BOS LIGHTING

AMADEUS H250



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 H250
- 1x Shuko -> True1
- 2x Omega bracket with quick-lock fasteners
- 1x Safety cable

PREPARING

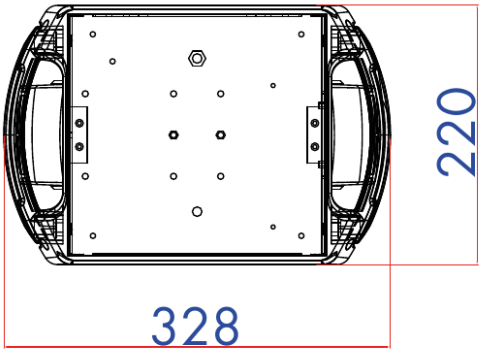
Unpack the fixture and inspect it to ensure that it has not been damaged during transport. Read the manual before installation.

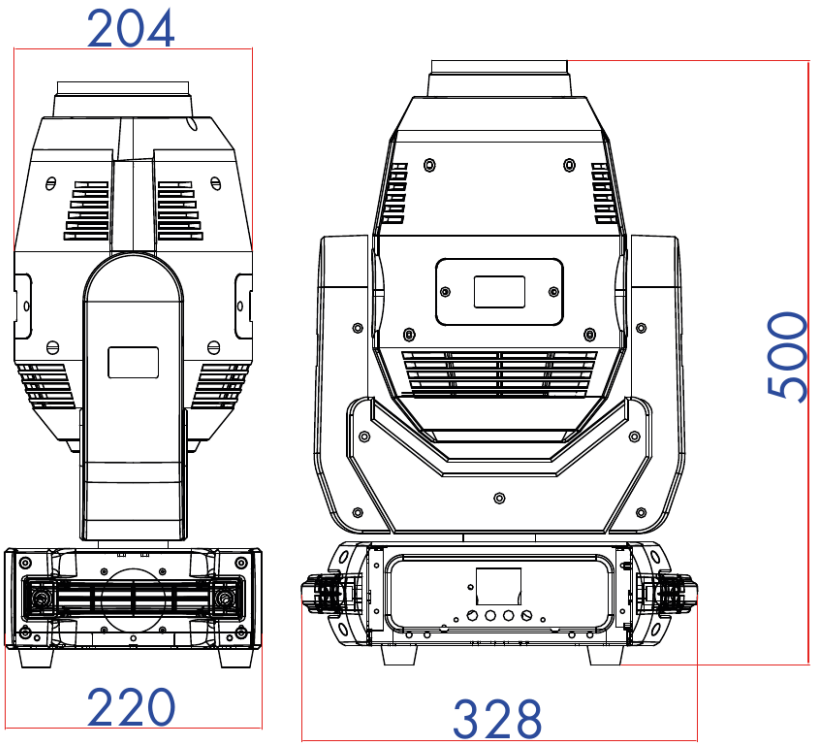
When selecting a location for the fixture, ensure that:

- 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.

