



B O S
LIGHTING

AMADEUS H250



MAKE LIFE BRIGHTER



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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.

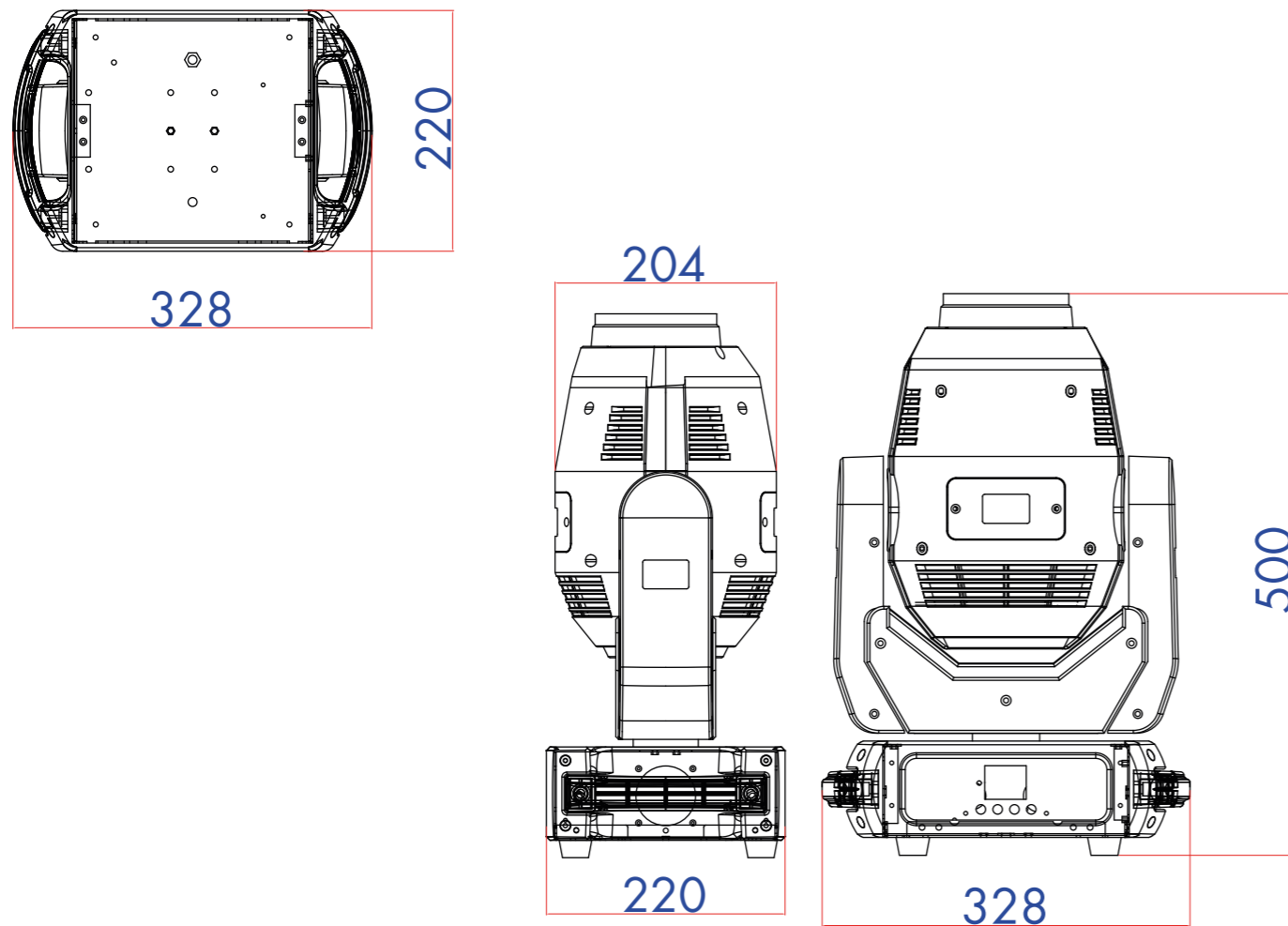
Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

SECTION 2 INSTALLATION

WHAT IS IN THE BOX?

