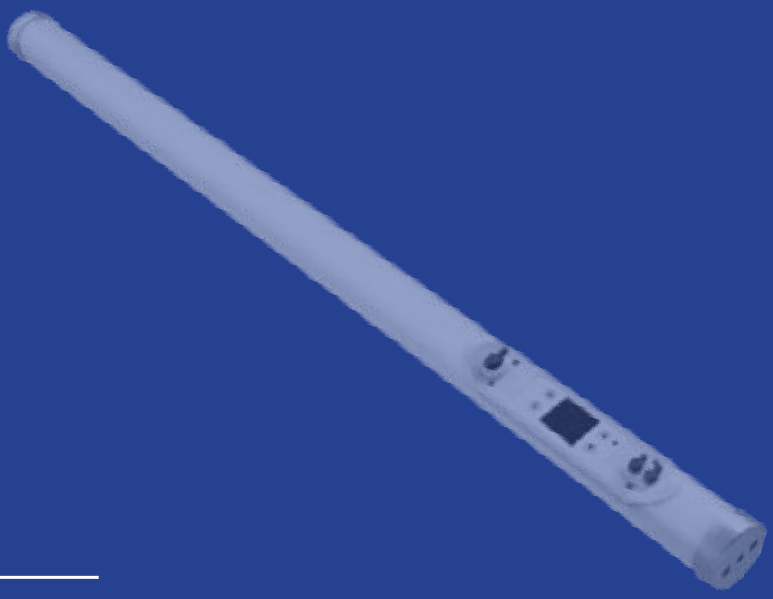
P16
QUAD TUBE



MAKE LIFE BRIGHTER

CONTACT

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SECTION 1

SAFETY INSTRUCTIONS & MAINTENANCE

This product is for professional use only. It is not for household use.

This product presents risks of severe injury or death due to fire and burn hazards, electric shock and falls. Read this manual before installing, powering or servicing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture. This device has left the factory in 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.

If you have questions about how to operate the fixture safely, please contact us via info@bos-lighting.nl.

WARNING!
Read the safety precautions in this section before unpacking, installing, powering or operating this product.

- Review the following safety precautions carefully before installing or operating the fixture. This fixture must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the fixture and the hazards involved.

WARNING!
Risk of electric shock.

- Always power off/unplug the fixture before removing any covers.
- Ensure that the power is turned off when connecting the fixture to the AC mains supply.
- Do not apply power if the fixture is in any way damaged.
- Do not immerse the fixture in water or liquid.

WARNING!
Take measures to prevent burns and fire.

- Install in a location that prevents accidental contact with the fixture.
- Install only in a well-ventilated space.
- Install at least 0.3 m (12 in.) away from objects to be illuminated.
- Install only in accordance with applicable building codes.
- Ensure a minimum clearance of 0.1 m (4 in.) around the cooling fans.
- Do not paint, cover or modify the fixture.
- Keep all flammable materials away from the fixture.
- Allow the fixture to cool for 15 minutes after operation, before touching it.
- CAUTION: Exterior surface temperature after 5 min. operation = 45 °C

WARNING!
Take measure to prevent personal injury.

- Do not look directly at the light source from close range.
- Take precautions to prevent injury due to falls when working at height.
- For permanent installation, ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosion-resistant hardware.
- For temporary installation with clamps, ensure that the quarter-turn fasteners are turned fully and secured with a suitable safety cable.
- The cable must be approved for a safe working load (SWL) of 10 times the weight of the fixture, and it must have a minimum gauge of 3 mm.

CAUTION!
Disconnect from mains before starting maintenance operation

The following points have to be considered during the inspection:

1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2. There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
3. Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4. The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

SECTION 2

INSTALLATION

WHAT IS IN THE BOX?

- 1x P16 QUAD TUBE
- 1x Charger

PREPARING

Unpack the fixture and inspect it to ensure that it has not been damaged during transport. Read the manual before installation.