PRODUCT SIZE & MOUNTING

DIMENSIONS AMADEUS H250





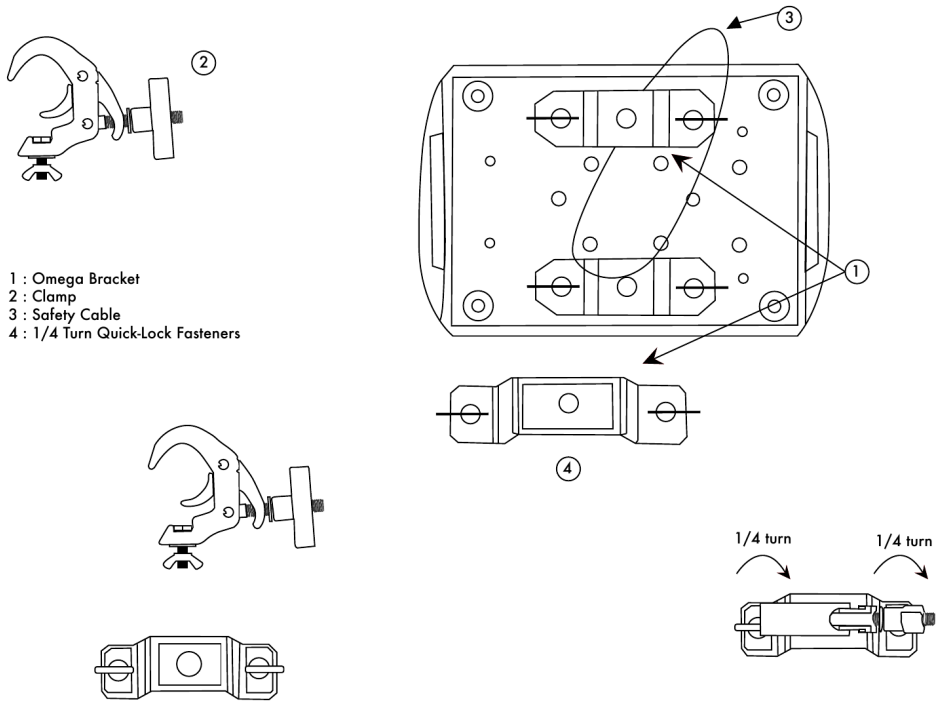
MOUNTING

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). Turn the fasteners fully 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.

Replacing a rotating gobo

A custom gobo must fit: outer size 20 mm, image 8 mm. Disconnect the power first and let the fixture cool down for at least 15 minutes. There is no need to take the fixture apart: a small service hatch in the head cover gives access to the gobo wheel. Handle gobos only with gloves or by the edge.

1. Undo the two small screws of the service hatch and remove the hatch. 2. Turn the gobo wheel until the gobo you want is in the opening and pull the holder out of the wheel by hand; it is spring-loaded and comes out easily. 3. Take the retaining clip out of the holder, put the new gobo in and refit the clip. 4. Push the holder back into the wheel until you hear a click. Refit the hatch.

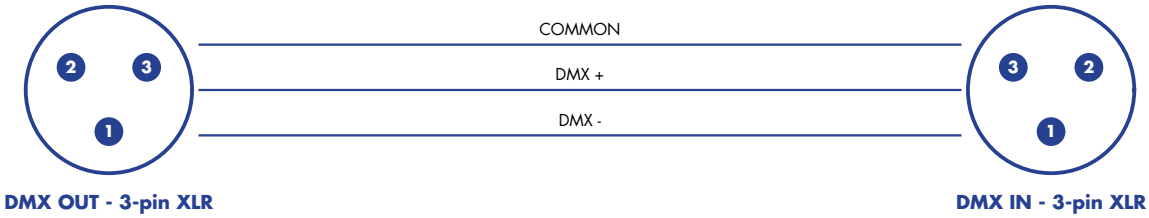
Fit a glass gobo with the coated side towards the light source. Then check with DMX that the gobo rotates properly and can be focused.



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.



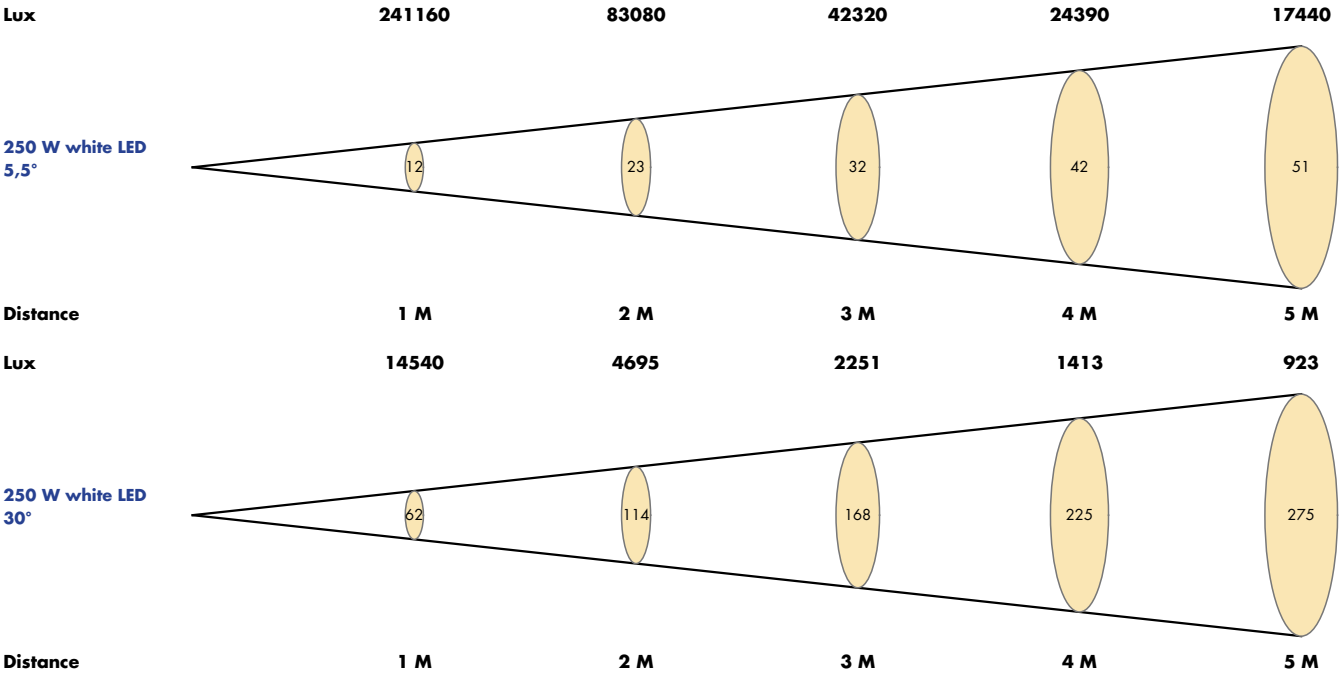
DMX OUT - 3-pin XLR **DMX IN - 3-pin XLR**