- 1x Amadeus H250
- 1x Shuko -> True1
- 2x Tilt brackets with fast locks with manual tilt adjustment
- 1x Safety cable

DIMENSIONS AMADEUS H250



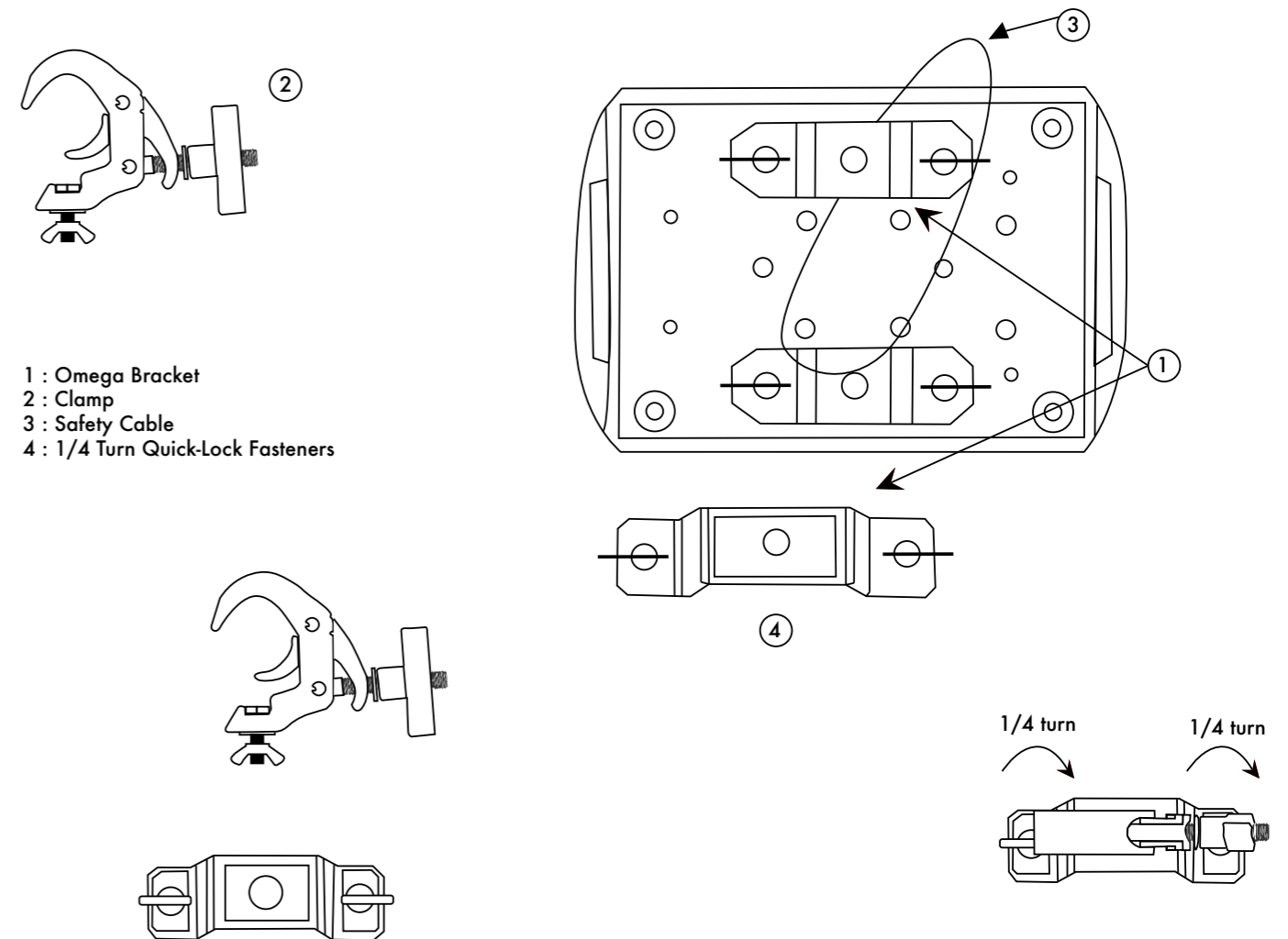
PREPARING

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.