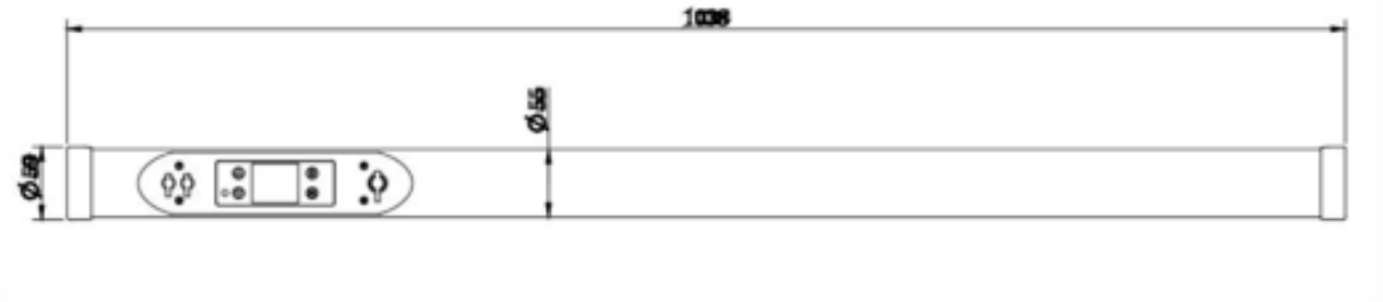
When selecting a location for the fixture, ensure that:

- It is situated away from public thoroughfares and protected from contact with people.
- It is placed with no chance of getting wet
- It has adequate ventilation.

SECTION 3

PRODUCT SIZE & MOUNTING

DIMENSIONS P16 QUAD TUBE

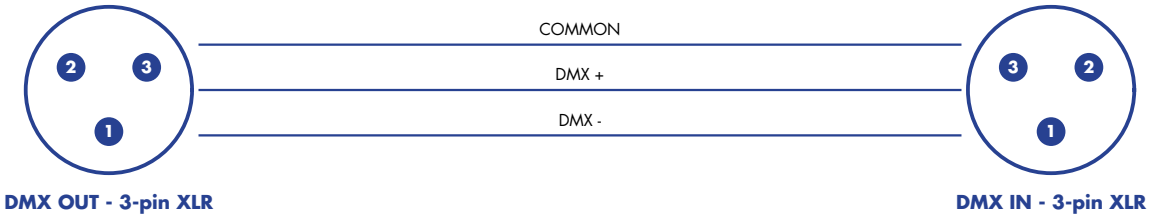




SECTION 4

DMX-512 CONTROL CONNECTIONS

Connect the provided XLR cable to the female 3-pin XLR & 5-pin XLR output of your controller and the other side to the male 3-pin XLR & 5-pin XLR input of the moving head. You can chain multiple moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



