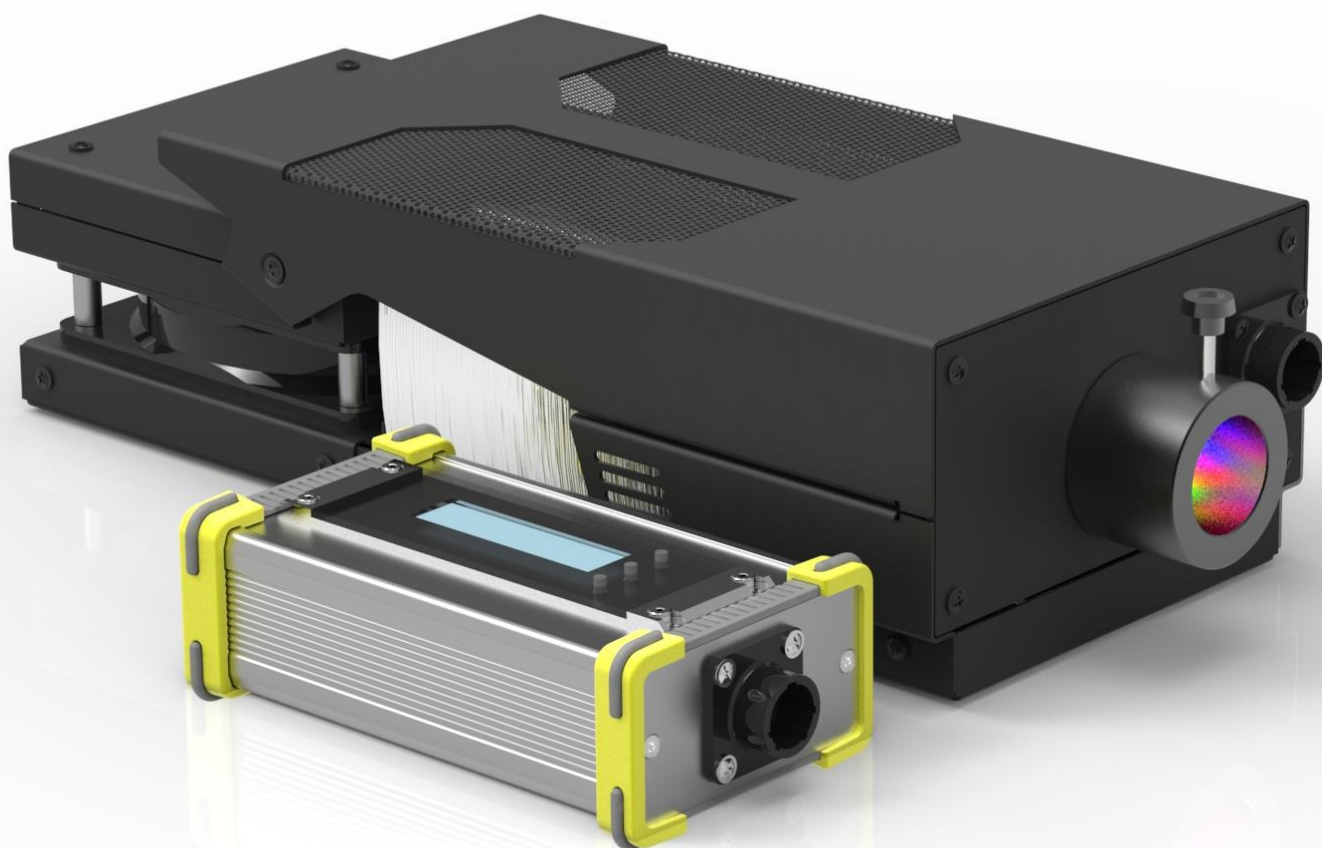


# CEZOS

## Razor RGBW

LW35RAZRGBWSET



## INTRODUCTION

Razor RGBW is an advanced controller and generator for fiber optic. Using newest technology we provide the best solution for lighting control. Industrial connectors provide quick installation of the entire lighting system.

