

# elumen8

## 9RE Beam User Manual



Order codes: ELUM016

### 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.



### 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.
- Only use the equipment indoors.
- 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 has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- Never touch the fixture during operation as it may be hot.
- 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.
- Only use fuses of same type and rating.
- 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.
- 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.

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 ( $T_a$ ) 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.

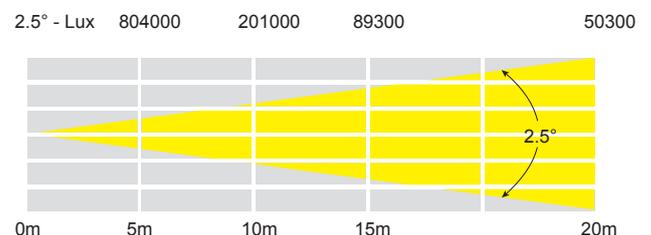
### 9RE Beam

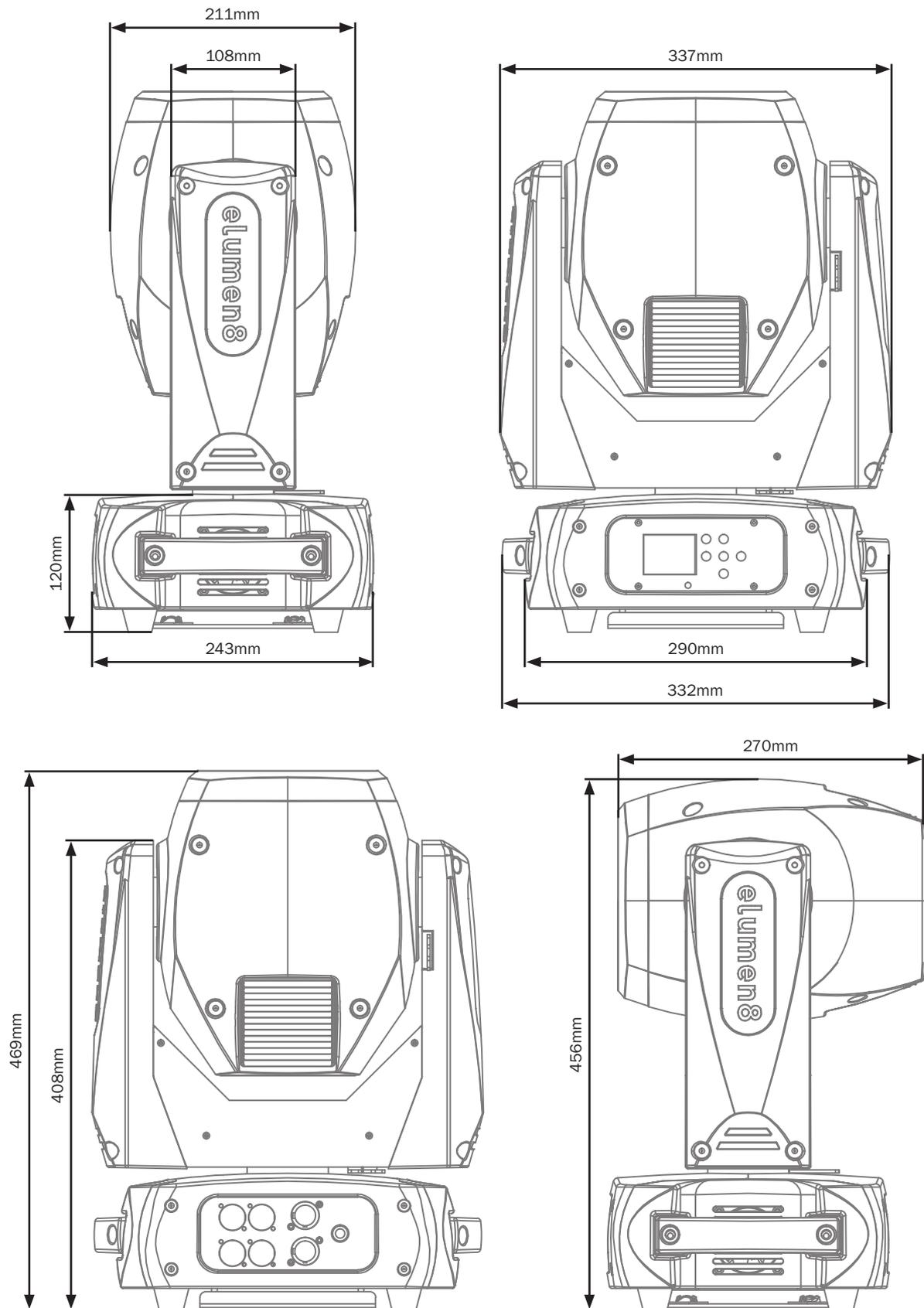
The powerful 9RE Beam moving head allows users to create sharp, well-defined 2.5° beams, powered by an MSD 260R9 (8000K) discharge lamp. The fixture not only has superb optics and motorised focus, it also features 2 prisms that can be used simultaneously, giving the lighting designer or user a host of options to create stunning light shows. This moving head also features 12 colours (plus 5600K, 3200K and open) and 17 fixed gobos (plus open), along with an on-board 6 push button menu with 1.8" LCD display, and selectable 16 bit pan and tilt with auto correction, make this a truly 'event ready' fixture. Ideal for both rental and installation, the 9RE Beam boasts all the fundamental features you would expect from eLumen8, including a 2 year warranty.