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

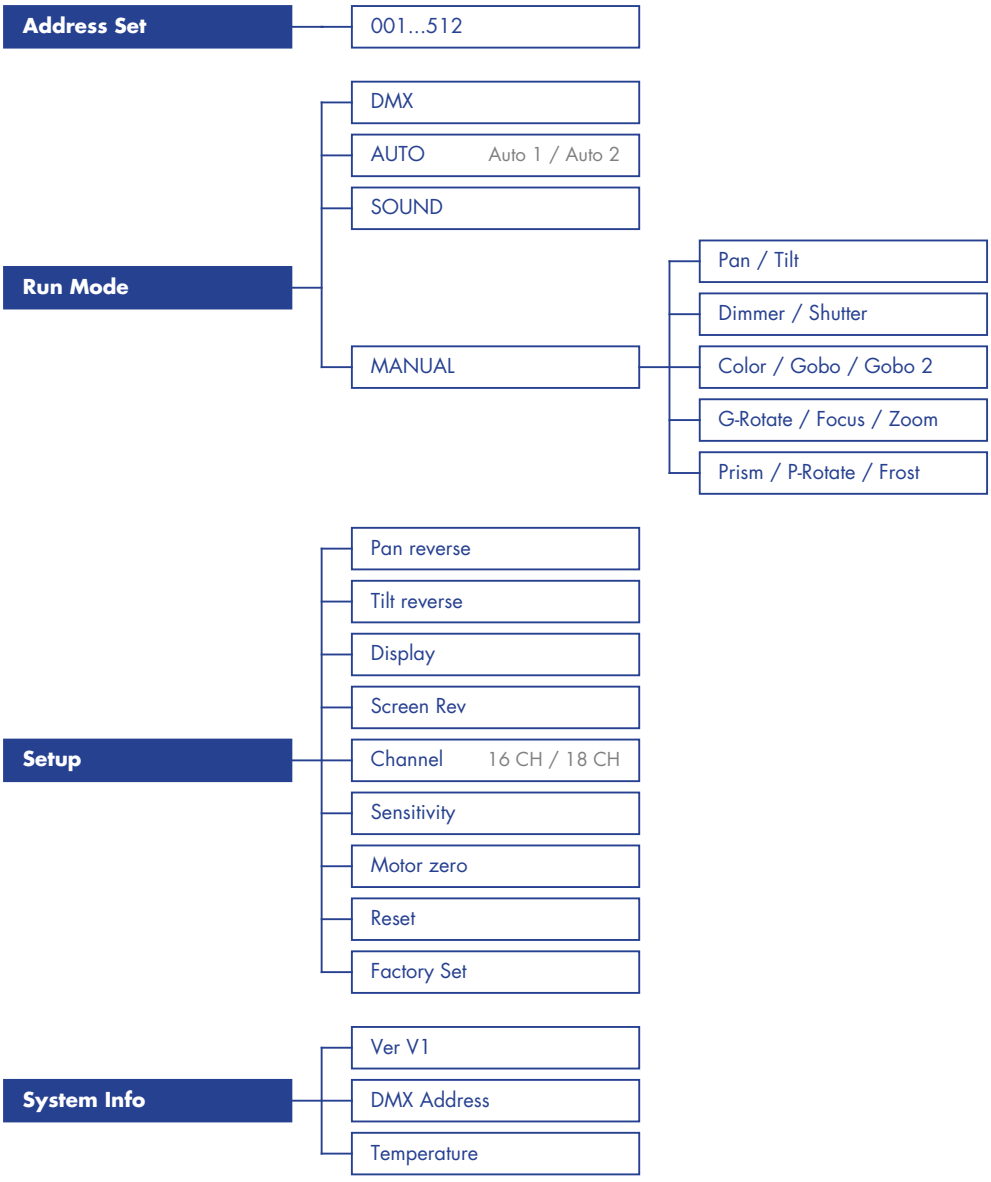


Lux and beam size

Zoom	1 M	2 M	3 M	4 M	5 M
Lux at 5,5°	241160	83080	42320	24390	17440
Beam in cm	12	23	32	42	51
Lux at 30°	14540	4695	2251	1413	923
Beam in cm	62	114	168	225	275

SECTION 6

MENU OVERVIEW



DMX CHANNELS

16 CH

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...007	On
		008...250	Strobe from slow to fast
		251...255	On
6	Colour	000...127	Preset colours, see the colour table
		128...191	Colour wheel CW from slow to fast
		192...255	Colour wheel CCW from slow to fast
7	Colour effect	000...010	No function
		011...209	Colour fine tuning
		210...255	Colour shake from fast to slow
8	Static gobo wheel	000...127	Eight gobos plus open, with shake, see the gobo table
		128...255	Gobo wheel rotating, both directions
9	Rotating gobo wheel	000...127	Seven gobos plus open
		128...255	Gobo wheel rotating, both directions
10	Gobo rotation	000...100	Fixed position, 0 - 360°
		101...199	Self-rotating CW from fast to slow
		200...255	Self-rotating CCW from slow to fast
11	Focus	000...255	Unsharp to sharp
12	Zoom	000...255	Narrow to wide
13	Prism	000...063	No prism
		064...255	Prism in
14	Prism rotation	000...255	Positions and rotation, both directions
15	Frost	000...063	No frost
		064...255	Frost in
16	Modes	000...007	No action
		008...131	Auto mode
		132...249	Sound mode
		250...253	Reset
		254...255	No action

DMX CHANNELS

18 CH

Channel	Function	Value	Description
1 - 2	Pan and pan fine	000...255	0 - 540°
3 - 4	Tilt and tilt fine	000...255	0 - 270°