DMX OUT - 3-pin XLR **DMX IN - 3-pin XLR**

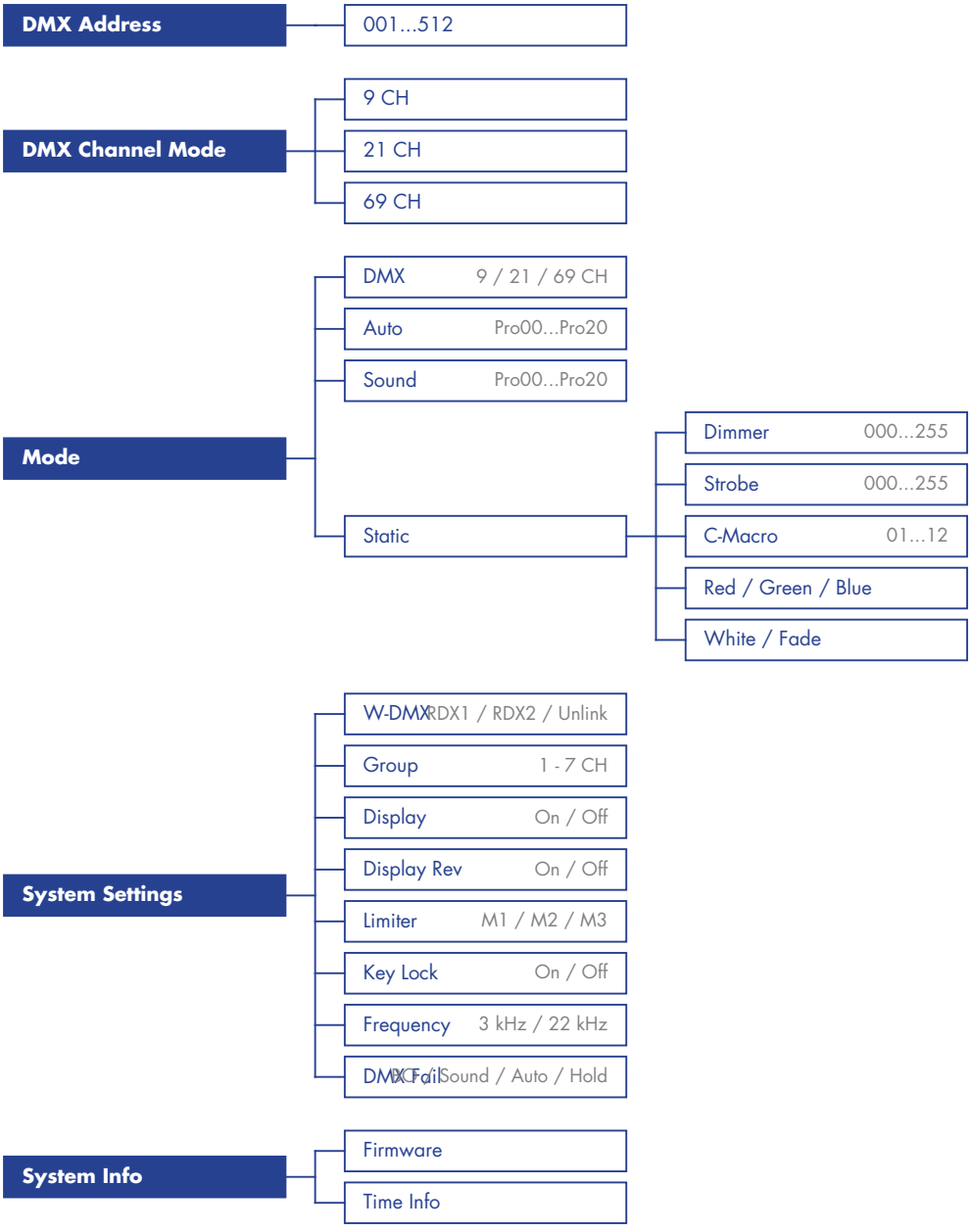
1: Ground
2: Data - (cold)
3: Data + (hot)

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ohm resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

SECTION 5

MENU OVERVIEW

Switch on by holding M for three seconds. Switch off by holding the up and down buttons together for three seconds. M opens the main menu and steps back, E confirms, and the arrows choose.



SECTION 6

DMX CHANNELS

9 CH

Channel	Function	Value	Description
1	Dimmer	000...255	From dark to bright
2	Strobe	000...008	No strobe
		009...255	Strobe from slow to fast
3	Red	000...255	From dark to bright
4	Green	000...255	From dark to bright
5	Blue	000...255	From dark to bright
6	White	000...255	From dark to bright
7	CTO	000...255	From warm to cold (1100 K - 6500 K)
8	Colour chase	129...171	Effect
9	Chase speed	1...20	Effect speed

21 CH

Channel	Function	Value	Description
1	Dimmer	000...255	From dark to bright
2	Strobe	000...008	No strobe
		009...255	Strobe from slow to fast
3 - 18	Group 1 - 16	000...255	One channel per section: red, green, blue and white follow
19	CTO	000...255	From warm to cold (1100 K - 6500 K)
20	Colour chase	1...20	Effect
21	Chase speed	000...255	From slow to fast

69 CH

Channel	Function	Value	Description
1	Dimmer	000...255	From dark to bright
2	Strobe	000...008	No strobe
		009...255	Strobe from slow to fast
3 - 6	Section 1	000...255	Red, green, blue, white
...	...	...	Four channels per section
63 - 66	Section 16	000...255	Red, green, blue, white
67	CTO	129...171	From warm to cold (1100 K - 6500 K)
68	Colour chase	1...20	Effect
69	Chase speed	000...255	From slow to fast

