BOS LIGHTING

CORUSCUM TILT-STROBE



MAKE LIFE BRIGHTER

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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 Coruscum Tilt-Strobe
- 1x Shuko -> True1
- 1x Safety cable
- 2x Quicklock bracket for clamp

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.

IP65

IP65 is not waterproof - it is water resistant. A product with an IP65 rating cannot be submerged and keep its protection.

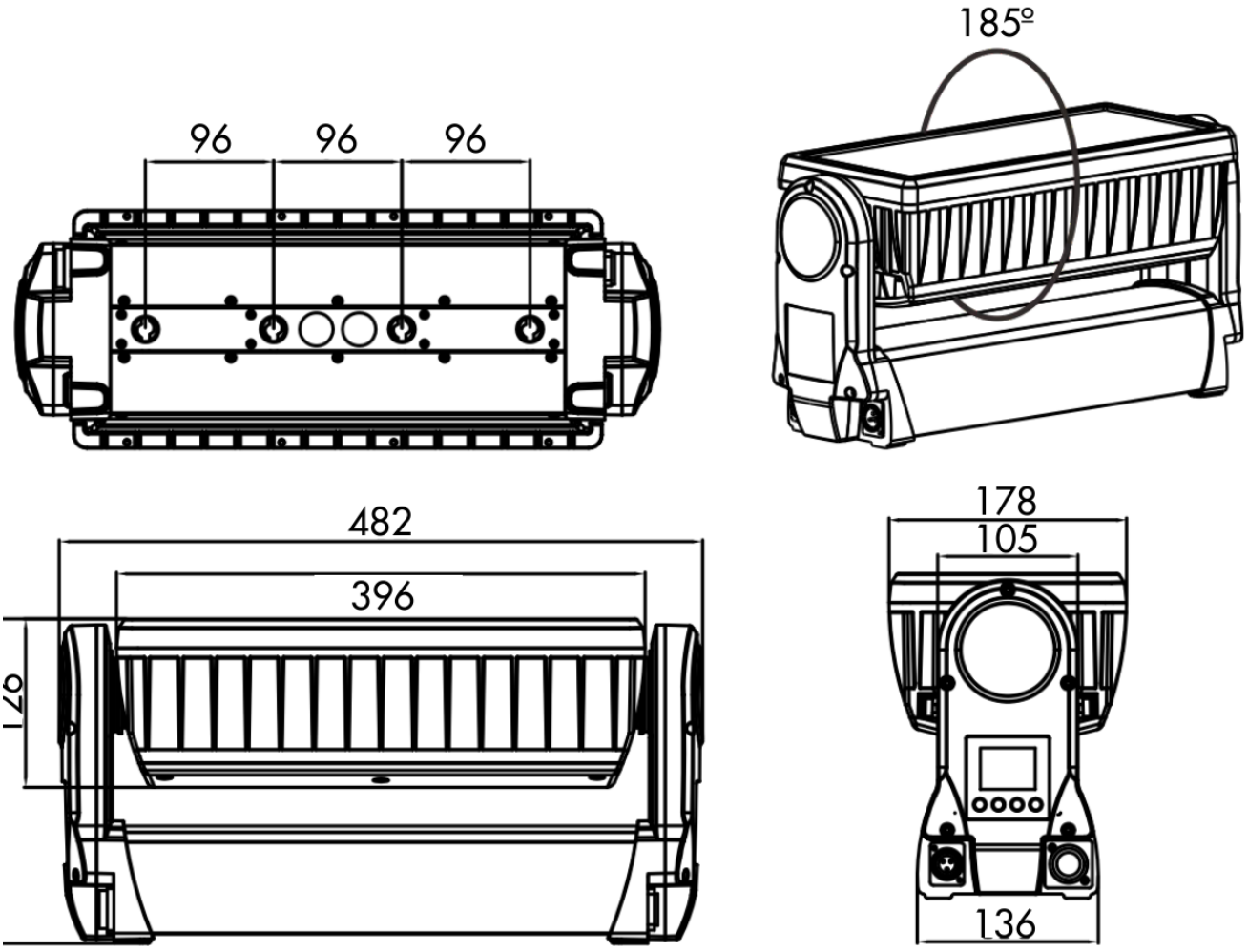
The first digit stands for solids: 6 means dust tight, no ingress of dust. The second digit stands for liquids: 5 means protected against jets of water from any direction, with limited ingress permitted.

