elumen8

Titan Beam T3
User Manual

Order codes: ELUM416

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.

CAUTION!
TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Never touch the fixture during operation as it may be hot.
- Only use fuses of same type and rating.
- We recommend this fixture should be serviced at least once every 3 months to prevent build-up of dust, dirt and debris that could affect the fixtures operation.

- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- High power lighting fixtures are capable of producing powerful, concentrated beams of light that can create a fire hazard or a risk of eye injury if the safety precautions are not followed.
- This product is only suitable for temporary outdoor installation.
- WARRANTY: Two years from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc. Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

PLEASE READ THE BELOW CAREFULLY BEFORE USING THE FIXTURE IN OUTDOOR/EXTREME ENVIRONMENTS

IP Rating:

The IP (International Protection) rating classifies and rates the degree of protection provided against intrusion of foreign objects such as dust and water into housings and electrical enclosures.

The rating consists of the letters IP followed by two digits (i.e. IP65) where the numbers define the level of protection. The first digit (solids) stands for the level of protection the enclosure provides against solid bodies, whilst the second digit (liquids) stands for the degree of protection of the equipment inside the enclosure against water.
An IP65 rated fixture is one which has been designed and tested to protect from all ingress of dust (6) and water projected by low pressure jets (6.3mm) from any angle (5).

Marine/Coastal Installations:

Although this fixture has an IP rating it is NOT suitable for installation in a coastal/ marine environment. Installing this fixture in a coastal/marine environment could cause corrosion and excessive wear to the internal and/or external components. Any damages, faults or performance issues resulting from the installation in one of the environments listed above will void the manufacturers warranty and will NOT be subject to any warranty claims, parts or repairs.

IMPORTANT INFORMATION!

If this fixture is installed in extreme outdoor and/or wet conditions, it MUST be powered ON and operated for a minimum of 30 minutes every 1-2 weeks. Excessive usage in extreme outdoor and/or wet conditions without a consistent usage cycle as described above can lead to component damage and/or a reduced fixture lifetime. Any damage to the fixture found to be a direct result of not following the above guidelines will void the manufacturers warranty and will NOT be subject to any warranty claims, parts or repairs.

Please ENSURE all connections are sealed with the rubber caps if provided and the correct cables are used and connected correctly to prevent dust and/or water ingress, condensation and/or corrosion.

This fixture falls under Protection Class 1, therefore it has to be connected to a mains socket with a protective earthing connection.

Risk group 2, RG-2: CAUTION!
Do not stare at exposed lamp in operation as it may damage/be harmful to the eyes. Avoid looking directly into the light source.

WARNING!
The minimum distance between the light output and illuminated objects/surfaces must be equal to or greater than 12 meters (40ft).

CAUTION!
The maximum ambient temperature (Ta) of 40° must not be exceeded.

CAUTION!
If the lens gets damaged ie. cracks or deep scratches so the output is impaired then it must be replaced.

CAUTION!
The lamp must be replaced if damaged or deformed!

CAUTION!
Turning the fixture on and off in short intervals will reduce the lamp life.

CAUTION!
To avoid damage to internal parts ie. optics, colour filters, gobos, prisms, frost filters, iris, shutters, motors, belts, wiring or lamps. Never expose the lens to direct sunlight, lighting fixtures or lasers even when the fixture is not in use.

UV RADIATION NOTICE!
This fixture emits intense UV radiation, which is harmful to the eyes and skin. The intense luminescence of the lamp can cause severe damage to the retina. NEVER operate this fixture with any of the protective casing removed.
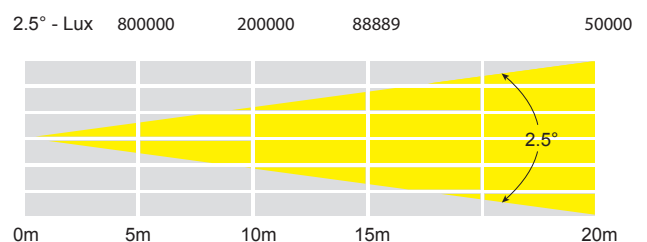
Titan Beam T3

Titan Beam T3 is an IP65 rated fixture with a robust housing specifically designed for wet, dusty and sandy conditions. Designed for festival stages, large concerts and high-capacity venues the fixture generates an incredibly sharp beam of light that makes it perfect for mid-air effects. Illumination is provided by an Osram® SIRIUS HRI 370W discharge lamp and precision optics. Two multi-faceted rotating prisms (one 6-facet linear and one 8-facet circular) can be used individually or combined to create visual effects that cover large areas. A frost filter, motorised focus, 0-100% dimming, variable speed strobing and 16-bit pan/tilt motor control adds to the fixtures creative features.
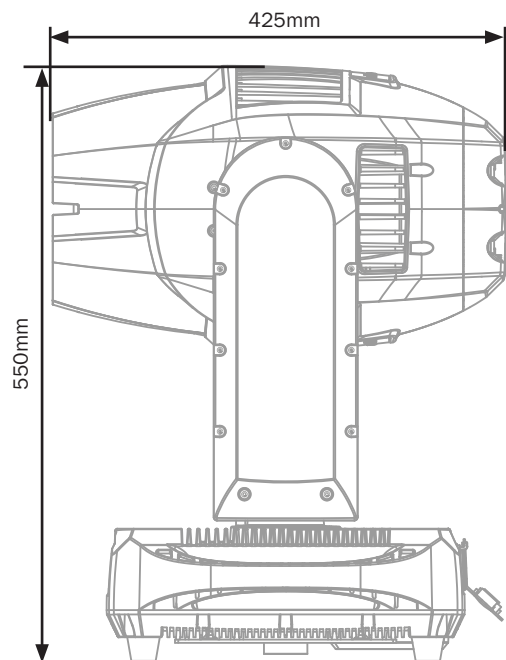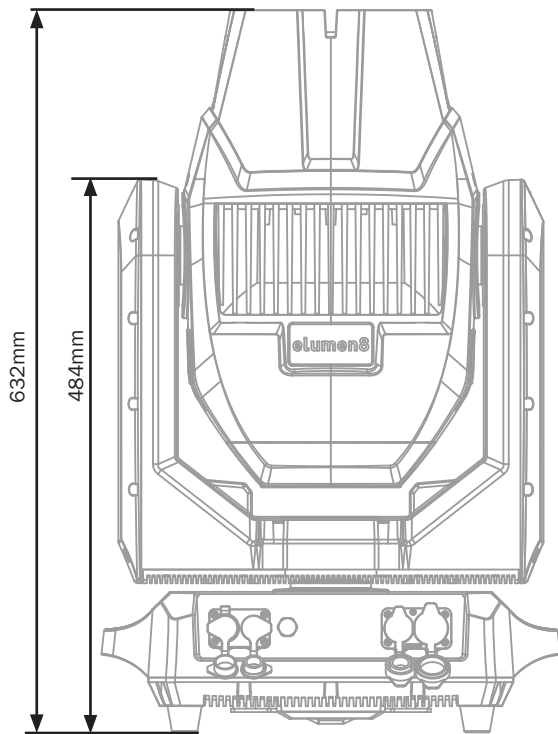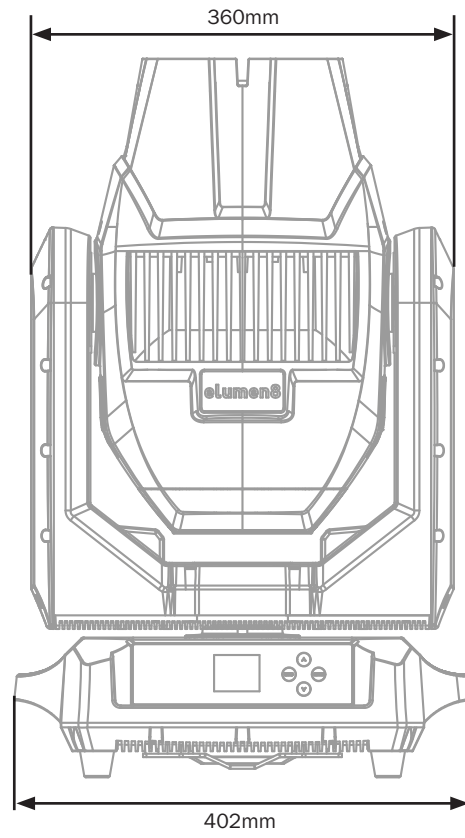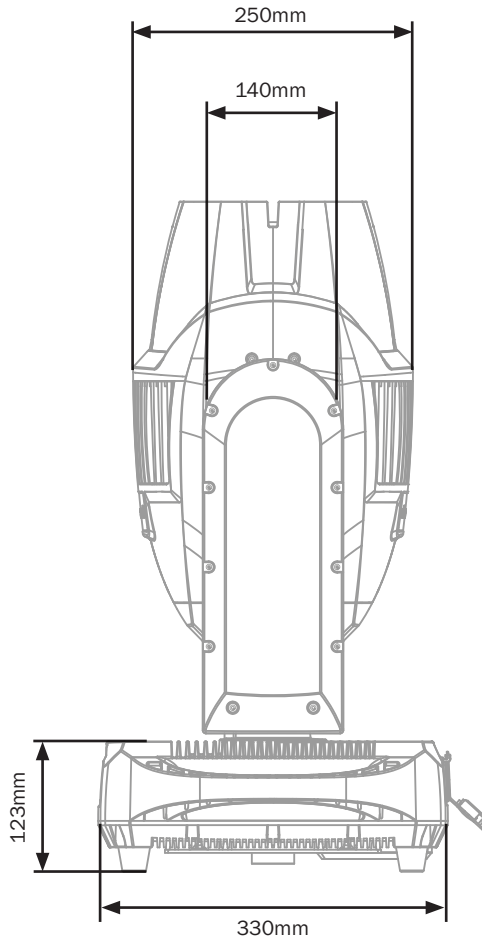
The Osram lamp has a CRI of 70 and a colour temperature of 7800K but due to the colour wheel featuring CTO and CTB filters, temperatures of 3200K and 5600K can also be produced. The wheel is also loaded with 12 vibrant colours plus open, that can be combined with the gobo wheel to create a wide variety of effects. Gobo wheel features eleven glass indexable, replaceable, rotating gobos plus open. A large colour LCD display allows for easy mode selection, however it is also compatible with the RDM protocol so can also be addressed remotely. A choice of two DMX modes mean that the unit can be controlled by either 16 or 18 channels and it is fitted with 5-pin DMX input and output sockets. DMX operation can also be controlled via the on-board Lumen Radio/W-DMX transceiver.
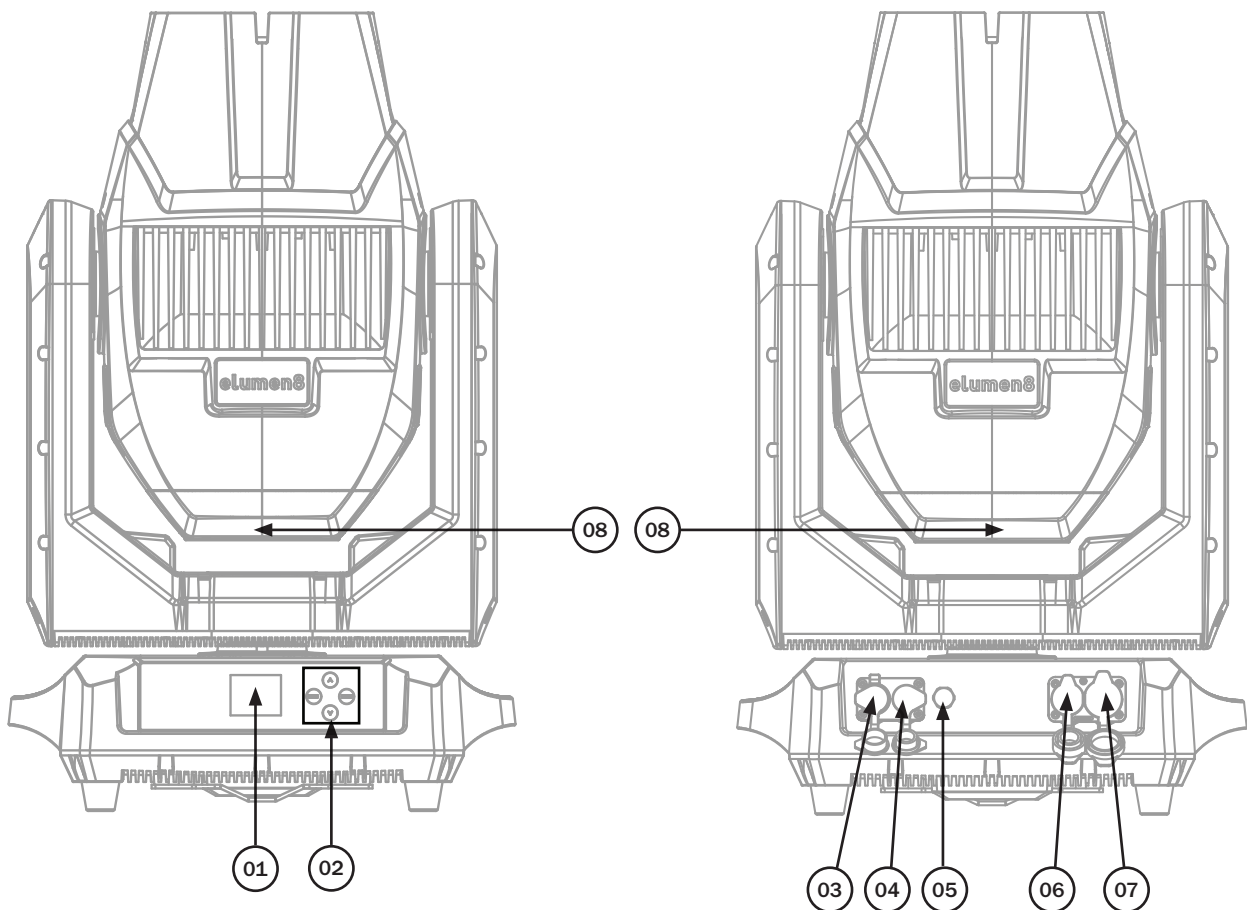
- 2 year warranty
- 1 x Osram® SIRIUS HRI 370W LL discharge lamp (7800K)
- Beam angle: 2.5°
- 200,000 Lux @ 10m
- Motorised focus
- CRI: 70
- 8 facet circular rotating indexable prism plus 6 facet linear rotating indexable prism
- Frost filter
- Gobo wheel: 11 rotating, indexable, replaceable gobos + open
- Colour wheel: 12 colours + CTO filter + CTB filter + open
- Control protocols: DMX
- DMX channels: 16 or 18 selectable
- Wireless control using CRMX TiMo wireless DMX by LumenRadio
- Manual control
- RDM (Remote Device Management)
- Pan/tilt and auto correction
- 16-Bit pan/tilt positioning
- Pan: 540° or 630° selectable, Tilt: 270°
- 0 - 100% dimming
- Variable strobe
- Supplied with quick release omega clamps
- 4 button menu with 2" LCD display
- PowerCON TRUE1 and IP rated 5-Pin XLR inputs/outputs
- Fan cooled