INSTALLATION OF THE CLAMP

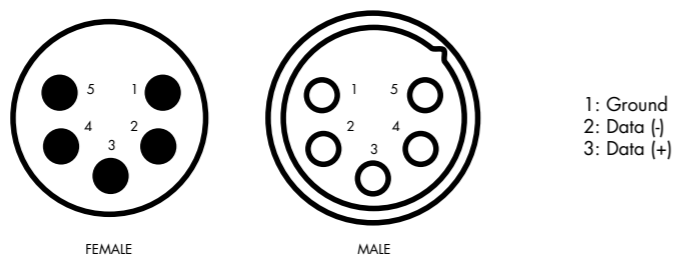
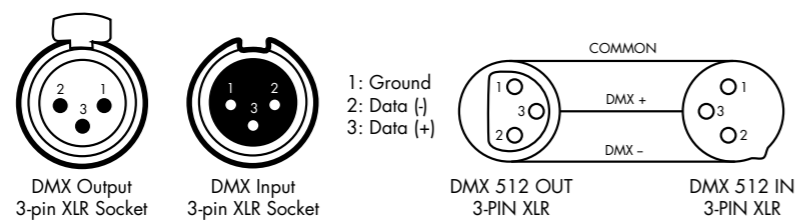




SECTION 3 DMX-512 CONTROL CONNECTIONS

