BOS LIGHTING

AMADEUS H300



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 Amadeus H300
- 1x Shuko -> True1
- 2x Omega bracket with quick-lock fasteners
- 1x Safety cable

PREPARING

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

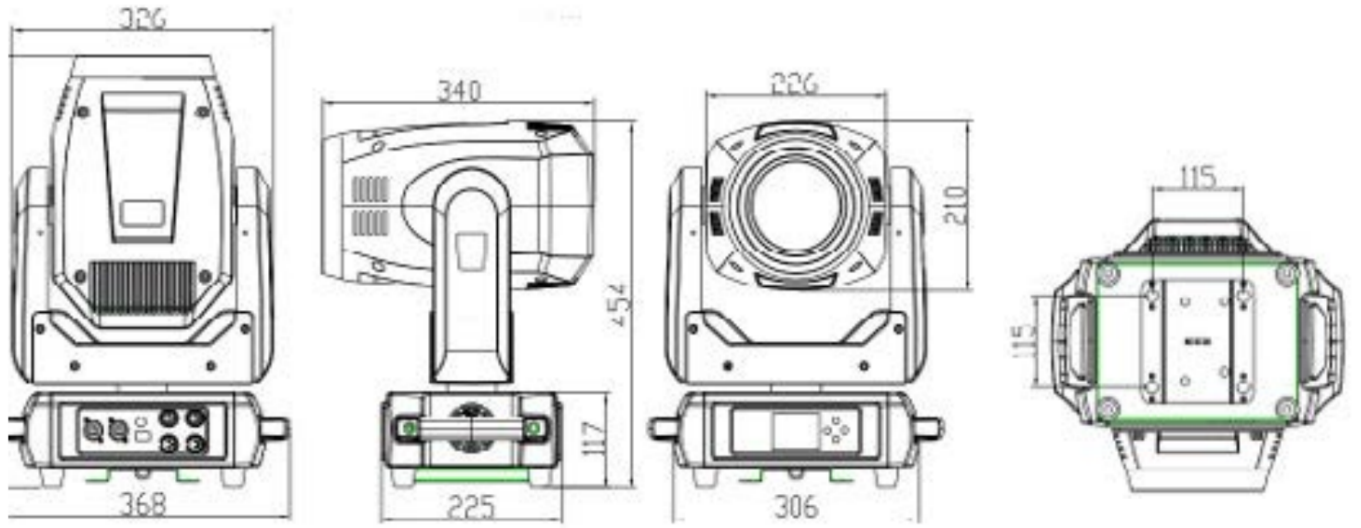
When selecting a location for the fixture, ensure that:

