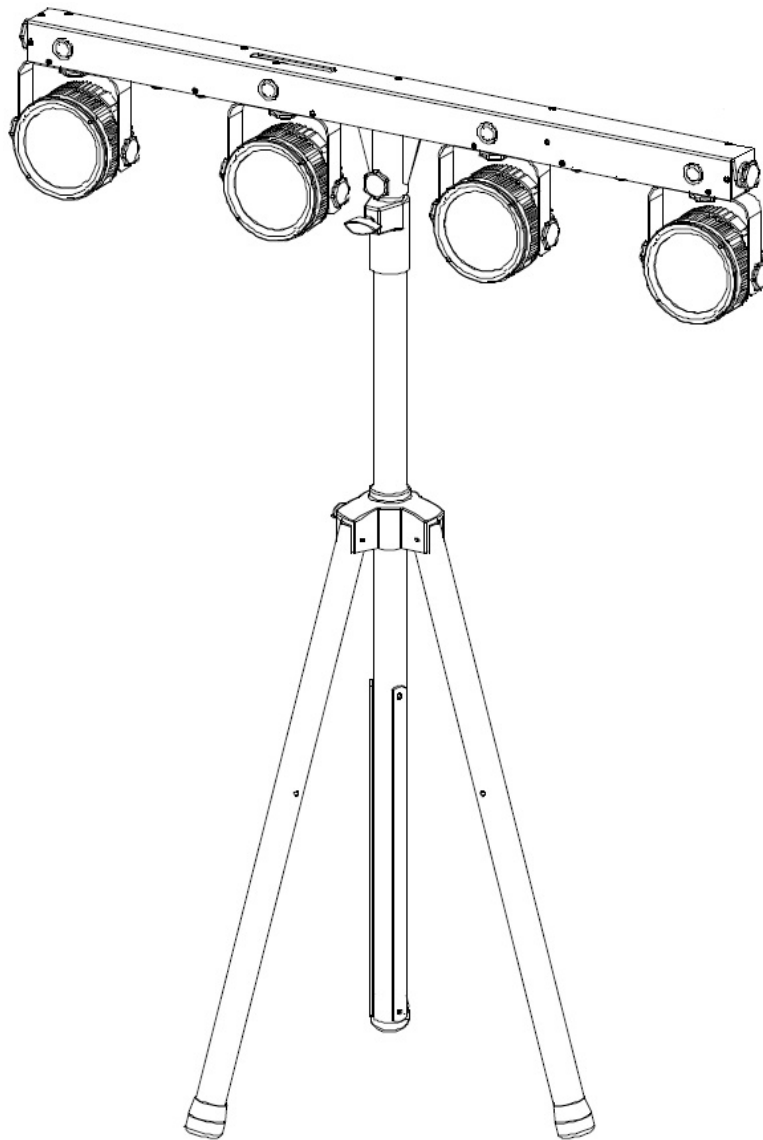




Manual



**COB Compact T-Bar MZ**

---

## Table of contents

1. Safety instructions .....	3
1.1. FOR SAFE AND EFFICIENT OPERATION .....	3
2. Designated use .....	4
2.1. Overhead installation .....	5
3. Introduction.....	7
3.1. Product overview .....	7
4. Connections .....	8
4.1. Electrical connections.....	8
4.2. DMX connections .....	8
4.3. DMX connection with terminator.....	8
5. Control .....	9
5.1. Structure of the menu .....	9
5.2. Foot switch.....	10
6. DMX chart .....	11
6.1. DMX Mode 1(3 channel).....	11
6.2. DMX Mode 2 (6 channels).....	13
6.1. DMX Mode 3 (28 channels).....	13
7. Technical data .....	14

## 1. Safety instructions



- This device is suitable for indoor use (not outdoors) only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

### 1.1. FOR SAFE AND EFFICIENT OPERATION

#### **Be careful with heat and extreme temperature**

Avoid exposing it to direct rays of the sun or near a heating appliance.  
Not put it in a temperature bellow 32°F /0°C, or exceeding 104°F /40°C.

#### **Keep away from humidity, water and dust**

Do not place the set in a location with high humidity or lots of dust.  
Containers with water should not be placed on the set.

#### **Keep away from sources of hum and noise**

Such as transformer motor, tuner, TV set and amplifier.

#### **To avoid placing on un-stable location**

Select a level and stable location to avoid vibration.