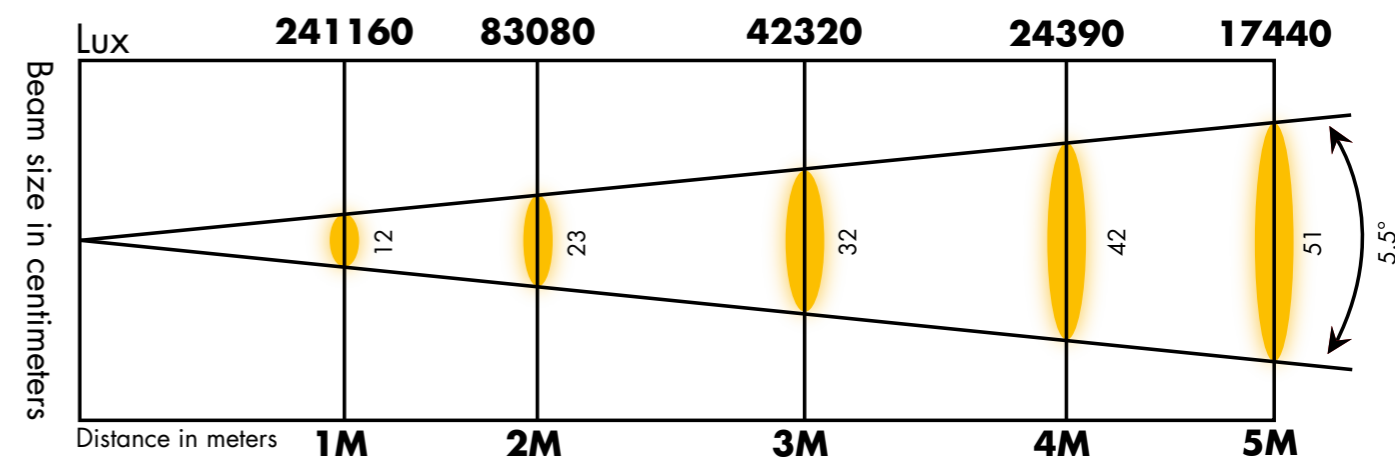
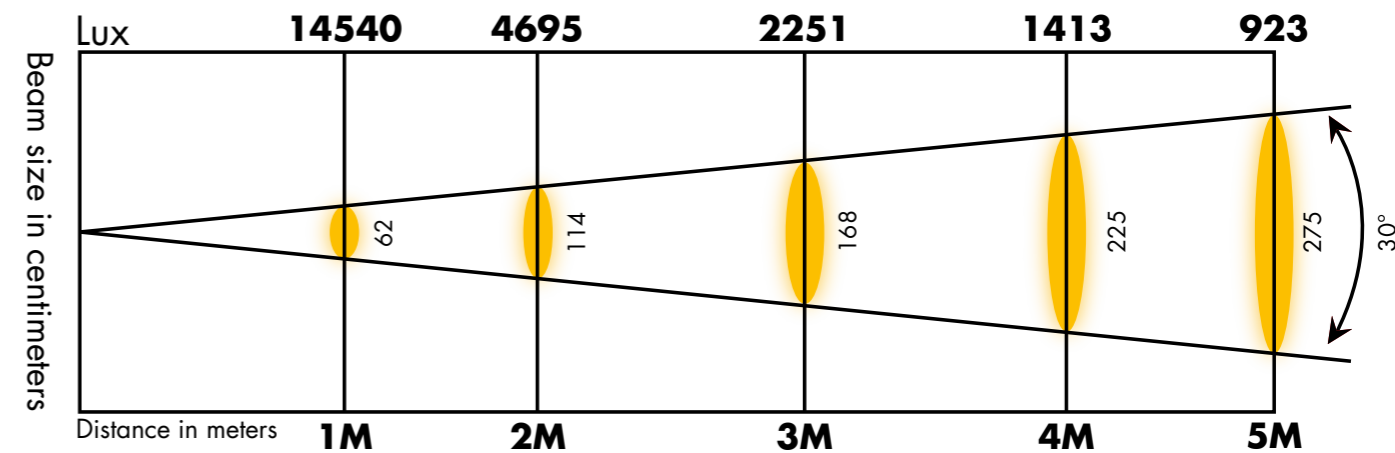
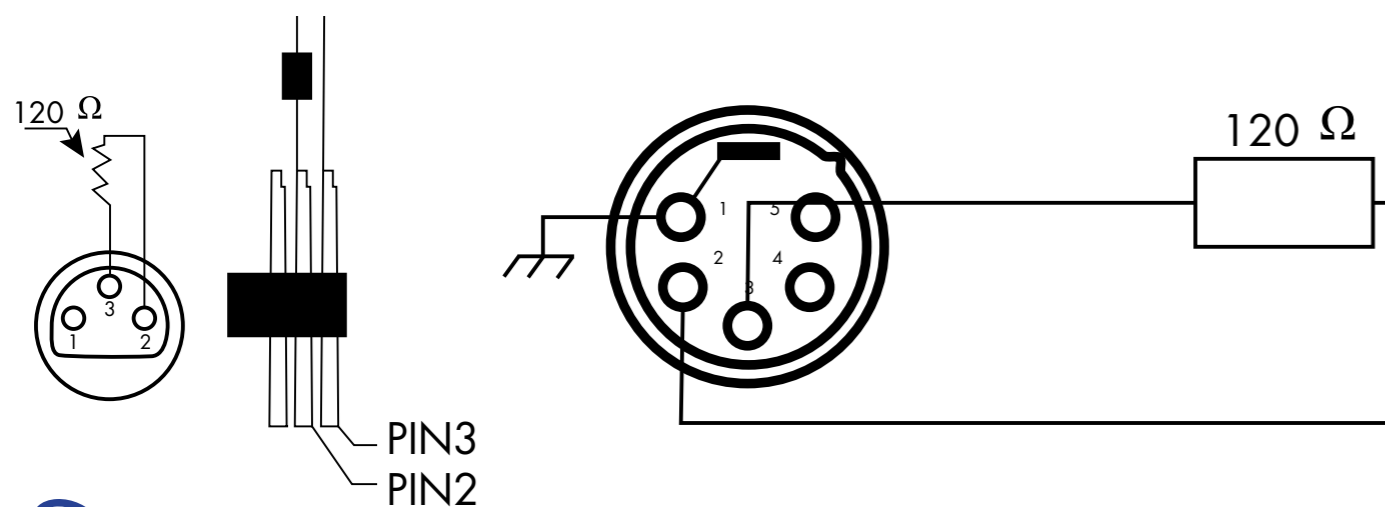
SECTION 4 PHOTOMETRIC DATA