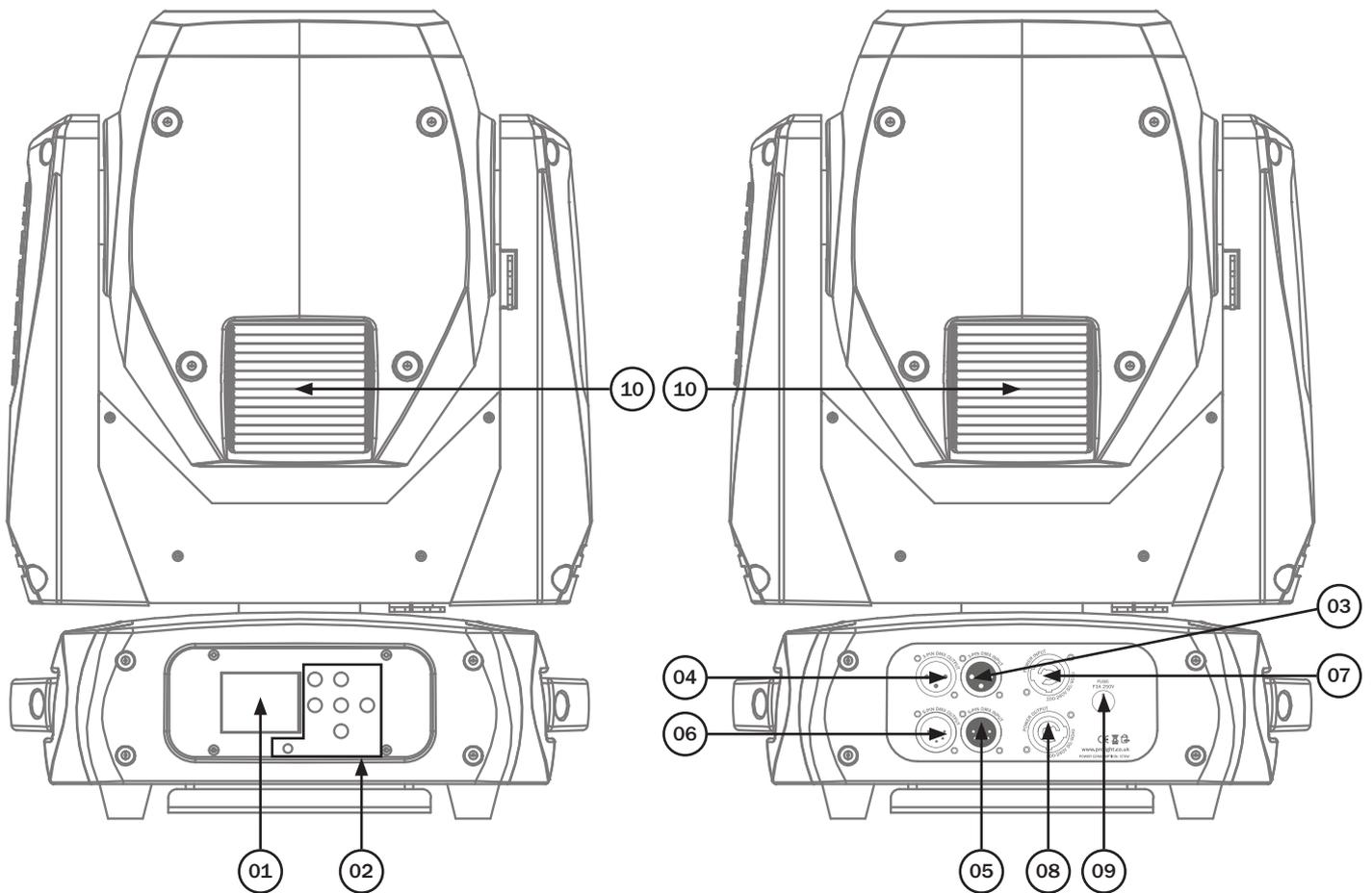
- Lamp: YODN MSD 260R9 (8000K)
- Beam angle: 2.5°
- 201,000 Lux @ 10m
- Motorised focus
- 16 facet circular rotating indexable prism plus 4 facet linear rotating indexable prism
- Frost filter (21°)
- Gobo wheel: 17 fixed gobos + open
- Colour wheel: 12 colours + 5600K + 3200K + open
- DMX channels: 16 or 18 selectable
- Manual mode
- Pan/tilt transit lock
- Pan/tilt auto correction
- 16-Bit pan/tilt positioning
- Built-in pan/tilt macros
- Pan: 630°, Tilt: 270°
- 0-100% dimming and variable strobe
- Quick release omega clamps included
- 6 push button menu with 1.8" LCD display
- Display battery backup for offline configuration
- PowerCON input/output
- 3-Pin XLR input/output
- 5-Pin XLR input/output
- Fan cooled