Specifications	Titan Beam T3
Power consumption	535W
Power supply	100~240V, 50/60Hz
Fuse	T10A 250V
IP Rating	IP65
Dimensions	628 x 402 x 330mm
Weight	30kg
Order code	ELUM416

2.5° - Lux	800000	200000	88889	50000

2.5°

| 0m | 5m | 10m | 15m | 20m |

250mm

140mm

123mm

330mm

360mm

402mm

632mm

484mm

425mm

550mm

01 - LCD display
02 - Function buttons
03 - 5-Pin DMX output

04 - 5-Pin DMX input
05 - Condensation valve
06 - PowerCON TRUE1 input

07 - PowerCON TRUE1 output
08 - Fans

In the box:
**1 x fixture,
2 x omega clamps
& 1 x power cable**

Before installing the fixture, the supporting structure (ie. truss) must be able to hold a minimum of 10 times the fixtures weight without any deformation (eg. 15kg - 150kg point load). The fixture must be secured with a secondary safety attachment when being installed (ie. an appropriate safety cable). Never stand directly below the fixture when mounting, removing, and/or servicing.

Overhead installation requires experience and qualifications to calculate working load limits, the material being used at the installation area and periodic safety inspections of the fixture and installation material. If you do not have the relevant experience and/or qualifications please do not attempt the installation yourself. The installation should be checked annually by a qualified person.
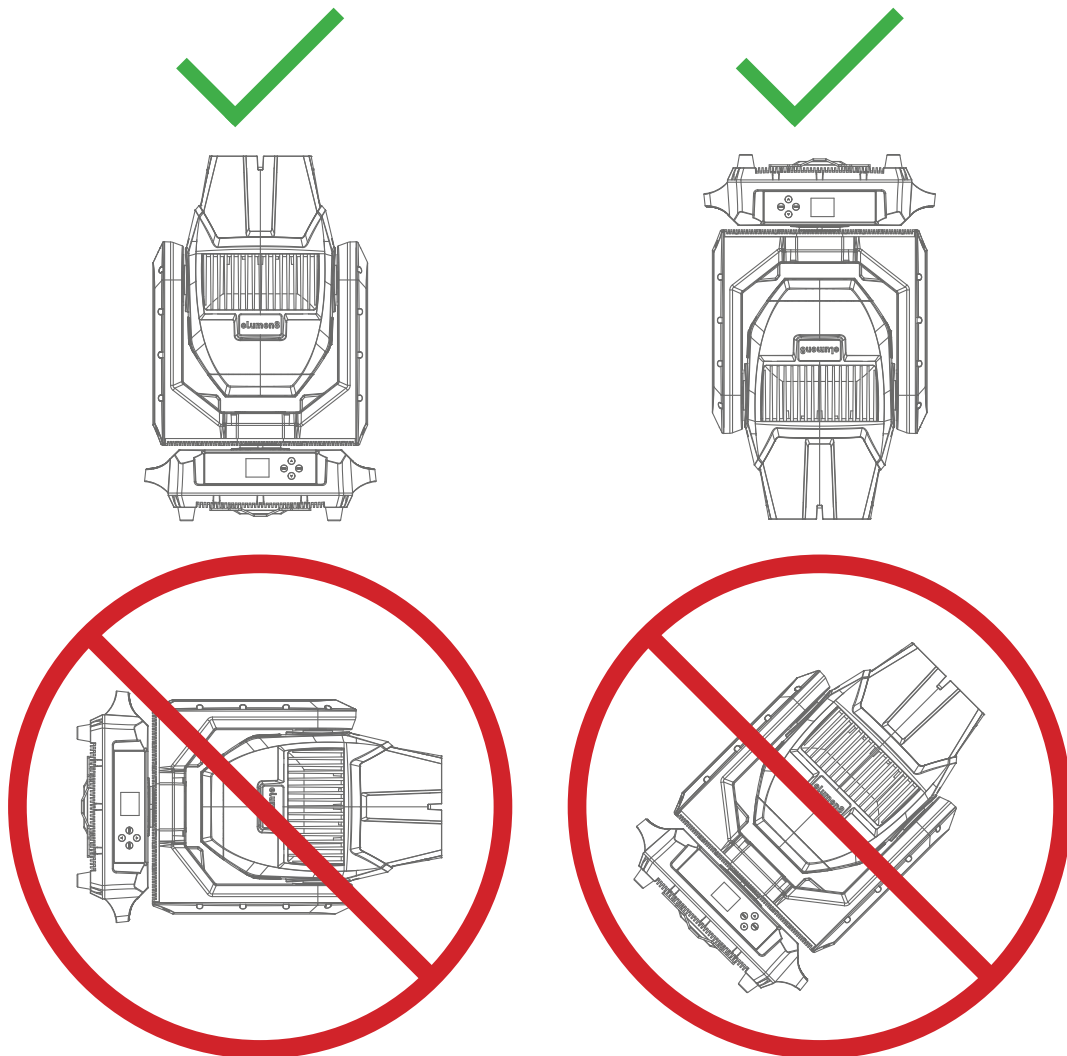
The Elumen8 Titan Beam T3 can be operated where the base of the fixture is horizontally orientated, this includes standing the fixture upright on a flat, level surface or hanging the fixture upside down. Do NOT install the fixture in a sideways position or in a position where the base of the fixture is orientated vertically or at an angle. The fixture MUST be kept a minimum of 12m (40ft) away from any illuminated and/or flammable materials (ie. decorations). Always use a safety wire as an extra safety precaution to prevent damage/injury in the event a clamp fails (see the next page for clamp installation). Never use the carry handles for secondary attachments.

Installation:

1. Fasten each clamp to the omega clamps with a bolt and lock nut through the hole in the omega clamp.

2. Align and insert the omega clamp quick-lock fasteners with the respective holes on the bottom of the unit.

3. Tighten both locking fasteners clockwise on each omega clamp ensuring they're fully secure.

4. Mount the fixture onto your truss system via the clamps and tighten to ensure secure.

5. Pull the safety cable through the safety cable holes located on the metal base plate on the underside of the fixture and around the truss.
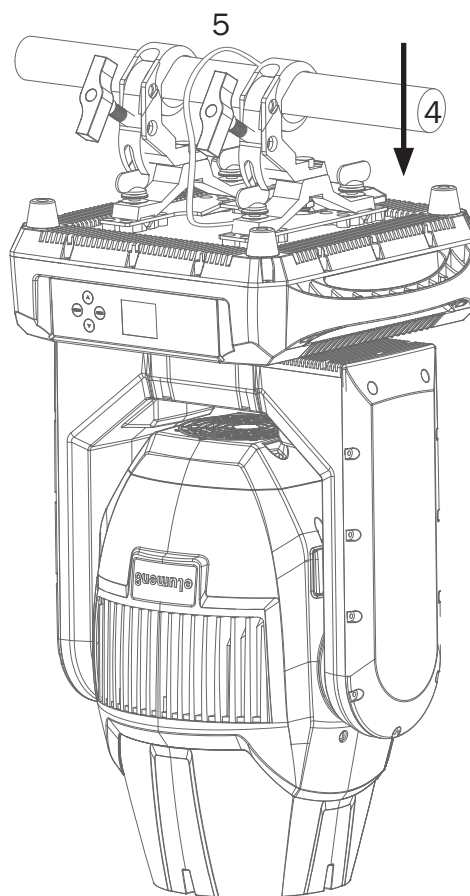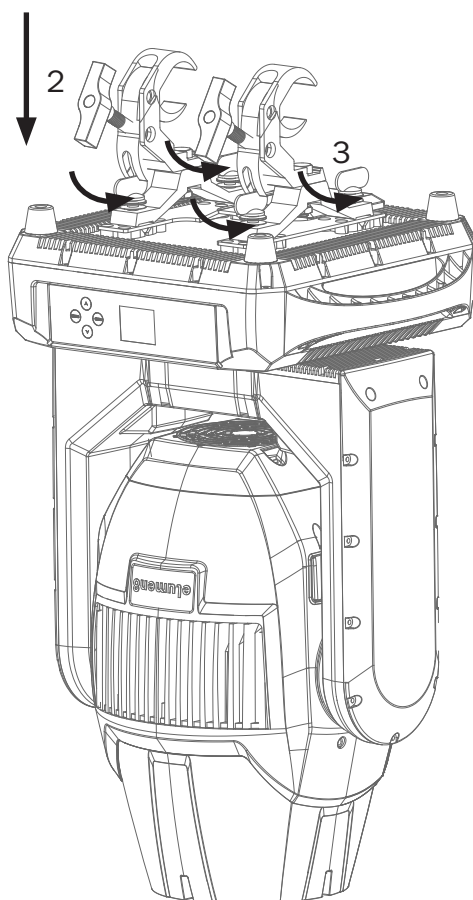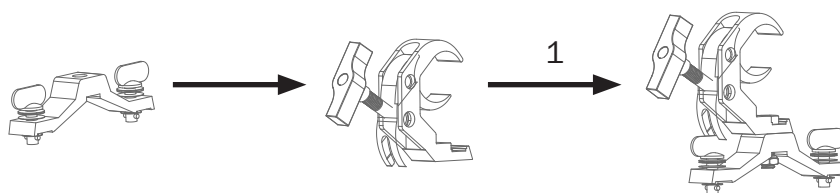
Discharge Lamp Warning:

This fixture is fitted with a Osram® SIRIUS HRI 370W LL Discharge Lamp, which is highly prone to damage if improperly handled. **NEVER** touch the lamp with your bare hands, as the oil from your hands will shorten the life of the lamp. **NEVER** move the lamp until the unit has had the appropriate time to cool. Discharge lamps are **NOT** covered under the warranty that comes with this fixture. Avoid switching the fixture **ON** and **OFF** repeatedly in short durations as this will reduce the lamps life and intensity. To achieve the intensity discharge lamps are renowned for, the lamp uses gas sealed in a high pressure environment.

Due to this high pressure involved with the manufacture of the lamp, it **MAY EXPLODE DURING PROLONGED EXTENSIVE USE**. This risk is increased with age and we recommend extra care is taken when dealing with older lamps. The lamp must be replaced at the end of its recommended duty cycle. Extreme caution should be taken when operating this or any fixture fitted with a discharge lamp.

Lamp replacement:

To ensure a safe lamp change please read the following instructions carefully.

When the lamp reaches 300 hours before its service time, the display will flash the message "**Replace Lamp Soon**" for up to 5 minutes. During this period, the fixture will still work normally. When the lamp reaches its service time, the display will flash the message "**Replace Lamp Now**" for up to 10 minutes. After 10 minutes, the fixture will return to normal operation. When the lamp is continuously used passed its service time, the display will flash the message "**Lamp Timeout Use, Replace Lamp Now**" for up to 10 minutes. After 10 minutes, the fixture will return to normal operation. See page 11 for instructions on changing the lamp.

Attention: Damages caused by the failure to replace the bulb in time are not subject to warranty.

Disconnect the fixtures power supply before replacing the lamp. Let the fixture cool for a minimum of 60 minutes before replacing the lamp.

Never touch the lamp with bare hands, always wear gloves as oil from hands will shorten the lamps life.

Make sure all covers/casings are replaced/secured before operating the fixture to prevent risk and/or damage to the eyes retina.

Only use GENUINE Osram® Lamps. Other branded lamps will cause damage and will void the fixtures warranty.

Discharge Lamp Installation:
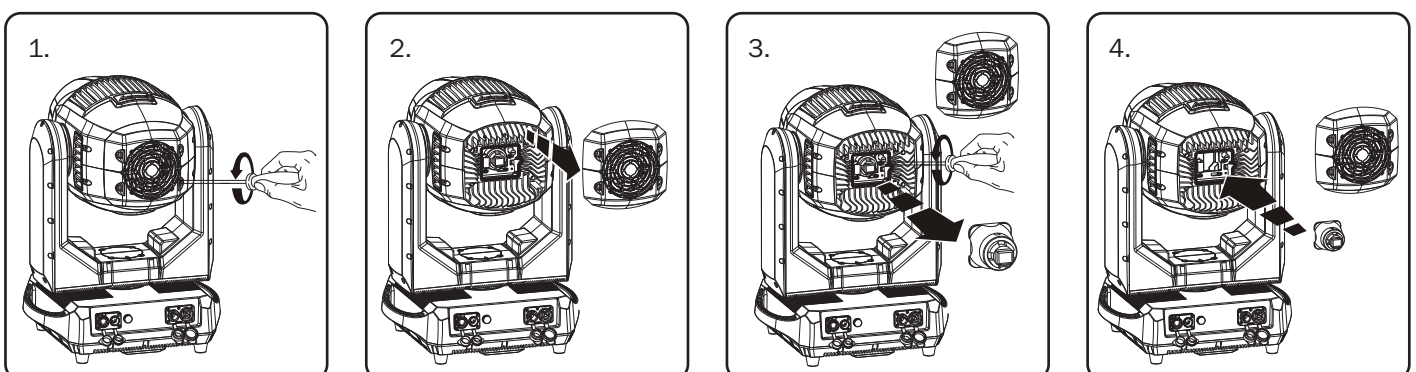
> **DANGER!**
> Unplug the fixture from the mains before replacing the lamp!
> Never operate this fixture without the lamp!
> Do not operate this fixture without all external covers!

Inserting a new lamp:

1. Disconnect the fixture from the mains and allow it to cool for a minimum of 60 minutes.

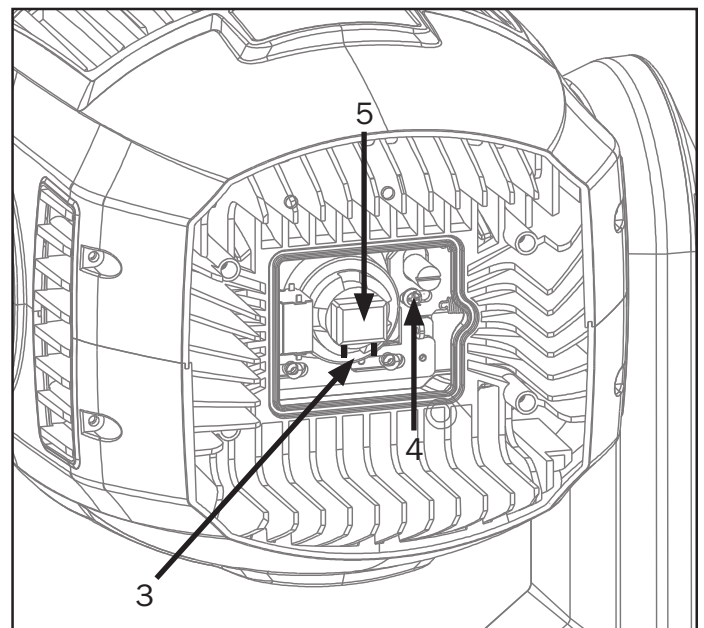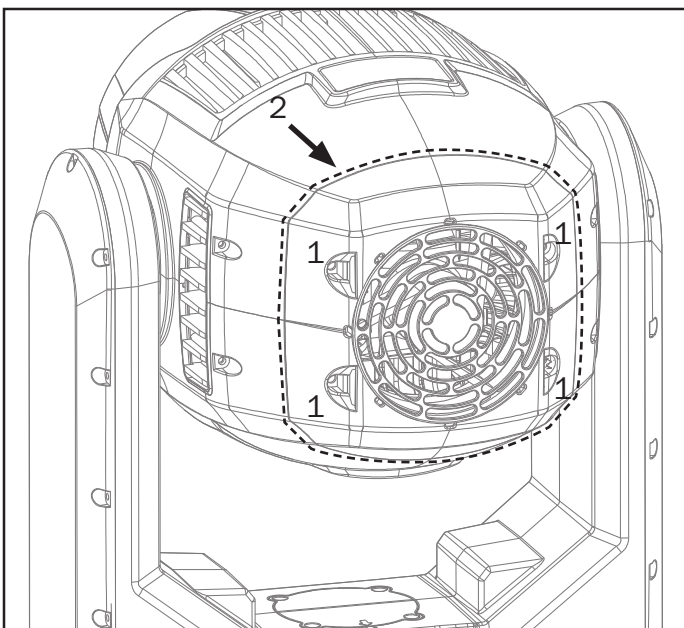2. Loosen the 4 screws (1) on the lamp cover and remove the lamp cover (2) to access the lamp compartment.

3. Remove both Fastons (terminal connectors) (3) from the flat blades of the lamp base.

4. Loosen the screw (4) that holds the lamp in place.

5. Holding the lamp by the ceramic base (5), gently lift the lamp out from the recess.

6. Holding the new lamp by its ceramic base (5), gently inset the lamp into the lamp compartment. (The Fastons should be facing down.)

Only use the recommended lamp. Damages caused by not following the guidelines outlined in this manual are not subject to warranty. Please follow the lamp manufacturers notes.

Warning! Do not touch the lamp envelope with bare hands. Should this happen the bulb must be cleaned with a cloth soaked in alcohol and dried once cleaned.

7. Tighten the screw (4) that holds the lamp in place.

8. Slide both Fastons (3) onto the lamp.

9. Re-insert the lamp cover (2) and tighten the 4 screws (1) on the lamp cover.

10. Connect the fixture to the mains.

9. Reset the 'Lamp Hours' in the fixtures menu.
(See page 23 'Lamp Hours Reset' for instructions on how to clear the lamp hours.)

Lamp adjustment:

The lamp holder is aligned at the factory. Due to slight differences between lamps, the fine adjustment of a lamp may improve the light performance.

For lamp adjustment please use the 4 screws on the lamp assembly plate marked A and the adjustment screw marked B.

Image on the wall

Centred Lamp
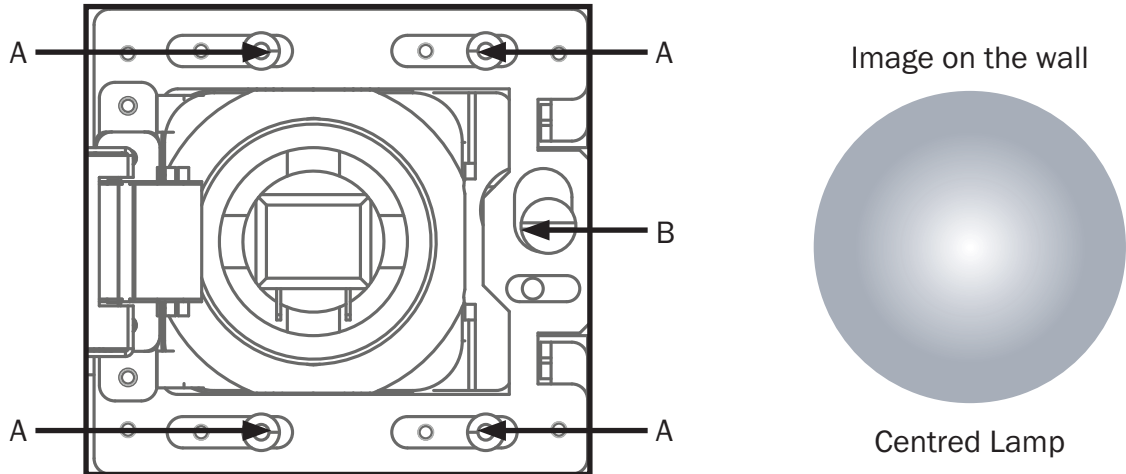
To adjust the lamp in the fixture:

1. Connect the fixture to the mains and switch on the lamp, open the shutter (strobe) and dimmer and set the focus. Colour wheel and gobo wheel should be open and check the image on the wall.