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.



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 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

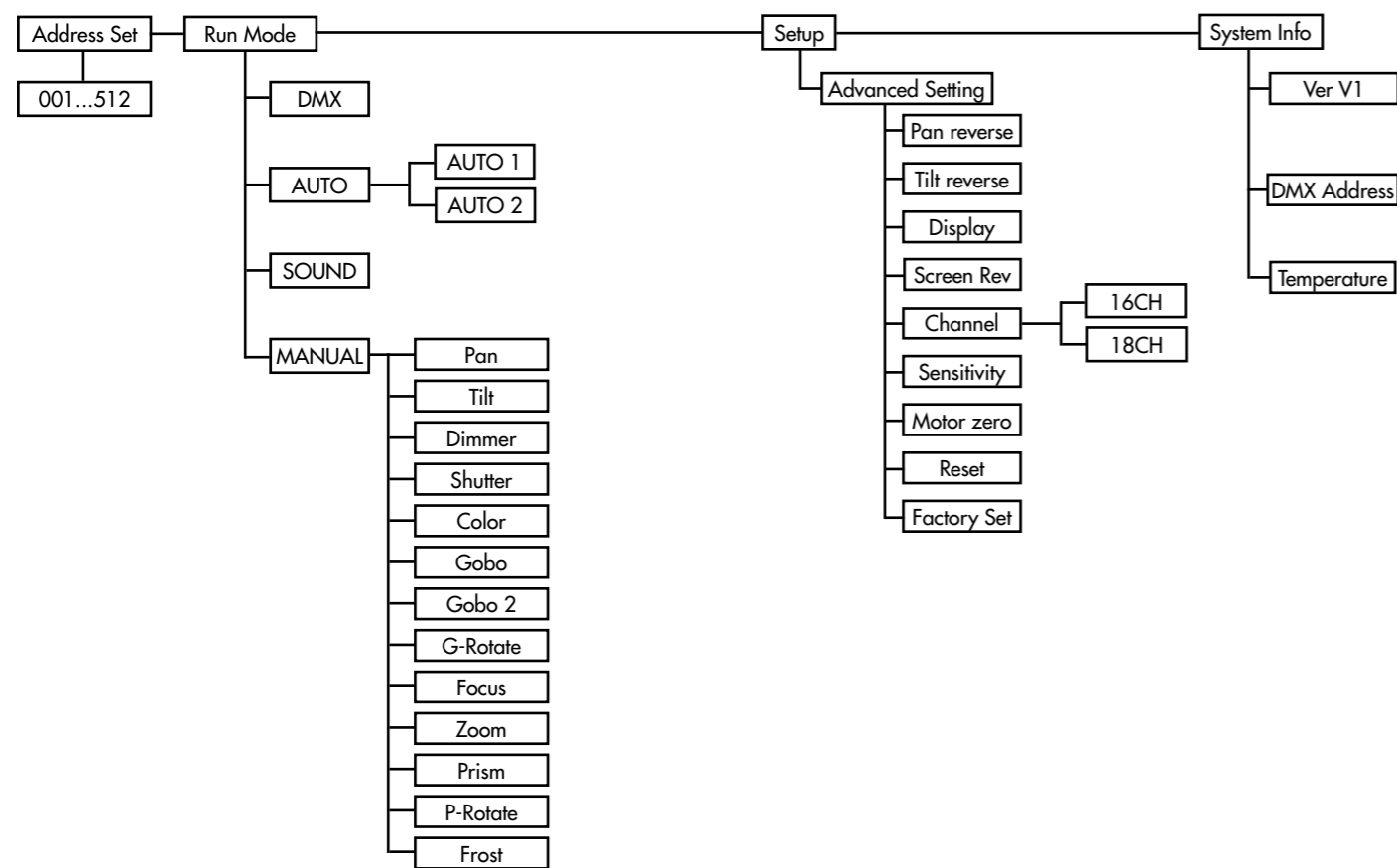
Please see illustrations below.





