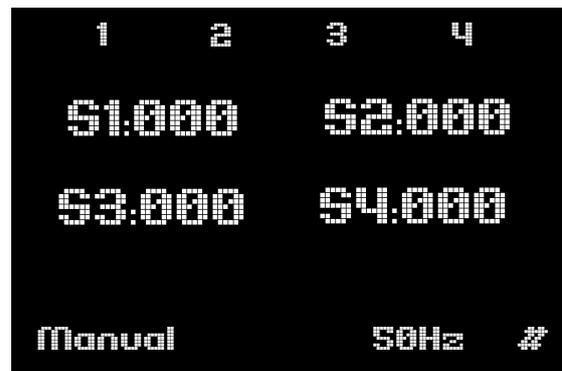
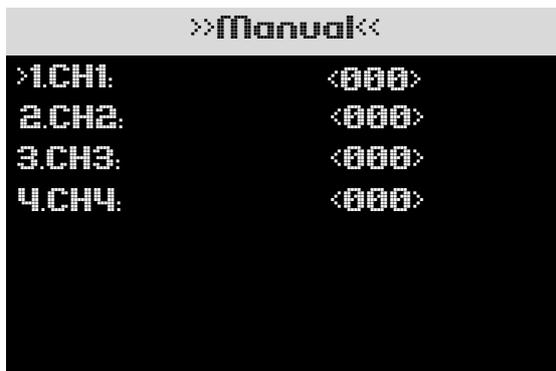
- Press OK and use the UP/ Down buttons to select the desired mode.
- Press Enter to confirm the operating mode.

3 available modes:

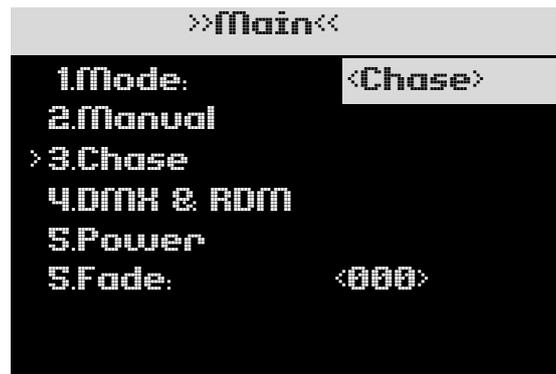
- Manual
- DMX
- Chase (Effects/Programs)

Manual - Manual mode

- Press OK and use the UP/ Down buttons to select the desired parameter.
- Press Enter to confirm the channel value.



12 – “MENU” FUNCTIONS



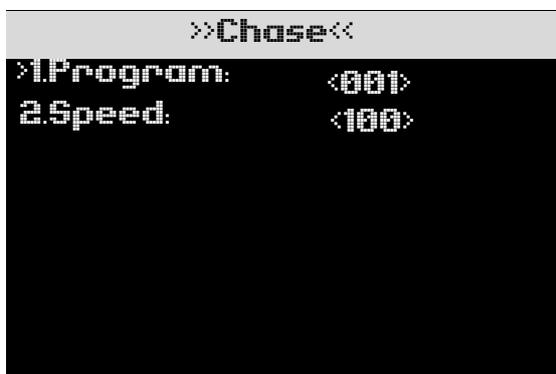
Chase - Built-in Program Mode

- 

 Press OK and use the UP/Down buttons to select the desired mode.
- 
 Press Enter to confirm the operating mode.