Specifications	9RE Beam
Power consumption	340W
Fuse	F3A 250V
Power supply	100~240V, 50/60Hz
Dimensions	469 x 337 x 243mm
Weight	15.6kg
Order code	ELUM016







01 - LCD display  
 02 - Function buttons  
 03 - 3-Pin DMX input  
 04 - 3-Pin DMX output

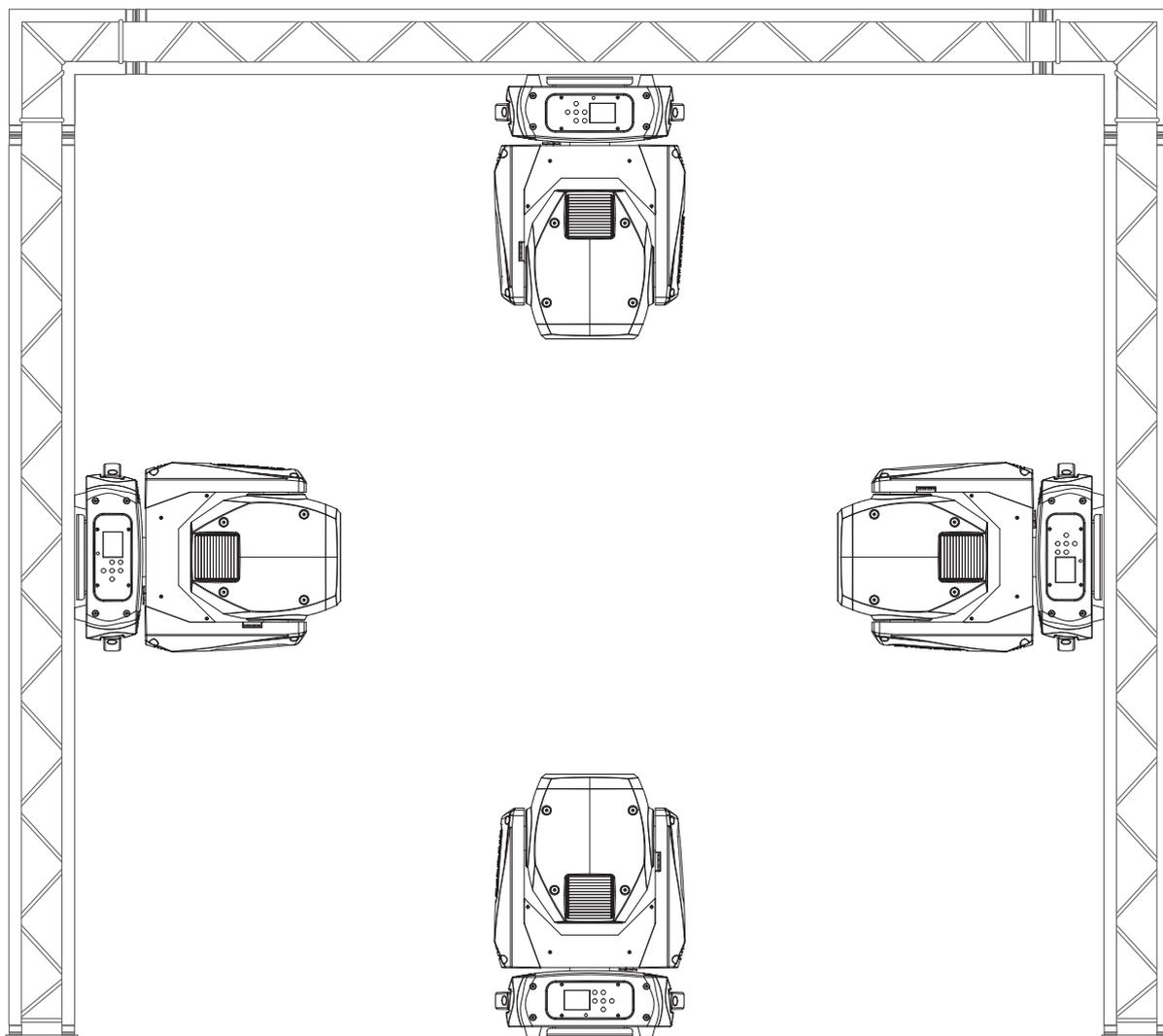
05 - 5-Pin DMX input  
 06 - 5-Pin DMX output  
 07 - PowerCON input  
 08 - PowerCON output

09 - Fuse F3A 250V  
 10 - Fans

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

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.