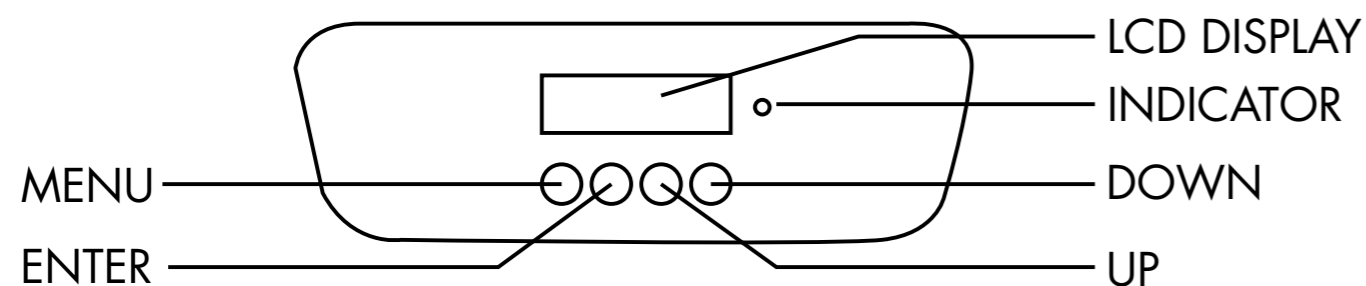
SECTION 5 MENU OVERVIEW

SECTION 6 DMX CHANNELS



16 CH MODE

Channel	Function	Value	Description
1	Pan	000...255	0-540°
2	Tilt	000...255	0-270°
3	X, Y speed	000...255	From fast to slow
4	Dimmer	000...255	From dark to bright
5	Shutter	000...255	See DMX value Page 13
6	Color	000...255	See DMX value Page 13
7	Color Effect	000...255	See DMX value Page 13
8	Static gobo wheel	000...255	See DMX value Page 13
9	Rotating Gobo wheel	000...255	See DMX value Page 13
10	Gobo Rotation	000...255	See DMX value Page 13
11	Focus	000...255	Unsharp to Sharp
12	Zoom	000...255	Narrow To Wide
13	Prism	000...255	Prism in from 064...255
14	Prism Rotation	000...255	See DMX value Page 13
15	Frost	000...255	Frost in from 064...255
16	Modes	000...255	See DMX value Page 13





18 CH MODE

Channel	Function	Value	Description
1	Pan	000...255	0-540°
2	Pan Fine	000...255	Pan Fine
3	Tilt	000...255	0-270°
4	Tilt Fine	000...255	Tilt Fine
5	X, Y speed	000...255	From fast to slow
6	Dimmer	000...255	From dark to bright
7	Shutter	000...255	See DMX value Page 13
8	Color	000...255	See DMX value Page 13
9	Color Effect	000...255	See DMX value Page 13
10	Static gobo wheel	000...255	See DMX value Page 13
11	Rotating Gobo wheel	000...255	See DMX value Page 13
12	Gobo Rotation	000...255	See DMX value Page 13
13	Focus	000...255	Unsharp to Sharp
14	Zoom	000...255	Narrow To Wide
15	Prism	000...255	Prism in from 064...255
16	Prism Rotation	000...255	See DMX value Page 13
17	Frost	000...255	Frost in from 064...255
18	Modes	000...255	See DMX value Page 13

