

## USER MANUAL

# eurolite®

## LED Strobe COB PRO 8x20W DMX RGB



### CAUTION!

Keep this device away from rain and moisture!  
Never open the housing!

For your own safety, please read this user manual carefully before you initially start-up.

Every person involved with the installation, operation and maintenance of this device has to

- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual for the entire service life of the product
- pass this manual on to every further owner or user of the product
- download the latest version of the user manual from the Internet

## INTRODUCTION

Thank you for having chosen a EUROLITE LED Strobe COB PRO 8x20W DMX RGB. If you follow the instructions given in this manual, we are sure that you will enjoy this device for a long period of time.

Unpack your LED Strobe COB PRO 8x20W DMX RGB.

## SAFETY INSTRUCTIONS



### CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



### Important:

*Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.*

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

## English

Please make sure that there are no obvious transport damages. Should you notice any damages on the A/C connection cable or on the casing, do not take the device into operation and immediately consult your local dealer.

This device falls under protection-class I. The power plug must only be plugged into a protection class I outlet. The voltage and frequency must exactly be the same as stated on the device. Wrong voltages or power outlets can lead to the destruction of the device and to mortal electrical shock.

Always plug in the power plug last. The power plug must always be inserted without force. Make sure that the plug is tightly connected with the outlet.

Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution! Never touch them with wet hands, as this could lead to mortal electrical shock.

Never modify, bend, strain mechanically, put pressure on, pull or heat up the power cord. Never operate next to sources of heat or cold. Disregard can lead to power cord damages, fire or mortal electrical shock.

The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to mortal damage.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

If extension cords are used, make sure that the core diameter is sufficient for the required power consumption of the device. All warnings concerning the power cords are also valid for possible extension cords.

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. Otherwise, the cable or plug can be damaged leading to mortal electrical shock. If the power plug or the power switch is not accessible, the device must be disconnected via the mains.

If the power plug or the device is dusty, the device must be taken out of operation, disconnected and then be cleaned with a dry cloth. Dust can reduce the insulation which may lead to mortal electrical shock. More severe dirt in and at the device should only be removed by a specialist.

There must never enter any liquid into power outlets, extension cords or any holes in the housing of the device. If you suppose that also a minimal amount of liquid may have entered the device, it must immediately be disconnected. This is also valid, if the device was exposed to high humidity. Also if the device is still running, the device must be checked by a specialist if the liquid has reduced any insulation. Reduced insulation can cause mortal electrical shock.

There must never be any objects entering into the device. This is especially valid for metal parts. If any metal parts like staples or coarse metal chips enter into the device, the device must be taken out of operation and disconnected immediately. Malfunction or short-circuits caused by metal parts may cause mortal injuries.

During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.



### **HEALTH HAZARD!**

**Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meant for epileptics)!**

Please consider that damages caused by manual modifications to the device are not subject to warranty.

### **CAUTION!**

**Never touch the plug's contact pins! Danger of electric shock at unplugged plug.**

Never operate the stroboscope without protective shield!

Replace any cracked protective shield.

Keep away children and amateurs!

Never leave this device running unattended.

## OPERATING DETERMINATIONS

This device is a lighting effect for creating decorative effects. This product is only allowed to be operated with an alternating voltage of 100 - 240 V, 50/60 Hz and was designed for indoor use only.

This device is designed for professional use, e.g. on stages, in discotheques, theatres etc.

Lighting effects are not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

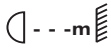
This device must never be operated or stockpiled in surroundings where splash water, rain, moisture or fog may harm the device. Moisture or very high humidity can reduce the insulation and lead to mortal electrical shocks. When using smoke machines, make sure that the device is never exposed to the direct smoke jet and is installed in a distance of 0.5 meters between smoke machine and device. The room must only be saturated with an amount of smoke that the visibility will always be more than 10 meters.

