Swww.slservice.pl LIGHTING



S-5USER MANUAL

TABLE OF CONTENTS

1.	Introduction	3
2.	SAFETY INFORMATION	3
3.	Product information	4
3.1	Specification	4
3.2	CLEANING AND MAINTENANCE	5
3.3	DMX-512	7
4.	DISPLAY MENU	9
5.	DMX FUNCTIONS AND VALUES	10

1. Introduction

Thank you for choosing our product! Please consult this manual for any safety reasons, to ensure a painless and trouble-free operation, as well as for any reference needed.

We encourage you to check out our other products at our website: http://slservice.pl/!

2. SAFETY INFORMATION

To maintain this device's condition and to ensure a safe operation, it is absolutely necessary for the user to follow these safety instructions and warning notes written in this user manual.

- This device falls under protection-class I. Therefore it is essential that the device should be earthed.
- The electric connection and installation should be done by qualified personnel in order to minimize the risk of accidental electric shock and damaging the device.
- Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Make sure the power cord is never crimped or damaged by sharp edges - if this would be the case, immediately replace the cable for the exact same type.
- Before connecting the unit to the mains, make sure it is not damaged mechanically. If you notice any signs of damage, you should contact your dealer immediately. In this case do not connect the device to the mains.
- Make sure that the available voltage is not higher than 240V.
- Never look directly into the light source (especially if you have any epileptic past)!
- The device must be installed on a stable structure. Always use steel security cable to attach the device to a stable structure.
- Do not use this device in high humidity conditions and at temperatures above 40°C.
- Do not cover the ventilation slots when operating to avoid internal overheating.

- CAUTION: This product's housing may be hot when lights are operating.
- DO NOT connect this product to a dimmer or rheostat.

In case of a serious operating problem <u>stop using this product</u> <u>immediately!</u>

Important:

Damages caused by a disregard of this user manual are not subject to warranty or any liability.

3. Product information

3.1 Specification

Power supply voltage: 100-240V Power consumption: 260W Voltage frequency: 50/60Hz

Diode type and power: RGBW 4in1 LED

Number of diodes: 44pcs Brightness: 12'000 lm Beam angle: 35°

Beam angle: 35° **Scan rate:** 7000 Hz

Dimming: 16-bit dimmer **DMX standard:** DMX 512

DMX channels: 1/3/4/5/10/14/15

AC IN: powerCON AC OUT: powerCON DMX IN: XLR - 3 pin DMX OUT: XLR - 3 pin

IP Rating: IP65 Cooling: Passive Height [cm]: 28.5 Width [cm]: 49 Depth [cm]: 10.5 Weight [kg]: 9

3.2 CLEANING AND MAINTENANCE

We recommend a frequent cleaning of the device, as dust, smoke and other debris will build up on the optics and housing. After disconnecting the power wipe the device with a soft, lint-free and damp cloth. Never use alcohol or solvents, as these may damage the finish. A dry paint brush is an excellent tool to remove surface dust.

Be sure to periodically check for loose parts that could damage the device or potentially allow the device to cause injury. Make sure all overhead and wall installations have a secondary safety accessory installed, such as safety cable rated for your device type and size. Check the power cord as well, make sure there is no damage that could cause electrical shock, never remove the ground pin. There are no user-servicable parts in this device. Do not attempt to open and repair the fixture.



CAUTION! Always disconnect from mains <u>before</u> starting any maintenance operation!

There are no servicable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers. If you need any spare parts, please use only genuine parts.

If the power supply cable of this device becomes damaged, it has to be replaced by authorized dealers only, in order to avoid hazards.

<u>Never</u> remove the ground pins from power cord nor spin any cooling fan with compressed air, as this can damage the components in your fixture.

If you have further questions, please contact your dealer.



Before replacing a fuse, disconnect the power cord! Always replace with the same type and rating of fuse!

Mounting & rigging

This device can be mounted in any orientation (vertical, horizontal). Always make sure there is adequate ventilation and no flammable surfaces within 2 feet (0.6 meters) of the device. You can mount the device using clamps or with threaded bolt type hardware. Always install the included safety eyebolt and cable when mounting in overhead or wall locations.



Warning: Do not mount the fixture in the ventilation path of a nearby heating supply duct. The heated airflow will cause device failure due to overheating.