<b>Description</b>	Razor RGBW
<b>Article Number</b>	LW35RAZRGBWSET
<b>Dimension of generator</b>	359x152x97 mm
<b>Dimension of driver</b>	170x91x51 mm
<b>Power Supply Type</b>	Constant Voltage (CV)
<b>Power Supply Voltage</b>	26 - 48 V
<b>Number of channels</b>	4
<b>Max. Power</b>	64 W
<b>Max. Current</b>	700 mA each channel
<b>Number of LEDs</b>	7 pcs
<b>Luminous Flux</b>	608 lm Red 918 lm Green 170 lm Blue 1225 lm White @ 4000 K
<b>Protection</b>	IP 20
<b>Diameter of fiber port</b>	30 mm
<b>Max Ambient Temperature</b>	40°C

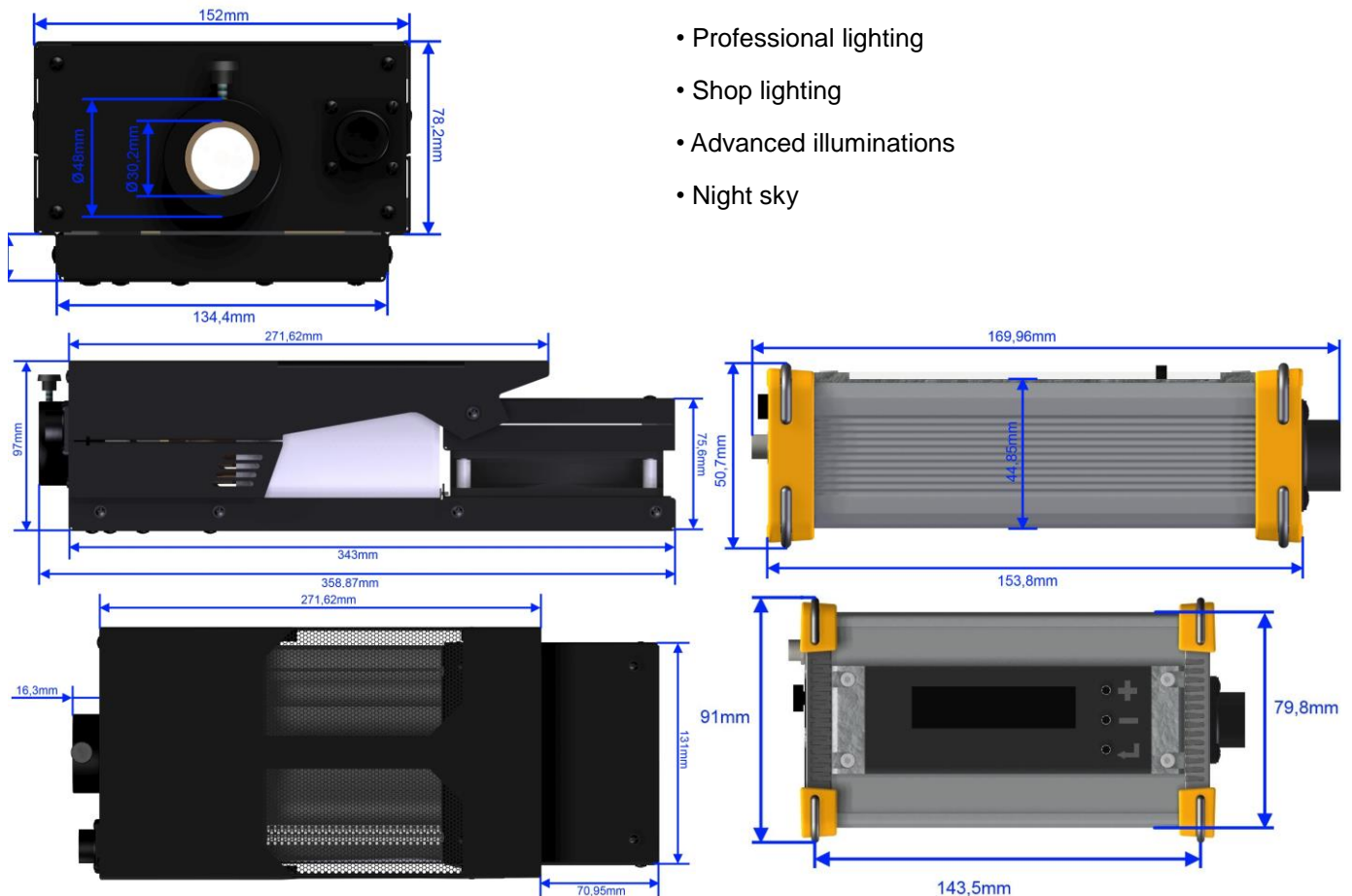
## FEATURES

Advantage of Razor RGBW is ability to changes light intensity and colour of generate light. Generator is specially designed to power fiber optic.