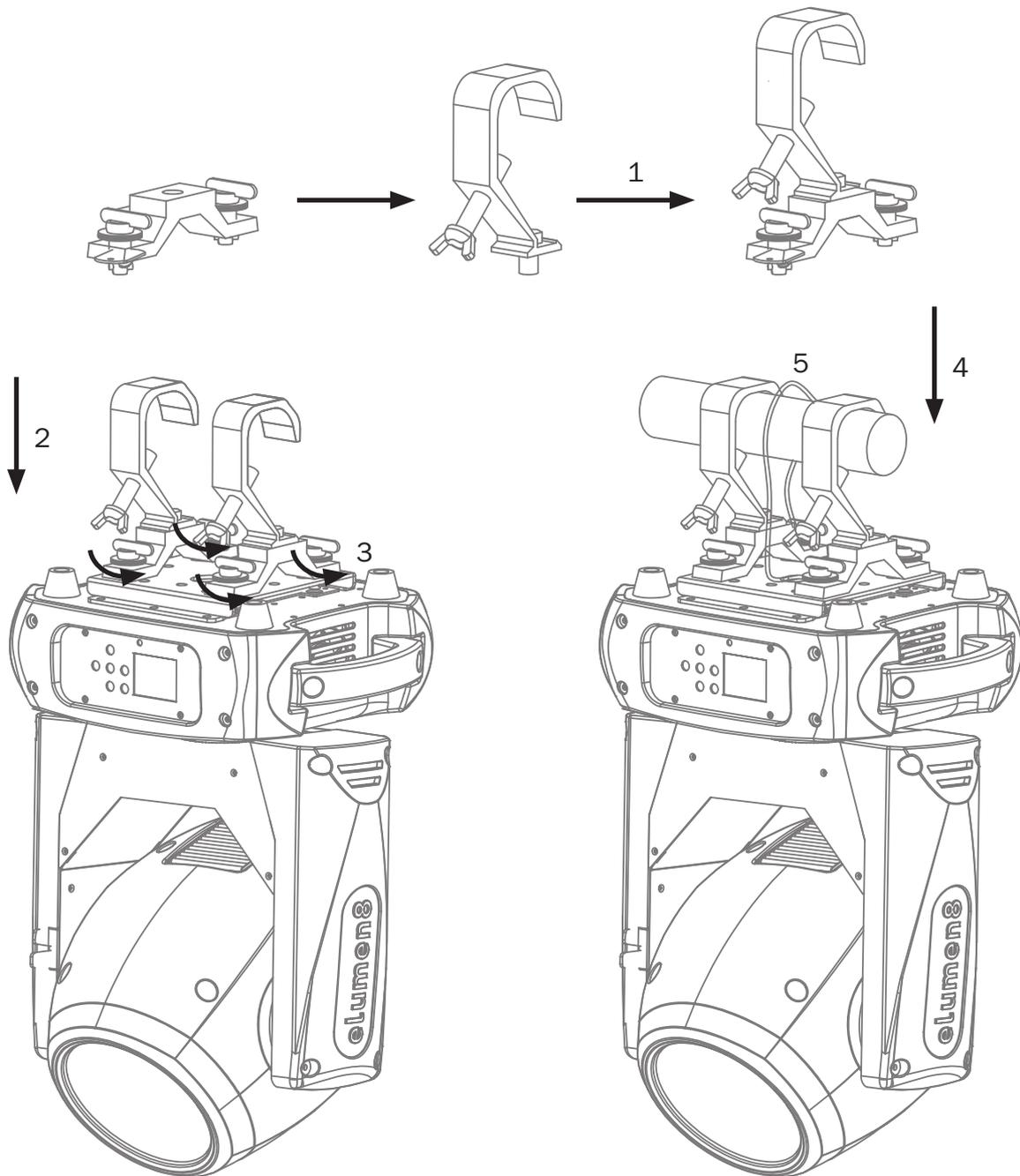
Overhead installation requires experience and qualifications to calculate working load limits, the material being used at the installation area and periodic safety inspections of the fixture and installation material. If you do not have the relevant experience and/or qualifications please do not attempt the installation yourself. The installation should be checked annually by a qualified person.