#### **Do not use chemicals or volatile liquids for cleaning**

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

#### **If out of work, contact sales agency immediately**

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

#### **Take care with the power cable**

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug. When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

#### **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. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.**

## 2. Designated use

This device was developed for professional use on stages, in discos, theatres etc. The device is only approved for a connection up to 230V 50/60 Hz AC voltage and only for indoor use.

Regular breaks during operation increase the lifetime of your device.

Avoid convulsions or any form of forceful impact during the installation or the start-up of the device.

Make sure that the device is not exposed excessive heat, humidity or dust at the place of installation. Take care that no cables are lying around. You would endanger your own safety and also the safety of a third party.

It is not allowed to operate or store the device in an environment in which spray water, rain, humidity or fog is expected. Humidity or very high atmospheric humidity could reduce the isolation of the device and could cause deathly electric shocks. If you use fog devices the device has not be exposed to a direct smoke jet. There has to be a safety distance of at least 0,5m between this device and the fog machine. Make sure that the saturation of the fog has to enable a visibility of at least 10m.

The ambient temperature has to be between 0°C and +40°C. Avoid direct sunlight and close proximity to heaters. You have also to attend it during the transport in closed motor vehicles.

Operate the device not during thunderstorms. Surge voltages could destroy the device. Unplug the power supply during thunderstorms.

During the installation the use of the mounting bracket is obligatory.

Surrounding objects or surfaces should not be in contact with the device.

Make sure that during the installation and removal of the device the area below the place of installation is basically cordoned off. This also applies to implementation of service.

The device has basically been protected by a suitable safety.

Make familiar yourself with the functions of the device before start-up. People without the experience should not handle with the device. The most cause of functional disorder is inappropriate handling.

Do not use chemicals or volatile liquids for cleaning. Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

For transport use the original packing or designated accessory to avoid damages during the transport.

### **For reasons of safety unauthorized changes are forbidden.**

A usage of the device which differs from usages which are described in this manual can cause damages of the device. In that case the warranty expires. Additional you should notice that every differed usage is related with dangers and can cause e.g. an electrical short, fire, electric shock or crash.

## 2.1. Overhead installation



### **Danger of life!**

**You have to observe the regulations of BGV C1 (formerly VBG 70) and EN60598-2-17 Installations are to carry out by skilled personnel only.**

The suspension devices have to be build and measured so they can withstand for an hour the tenfold of the payload without suffering a permanent detrimental deformation.

Basically installation has to be made by using a second separate suspension. This can be e.g. a suitable net. The second suspension must be designed and attached so no part of the installation can fall down in case of failure.

During construction, reconstruction and deconstruction unnecessary stay in the range of moving areas, on lightning bridges, under elevated work stations or any other danger zones is forbidden.

The operator is obliged to following safety-related and mechanical facilities:

- Before the first start-up or after critical changes before restarting it has to be checked by an expert.
- Review in the frame of the inspection test at least all four years by an expert. .
- Review by a qualified person at least once a year.

### **How to carry out the overhead installation:**

In tidal fall you should install the device out of the lounge area of people

**IMPORTANT!** Overhead installation requires a high level of experience. This includes knowledge of calculating the payload, used installation material and safety inspections of the used material and the projector whereas the required experience is not limited to this. Do not try to carry out installation yourself under any circumstances if you are not qualified. Contact a professional installer. An inappropriate installation can lead to injuries and/or damaged properties.

It is not allowed to install the device in the grip area of people.

If the device may hang from the ceiling or from high beams, the use of truss systems is mandatory. The device may not be installed so it can swing freely in the room.

Please note: Crashing down items can cause serious injuries! Do not install the projector, if you doubt the safety of a possible installation form!

Before installation make sure that the mounting surface has the ability to carry the tenfold point load of the own weight of the device.

Mount the device with the mounting-bracket to your trussing system using an appropriate clamp.

During overhead installation the device must be always secured by a safety rope which is designed to hold the twelvefold weight of device. Only safety ropes with quick-release safety fastener elements may be used. Hang up the safety rope in the hole of the mounting bracket. Direct the rope over the truss or an appropriate fastening point. Hang up the end in the fastening element and tie up the locking nut. A safety rope once exposed to failing load or damaged may not be used furthermore.