- Industrial connectors for quick and simple wiring
- Simple installation
- High power
- Manual and DMX control
- Directed light beam, special designed for fiber optics
- Number of fiber optic 1000 x 0.75 mm<sup>2</sup>

## APPLICATIONS

- Accent and Effect Lighting
- Professional lighting
- Shop lighting
- Advanced illuminations
- Night sky



## RAZOR

Razor RGBW is specialized LED light generator to power fiber optic. These generators are high power up to 64W with four channels. Razor has built-in filter IR and modern cooling for generator, that increases lifetime. Razor RGBW must be connected to Razor Driver. This driver may be controlled manually or via DMX bus. Connecting couple of generator to Razor Driver allow to create advances illumination.

## MENU OPTIONS OF RAZOR DRIVER

### Set DMX address

Set DMX address for CH1 from 1 to 512. Next channels will have consecutive numbers of DMX address. Default address is set at 001.

NOTE: All channels (1-4) should be in the range of DMX addresses. Selecting a channel above 509 will disable the last channel of the fiber optic illuminator.

### Set CH1 value

Set value at channel 1 in percent, when the manual mode is enable. Default is set 0%

### Set CH2 value

Set value at channel 2 in percent, when the manual mode is enable. Default is set 0%

### Set CH3 value

Set value at channel 3 in percent, when the manual mode is enable. Default is set 0%

### Set CH4 value

Set value at channel 4 in percent, when the manual mode is enable. Default is set 0%

### Change mode

Set the type of control (DMX or Manual mode). Default is set at DMX mode

- DMX mode: Selecting DMX mode makes the unit respond to DMX control data from a DMX controller.
- Manual mode: Selecting Manual mode makes the unit set the value of the output from the memory.

## PROTECTION MEASURES AGAINST DAMAGE

Generator are delicate, even small mechanical stress may damage generator. Such stresses should be avoided. If it is impossible, it should be kept to minimum. Mechanical stresses such as pressure, bending, breaking, drilling, etc. may cause irreversible damage. Damaged generator aren't suitable for use.

Do not open housing and touch electronic components.

Additionally generators can be damaged by some chemical substances. Depends of elements the damage may be different. It is important not to use chemical substances like acids, organic acids, sulphur, alkalis, organic solvents, mineral oils, vegetable oils and synthetic oils, etc. We are not responsible for any loss, or damage resulting from improper use of generator! Guarantee become void in such cases.

Do not operate generators, when they aren't working properly. If generators are working incorrectly, turn off power supply. Damaged generator may cause electric shock or short circuit.