The ambient temperature must always be between  $-5^{\circ}\text{C}$  and  $+45^{\circ}\text{C}$ . Keep away from direct insulation (particularly in cars) and heaters.

The relative humidity must not exceed 50 % with an ambient temperature of  $45^{\circ}\text{C}$ .

This device must only be operated in an altitude between -20 and 2000 m over NN.

Never use the device during thunderstorms. Over voltage could destroy the device. Always disconnect the device during thunderstorms.

The symbol  determines the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than the given value.

This device is only allowed for an installation via the mounting bracket. In order to safeguard sufficient ventilation, leave 50 cm of free space around the device.

The housing must never touch surrounding surfaces or objects.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

Always fix the fixture with an appropriate safety bond.

The maximum ambient temperature  $T_a = 45^{\circ}\text{C}$  must never be exceeded.

Operate the device only after having become familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

Never use solvents or aggressive detergents in order to clean the device! Rather use a soft and damp cloth.

Please use the original packaging if the device is to be transported. Make sure that you pack the device in the original state.

Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

**WEEE Directive**



When to be definitively put out of operation, take the unit(s) to a local recycling plant for a disposal which is not harmful to the environment. Do not dispose of as municipal waste. Contact your retailer or local authorities for more information.

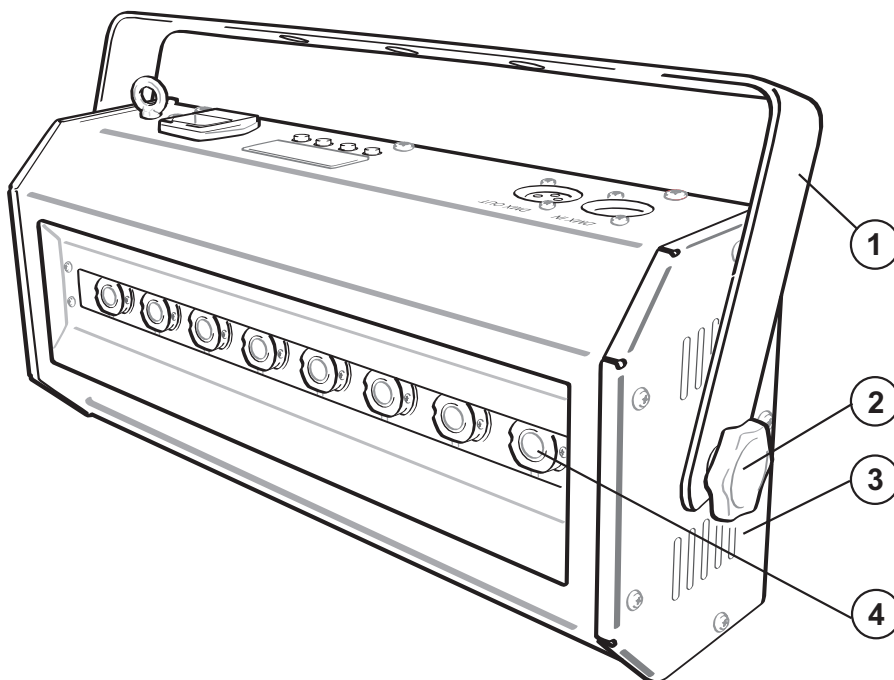
## DESCRIPTION OF THE DEVICE

### Features

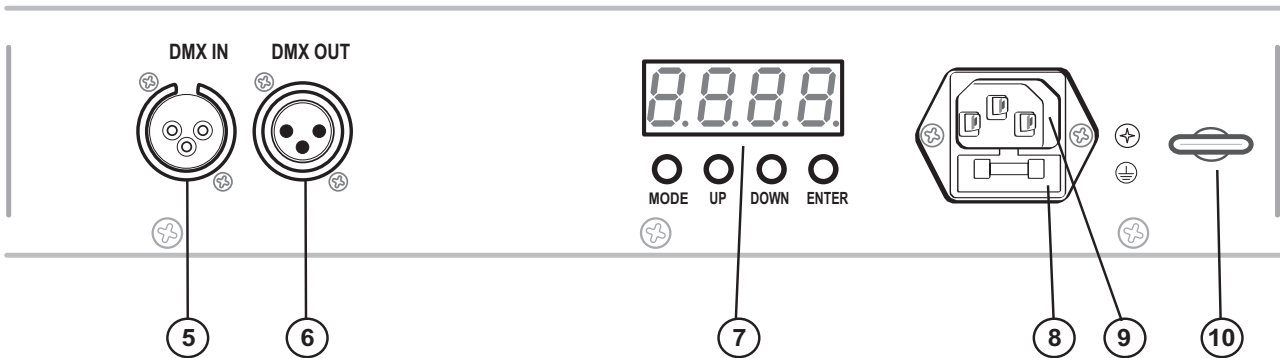
#### Powerful COB LED-Strobe

- Operable in stand-alone mode or via DMX
- DMX512 control possible via any commercial DMX controller (occupies 7 channels)
- Equipped with eight powerful 20 W RGB COB LEDs
- Sound-control via built-in microphone
- Addressing and setting via control board with LED display and four operating buttons
- Functions: internal programs, sound-control, Blinder effect, dimmer, Master/Slave
- Elaborate reflector system
- Compact housing with mounting bracket and fixation screws
- Switch-mode power supply for operation between 100 and 240 Volts
- Ready for connection via included IEC power cord with safety power plug

### Overview



- (1) Mounting bracket
- (2) Fixation screw
- (3) Housing
- (4) RGB COB LEDs



- (5) DMX input plug
- (6) DMX output socket
- (7) Control board with operating buttons
- (8) Fuseholder
- (9) Power supply
- (10) Attachment eyelet

## INSTALLATION

### Overhead rigging



#### **DANGER TO LIFE!**

Please consider the EN 60598-2-17 and the respective national standards during the installation! The installation must only be carried out by an authorized dealer!