2. Disconnect the fixture from the mains.

3. Loosen the 4 screws (1) on the lamp cover and remove the lamp cover (2) to access the lamp compartment.

4. Loosen the 4 screws on the lamp assembly plate labelled (A).
(Do not remove these totally, a half turn will suffice.)

5. Move the lamp into the required position (left/right) by using a suitable flat headed screwdriver inserted into the adjustment screw labelled B and rotate clockwise (lamp moves left)/anti-clockwise (lamp moves right) until the lamp has been adjusted to your requirements.

6. Tighten the 4 screws on the lamp assembly plate (A).

7. Re-insert the lamp cover (2) and tighten the 4 screws (1) on the lamp cover.

8. Connect the fixture to the mains and check the adjustment is now correct.

9. If the fixture needs further adjustment repeat steps 2-8.

Please note: If you need to adjust the lamp up/down please use the gobo offset adjustment on page 18.

> **The lamp MUST be adjusted with the fixture disconnected from the mains!**
> **Do not operate this fixture without all external covers!**

Lamp adjustment continued:

Due to light refraction, the lamp should be moved in the direction of the hotspot to centralise it. Please see diagram below.

Image on the wall	Image on the wall

Move the lamp to the left	Move the lamp to the right
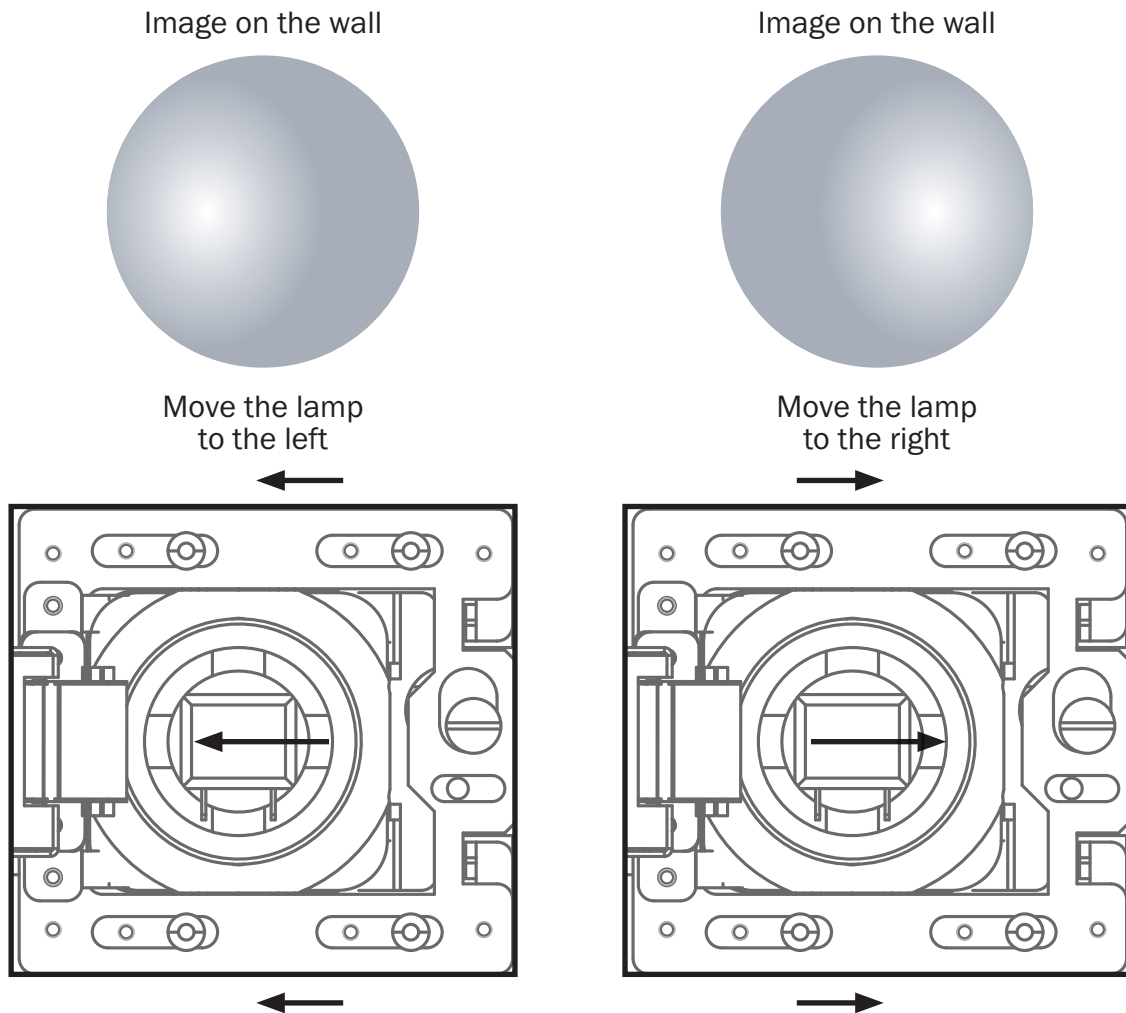
Please note: The adjusted hotspot may move during the first 100 hours of lamp operation as the lamp stabilises whilst its burning. Please adjust the lamp if the hotspot moves out of the centre.

WARNING!
Gobo replacement should only be done by a trained professional.
The fixture MUST be disconnected from the mains and allowed to
cool down for at least 60 minutes before replacing the gobo(s).

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1. Unscrew and remove the 8 screws securing the plastic head shell (4 screws per side of the head).
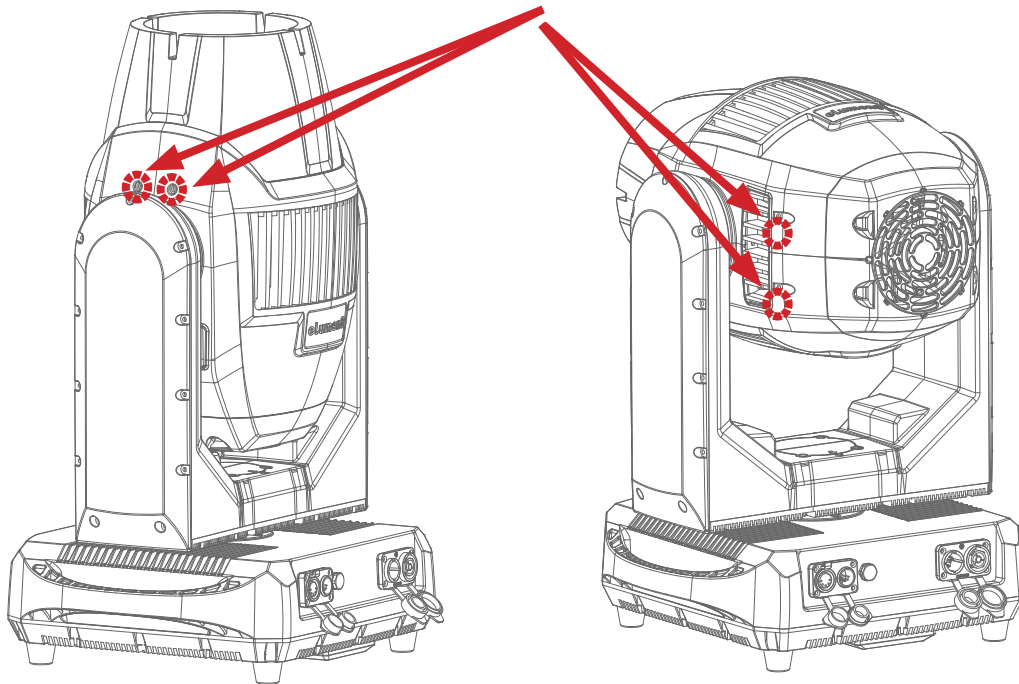
2. Remove the plastic head shell.