## SAFETY

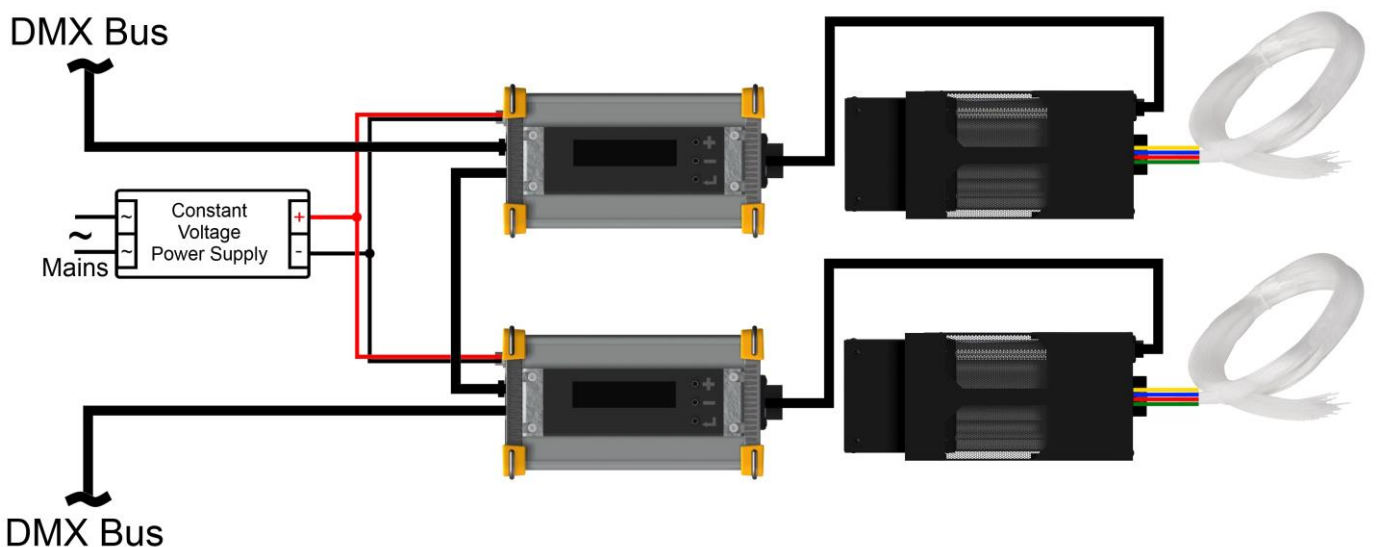
Generators may change light intensity, but even dimmed LEDs generate high intensity light. Looking into LEDs beam is unhealthy and may cause irreversible injury to eye's retina. Never look into the beam without protection glasses with appropriate filter. Additionally they may change LEDs light intensity almost immediately. If people are photosensitive, LEDs light may be a trigger to epileptic seizures and alter the perception, especially when light change very fast.

Generator can work on high power supply current, so never touch components and wires of controller when power supply is on.

## CONNECTIONS

The generator and driver must be operated by suitable power supply. When connecting a few drivers and generators use of appropriate power supply is important. Power supply should have sufficient max. power to maintain all drivers and generators. Power supply must be connected properly. Wrong polarization can destroy drivers and generators in very short time. Thanks to Razor RGBW it is possible to change of light intensity and colour of light that power fiber optics. We are not responsible for any loss, or damage resulting from improper use of driver and generator! Guarantee become void in such cases.

## WIRING DIAGRAM FOR RAZOR RGBW WITH PARALLEL WIRING



Razor Driver can be connected only with serial wiring. Razor Driver may be connected to DMX bus. Above connection is examples and may be different from the actual.

## COOLING

Generator produces heat. They must be provided with good air ventilation. Generator without air ventilation can overheat. Overheat can damage or destroy some elements or entire generator. We are not responsible for any loss, or damage resulting from improper use of drives! Guarantee become void in such cases.

## STANDARDS AND DIRECTIVES

In the process of designing and manufacturing the following standards and directives were taken into account:

- 2006/95/EC – Low-voltage Directive: electrical equipment for use within certain voltage limits
- 2004/108/EC – EMC Directive: electromagnetic compatibility
- 2011/65/EC – RoHS Directive: restriction of hazardous substances in electrical and electronic equipment
- DIN IEC 62031:2008 – Safety requirements for LED modules
- EN 60598-1:2008 and A11:2009 – General requirements and tests for luminaires
- EN 60598-2-2:1996 and A1:1997 – Luminaires - Part 2. Special requirements; Main section 2: Recessed luminaires
- EN 62471:2008 – Photo-biological safety of lamps and lamps systems
- EN 61347-1:2009 – General and safety requirements
- EN 61347-2-13:2007 – Special requirements for DC and AC powered electronic operating equipment for LED modules
- EU Regulation No: 874/2012 – Energy labelling of electrical lamps and luminaries

## CONTACT

CEZOS

81-534 Gdynia POLAND,

Olgiarda 88/b

tel. +48 58 664 88 61

[cezos@cezos.com](mailto:cezos@cezos.com)

[www.cezos.com](http://www.cezos.com)

Subject to technical changes and errors.