The CORUSCUM TILT-STROBE is intended for temporary use: festivals, theatres, indoor and outdoor concerts. Permanent outdoor use leads to damage through ageing of the materials and of the coated surfaces, and the rubber seals are affected by long-term UV exposure.

Overtightening the screws affects the IP rating. Follow the cleaning and maintenance procedures to keep the fixture safe.

PRODUCT SIZE & MOUNTING

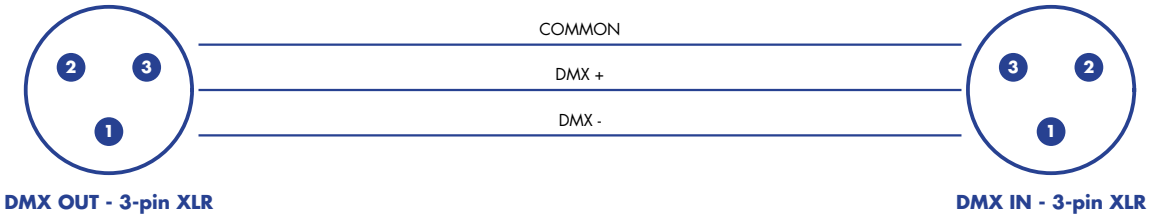
DIMENSIONS CORUSCUM TILT-STROBE



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.



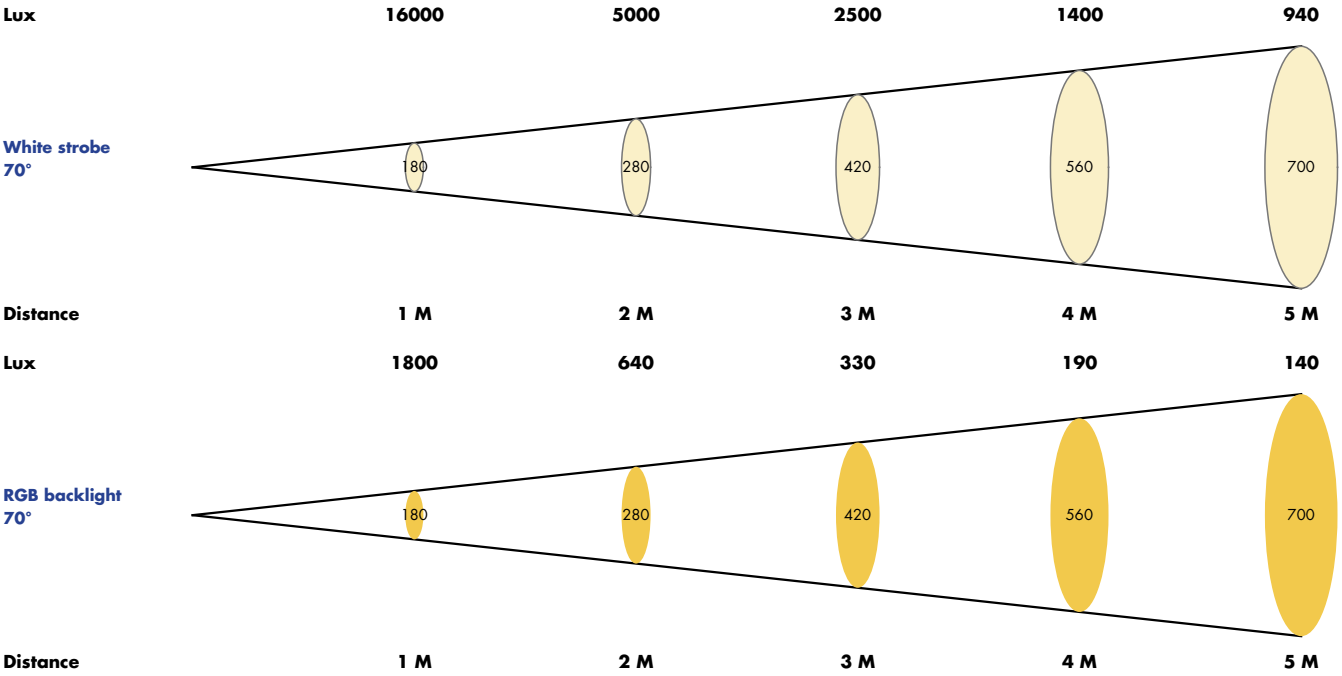
DMX OUT - 3-pin XLR **DMX IN - 3-pin XLR**