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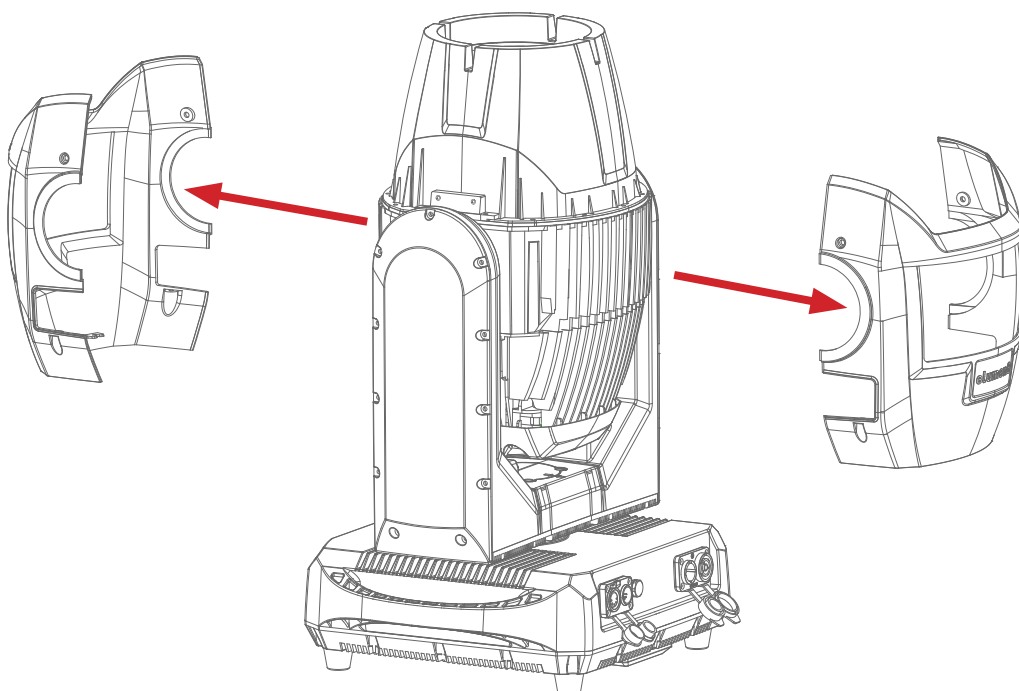
3. Unscrew and remove the 10 screws securing the lens surround to the head. Once the screws have been removed lift the lens surround upwards away from the unit.
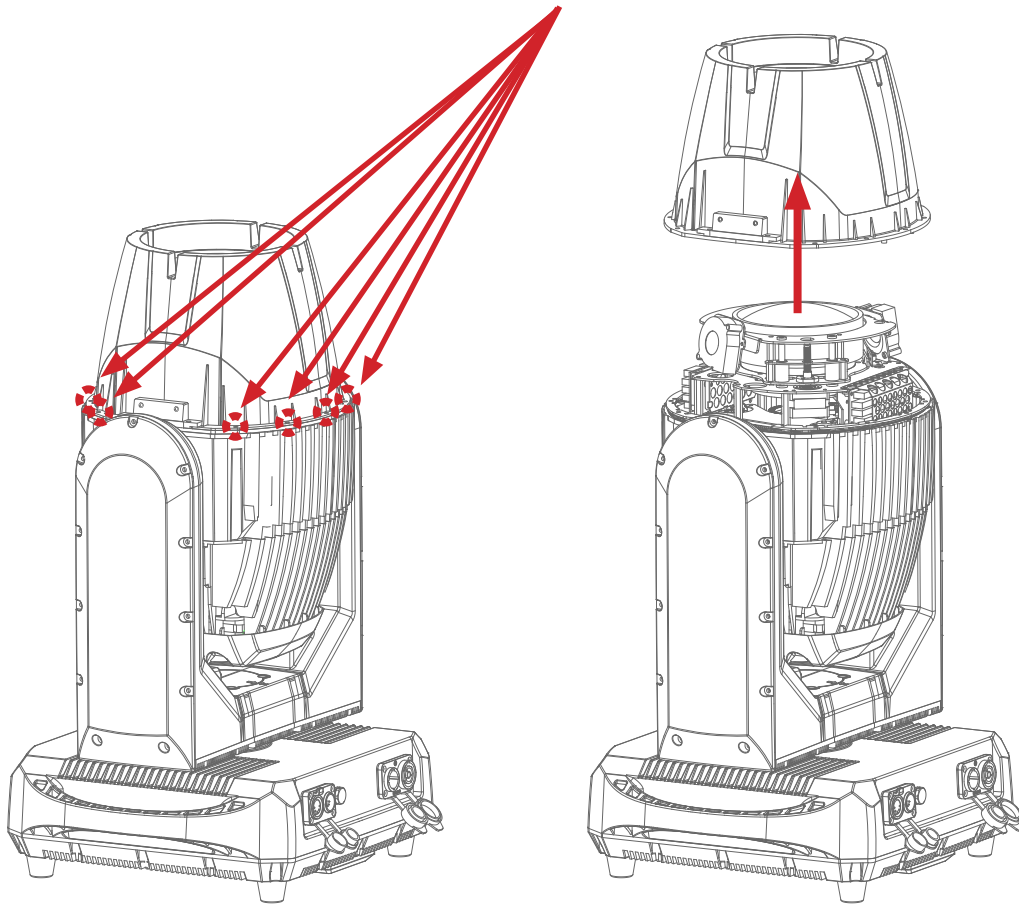
4. Unscrew and remove the 2 screws on the guard plate and remove the guard plate.
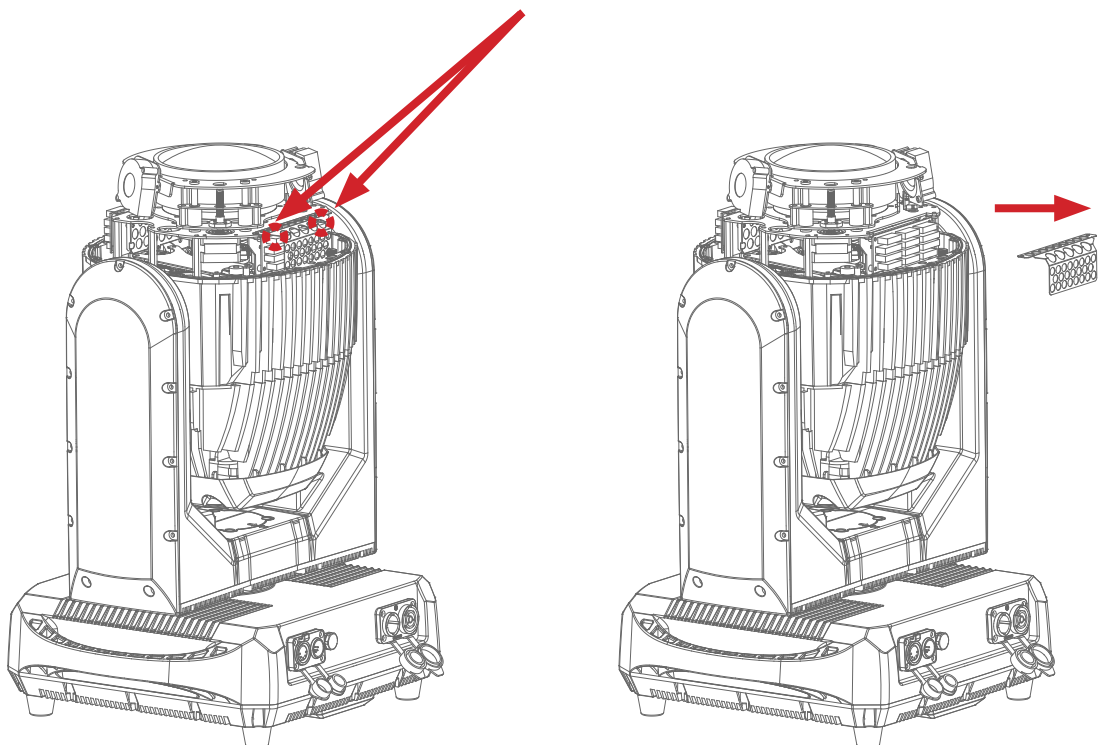
Note: Disconnect the cables with red sleeves before removing the head module.

5. Carefully remove the head module by lifting upwards away from the head.

Head module
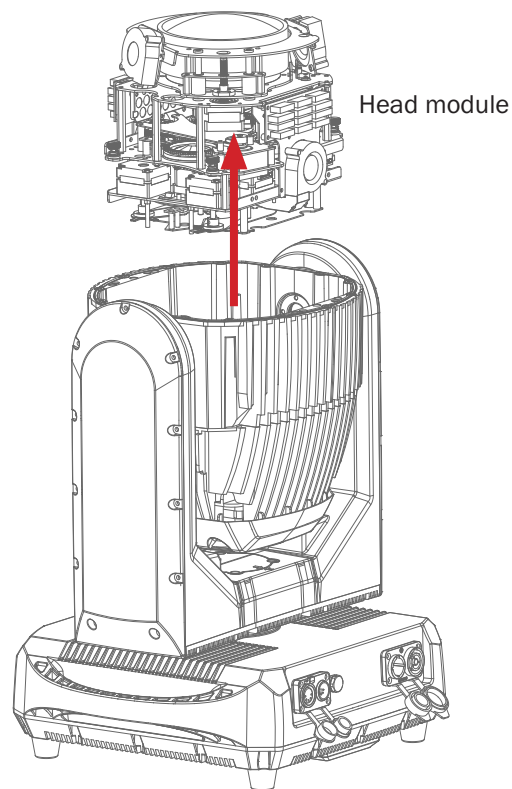
6. Unscrew and remove the 4 screws on the insulation board and remove the insulation board.

Insulation board
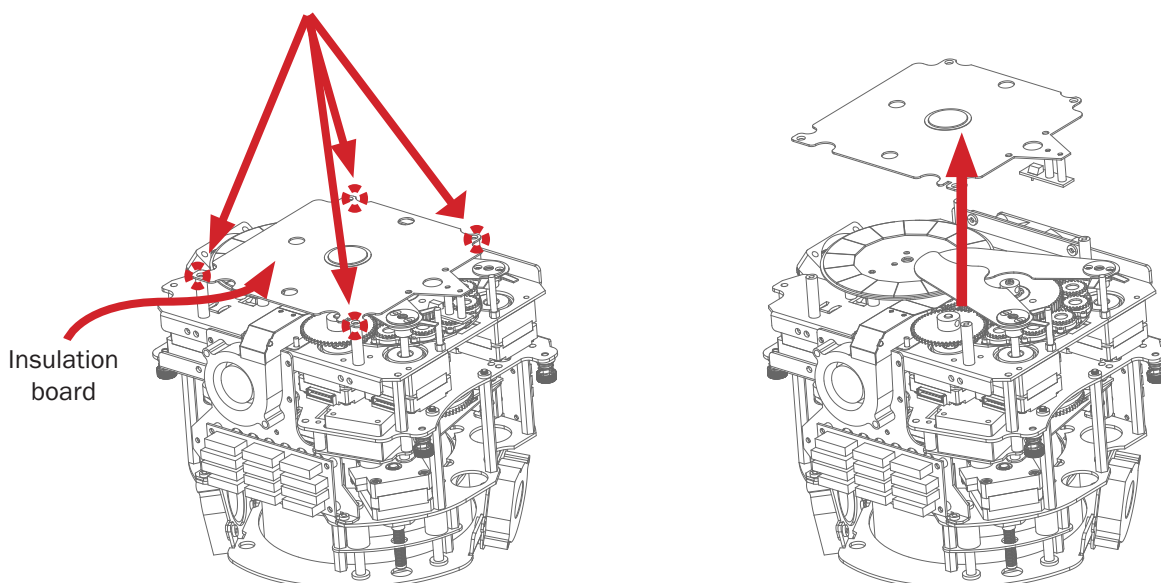
7. Carefully lift the gobo holder up and pull away from the gobo wheel.
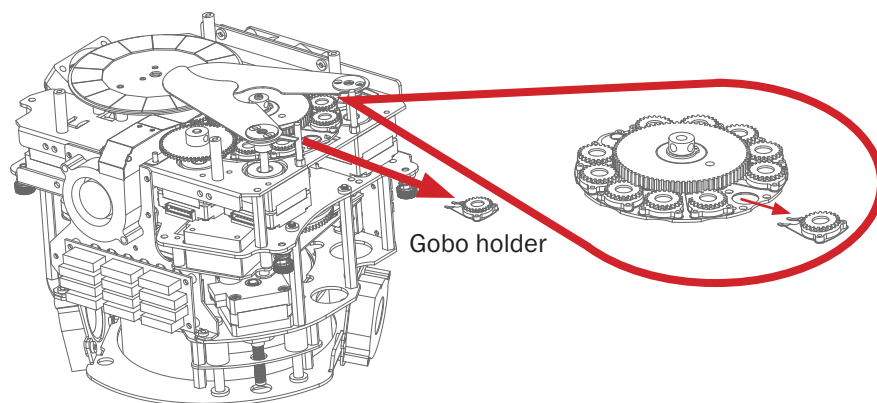
Gobo holder

8. Gobo replacement: The gobo is secured into the gobo holder by a retaining spring clip. Carefully remove the spring clip holding the gobo in place. Remove the gobo from the gobo holder and replace with the desired gobo. Reinsert the spring clip into the gobo holder ensuring it is secure.