16 available modes:

- | | |
|------------------------|------------------------|
| 1. Bubble Jump. | 9. Wave jump. |
| 2. Bubble gradient. | 10. Wave gradient. |
| 3. Flowing water jump. | 11. Chasing Jump. |
| 4. Flow gradient. | 12. Chasing gradient. |
| 5. Field jump. | 13. Ripple Jump. |
| 6. Field gradient. | 14. Ripple gradient |
| 7. Swing jump. | 15. Starlight jump |
| 8. Swing gradient. | 16. Starlight gradient |



12 – “MENU” FUNCTIONS



DMX - DMX Control Mode

- 

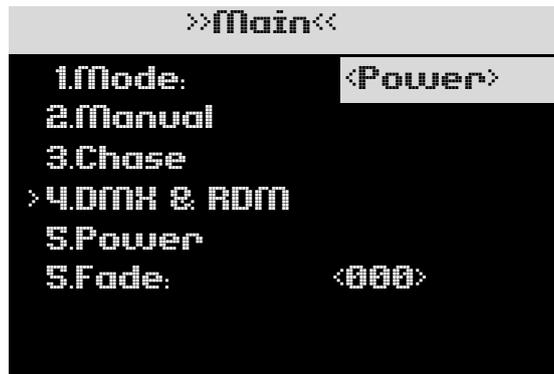
 • Press OK and use the UP/Down buttons to select the desired mode and dimmer address.
- 
 • Press Enter to confirm the dimmer address.



There are two available modes:

- DM - Dimmer Mode.
- CW - Switch Mode.

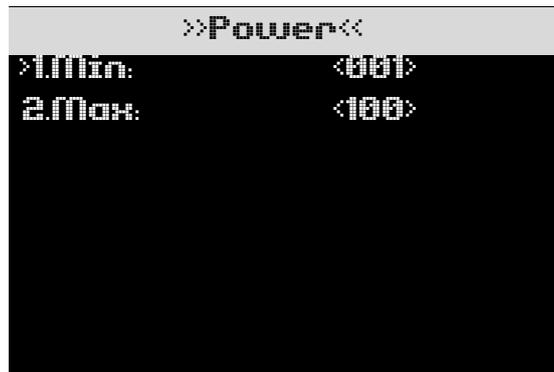
12 – “MENU” FUNCTIONS



DMX - DMX Control Mode

- 

 • Press OK and use the UP/Down buttons to select the desired Min and Max values.
- 
 • Press Enter to confirm the operating mode.



Power ranges:

- Min: 0 ~ 30%.
- Max: 70 - 100%.

12 – “MENU” FUNCTIONS



Fade - Fade In and Fade Out mode of the dimmer.

-  Press OK and use the UP/Down buttons to select the desired value between 000 and 255.
-  Press Enter to confirm the value.

13 – PERIODIC CHECKS



Caution!

Unplug the appliance before removing the housing.

Electrical Components

- Check grounding and proper connection of all connectors.
- If any loose connections are found, tighten them.



Replacing the Fuse

The fuse protecting the lamp and electronic components is located at the base of the Dimmer Pack 4.

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!

14 – DMX PROTOCOL

MODE 1: 4-CHANNEL DMX MODE DM4

1. DIMMER 1 – Dimmer socket 1
2. DIMMER 2 – Dimmer socket 2
3. DIMMER 3 – Dimmer socket 3
4. DIMMER 4 – Dimmer socket 4

MODE 2: 4-CHANNEL DMX MODE DM-MFP

1. DIMMER – Dimmer all socket
2. FADE DIMMER – Fade in/Fade Out
3. EFFECTS – Dimmer effects
4. EFFECTS RATE – Effect speed by dimmer

MODE 3: 8-CHANNEL DMX MODE DM4-MFP

1. DIMMER – Dimmer all socket (Master dimmer)
2. FADE DIMMER – Fade in/Fade Out
3. EFFECTS – Dimmer effects
4. EFFECTS RATE – Effect speed by dimmer
5. DIMMER 1 – Dimmer socket 1
6. DIMMER 2 – Dimmer socket 2
7. DIMMER 3 – Dimmer socket 3
8. DIMMER 4 – Dimmer socket 4