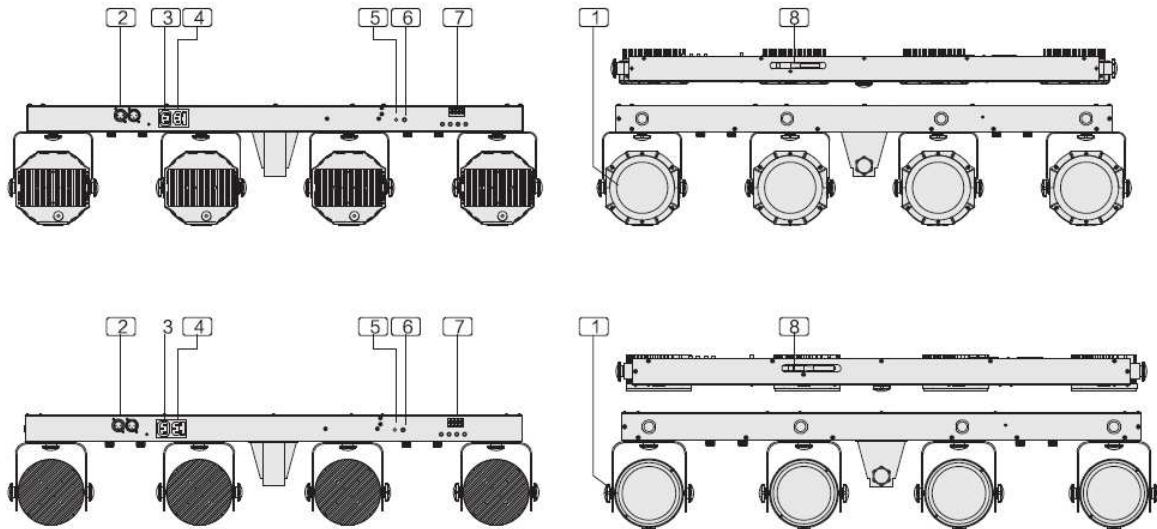
**The maximum drop exceed must not exceed 20cm.**

A safety rope once exposed to failing load or damaged may not be used furthermore.  
Adjust the desired inclination angle via the mounting bracket and tighten the screw.

### 3. Introduction

Thank you for buying the **COB Compact T-Bar MZ**. . It is a powerful device.  
For a successful installation and operation, please read this manual carefully.

#### 3.1. Product overview



1. **LED PAR**
2. **DMX In / Out**  
DMX In-/Output XLR 3pol male / female
3. **Strom out IEC**
4. **Strom in IEC**
5. **Microphone**
6. **Sensitivity knob for microphone**
7. **Display**
8. **Antenna**  
Wireless antenna for footswitch.

## 4. Connections

### 4.1. Electrical connections

If you wish to change the power supply settings, see the chapter Appendix. Connect the fixture to the mains with the enclosed power cable and plug. The earth has to be connected.

Cable (EU)	Cable (US)	Pin	International
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	⊕

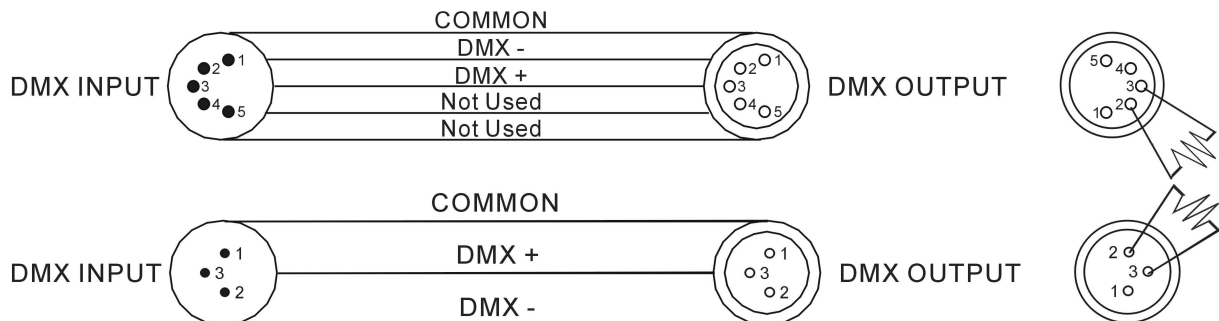
### 4.2. DMX connections

To make a DMX512 connection go ahead like it is described in the picture. Make sure that you use shielded cable. 3pole or 5pole XLR cables are suitable.

Important! After the last device the line has to be terminated. In order to do this you have to solder a 120Ω resistor between the pins Data + and Data -. You can solder this end resistor on a 3pin or 5pin XLR: Plug this adapter into the DMX output of the device.