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

PHOTOMETRIC DATA



Lux per source

Source	1 M	2 M	3 M	4 M	5 M
White	16000	5000	2500	1400	940
RGB	1800	640	330	190	140
Red	1400	501	280	170	130
Green	177	95	47	28	20
Blue	775	240	120	70	50

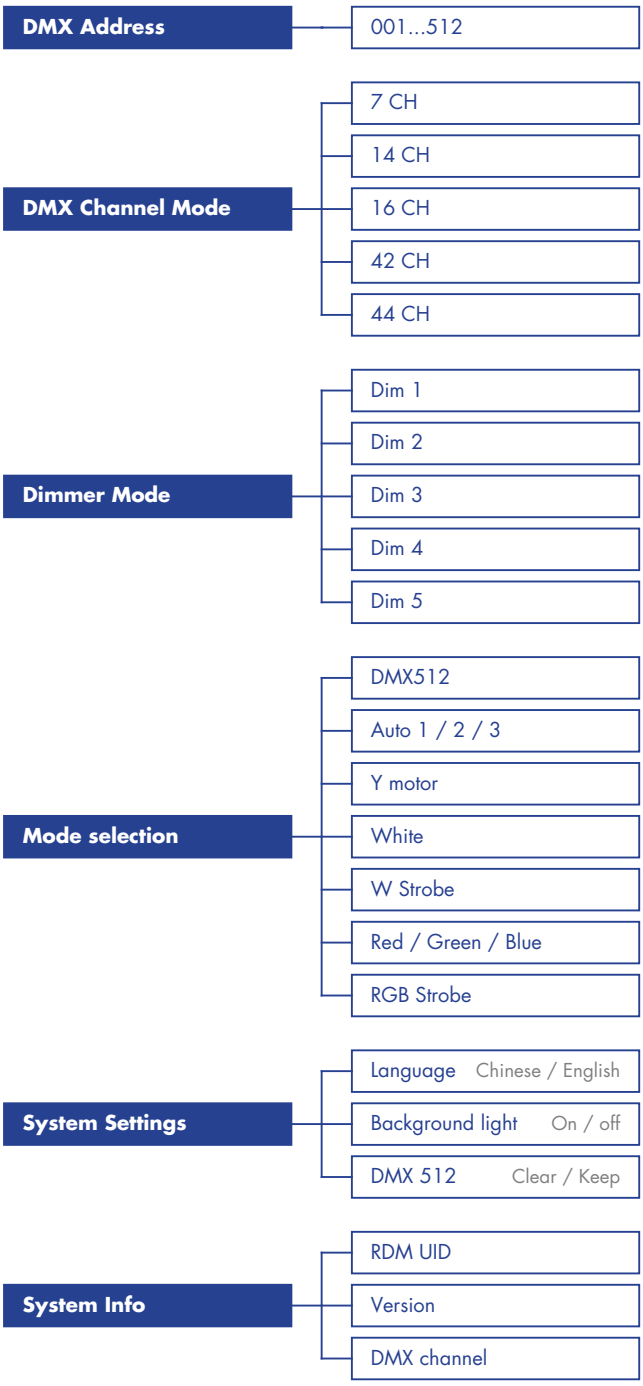
Beam size in centimeters

Angle	1 M	2 M	3 M	4 M	5 M
70°	180	280	420	560	700

SECTION 6

MENU OVERVIEW

A opens the menu (press and hold to unlock the screen), B and C step through the functions and D confirms. The display is E.