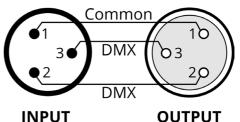
Expected LED lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40'000 to 50'000 hours.

If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

3.3 DMX-512

To link devices together you'll need data cables. You should use data grade cables that can carry a high quality signal and are less prone to electromagnetic interference. For instance. Belden© 9841 the meets



specifications for EIA RS-485 applications. Standard microphone cables will probably be OK, but note that they cannot transmit DMX data as reliably over long distances. In any event, the cable should have the following characteristics:

- 2-conductor twisted pair plus a shield,
- maximum capacitance between conductors 30pF/ft,
- maximum capacitance between conductor & shield 55 pF/ft,
- maximum resistance of 20 ohms / 1000 ft (304.8m in normal),
- nominal impedance 100 140 ohms.

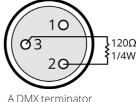
Cable connectors:

Cables must have a male XLR connector on one end and a female XLR connector on the other end (duh!).

A word on termination: DMX is a resilient communication protocol, however errors still occasionally occur. Termination reduces signal errors, and therefore best practises include the use of terminator in all circumstances. If you are experiencing problems with erratic device behavior, especially over long cable runs, a terminator may help improve performance.

To build your own DMX Terminator:

Obtain a 120-ohm, 1/4-watt resistor and wire it between pins 2 & 3 of the last fixture. They are also readily available from specialty retailers.



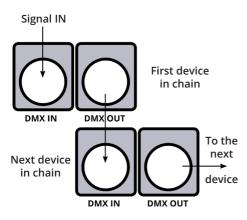
CAUTION: Do not allow contact between the common and the device's chassis ground. Grounding the common may cause a ground loop, and your device may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-Pin / 5-Pin

If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. They are widely available over the Internet and from specialty retailers, but if you'd like to build your own, the table below details a proper cable conversion:

Conductor	3-Pin female (Output)	5-Pin male (Input)
Ground/Shield	Pin 1	Pin 1
DMX Data (-)	Pin 2	Pin 2
DMX Data (+)	Pin 3	Pin 3
Not used.	no connector	Pin 4
Not used.	no connector	Pin 5

Setting up DMX control



Step 1: Connect the male connector of the DMX cable to the female connector (output) on the controller.

Step 2: Connect the female connector of the DMX cable to the first device's male connector (input).

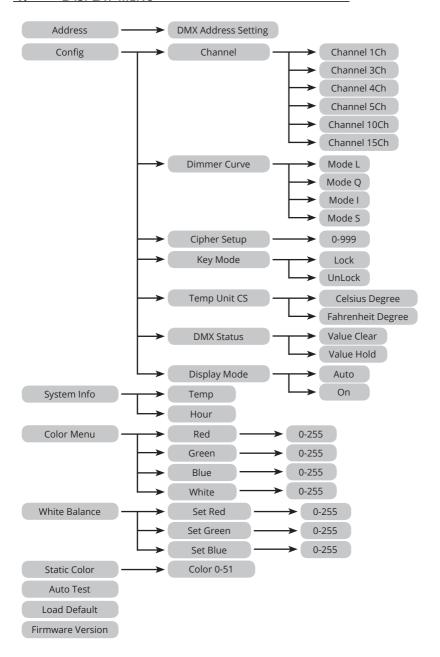
Note: It doesn't matter which device address is the first one connected. We recommend connecting the device in terms of their proximity to the controller, rather than connecting the lowest device number first, and so on.

Step 3: Connect other devices in the chain from output to input as above. Place a DMX terminator on the output of the final device to ensure the best communication.

Fixture linking (Master/Slave Mode)

- 1. Connect the (male) 3-pin connector side of the DMX cable to the output (female) 3-pin connector of the first device.
- 2. Connect the end of the cable coming from the first device, which will have a (female) 3-pin connector to the input connector of the next device consisting of a (male) 3-pin connector. Then, proceed to connect from the output as stated above, to the input of the following device (and so on).