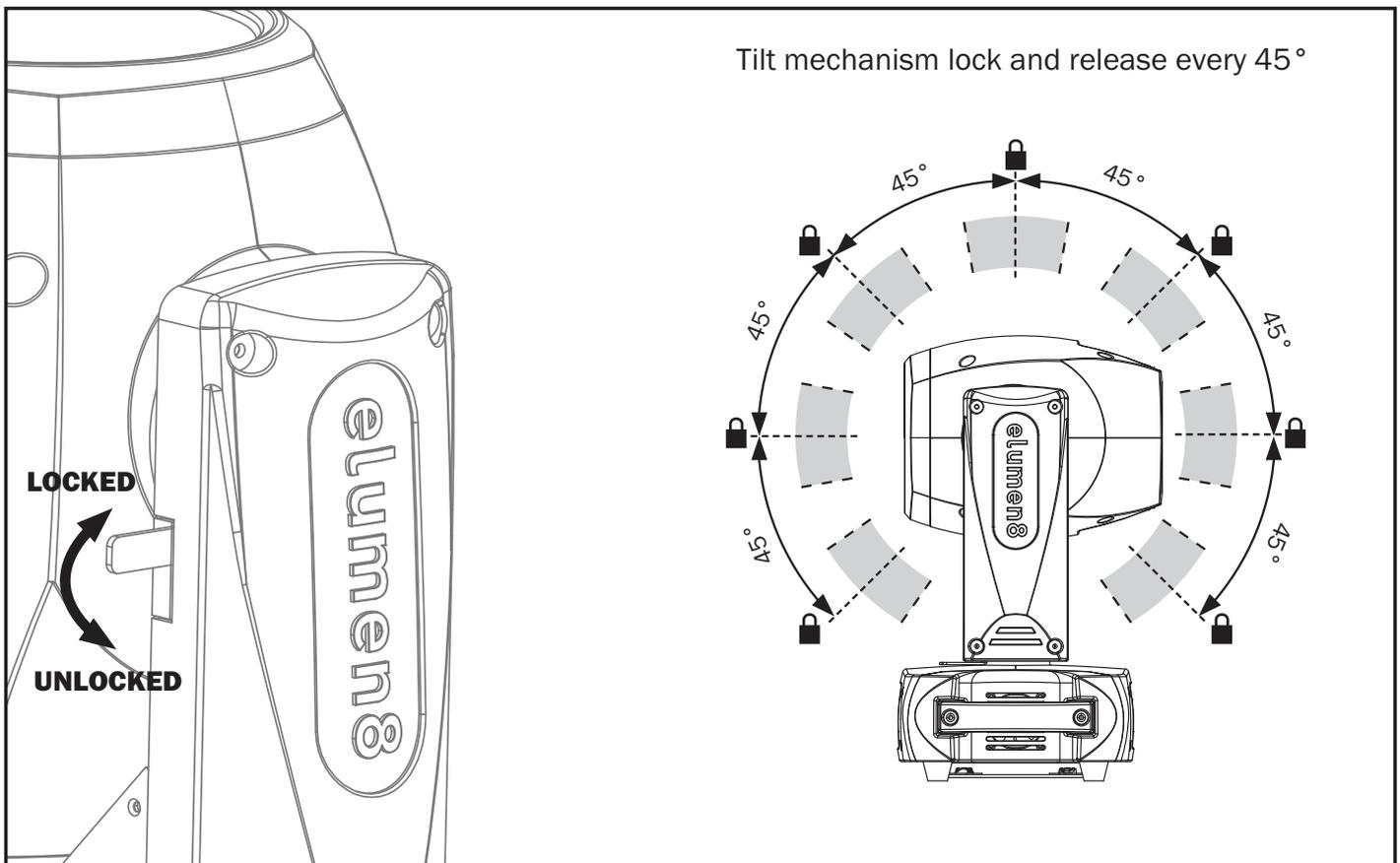