### 4.3. DMX connection with terminator

Where the DMX cable has to run a long distance or the equipment is operated in an electrically noisy environment like a disco for installations, we recommend using a DMX terminator. This prevents corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR connector with a 120 Ω resistor between pins 2 and 3, which is then plugged into the XLR output socket of the last device in the series. Please look to the bottom drawings.





## 5. Control

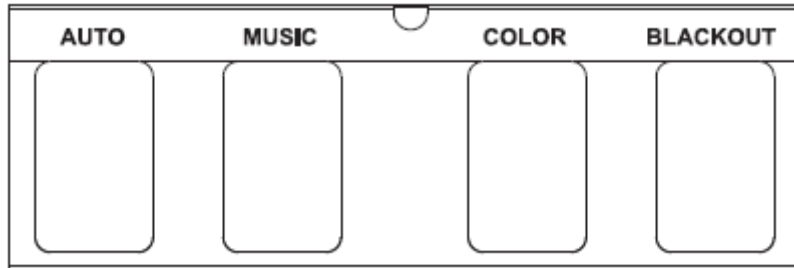
Press MENU to reach the first menu and use UP/DOWN to get to submenu. To open submenu you have to press ENTER, here you can also reach other menu items with UP/DOWN buttons, confirm with ENTER. Press MENU to store your settings.

### 5.1. Structure of the menu

Menu	Submenu 1	Submenu 2	Submenu 3	Function
Aut	AutP	AP01 – AP17	S01 – S99	Choosing one of 17 automatic programs and setting the speed slow-fast.
	AutF	AF01 – AF10		Choosing one of 10 strobe programs and setting the speed slow-fast.
	AutM	AM01 - AM03		Choosing one of 3 shows and setting the speed slow-fast.
Sou	SouP	SP01 – SP12		Choosing one of 12 automatic programs in Sound-to-Light mode.
	SouF	SF01 – SF10		Choosing one of 10 strobe programs in Sound-to-Light mode.
	SouM	Sm01 – SM03		Choosing one of 3 shows in sound-to-Light mode.
CoL	CoLo	r.000 – r.255	S.000 – S.099	Dimmer red 0 – 100% and setting speed of strobe.
		G.000 – G.255		Dimmer green 0 – 100% and setting speed of strobe.
		b.000 – b.255		Dimmer blue 0 – 100% and setting speed of strobe.
		A.000 – A.255		Dimmer White 0 – 100% and setting speed of strobe.
SYN	SY –A	S.01 – S.99		Synchronic automatic mode and setting speed.
	SY – N			Synchronic Sound-to-Light mode.
dMH	d001			The word flashes if the device gets no DMX signal.
	03Ch			Choosing a DMX mode.
	06Ch			
	28Ch			
	d000 – d512			Setting the DMX address.
SLA	S001			Activates the slave mode.
	001 – 255			Setting the address.
SYS	M – En	On /Off		The device works as master in synchronic mode. .
	U –En	On / Off		Activates the foot switch.
	tEST			Test mode
	rEST			Reset

---

## 5.2. Foot switch



	<b>Function</b>
AUTO	The automatic mode is activated.
SOUND	The Sound-to-Light mode is activated.
COLO	RGBW color setting.
BLACKOUT	Light off.

## 6. DMX chart

### 6.1. DMX Mode 1(3 channel)

Channel	Value from	Value to	Function
1	0	9	No function
	10	50	Activates an automatic program of channel 2
	51	90	Activates a strobe program of channel 2.
	91	130	Activates the shows of channel 2.
	131	170	Activates an automatic program in Sound-to-Light mode of channel 2
	171	210	Activates a strobe program in Sound-to-Light mode of channel 2.
	211	255	Activates the shows in Sound-to-Light mode of channel 2.
2			You have to activate the automatic programs with channel 1.
	0	14	Automatic program 1
	15	29	Automatic program 2
	30	44	Automatic program 3
	45	59	Automatic program 4
	60	74	Automatic program 5
	75	89	Automatic program 6
	90	104	Automatic program 7
	105	119	Automatic program 8
	120	134	Automatic program 9
	135	149	Automatic program 10
	150	164	Automatic program 11
	165	179	Automatic program 12
	180	194	Automatic program 13
	195	209	Automatic program 14
	210	224	Automatic program 15
	225	239	Automatic program 16
	240	255	Automatic program 17
			You have to activate the strobe programs with channel 1.
	0	24	Strobe program 1
	25	49	Strobe program 2
	50	74	Strobe program 3
	75	99	Strobe program 4
	100	124	Strobe program 5
	125	149	Strobe program 6
	150	174	Strobe program 7
	175	199	Strobe program 8
	200	224	Strobe program 9
	225	255	Strobe program 10
			You have to activate the shows with channel 1.