DISPLAY MENU



5. DMX functions and values

1	0-255	Static Color	1CH Mode
			-
	0-007	Shutter Blackout]
	8-015	Shutter Open	
	16-151	Variable Strobe	
1	152-175	Pulse Close	2CH Mode
	176-199	Pulse Open	ZCH WIOGE
	200-244	Variable Random Strobe	
	245-255	Shutter Open	
2	0-255	Master Dimmer	
1	0-255	Red Dimmer]
2	0-255	Green Dimmer	3CH Mode
3	0-255	Blue Dimmer]
			•
1	0-255	Red Dimmer]
2	0-255	Green Dimmer	4CH Mode
3	0-255	Blue Dimmer	4CH Mode
4	0-255	White Dimmer	
			-
	0-007	Shutter Blackout]
	8-015	Shutter Open	
	16-151	Variable Strobe	
1	152-175	Pulse Close	
	176-199	Pulse Open	
	200-244	Variable Random Strobe	6CH Mode
	245-255	Shutter Open	och wode
2	0-255	Master Dimmer	
3	0-255	Red Dimmer]
4	0-255	Green Dimmer]
5	0-255	Blue Dimmer	
6	0-255	White Dimmer]

0-255	Red Dimmer
0-255	Red Dimmer Fine
0-255	Green Dimmer
0-255	Green Dimmer Fine
0-255	Blue Dimmer
0-255	Blue Dimmer Fine
0-255	White Dimmer
0-255	White Dimmer Fine
	0-255 0-255 0-255 0-255 0-255 0-255

8CHF Mode

1	0-255	Master Dimmer
2	0-255	Red Dimmer
3	0-255	Red Dimmer Fine
4	0-255	Green Dimmer
5	0-255	Green Dimmer Fine
6	0-255	Blue Dimmer
7	0-255	Blue Dimmer Fine
8	0-255	White Dimmer
9	0-255	White Dimmer Fine

9CHF Mode

	0-007	Shutter Blackout
	8-015	Shutter Open
	16-151	Variable Strobe
1	152-175	Pulse Close
	176-199	Pulse Open
	200-244	Variable Random Strobe
	245-255	Shutter Open
2	0-255	Master Dimmer
3	0-255	Red1 Dimmer
4	0-255	Green1 Dimmer
5	0-255	Blue1 Dimmer
6	0-255	White1 Dimmer
7	0-255	Red2 Dimmer
8	0-255	Green2 Dimmer
9	0-255	Blue2 Dimmer
10	0-255	White2 Dimmer