SECTION 7 DMX VALUES

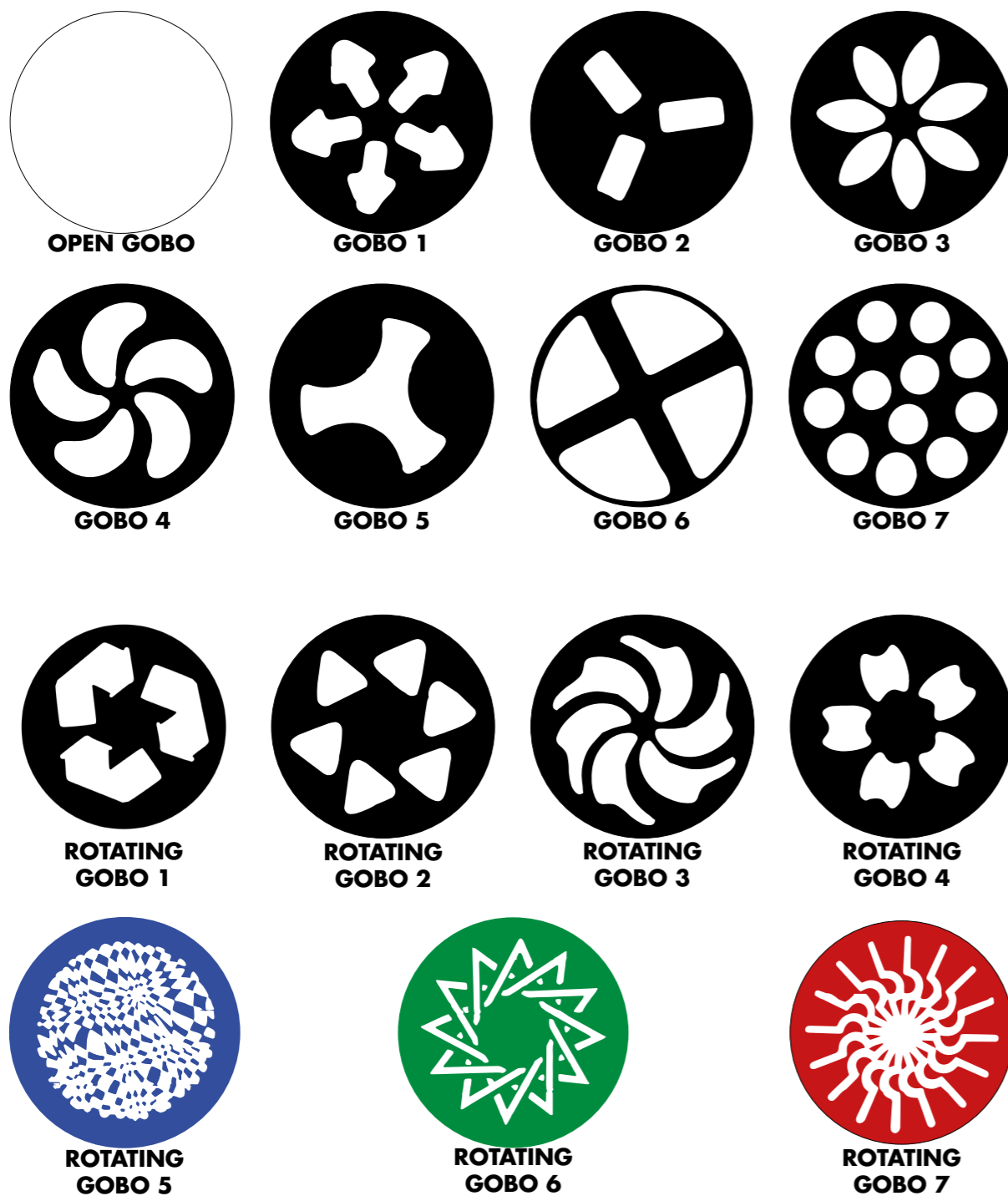
Function	Value	Description
Shutter	000...007	On
	008...250	Strobe from slow to fast
	251...255	On
Color	000...015	White
	016...031	Red
	032...047	Orange
	048...063	Green
	064...079	Magenta
	080...095	Blue
	096...111	Yellow
	112...127	UV
	128...191	CW from slow to fast
	192...255	CCW from slow to fast
Color Effect	000...010	No function
	011...209	Color fine tuning
	210...255	Color shake from fast to slow
Prism Rotation	000...015	open
	016...095	Prism Fine 0-250
	096...135	Prism Rotating 0-90
	136...155	Prism Rotating 0-250
	156...175	Prism Rotating 0-360
	176...215	Prism self-rotating CW from Fast to Slow
216...255	Prism self-rotating CCW rotating from slow to fast	
	000...007	No action
	008...131	Auto mode
	132...249	Sound mode
	250...253	Reset
	254...255	No action