	0	99	Show 1
	100	199	Show 2
	200	255	Show 3
			You have to activate the automatic programs in Sound-to-Light mode with channel 1.
	0	19	Automatic program 1
	20	39	Automatic program 2
	40	59	Automatic program 3
	60	79	Automatic program 4
	80	99	Automatic program 5
	100	119	Automatic program 6
	120	139	Automatic program 7
	140	159	Automatic program 8
	160	179	Automatic program 9
	180	199	Automatic program 10
	200	219	Automatic program 11
	220	255	Automatic program 12
			You have to activate the strobe programs in Sound-to-Light mode with channel 1.
	0	24	Strobe program 1
	25	49	Strobe program 2
	50	74	Strobe program 3
	75	99	Strobe program 4
	100	124	Strobe program 5
	125	149	Strobe program 6
	150	174	Strobe program 7
	175	199	Strobe program 8
	200	224	Strobe program 9
	225	255	Strobe program 10
			You have to activate the shows in Sound-to-Light mode with channel 1.
	0	99	Show 1
	100	199	Show 2
	200	255	Show 3
3	0	255	Setting the speed slow - fast

## 6.2. DMX Mode 2 (6 channels)

Channel	Value from	Value to	Function
1	0	255	Dimmer red 0 – 100%
2	0	255	Dimmer green 0 – 100%
3	0	255	Dimmer blue 0 – 100%
4	0	255	Dimmer white 0 – 100%
5	0	191	Dimmer 0 – 100%
	192	200	Strobe in Sound-to-Light mode
	201	249	Strobe slow – fast
	250	255	All LEDs on
6	0	255	Strobe slow – fast

## 6.1. DMX Mode 3 (28 channels)

Channel	Value from	Value to	Function
1	0	255	Dimmer red 0 – 100%
2	0	255	Dimmer green 0 – 100%
3	0	255	Dimmer blue 0 – 100%
4	0	255	Dimmer White 0 – 100%
5	0	255	Dimmer 0 – 100%
6	0	255	Strobe slow– fast
7	0	255	Dimmer red 0 – 100%
8	0	255	Dimmer green 0 – 100%
9	0	255	Dimmer blue 0 – 100%
10	0	255	Dimmer White 0 – 100%
11	0	255	Dimmer 0 – 100%
12	0	255	Strobe slow– fast
13	0	255	Dimmer red 0 – 100%
14	0	255	Dimmer green 0 – 100%
15	0	255	Dimmer blue 0 – 100%
16	0	255	Dimmer White 0 – 100%
17	0	255	Dimmer 0 – 100%
18	0	255	Strobe slow– fast
19	0	255	Dimmer red 0 – 100%
20	0	255	Dimmer green 0 – 100%
21	0	255	Dimmer blue 0 – 100%
22	0	255	Dimmer White 0 – 100%
23	0	255	Dimmer 0 – 100%
24	0	255	Strobe slow– fast
25	0	255	Strobe 1 slow–fast
26	0	255	Strobe 2 slow– fast
27	0	255	Strobe 3 slow– fast
28	0	255	Strobe 4 slow- fast

## 7. Technical data

<b>Power supply</b>	
Voltage	AC 100-240 V; 50/60 Hz
Power consumption max.	130 W
<b>Light source</b>	
LM type	LED 4in1 and strobe LED white
Color spectrum	RGBW
Power	124 W
Number / Power	4x 30W and 4x 1W (Strobe LED)
<b>Connections</b>	
Power in	IEC
Power out	IEC
XLR in/out	3pol
<b>Controlling</b>	
Sound-to-Light	Yes
Automatic	Yes
Master-Slave	Yes
DMX512	Yes
Number of channels	3 / 6 / 28 channels
<b>Hardware</b>	
Protection class	IP20
Suitability	Indoor
Dimensions (L/B/H)	1023 x 71 x 215 mm
Weight	11,2 kg



**Importer:**

**B & K Braun GmbH**  
**Industriestraße 2**  
**D-76307 Karlsbad**  
[www.bkbraun.com](http://www.bkbraun.com)  
[info@bkbraun.com](mailto:info@bkbraun.com)