Spring clip
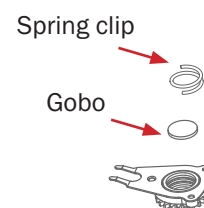
Gobo

9. Re-insert the gobo holder into the gobo wheel and reassemble the fixture.

Note: Please see page 18 for torque settings when reassembling the fixture.
We always recommend testing the IP integrity after gobo replacement using the Elumen8 IP Tester. Please see page 18 for more information.
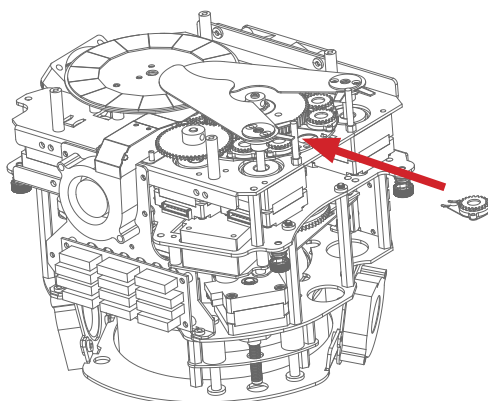
Torque settings:

All screws must be tightened with a torque driver. All screws are hex head screws. Please see below table and diagram on the following page for screw locations, quantities and torque settings.

Position	Part of Head (Number of Screws)	Torque (Size of Screw)
1	Lens Assembly to Head Casing (10)	0.74-0.98 Nm (3mm Hex)
2	Head Casing (8)	0.74-0.98 Nm (3mm Hex)
3	Lamp Cover to Head Casing (4)	0.75-1.08 Nm (4mm Hex)
4	Arm Cover (11 per side, 22 total)	0.74-0.98 Nm (3mm Hex)
5	Access Cover for Yoke Frame (4)	Manual Screwdriver (3mm Hex)
6	Bottom Cover to Base Casing (16)	0.75-1.08 Nm (3mm Hex)
7	Power/Data Connectors to Base Casting (8)	0.74-0.98 Nm (3mm Hex)
8	Omega Clamp Mounting Plate (16)	0.74-0.98 Nm (3mm Hex)

Torque Drivers (recommended): UTICA TS-30 (shown below).

CAUTION!
DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES!
WE ALWAYS RECOMMEND TESTING THE IP INTEGRITY AFTER LAMP REPLACEMENT/OPENING THE HOUSING, USING THE ELUMEN8 IP TESTER. CONTACT PROLIGHT SERVICE FOR MORE INFORMATION.

Titan Beam T3 IP Testing Parameters			
Type Test	**Target Value**	**Acceptable Change due to Leakage**	**Hold Time (S)**
Vacuum Test	-4.4 psi (-30 KPa)	0.7 psi (4.5 KPa)	60 seconds
Pressure Test	1.9 psi (13 KPa)	0.7 psi (4.5 KPa)	60 seconds

**Elumen8 IP Tester
sold separately
(Order code: ELUM699)**
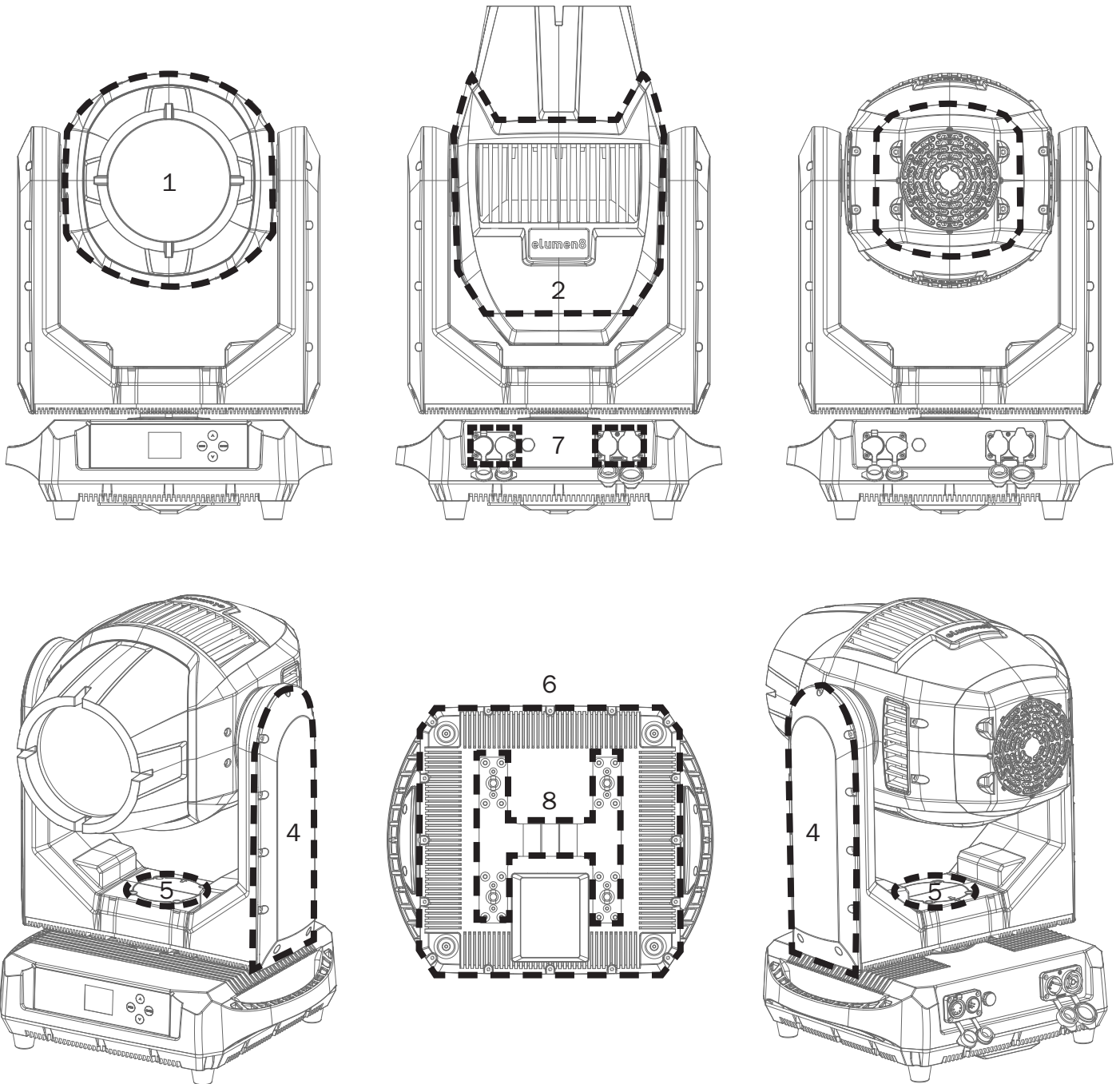
Control Panel Menu:

The LCD control panel situated on the front of the fixture allows the user to access the menu system to adjust the fixtures settings.

When the unit has been powered on the display will show "**elumen8**" followed by the home screen.

Press the "**MENU**" button for 5 seconds and it will take the user to the fixtures main menu. Using the "**UP**" and "**DOWN**" buttons you can then navigate between the different options in the main menu. Pressing the "**ENTER**" button on one of these options allows you to access the sub menu where you can use the "**UP**" and "**DOWN**" buttons to select option/value required. Once the option/value has been selected press the "**ENTER**" button once more to confirm the setting.

To exit out of any of the above options, press and hold the "**MENU**" button.

<u>Error Codes:</u>

When the unit is powered on the unit will automatically perform a motor reset. If there is a problem with any of the motors the display will flash and display "**Error:**" along with a list of motor errors on the LCD control panel. Please power the unit off and on to reset the motors again.

Error Code	Description
Pan Reset Error	The movement is not located in the default position after the reset. This message will appear if the sensor has failed or magnet is missing, or if there is a motor failure (defective motor or a defective motor IC drive). This error may also be displayed if the yoke was blocked during a reset function.
Tilt Reset Error	
Pan Encoder Error	This message will appear if the encoder has failed or is damaged, or if there is a loose connection between the encoder and the driver board.
Tilt Encoder Error	
Color Reset Error	The movement is not located in the default position after the reset. This message will appear if the sensor has failed or magnet is missing, or if there is a motor failure (defective motor or a defective motor IC drive).
Gobo1 Reset Error	
Prism1 Reset Error	
Prism2 Reset Error	
R-Prism1 Reset Error	
R-Prism2 Reset Error	
Focus Reset Error	
Lamp Too Hot Off	This message will appear if the temperature sensor of the lamp has failed or if the fans have stopped working.
Lamp Maintenance	This message will appear if the lamp is nearing or has reached its service time.
CPU-B Error	This message will appear if there is damage to the main/driver boards or if there is a loose connection between them.
CPU-C Error	
CPU-D Error	
Base Fan 1 Error	This message will appear if the fan has stopped working or if the connection between the fan and main/drive board is loose. This error may also be displayed if something is obstructing the fan from rotating.
Base Fan 2 Error	
Base Fan 3 Error	
Arm Fan 1 Error	
Arm Fan 2 Error	
Head Fan 1 Error	
Head Fan 2 Error	
Head Fan 3 Error	
Head Fan 4 Error	
Head Fan 5 Error	
Head Fan 6 Error	
Head Fan 7 Error	

IMPORTANT! PLEASE NOTE:

The LCD display for this fixture has a menu locking function where after 30 seconds of inactivity it will lock. To unlock the menu press and hold the "**MENU** button for 5 seconds.

When DMX signal is lost or is not present the display will flash.

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
DMX Functions	DMX Address	**001**-512		DMX Address Setting
	DMX Channel Mode	**Mode1(16)** - 16 channel mode		DMX Channel Modes
		Mode2(18) - 18 channel mode		
	DMX State	BlackOut		DMX Fail Setting
		Hold		
	WDMX On Off	On		Activate/deactivate W-DMX
		Off		
	WDMX Setup	**No**		Pair W-DMX
		Yes		
	View DMX Value			View DMX Value
Fixture Setting	Pan Inverse	**No**		Pan Inverse Setting
		Yes		
	Tilt Inverse	**No**		Tilt Inverse Setting
		Yes		
	P/T Feedback	No		Pan/Tilt Feedback Setting
		Yes		
Lamp Setting	Lamp On/Off	**Off**		Lamp On/Off Setting
		On		
	State/Power On	**Off**		Lamp On Power On Setting
		On		
Display Setting	Display Inverse	**No**		Display Inverse Setting
		Yes		
	Backlight Intensit	1-**10**		Backlight Brightness Setting
	Temperature Unit	**°C**		Temperature Unit Setting
		°F		
Fixture Test	Auto Test			Auto Test Mode
	Manual Test	1. Pan	000-255 (**128**)	Manual Test Mode
		2. Pan Fine	000-255 (**000**)	
		3. Tilt	000-255 (**128**)	
		4. Tilt Fine	000-255 (**000**)	
		5. Color	000-255 (**000**)	
		6. Gobo	000-255 (**000**)	
		7. RGobo	000-255 (**000**)	
		8. Prism1	000-255 (**000**)	
		9. RPrism1	000-255 (**000**)	
		10. Prism2	000-255 (**000**)	