Function	Value	Description
Gobo	000...006	Open
	007...013	Gobo 1
	014...020	Gobo 2
	021...027	Gobo 3
	028...034	Gobo 4
	035...041	Gobo 5
	042...048	Gobo 6
	049...055	Gobo 7
	056...063	Gobo 8
	064...070	Gobo 8 shake
	071...077	Gobo 7 shake
	078...084	Gobo 6 shake
	085...091	Gobo 5 shake
	092...098	Gobo 4 shake
	99...105	Gobo 3 shake
	106...112	Gobo 2 shake
	113...119	Gobo 1 shake
	120...127	Open
	128...191	Gobo rotate CW from slow to fast
192...255	Gobo rotate CCW from slow to fast	
Rotating Gobo	000...015	Open
	016...031	Gobo1
	032...047	Gobo2
	048...063	Gobo3
	064...079	Gobo4
	080...095	Gobo5
	096...111	Gobo6
	112...127	Gobo7
128...191	Gobo Rotate CW from slow to fast	
192...255	Gobo Rotate CCW from slow to fast	
Gobo Rotation	000...100	Gobo Rotating 0-360
	101...199	Gobo self-rotating CW from Fast to Slow
	200...255	Gobo self-rotating CCW rotating from slow to fast



SECTION 8 GOBOS

SECTION 9 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 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.

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 10

TECHNICAL SPECIFICATIONS

Light Source	250W	
Optical properties	Beam angle	5.5°~ 30°
	Repetition rate	3000 Hz
Control	DMX	
	Master-slave and sound activated controllable or auto operation	
Number of DMX channels	16CH - 18CH	
Power connections	Lockable True1 In/Out	
Control connections	DMX control	3-pin XLR In/Out
Power consumption	350 W	
Operating supply voltage	100 – 240 V 50/60 Hz	
Protection class	IP20	
Mounting options	Hanging with Two 1/4 turn fastening Omega Clamps or standing	
Dimensions (W × H × D), with bracket	381 mm (W) - 642 mm (H) - 270 mm (D)	
Weight	22.5 kg	
Ambient conditions	Temperature range	-20 °C...40 °C
Construction	Movinghead	
Number of LEDs	1	
Color mixture	7 colors + white light	
LED type	250W High Output White LED	
Floor housing	Yes	
Fan	Adopt axial fan to enhance cooling	
Wireless DMX	No	
Housing color	Black	
Temperature protect function	Electronic temperature control overheating protection, electronic temperature control automatic power-off protection when the overheating system fails	
Gobo Rotating	7 Rotating Gobos	
Gobo Static	8 fixed Gobos + white light	
Prism	8 prism, prism can rotate forward and reverse	
LCD	LCD display, key + touch dual operation mode	