The installation of the device has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging or servicing the device staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

#### **Procedure:**

The device should be installed outside areas where persons may walk by or be seated.

**IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE**, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property.

The device has to be installed out of the reach of people.  
If the device shall be lowered from the ceiling or high joists, professional trussing systems have to be used.  
The device must never be fixed swinging freely in the room.

**Caution:** Devices in hanging installations may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do NOT install the device!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the device's weight.



**DANGER OF FIRE!**

When installing the device, make sure there is no highly-inflammable material (decoration articles, etc.) within a distance of min. 0.5 m.

Mount the device to your trussing system using an appropriate clamp.

For overhead use, always install an appropriate safety bond.

You must only use safety bonds and quick links complying with DIN 56927, shackles complying with DIN EN 1677-1 and BGV C1 carabines. The safety bonds, quick links, shackles and the carabines must be sufficiently dimensioned and used correctly in accordance with the latest industrial safety regulations (e. g. BGV C1, BGI 810-3).

**Please note:** for overhead rigging in public or industrial areas, a series of safety instructions have to be followed that this manual can only give in part. The operator must therefore inform himself on the current safety instructions and consider them.

The manufacturer cannot be made liable for damages caused by incorrect installations or insufficient safety precautions!

Pull the safety bond through the attachment eyelet and over the trussing system or a safe fixation spot. Insert the end in the quick link and tighten the safety screw.

The maximum drop distance must never exceed 20 cm.

A safety bond which already held the strain of a crash or which is defective must not be used again.

Adjust the desired inclination-angle via the mounting-bracket and tighten the fixation screws.



**DANGER TO LIFE!**

Before taking into operation for the first time, the installation has to be approved by an expert!

**DMX512 control**



The wires must not come into contact with each other, otherwise the devices will not work at all, or will not work properly.



Please note, the starting address depends upon which controller is being used.



Only use a DMX cable and 3-pin XLR plugs and connectors in order to connect the controller with the fixture or one fixture with another.