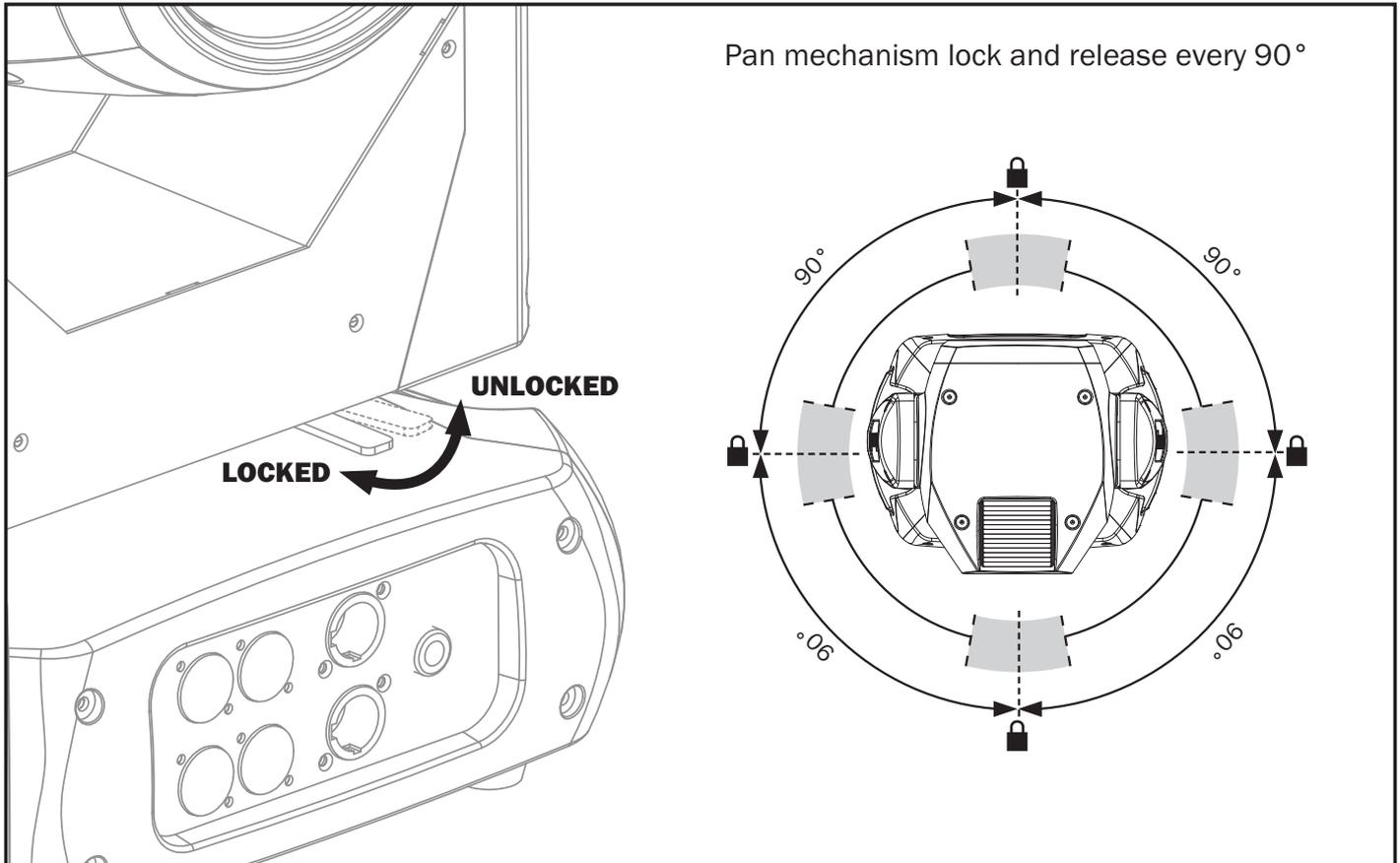