SECTION 7

DMX CHANNELS

7 CH

Channel	Function	Value	Description
1	Tilt movement	000...255	Across 185 degrees
2	Beam intensity	000...255	From dark to bright
3	Beam strobe mode	000...005	No strobe
		006...042	Strobe mode 1
		043...085	Strobe mode 2
		086...128	Strobe mode 3
		129...171	Strobe mode 4
		172...214	Strobe mode 5
		215...255	Strobe mode 6
4	Plate red	000...255	From dark to bright
5	Plate green	000...255	From dark to bright
6	Plate blue	000...255	From dark to bright
7	Plate strobe	000...009	No strobe
		010...255	Strobe from slow to fast

14 CH

Channel	Function	Value	Description
1	Tilt movement	000...255	Across 185 degrees
2	Tilt fine	000...255	Fine adjustment
3	Beam intensity	000...255	From dark to bright
4	Beam strobe mode	000...255	Six strobe modes, see 7 CH
5	Reserved	000...255	No function
6	Beam macro	000...015	Beam off
		016...255	Six macros, in steps
7 - 9	Plate RGB	000...255	Red, green, blue
10	Plate strobe	000...009	No strobe
		010...255	Strobe from slow to fast
11	Plate macro	000...004	Off
		005...255	Macro 1 to 51
12	Plate macro colour	000...255	Colour selection
13	Plate macro speed	000...255	From slow to fast
14	Plate total dimmer	000	Close
		001...255	From dark to bright

DMX CHANNELS

16 CH

Channel	Function	Value	Description
1 - 14	As 14 CH	000...255	Tilt, strobe, backlight and macros
15	Tilt speed	000...255	From fast (0) to slow (255)
16	Plate dimmer speed	000...255	From fast (0) to slow (255)

42 CH

Channel	Function	Value	Description
1 - 13	As 14 CH	000...255	Tilt, strobe, backlight and macros
14	Plate total dimmer	000	Close
		001...255	From dark to bright
15	Beam section 1	000...255	From dark to bright
16	Beam section 2	000...255	From dark to bright
17	Beam section 3	000...255	From dark to bright
18	Beam section 4	000...255	From dark to bright
19 - 21	Plate block 1	000...255	Red, green, blue
22 - 24	Plate block 2	000...255	Red, green, blue
25 - 27	Plate block 3	000...255	Red, green, blue
28 - 30	Plate block 4	000...255	Red, green, blue
31 - 33	Plate block 5	000...255	Red, green, blue
34 - 36	Plate block 6	000...255	Red, green, blue
37 - 39	Plate block 7	000...255	Red, green, blue
40 - 42	Plate block 8	000...255	Red, green, blue

44 CH

Channel	Function	Value	Description
1 - 13	As 14 CH	000...255	Tilt, strobe, backlight and macros
14	Plate total dimmer	000...255	From dark to bright
15	Beam section 1	000...255	From dark to bright
16	Beam section 2	000...255	From dark to bright
17	Beam section 3	000...255	From dark to bright
18	Beam section 4	000...255	From dark to bright
19 - 21	Plate block 1	000...255	Red, green, blue
22 - 24	Plate block 2	000...255	Red, green, blue
25 - 27	Plate block 3	000...255	Red, green, blue
28 - 30	Plate block 4	000...255	Red, green, blue
31 - 33	Plate block 5	000...255	Red, green, blue

DMX CHANNELS

Channel	Function	Value	Description
34 - 36	Plate block 6	000...255	Red, green, blue
37 - 39	Plate block 7	000...255	Red, green, blue
40 - 42	Plate block 8	000...255	Red, green, blue
43	Tilt speed	000...255	From fast (0) to slow (255)
44	Plate dimmer speed	000...255	From fast (0) to slow (255)

SECTION 8

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 9

TECHNICAL SPECIFICATIONS

Strobe tube LEDs	144 x 5 W LED
Strobe panel LEDs	480 x 0,5 W RGB 3-in-1 LED
Beam angle	45°
Repetition rate	26 kHz
Tilt	185 degrees
Control	DMX, RDM, master/slave, buttons and display
Number of DMX channels	7, 14, 16, 42 of 44 CH
Power connections	Lockable True1 in/out
Control connections	3-pin XLR in/out
Power consumption	1000 W
Operating supply voltage	100 - 240 V, 50/60 Hz
Protection class	IP65, indoor and outdoor
Mounting options	Hanging or standing
Dimensions (W x H x D), with bracket	482 mm x 243 mm x 178 mm
Weight	12,5 kg
Temperature range	-30 °C ... 50 °C
Relative humidity	20 % ... 80 % (non-condensing)
Number of LEDs	624
Wireless DMX	No
Housing colour	Black