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Fixture Test (cont.)	Manual Test	11. RPrism2	000-255 (**000**)	Manual Test Mode
		12. Shutter	000-255 (**255**)	
		13. Dimmer	000-255 (**255**)	
		14. Frost	000-255 (**000**)	
		15. Focus	000-255 (**000**)	
		16. Function	000-255 (**000**)	
Fixture Information	Fixture Use Hour	XXh		DMX Address Setting
	Lamp Life Time (more info on page 24)	Password=050	Work Mode	Fixture Hours (Lamp On)
			Sleep Mode	Fixture Hours (Lamp Off)
			Sleep Ratio	Fixture Hours (Sleep Ratio)
	Lamp Hours Reset	Password=050		Lamp Hours Reset
	Temperature	Head:		Temperature Information
		A:		
		B:		
		C:		
		D:		
		E:		
	Humidity	XX%		Humidity Information
	Voltage	XX.XXV		Voltage Information
	Fan State	Base Fan 1	XXXX	Fan RPM Information
		Base Fan 2	XXXX	
		Base Fan 3	XXXX	
		Side Fan 1	XXXX	
		Side Fan 2	XXXX	
		Lamp Fan 1	XXXX	
		Lamp Fan 2	XXXX	
		Lamp Fan 3	XXXX	
		Lamp Fan 4	XXXX	
		Lamp Fan 5	XXXX	
		Lamp Fan 6	XXXX	
		Lamp Fan 7	XXXX	
	Firmware Version	CPU-A VX.X BX.X	000-255	Firmware Versions
		CPU-B VX.X BX.X	000-255	
		CPU-C VX.X BX.X	000-255	
		CPU-D VX.X BX.X	000-255	
		CPU-E VX.X BX.X	000-255	
	RDM UID	UID:		RDM Information
	Error Logs	Fixture Errors		Fixture Error Information
		Reset Error Log	No	Reset Error Log
			Yes (Password=050)	

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)	Description
Reset Functions	Pan/Tilt	**No**	Pan/Tilt Motor Reset
		Yes	
	Effect	**No**	Effect Motor Reset
		Yes	
	All	**No**	All Motor Reset
		Yes	
Special Functions	Factory Setting	**No**	Reset Factory Default Settings
		Yes	

Offset Menu:

To adjust the home position of the pan/tilt/effects motors enter the main menu, press and hold the "**ENTER**" button for 3 seconds, the offset menu will now be displayed and can be adjusted.

Menu	Sub Menu	Options/Values (Default Settings in BOLD)
Offset Menu	Pan	-128-127
	Tilt	-128-127
	Colour	-128-127
	Gobo	-128-127
	RGobo	-128-127
	Prism1	-128-127
	R-Prism1	-128-127
	Prism2	-128-127
	R-Prism2	-128-127
	Shutter	-128-127
	Frost	-128-127
	Focus	-128-127

Lamp Life Time:

To view the lamp life time, navigate to the Lamp Life Time menu within the Fixture Information menu. Press the "**ENTER**" button to show the percentage of life left in the lamp. Press and hold the "**ENTER**" button until password is shown. Enter "**050**" as the password and press "**ENTER**". This will now allow you to select between Work Mode (Fixture hours, lamp on), Sleep Mode (Fixture hours, lamp off) or Sleep Ratio (Fixture hours, sleep ratio).

16 channel mode:

Channel	Value	Function
CH1	000-255	Pan adjustment (0-540°)
CH2	000-255	Pan fine
CH3	000-255	Tilt adjustment (0-270°)
CH4	000-255	Tilt fine
CH5	000-003	Open
	004-007	Red
	008-011	Orange
	012-015	Aquamarine
	016-019	Green
	020-023	Light Green
	024-027	Lavender
	028-031	Pink
	032-035	Light Yellow
	036-039	Magenta
	040-043	Cyan
	044-047	Blue
	048-051	3200K
	052-055	5600K
	056-059	UV
	060-127	Colour wheel indexing
	128-189	Anti-clockwise rotation (fast-slow)
	190-193	Stop
	194-255	Clockwise rotation (slow-fast)
CH6		Gobo
	000-009	Open
	010-014	Gobo 1
	015-019	Gobo 2
	020-024	Gobo 3
	025-029	Gobo 4
	030-034	Gobo 5
	035-039	Gobo 6
	040-044	Gobo 7
	045-049	Gobo 8
	050-054	Gobo 9
	055-059	Gobo 10
	060-063	Gobo 11
	064-068	Open shake (slow-fast)
	069-073	Gobo 1 shake (slow-fast)
	074-078	Gobo 2 shake(slow-fast)
	079-083	Gobo 3 shake (slow-fast)

Channel	Value	Function
CH6 cont.	084-088	Gobo 4 shake (slow-fast)
	089-093	Gobo 5 shake (slow-fast)
	094-098	Gobo 6 shake (slow-fast)
	099-103	Gobo 7 shake (slow-fast)
	104-108	Gobo 8 shake (slow-fast)
	109-113	Gobo 9 shake (slow-fast)
	114-118	Gobo 10 shake (slow-fast)
	119-127	Gobo 11 shake (slow-fast)
	128-189	Scroll anti-clockwise (fast-slow)
	190-193	Stop
	194-255	Scroll clockwise (slow-fast)
CH7		Gobo rotation
	000-127	Gobo indexing
	128-189	Clockwise rotation (fast-slow)
	190-193	Stop
	194-255	Anti clockwise rotation (slow-fast)
CH8		Prism 1
	000-007	No function
	008-255	Prism 1
CH9		Prism 1 rotation
	000-127	Prism indexing
	128-189	Anti-clockwise rotation (fast-slow)
	190-193	Stop
	194-255	Clockwise rotation (slow-fast)
CH10		Prism 2
	000-007	No function
	008-255	Prism 2
CH11		Prism 2 rotation
	000-127	Prism 2 indexing
	128-189	Anti-clockwise rotation (fast-slow)
	190-193	Stop
	194-255	Clockwise rotation (slow-fast)
CH12		Shutter
	000-007	Close
	008-015	Open
	016-131	Strobe (slow-fast)
	132-167	Fast close, slow open
	168-203	Fast open, slow close
	204-239	Pulse strobe (slow-fast)
	240-247	Random strobe (slow-fast)
	248-255	Open

16 channel mode (cont.):

Channel	Value	Function
CH13	000-255	Dimmer 0-100%
	Frost	
CH14	000-007	No function
	008-255	Frost
CH15	000-255	Focus
	Special Functions	
	000-069	No Function
	070-079	Blackout while pan/tilt enable
	080-089	Blackout while pan/tilt disable
	090-099	Blackout while colour change enable
	100-109	Blackout while colour change disable
	110-119	Blackout while gobo change enable
	120-129	Blackout while gobo change disable
CH16	130-139	Lamp on
	140-149	Reset pan/tilt motors
	150-159	Reset effect motors
	160-199	No function
	200-209	Reset all motors
	210-229	No function
	230-239	Lamp off
	240-255	No function

18 channel mode:

Channel	Value	Function
CH1	000-255	Pan adjustment (0-540°)
CH2	000-255	Pan fine
CH3	000-255	Tilt adjustment (0-270°)
CH4	000-255	Tilt fine
CH5	000-255	Pan/tilt speed (fast-slow)
CH6	000-003	Open
	004-007	Red
	008-011	Orange
	012-015	Aquamarine
	016-019	Green
	020-023	Light Green
	024-027	Lavender
	028-031	Pink
	032-035	Light Yellow
	036-039	Magenta
	040-043	Cyan
	044-047	Blue
	048-051	3200K
	052-055	5600K
	056-059	UV
	060-127	Colour wheel indexing
	128-189	Anti-clockwise rotation, (fast-slow)
	190-193	Stop
	194-255	Clockwise rotation (slow-fast)
CH7	Gobo	
	000-009	Open
	010-014	Gobo 1
	015-019	Gobo 2
	020-024	Gobo 3
	025-029	Gobo 4
	030-034	Gobo 5
	035-039	Gobo 6
	040-044	Gobo 7
	045-049	Gobo 8
	050-054	Gobo 9
	055-059	Gobo 10
	060-063	Gobo 11
	064-068	Open shake (slow-fast)
	069-073	Gobo 1 shake (slow-fast)
	074-078	Gobo 2 shake (slow-fast)

18 channel mode (cont.):

Channel	Value	Function
CH7 cont.	079-083	Gobo 3 shake (slow-fast)
	084-088	Gobo 4 shake (slow-fast)
	089-093	Gobo 5 shake (slow-fast)
	094-098	Gobo 6 shake (slow-fast)
	099-103	Gobo 7 shake (slow-fast)
	104-108	Gobo 8 shake (slow-fast)
	109-113	Gobo 9 shake (slow-fast)
	114-118	Gobo 10 shake (slow-fast)
	119-127	Gobo 11 shake (slow-fast)
	128-189	Scroll anti-clockwise (fast-slow)
	190-193	Stop
	194-255	Scroll clockwise (slow-fast)
CH8		Gobo rotation
	000-127	Gobo indexing
	128-189	Clockwise rotation (fast-slow)
	190-193	Stop
	194-255	Anti-clockwise rotation (slow-fast)
CH9		Prism 1
	000-007	No function
	008-255	Prism 1
CH10		Prism 1 rotation
	000-127	Prism 1 indexing
	128-189	Clockwise rotation (fast-slow)
	190-193	Stop
	194-255	Anti-clockwise rotation (slow-fast)
CH11		Prism 2
	000-007	No function
	008-255	Prism 2
CH12		Prism 2 rotation
	000-127	Prism 2 indexing
	128-189	Counter-clockwise rotation (fast-slow)
	190-193	Stop
	194-255	Clockwise rotation (slow-fast)

Channel	Value	Function
CH13		Shutter
	000-007	Close
	008-015	Open
	016-131	Strobe (slow-fast)
	132-167	Fast close, slow open
	168-203	Fast open, slow close
	204-239	Pulse strobe (slow-fast)
	240-247	Random strobe (slow-fast)
	248-255	Open
CH14	000-255	Dimmer 0-100%
CH15		Frost
	000-007	No function
	008-255	Frost
CH16	000-255	Focus
CH17	000-255	Focus fine
CH18		Special Function
	000-069	No function
	070-079	Blackout while pan/tilt enable
	080-089	Blackout while pan/tilt disable
	090-099	Blackout while colour change enable
	100-109	Blackout while colour change disable
	110-119	Blackout while gobo change enable
	120-129	Blackout while gobo change disable
	130-139	Lamp on
	140-149	Reset pan/tilt motors
	150-159	Reset effect motors
	160-199	No function
	200-209	Reset all motors
	210-229	No function
	230-239	Lamp off
	240-255	No function

elumen8

Colour Wheel:

LIGHT GREEN	
GREEN	
AQUAM QRINE	LAVENDER
ORANGE	PINK
RED	LIGHT YELLOW
UV	MAGENTA
5600K	CYAN
3200K	BLUE

Gobo Wheel:

Gobo positions: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, Open
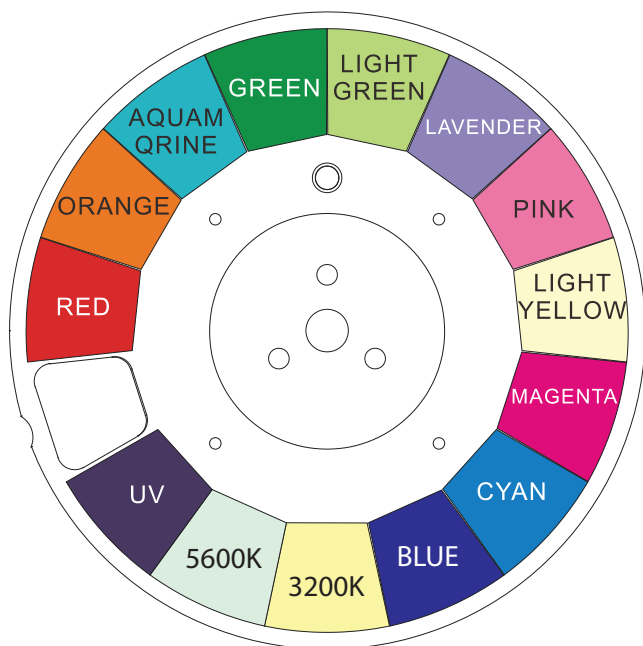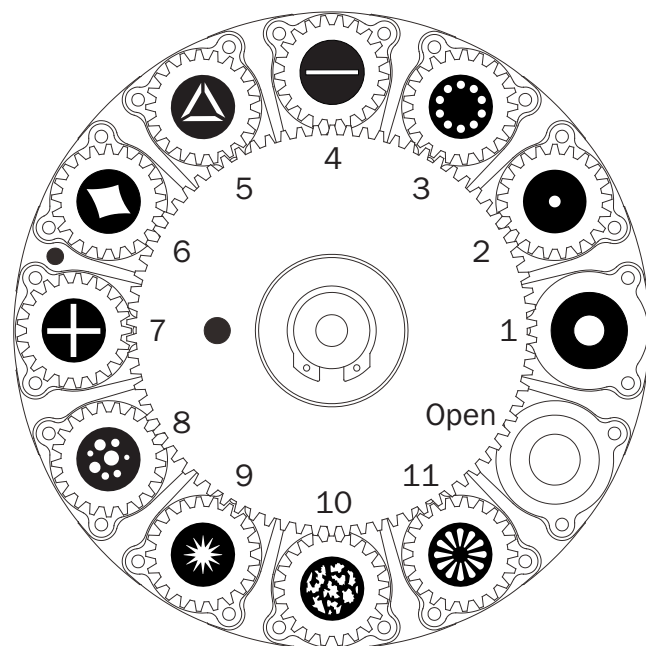
Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1- 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, 105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a data "out" terminal).

DMX linking:

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit requires either a standard 3-pin or 5-pin XLR connector for data input/output, see images below.
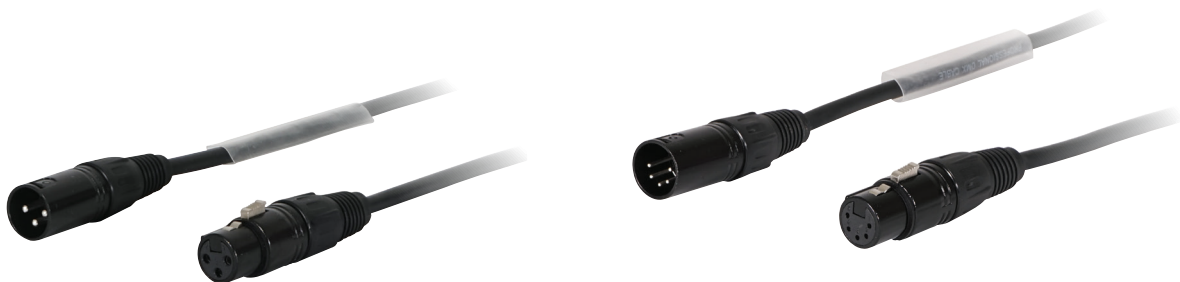
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.

Please quote:	3-Pin:	CABL10 – 2m	CABL11 – 5m	CABL12 – 10m
	5-Pin:	CABL185 – 2m	CABL187 – 5m	CABL188 – 10m

Also remember that DMX cable must be daisy chained and cannot be split.

Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

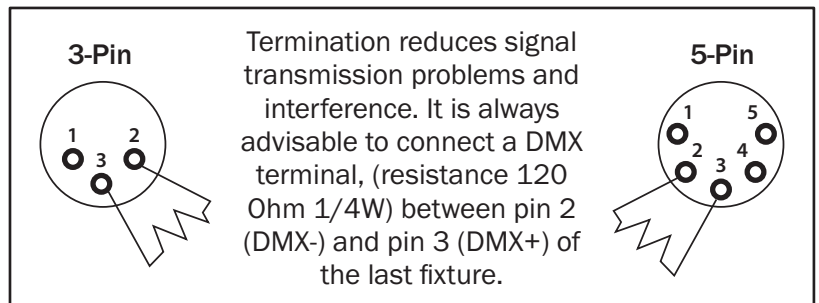| Pin Configuration	
3-Pin	**5-Pin**
Pin 1 - Ground	
Pin 2 - Negative	
Pin 3 - Positive	
–	Pin 4 - N/C
–	Pin 5 - N/C
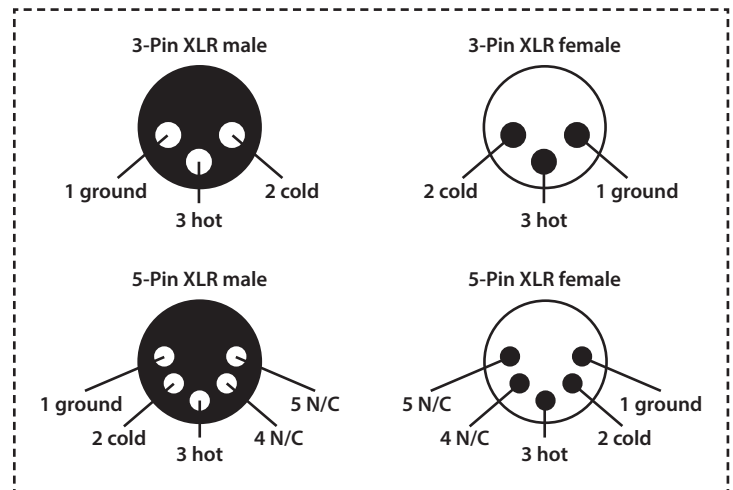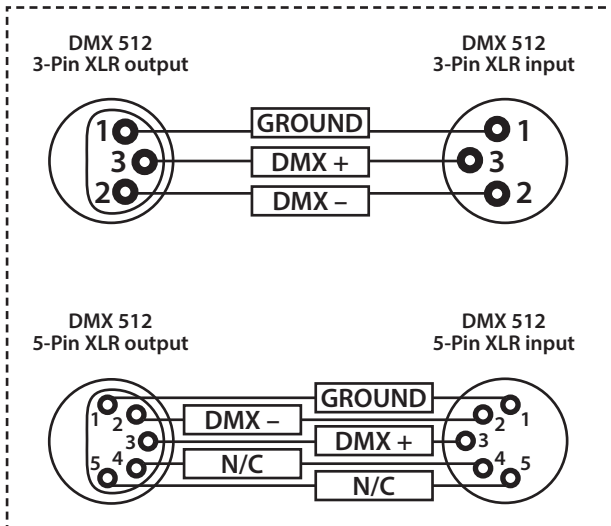
Line termination:

When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL90,
5-pin - Order ref: CABL89)

Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

5-pin XLR DMX connectors:

Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.
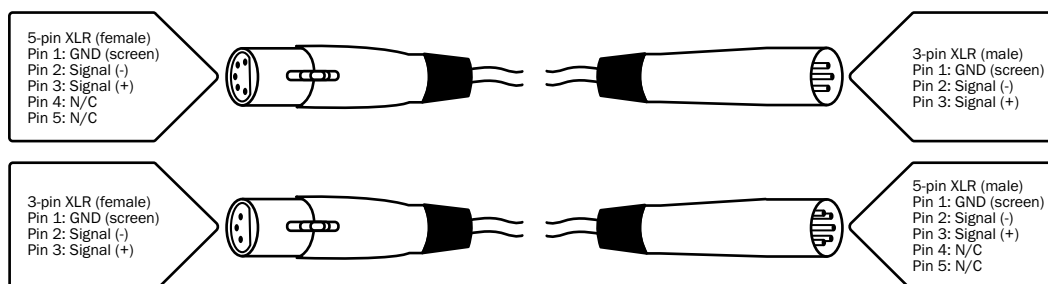
Power linking:

This fixture provides power linking via the power output on the rear allowing multiple units to be connected together. The maximum number of fixtures that can be connected is 2 fixtures @ 240V or 1 fixtures @ 120V (including the first fixture). After the maximum number of fixtures are connected a new power run will need to be started.

Please note: Caution should be used when power linking other fixtures to the Titan Beam T3 as the power consumption of other fixtures will vary. Fixtures fitted with lamps often require 2/3 times more current on startup, these may require their own power source.
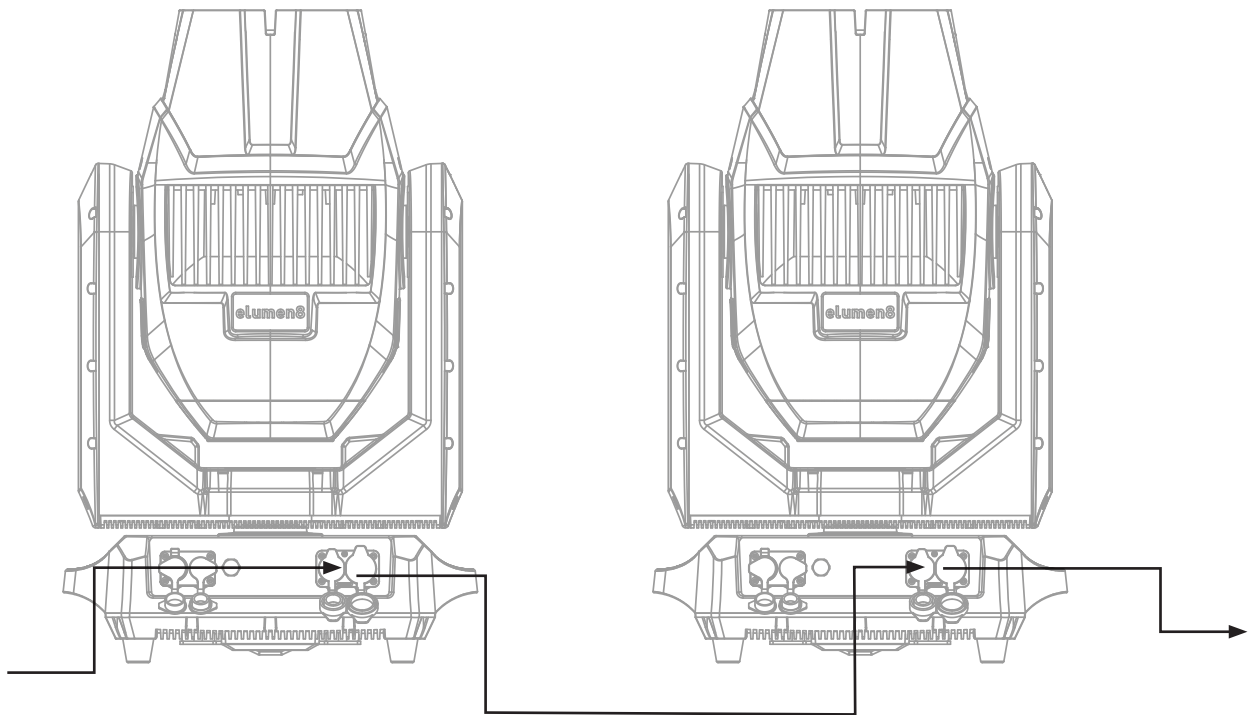
Correct Disposal of this Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.