- 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 AMADEUS H300



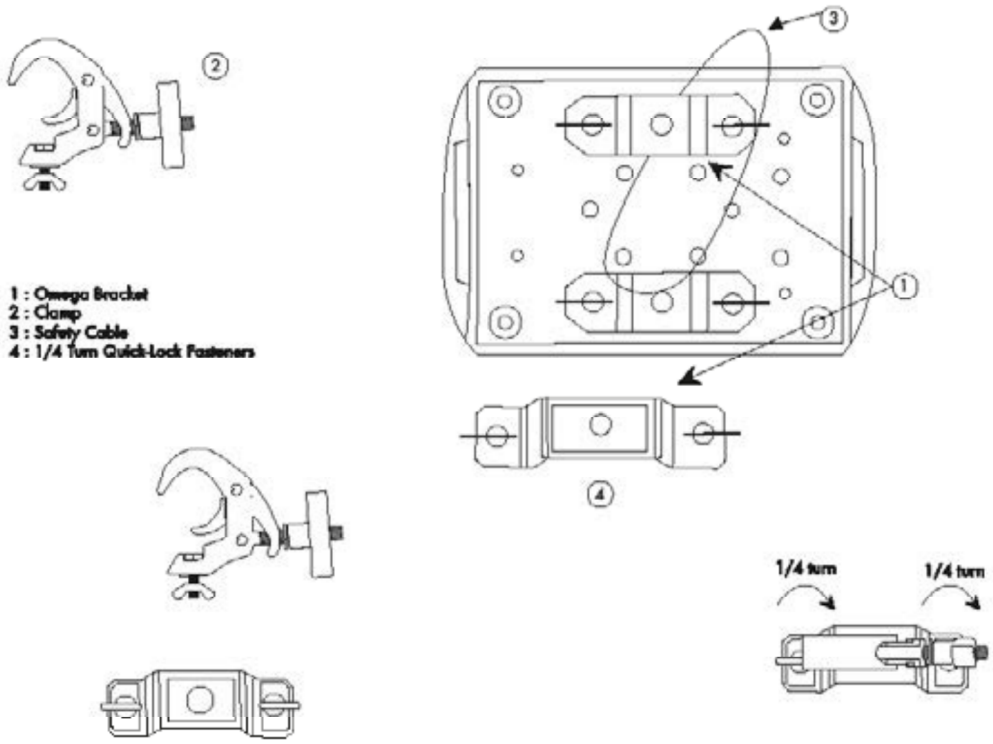
MOUNTING

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing, the unit must be secured with a secondary safety attachment, e.g. an appropriate safety cable. Never stand directly under the fixture while mounting, uninstalling or repairing it.

High-altitude mounting requires extensive experience, including calculating working load limits, installation material and periodic safety checks of installation materials and fixtures. If you lack these qualifications, do not attempt the installation yourself. These installations should be checked by a skilled person annually.

The fixture works properly hanging upside-down from a ceiling, sideways on trussing, or standing on a smooth horizontal surface. Keep the fixture at least 1 m (3.5 ft) away from flammable materials. Always install the safety cable and never use the handles for secondary attachment.

PRODUCT SIZE & MOUNTING



Installing the clamp

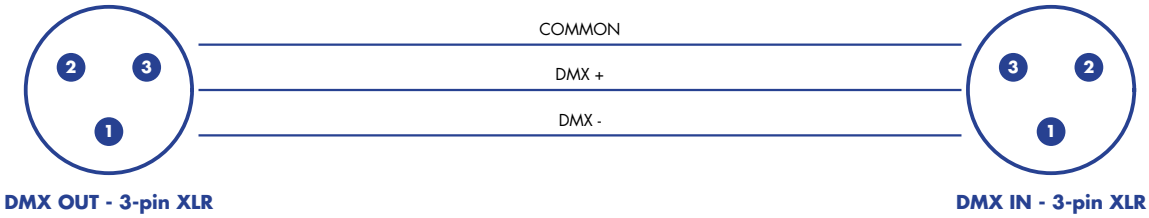
Screw the clamp (2) onto the omega bracket (1) and fit the bracket into the base of the fixture with the two quarter-turn fasteners (4). Give the fasteners a quarter turn until they lock.

Then fit the safety cable (3) around the truss and through the eyelet in the base. The quarter-turn fastener is the fixing, the safety cable is the backup - always use both.

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.