**Occupation of the XLR connection:**



If you are using controllers with this occupation, you can connect the DMX output of the controller directly with the DMX input of the first device in the DMX chain. If you wish to connect DMX controllers with other XLR outputs, you need to use adapter cables.

**Building a serial DMX chain:**

Connect the DMX output of the first device in the DMX chain with the DMX input of the next device. Always connect one output with the input of the next device until all devices are connected.

**Caution:** At the last fixture, the DMX cable has to be terminated. Plug the terminator with a 120 Ω resistor between Signal (-) and Signal (+) in the DMX output of the last fixture.

**Connection with the mains**

Connect the device to the mains with the enclosed power supply cable.

**The occupation of the connection-cables is as follows:**

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

The earth has to be connected!

If the device will be directly connected with the local power supply network, a disconnection switch with a minimum opening of 3 mm at every pole has to be included in the permanent electrical installation.

The device must only be connected with an electric installation carried out in compliance with the IEC-standards. The electric installation must be equipped with a Residual Current Device (RCD) with a maximum fault current of 30 mA.

Lighting effects must not be connected to dimming-packs.

**Master/Slave operation**

The master/slave operation enables that several devices can be synchronized and controlled by one master device.

On the rear panel of the device you can find an XLR jack and an XLR plug, which can be used for connecting several devices.

Choose the device which is to control the effects. This device then works as master device and controls all other slave devices, which are to be connected to the master device via a DMX-cable. Connect the OUT jack with the IN plug of the next device.

Set the desired Master-mode - „Sou1, Sou2 and Au01“ - for the master-device, as described in chapter **Control Board**. Set the DMX address 001 for all slave-devices.

## OPERATION

After you connected the LED Strobe COB PRO 8x20W DMX RGB to the mains, it starts running.

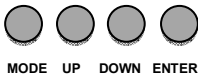
The LED display lights up and you can choose the desired mode via the buttons MODE, UP, DOWN and ENTER.

The device has two operating modes. It can be operated in Stand Alone via LED display with operating buttons or in DMX-controlled mode via lighting controller.

### Stand-alone Mode

In the Stand Alone mode, the device can be used without a controller. Disconnect the device from the controller.

### Control board



The control board offers several features, i.e. setting the DMX starting address, running a preset program or selecting a DMX channel mode.

Browse through the menu by pressing MODE. You can change the selection by pressing UP or DOWN. Press ENTER in order to confirm. You can leave every mode by pressing MODE. The functions provided are listed in the following sections.

The display shuts off after 15 seconds of inactivity. With the touch of a button it lights up again.

Display	Setting	Function
<b>A001</b>	001-512	<b>DMX address setting</b> With this function, you can adjust the desired DMX-address via the Control Board.
<b>Sou1</b>		<b>Music controlled program 1</b> With this function, you can run the music controlled program 1 (single flash) sound-controlled.
<b>Sou2</b>		<b>Music controlled program 2</b> With this function, you can run the music controlled program 2 (triple flash) sound-controlled. During periods without music or bass-beat a slow flash continues automatically.
<b>Au01</b>	Au01-Au08	<b>Auto program</b> With this function you can select the desired Auto strobe program (see graphic below).
	SP01 – SP16 (+)	<b>Select the desired speed</b> (increasing)

(+) = Set the desired Auto Program (Au01 – Au08) and press ENTER. On the display you will see **SPxx**. Now you can set the desired program speed. Press ENTER again to confirm then MODE to return to the main menu.



Au01 = red
Au02 = green
Au03 = blue
Au04 = yellow
Au05 = magenta
Au06 = cyan
Au07 = white
Au08 = all colors

### DMX Mode

You can control the devices individually via your DMX-controller. Every DMX-channel has a different occupation with different features. The individual channels and their features are listed under DMX-protocol.

The Control Board allows you to assign the DMX fixture address, which is defined as the first channel from which the device will respond to the controller.