5 - 18	As 16 CH	000...255	The same functions from X, Y speed onwards

Colour wheel (channel 6)

Value	Colour	Value	Colour
000...015	White	064...079	Magenta
016...031	Red	080...095	Blue
032...047	Orange	096...111	Yellow
048...063	Green	112...127	UV

Static gobos (channel 8)

Value	Gobo	Value	Gobo
000...006	Open	064...070	Gobo 8 shake
007...013	Gobo 1	071...077	Gobo 7 shake
014...020	Gobo 2	078...084	Gobo 6 shake
021...027	Gobo 3	085...091	Gobo 5 shake
028...034	Gobo 4	092...098	Gobo 4 shake
035...041	Gobo 5	099...105	Gobo 3 shake
042...048	Gobo 6	106...112	Gobo 2 shake
049...055	Gobo 7	113...119	Gobo 1 shake
056...063	Gobo 8	120...127	Open

Rotating gobos (channel 9)

Value	Gobo	Value	Gobo
000...015	Open	080...095	Gobo 5
016...031	Gobo 1	096...111	Gobo 6
032...047	Gobo 2	112...127	Gobo 7
048...063	Gobo 3	128...191	Wheel CW, slow to fast
064...079	Gobo 4	192...255	Wheel CCW, slow to fast

Prism rotation (channel 14)

Value	Position
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	Self-rotating CW from fast to slow
216...255	Self-rotating CCW from slow to fast

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	250 W high output white LED
Beam angle	5,5° - 30°
Repetition rate	3000 Hz
Colours	7 colours plus white
Rotating gobos	7
Static gobos	8 plus open
Prism	8 facets, rotating both ways
Control	DMX, master-slave, sound activated or auto
Number of DMX channels	16 CH, 18 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)	381 mm x 642 mm x 270 mm
Weight	22,5 kg
Temperature range	-20 °C ... 40 °C
Cooling	Axial fan, with thermal protection
Display	LCD with keys and touch
Wireless DMX	No
Housing colour	Black