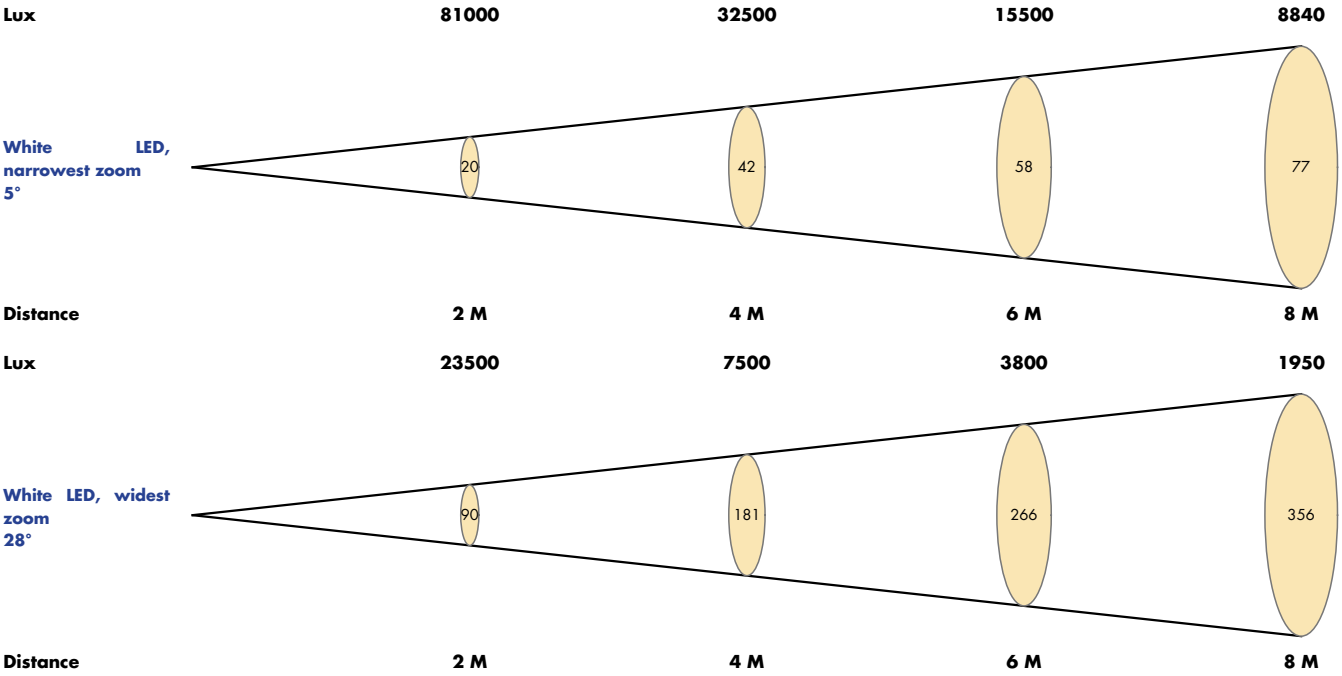
DMX OUT - 3-pin XLR **DMX IN - 3-pin XLR**