### Addressing

Press the MODE button until the display shows **A001**. You can now set the desired address via the UP or DOWN buttons. Press ENTER once again to confirm.

Press the MODE button in order to return to the main menu.

Please, be sure that you don't have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX-chain.

If several devices are addressed similarly, they will work synchronically.

### Controlling:

After having addressed the LED Strobe COB PRO 8x20W DMX RGB, you may now start operating it via your lighting controller.

### Note:

After switching on, the device will automatically detect whether DMX 512 data is received or not. If the data is received, a dot on the display will blink. If there is no data received at the DMX-input, the dot will not blink.

This situation can occur if:

- the 3 PIN XLR plug (cable with DMX signal from controller) is not connected with the input of the device.
- the controller is switched off or defective,
- the cable or connector is defective or the signal wires are not properly connected with the input connector.

### DMX-Protocol

Channel	Value	Characteristic
<b>CH1</b>	000-255	Gradual adjustment of the <b>dimmer intensity</b> from 0 to 100 %
<b>CH2</b>	000-008	No function
	009-255	<b>Strobe-effect</b> with increasing speed for channels 3, 4, 5
<b>CH3</b>	000-255	Red with increasing brightness from 0 to 100 %
<b>CH4</b>	000-255	Green with increasing brightness from 0 to 100 %
<b>CH5</b>	000-255	Blue with increasing brightness from 0 to 100 %
<b>CH6</b>	000-127	No function
	128-255	<b>"Blinder effect"</b> for 2-3 seconds
<b>CH7</b>	000-008	No function
	009-255	<b>Strobe-effect (all colors)</b> with increasing speed

## CLEANING AND MAINTENANCE



### DANGER TO LIFE!

Disconnect from mains before starting maintenance operation!

We recommend a frequent cleaning of the device. Please use a soft lint-free and moistened cloth. Never use alcohol or solvents!

There are no serviceable parts inside the device except for the fuse. Maintenance and service operations are only to be carried out by authorized dealers.

### Replacing the fuse

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

**Before replacing the fuse, unplug mains lead.**

#### Procedure:

- Step 1:** Open the fuse-holder on the rear panel with a fitting screwdriver.
- Step 2:** Remove the old fuse from the fuse-holder.
- Step 3:** Install the new fuse in the fuse-holder.
- Step 4:** Replace the fuse-holder in the housing.

Should you need any spare parts, please use genuine parts.

If the power supply cable of this device becomes damaged, it has to be replaced by a special power supply cable available at your dealer.

Should you have further questions, please contact your dealer.

## TECHNICAL SPECIFICATIONS

Power supply:	100-240 V AC, 50/60 Hz ~
Power consumption:	120 W
Number of DMX channels:	7
DMX512 connection:	3-pin XLR
Sound-control:	via built-in microphone
Maximum ambient temperature $T_a$ :	45° C
Maximum housing temperature $T_c$ (steady state):	70° C
Minimum distance from flammable surfaces:	0.5 m
Minimum distance to lighted object:	0.1 m
Fuse:	F 3 A, 250 V
LED type:	20 W COB, RGB
Number of LEDs:	8
Dimensions:	90 x 365 x 185 mm
Weight:	2.5 kg

Accessories:	No.
EUROLITE TPC-10 Coupler, silver	59006856
EUROLITE TPC-10 Coupler, black	59006858
EUROLITE Safety Bond A 3x600mm up to 5kg, silver	58010310
EUROLITE Safety Bond A 3x600mm up to 5kg, black	58010342
EUROLITE DMX cable XLR 3pin 3m black	3022785H
PSSO DMX cable XLR 3pin 3m black Neutrik	30227810
SOMMER CABLE DMX cable XLR 3pin 3m black Hicon	30307457
SOMMER CABLE DMX cable XLR 3pin 3m black Neutrik	3030746Z

**Please note: All information is subject to change without prior notice. 11.07.2017 ©**