10CHF Mode

1 0-255 Master Dimmer 2 0-255 Red1 Dimmer 3 0-255 Green1 Dimmer 4 0-255 Blue1 Dimmer 5 0-255 White1 Dimmer 6 0-255 Red2 Dimmer 7 0-255 Green2 Dimmer 8 0-255 Blue2 Dimmer 9 0-255 White2 Dimmer 10 0-015 No Effect 016-255 Strobe Rate (0 - 30Hz) 11 0-255 Color Macro Color+Black Auto Run O-035 No Effect 036-071 Ramp Up 072-107 Ramp Down 108-143 Ramp Down 144-179 Color Mix Mode 140-215 4 - colors 216-255 43 - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 14 064-127 S Curve	_		
3 0-255 Green1 Dimmer 4 0-255 Blue1 Dimmer 5 0-255 White1 Dimmer 6 0-255 Red2 Dimmer 7 0-255 Green2 Dimmer 8 0-255 Blue2 Dimmer 9 0-255 White2 Dimmer 10 0-015 No Effect 016-255 Strobe Rate (0 - 30Hz) 11 0-255 Color Macro Color+Black Auto Run 0-035 No Effect 036-071 Ramp Up 072-107 Ramp Down 108-143 Ramp Up/Down 1144-179 Color Mix Mode 140-255 Ar - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 128-191 I Curve	1	0-255	Master Dimmer
4	2	0-255	Red1 Dimmer
5 0-255 White1 Dimmer 6 0-255 Red2 Dimmer 7 0-255 Green2 Dimmer 8 0-255 Blue2 Dimmer 9 0-255 White2 Dimmer 10 0-015 No Effect 016-255 Strobe Rate (0 - 30Hz) 11 0-255 Color Macro Color+Black Auto Run No Effect 036-071 Ramp Up 072-107 Ramp Up/Down 108-143 Ramp Down 144-179 Color Mix Mode 180-215 4 - colors 216-255 43 - colors 13 0-255 Dimmer Speed 0-063 L curve 14 064-127 S Curve 128-191 I Curve	3	0-255	Green1 Dimmer
6 0-255 Red2 Dimmer 7 0-255 Green2 Dimmer 8 0-255 Blue2 Dimmer 9 0-255 White2 Dimmer 10 0-015 No Effect 10 016-255 Strobe Rate (0 - 30Hz) 11 0-255 Color Macro Color+Black Auto Run 0-035 No Effect 036-071 Ramp Up 072-107 Ramp Down 108-143 Ramp Up/Down 144-179 Color Mix Mode 180-215 4 - colors 216-255 43 - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 128-191 I Curve	4	0-255	Blue1 Dimmer
7 0-255 Green2 Dimmer 8 0-255 Blue2 Dimmer 9 0-255 White2 Dimmer 10 0-015 No Effect	5	0-255	White1 Dimmer
8 0-255 Blue2 Dimmer 9 0-255 White2 Dimmer 10 0-015 No Effect 016-255 Strobe Rate (0 - 30Hz) 11 0-255 Color Macro Color+Black Auto Run 0-035 No Effect 036-071 Ramp Up 072-107 Ramp Down 108-143 Ramp Up/Down 144-179 Color Mix Mode 180-215 4 - colors 216-255 43 - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 128-191 I Curve	6	0-255	Red2 Dimmer
9 0-255 White2 Dimmer 10 0-015 No Effect 11 0-255 Strobe Rate (0 - 30Hz) 11 0-255 Color Macro Color+Black Auto Run 0-035 No Effect 036-071 Ramp Up 072-107 Ramp Down 108-143 Ramp Up/Down 144-179 Color Mix Mode 180-215 4 - colors 216-255 43 - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 128-191 I Curve	7	0-255	Green2 Dimmer
10	8	0-255	Blue2 Dimmer
10 016-255 Strobe Rate (0 - 30Hz) 11 0-255 Color Macro Color+Black Auto Run 0-035 No Effect 036-071 Ramp Up 072-107 Ramp Down 108-143 Ramp Up/Down 144-179 Color Mix Mode 180-215 4 - colors 216-255 43 - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 128-191 I Curve	9	0-255	White2 Dimmer
11 0-255 Strobe Rate (0 - 30Hz) 11 0-255 Color Macro Color+Black Auto Run 0-035 No Effect 036-071 Ramp Up 072-107 Ramp Down 108-143 Ramp Up/Down 144-179 Color Mix Mode 180-215 4 - colors 216-255 43 - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 128-191 I Curve	10	0-015	No Effect
Auto Run	10	016-255	Strobe Rate (0 - 30Hz)
12	11	0-255	Color Macro Color+Black
12			Auto Run
12		0-035	No Effect
12		036-071	Ramp Up
108-143 Ramp Up/Down 144-179 Color Mix Mode 180-215 4 - colors 216-255 43 - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 128-191 I Curve	12	072-107	Ramp Down
180-215	12	108-143	Ramp Up/Down
216-255 43 - colors 13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 128-191 I Curve		144-179	Color Mix Mode
13 0-255 Dimmer Speed Dimmer Curve 0-063 L curve 14 064-127 S Curve 128-191 I Curve		180-215	4 - colors
Dimmer Curve 0-063 L curve		216-255	43 - colors
0-063 L curve 14 064-127 S Curve 128-191 I Curve	13	0-255	Dimmer Speed
14 064-127 S Curve 128-191 I Curve			Dimmer Curve
128-191 I Curve	14	0-063	L curve
		064-127	S Curve
192-255 Q Curve		128-191	I Curve
		192-255	Q Curve

14CHD Mode

1	0-255	Master Dimmer
2	0-255	Master Dimmer Fine
3	0-255	Red Dimmer
4	0-255	Red Dimmer Fine
5	0-255	Green Dimmer
6	0-255	Green Dimmer Fine
7	0-255	Blue Dimmer
8	0-255	Blue Dimmer Fine
9	0-255	White Dimmer
10	0-255	White Dimmer Fine
4.4	0-015	No Effect
11	016-255	Strobe Rate (0 - 30Hz)
12	0-255	Color Macro Color+Black
		Auto Run
	0-035	No Effect
	036-071	Ramp Up
12	072-107	Ramp Down
13	108-143	Ramp Up/Down
	144-179	Color Mix Mode
	180-215	4 - colors
	216-255	43 - colors
14	0-255	Dimmer Speed
		Dimmer Curve
15	0-063	L curve
	064-127	S Curve
	128-191	l Curve

15CHF Mode