DMX CHANNELS

Colour values on the colour channel

Value	Colour	Value	Colour
000...015	No function	128...143	Cyan
016...031	Red	144...159	Fern green
032...047	Green	160...175	Lavender
048...063	Blue	176...191	CTB
064...079	White	192...207	Light yellow
080...095	Yellow	208...223	Pink
096...111	Magenta	224...239	Baby blue
112...127	Baby pink	240...255	Full white

Static colours in the menu (C-Macro)

Value	Colour	Value	Colour
01	Orange	07	Yellow
02	Green	08	Light blue
03	Blue	09	Purple
04	Orange	10	Fern green
05	Cyan	11	Magenta
06	Magenta		

Colour temperature in the menu (CTO)

Value	Colour temperature
001	Warm
002	Middle
003	Cold

SECTION 7

TROUBLESHOOTING AND CLEANING

CAUTION!
Disconnect from mains before starting maintenance operation

The lamp contains professional components such as microcomputer circuit board and high-voltage power supply. For your safety and product life, non-professionals should not disassemble the lamp and related accessories without authorization.

The diode does not light up (except LED light source)

Possible cause: The bulb is not completely cooled, or the bulb has reached the end of its life, the treatment is as follows:

- Due to abnormal operation, the bulb is not completely cooled down, so let the lamp body cool down for more than 10 minutes to make the inside completely return to normal state, and then turn on the power again.
- Check whether the bulb has reached the end of its life, and replace it with a new one.
- Check whether the bulb and the lighter circuit are leaking, falling off, or having poor contact.
- Replace with a new light source.

The light beam appears dim

Possible cause: The bulb has been used for a long time or the light path is not clean, the treatment is as follows:

- Check whether the bulb has reached the end of its life, and replace it with a new one
- Check whether the optical components or bulbs are clean, and whether there is dust on the bulbs and other optical components.
- Regular cleaning and maintenance of the bulbs and components in the lamps are required.

Blurred pattern projection

Possible cause: Lenses are dirty or electronic focus is defect:

- Check if the lenses are clean.
- Check whether the electronic focus channel value is suitable for the current projection distance.

The lamps work intermittently

Possible cause: The internal circuit enters the protection state, and the treatment is as follows

- Check whether the fan is operating normally or whether it is dirty, causing the internal temperature of the lamp to rise
- Check whether the internal temperature control switch is closed
- Check whether the bulb has reached the end of its service life, and replace it with a new one.

After the lamp is reset normally, it does not accept the control of the console

Possible cause: signal line failure or abnormal lamp parameter setting, the treatment is as follows:

- Check the start address code and check the connection of the DMX signal line (whether the signal line cable is intact, and whether the connection of the head is loose)
- Add signal amplifier, add 120 ohm terminal resistance.

The lamp can't start

Possible cause: bad power line, the treatment is as follows:

- Check whether the fuse on the power input socket is fused, replace the fuse.
- Lamps have poor line contact due to vibration during long-distance transportation.
- Check the input power, computer board and other plug-in devices.

CAUTION!
Disconnect from mains before starting cleaning operation

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1. Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2. Clean the fan each week.
3. A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol solvents.

TROUBLESHOOTING AND CLEANING

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.

SECTION 8

TECHNICAL SPECIFICATIONS

Light source	128 x 0,25 W RGBW 4-in-1, 16 pixel zones
Repetition rate	3 kHz or 22 kHz, selectable
Power	Battery, charging through 12 V DC
Battery	Lithium ion 12 V, 8000 mAh
Battery life	8 hours (all colours), 20 hours (single colour)
Charge time	5 hours
Control	DMX, wireless DMX, buttons and display, infrared remote control
Number of DMX channels	9 CH, 21 CH, 69 CH
Control connections	Mini-jack in/out or wireless
Power consumption	40 W
Charger supply voltage	100 - 240 V, 50/60 Hz
Protection class	IP64, splash proof
Mounting options	Hanging or standing
Dimensions (diameter x length)	55 mm x 1038 mm
Weight	2,2 kg
Temperature range	-30 °C ... 50 °C
Relative humidity	20 % ... 80 % (non-condensing)
Construction	Outdoor housing
Number of LEDs	128
Colour mixture	RGBW
LED type	4-in-1
Fanless	Yes
Wireless DMX	Yes
Housing colour	White