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

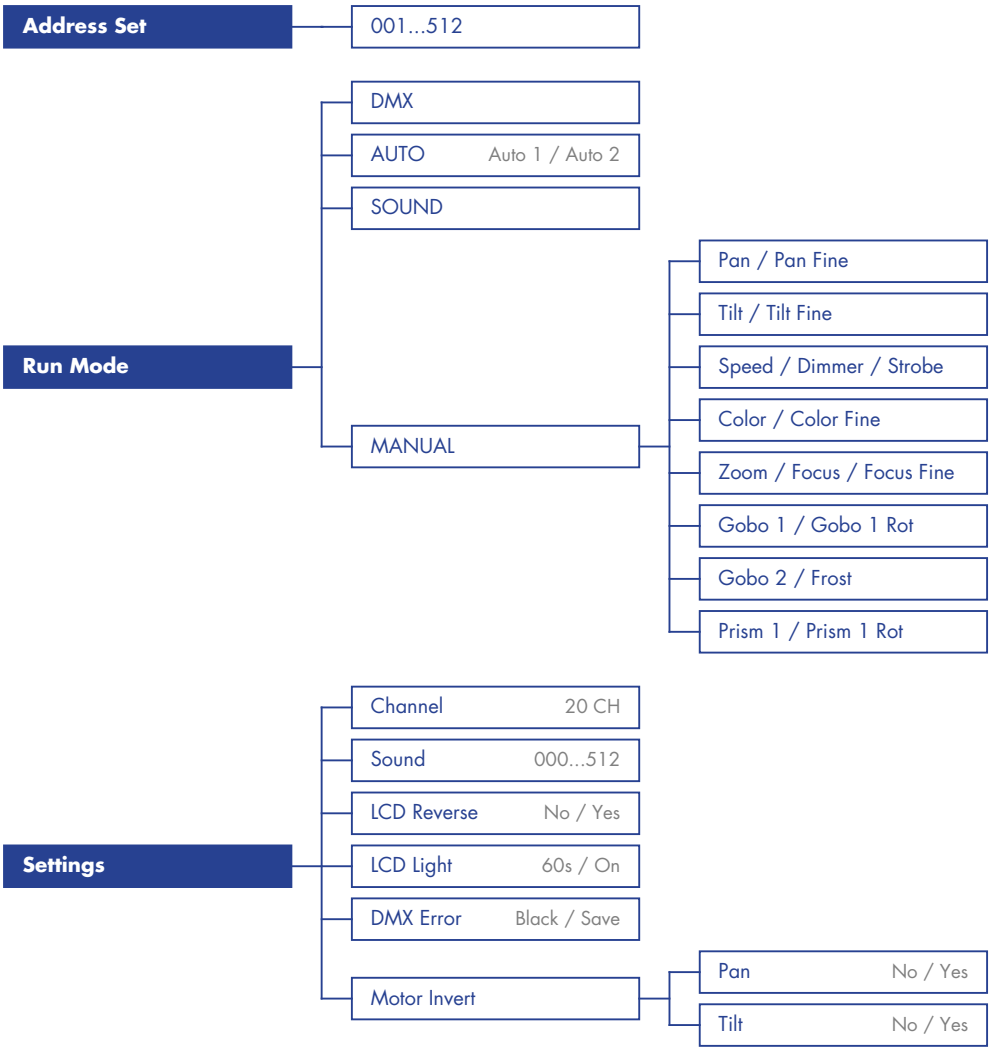


Lux and beam size

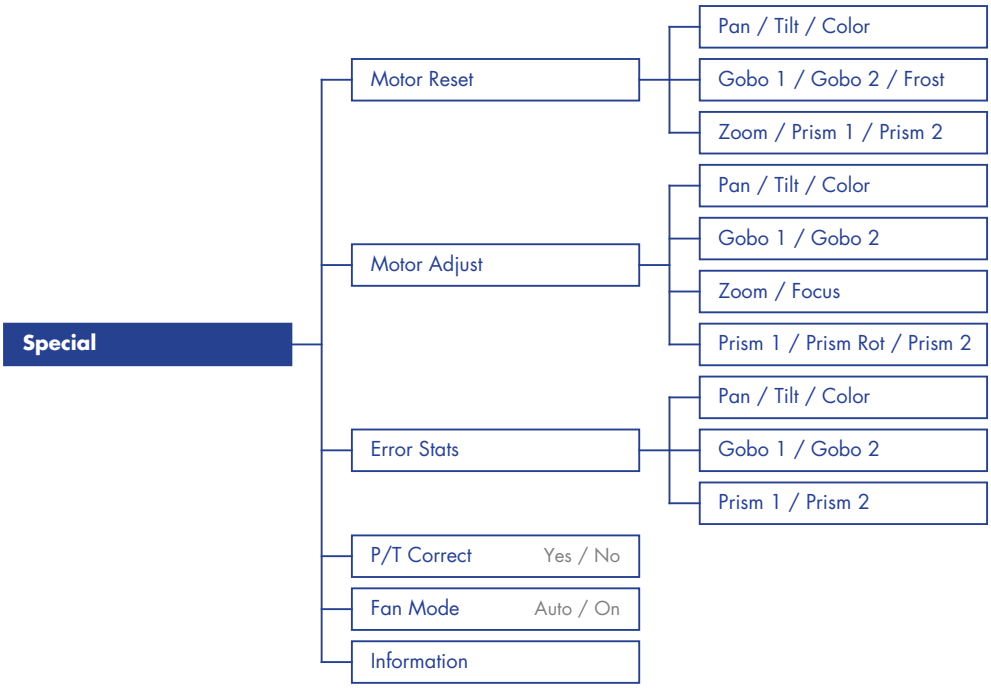
Zoom	2 M	4 M	6 M	8 M
Lux at 5°	81000	32500	15500	8840
Beam in cm	20	42	58	77
Lux at 28°	23500	7500	3800	1950
Beam in cm	90	181	266	356