MODE 4: 4-CHANNEL DMX MODE SW4

1. SWITCH 1 – Switch socket 1
2. SWITCH 2 – Switch socket 2
3. SWITCH 3 – Switch socket 3
4. SWITCH 4 – Switch socket 4

MODE 5: SW4-M - CHANNEL DMX MODE

1. SWITCH 1-4 – Common switch for 1-4 inclusions
2. SWITCH 1 – Switch socket 1
3. SWITCH 2 – Switch socket 2
4. SWITCH 3 – Switch socket 3
5. SWITCH 4 – Switch socket 4



Download Fixtures:

You can download ready-made fixtures for this device for various consoles on the website: <https://prstage.pro/downloads/>

14 – DMX PROTOCOL

MODE 1: 4-CHANNEL DMX MODE DM4

DMX channel	Parameter	DMX meaning	Function
1	Dimmer 1	0-255	Dimmer 1 linear from 0 to 100%
2	Dimmer 2	0-255	Dimmer 2 linear from 0 to 100%
3	Dimmer 3	0-255	Dimmer 3 linear from 0 to 100%
4	Dimmer 4	0-255	Dimmer 4 linear from 0 to 100%

MODE 2: 4-CHANNEL DMX MODE DM-MFP

DMX channel	Parameter	DMX meaning	Function
1	Dimmer	0-255	Dimmer 1 linear from 0 to 100%
2	Fade Dimmer	000-007 008-255	Linear without inversion Linear with inversion
3	Effects	000-015 016-045 046-075 076-105 106-135 136-165 166-195 196-225 226-255	No effect Bubble Jump Flowing Water Pass Field Swing Waves Chase Ripples Starling
4	Effects Rate	0-255	Speed linearly from 0 to 100%

14 – DMX PROTOCOL

MODE 3: 8-CHANNEL DMX MODE DM4-MFP

DMX channel	Parameter	DMX meaning	Function
1	Dimmer	0-255	Dimmer general linear from 0 to 100%
2	Fade Dimmer	000-007 008-255	Linear without inversion Linear with inversion
3	Effects	000-015 016-045 046-075 076-105 106-135 136-165 166-195 196-255 226-255	No effect Bubble Jump Flowing Water Pass Field Swing Waves Chase Ripples Starling
4	Effects Rate	0-255	Speed linearly from 0 to 100%
5	Dimmer 1	0-255	Dimmer 1 linear from 0 to 100%
6	Dimmer 2	0-255	Dimmer 2 linear from 0 to 100%
7	Dimmer 3	0-255	Dimmer 3 linear from 0 to 100%
8	Dimmer 4	0-255	Dimmer 4 linear from 0 to 100%

14 – DMX PROTOCOL

MODE 4: 4-CHANNEL DMX MODE SW4

DMX channel	Parameter	DMX meaning	Function
1	Switch 1	000-127 128-255	Switch 1 Off Switch 1 On
2	Switch 2	000-127 128-255	Switch 2 Off Switch 2 On
3	Switch 3	000-127 128-255	Switch 3 Off Switch 3 On
4	Switch 4	000-127 128-255	Switch 4 Off Switch 4 On

MODE 5: SW4-M - CHANNEL DMX MODE

DMX channel	Parameter	DMX meaning	Function
1	Switch all	000-063 064-127 128-191 192-255	Fixed value for each channel Permission to change channels All channels are open All channels are closed
2	Switch 1	000-127 128-255	Switch 1 Off Switch 1 On
3	Switch 2	000-127 128-255	Switch 2 Off Switch 2 On
4	Switch 3	000-127 128-255	Switch 3 Off Switch 3 On
5	Switch 4	000-127 128-255	Switch 4 Off Switch 4 On

15 – WARRANTY CARD

1. Product Information

- Device Model: Dimmer Pack 4
- Serial Number:
- Sale Date:
- Seller:

2. Warranty Terms

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

3. The warranty does not cover:

- Mechanical damage caused by careless handling.
- Failures caused by improper connections or power surges.
- 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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