SECTION 6

MENU OVERVIEW



MENU OVERVIEW



DMX CHANNELS

20 CH

Channel	Function	Value	Description
1	Pan	000...255	0 - 540°
2	Pan fine	000...255	Fine
3	Tilt	000...255	0 - 270°
4	Tilt fine	000...255	Fine
5	X, Y speed	000...255	From fast to slow
6	Dimmer	000...255	From dark to bright
7	Shutter	000...255	See the shutter table
8	Colour	000...255	See the colour table
9	Colour wheel position	000...255	Split colours
10	Zoom	000...255	Wide to narrow
11	Focus	000...255	Far to near
12	Focus fine	000...255	Far to near
13	Rotating gobo wheel	000...255	See the rotating gobo table
14	Gobo rotation	000...255	See the gobo rotation table
15	Static gobo wheel	000...255	See the static gobo table
16	Frost	000...063	No frost
		064...255	Frost in
17	Prism	000...063	No prism
		064...127	Linear prism
		128...191	3-way prism
		192...255	Double prism
18	Prism index	000...255	0 - 360°
19	Prism rotation	000...255	See the prism rotation table
20	Control	000...019	No function
		020...039	Auto 1
		040...059	Auto 2
		060...199	No function
		200...219	Reset all
		220...255	No function

DMX CHANNELS

Shutter (channel 7)

Value	Function
000...004	On
005...099	Strobe from slow to fast
100...199	Pulse from slow to fast
200...239	Random strobe from slow to fast
240...255	On

Colour wheel (channel 8)

Value	Colour	Value	Colour
000...019	White	120...139	Green
020...039	Red	140...159	Orange
040...059	Yellow	160...179	UV
060...079	Blue	180...217	Wheel CW, fast to slow
080...099	Cyan	218...225	Wheel CCW, slow to fast
100...119	Magenta		

Rotating gobos (channel 13)

Value	Gobo	Value	Gobo
000...011	Open	096...111	Gobo 1 shake
012...023	Gobo 1	112...127	Gobo 2 shake
024...034	Gobo 2	128...143	Gobo 3 shake
035...048	Gobo 3	144...159	Gobo 4 shake
049...059	Gobo 4	160...175	Gobo 5 shake
060...071	Gobo 5	176...191	Gobo 6 shake
072...083	Gobo 6	192...207	Gobo 7 shake
084...095	Gobo 7	208...231	Wheel CW, fast to slow
		232...255	Wheel CCW, slow to fast

Gobo rotation (channel 14)

Value	Function
000...019	Gobo still
020...102	Self-rotating CW from fast to slow
103...108	Stop
109...191	Self-rotating CCW from slow to fast
192...255	CW - CCW shake

DMX CHANNELS

Static gobos (channel 15)

Value	Gobo	Value	Gobo
000...007	Open	080...094	Gobo 1 shake
008...015	Gobo 1	095...109	Gobo 2 shake
016...023	Gobo 2	110...124	Gobo 3 shake
024...031	Gobo 3	125...139	Gobo 4 shake
032...039	Gobo 4	140...154	Gobo 5 shake
040...047	Gobo 5	155...169	Gobo 6 shake
048...055	Gobo 6	170...184	Gobo 7 shake
056...063	Gobo 7	185...199	Gobo 8 shake
064...071	Gobo 8	200...214	Gobo 9 shake
072...079	Gobo 9	215...234	Wheel CW, fast to slow
		235...255	Wheel CCW, slow to fast

Prism rotation (channel 19)

Value	Function
000...063	Prism stop
064...123	Rotating CW from fast to slow
124...135	Stop
136...195	Rotating CCW from slow to fast
196...255	CW - CCW shake

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

Light source	High output white LED
Beam angle	5,5° - 32°
Repetition rate	3000 Hz
Colours	8 colours plus white
Rotating gobos	7
Static gobos	9 plus open
Prism	2 prisms, rotating both ways
Frost	Yes
Control	DMX, master-slave, sound activated or auto
Number of DMX channels	20 CH
Power connections	Lockable True1 in/out
Control connections	3-pin XLR in/out
Power consumption	350 W
Operating supply voltage	100 - 240 V, 50/60 Hz
Protection class	IP20, indoor
Mounting options	Hanging with two quarter-turn omega brackets, or standing
Dimensions (W x H x D)	328 mm x 520 mm x 216 mm
Weight	15,2 kg
Temperature range	-20 °C ... 40 °C
Cooling	Internal fans, with thermal protection and automatic power-off
Display	LCD with keys and touch
Wireless DMX	No
Housing colour	Black