The eLumen8 9RE Beam can be operated in a number of mounting positions as shown in the diagram above, hanging upside-down from the ceiling or truss, mounting sideways on truss or stood upright on a flat level surface. The fixture **MUST** be kept a minimum of 12m (40ft) away from any illuminated and/or 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 YODN MSD 260R9 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.

The YODN MSD 260R9 Lamp **MUST** be replaced every 2000 hours or when damaged and/or deformed.

When the lamp needs replacing the display will show “**Warning!!! Change Lamp**”. This will then be shown on each startup until the lamp is replaced. Press any button to continue operation.

See page 11 for instructions on changing the lamp.

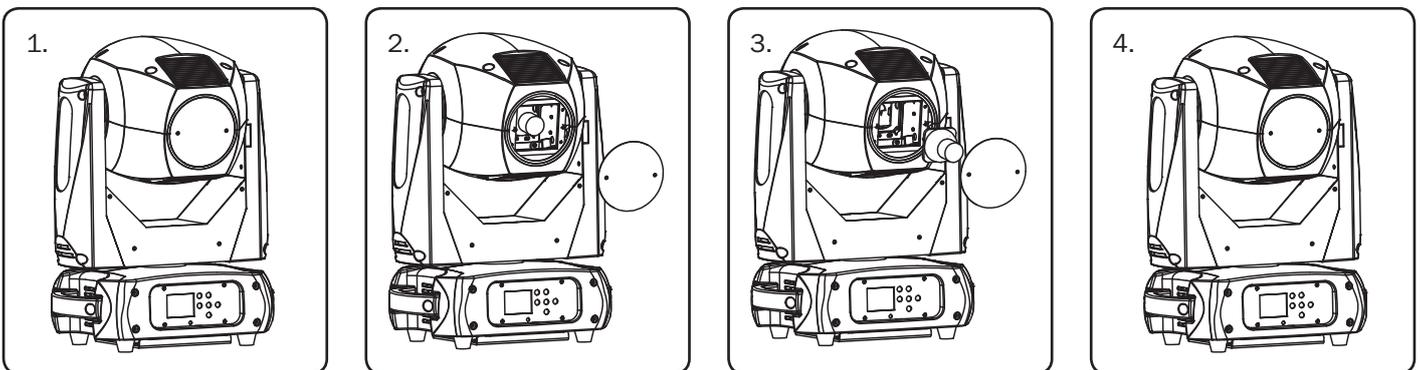
Only use GENUINE YODN Lamps. Other branded lamps will cause damage and will void the fixtures warranty.

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.

### Discharge Lamp Installation:



**DANGER!**  
**Unplug the fixture from the mains before replacing the lamp!**

**Inserting a new lamp:**

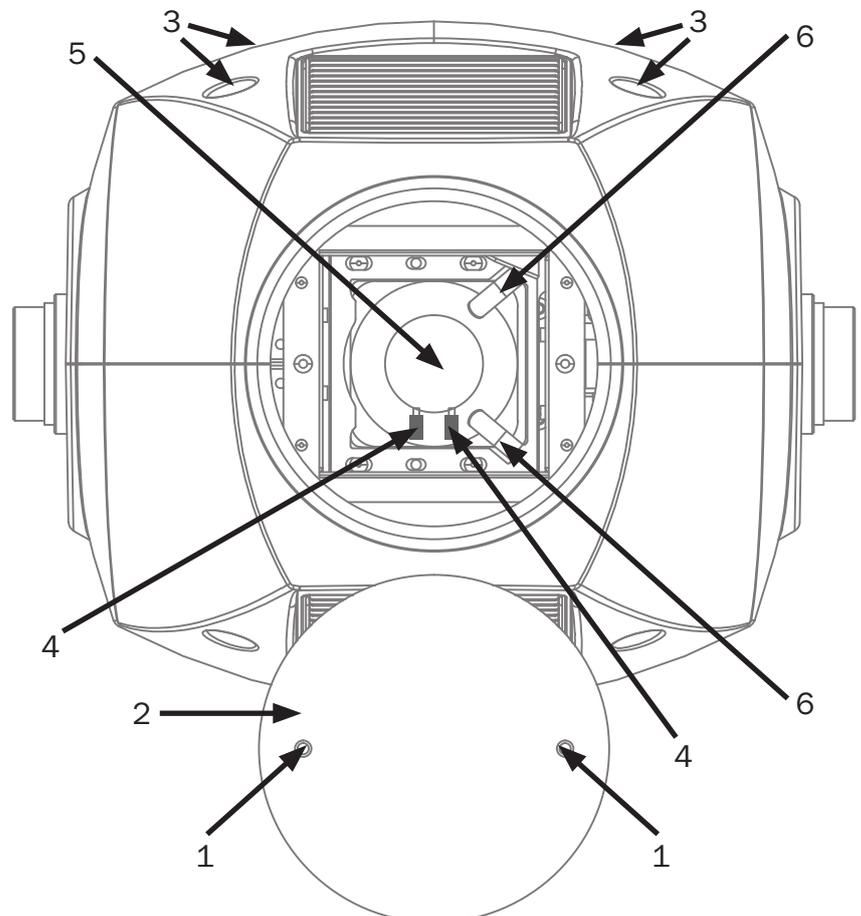
1. Disconnect the fixture from the mains and allow it to cool for a minimum of 60 minutes.
2. Loosen the 2 screws (1) labelled A and B on the lamp cover and remove the lamp cover (2) to access the lamp compartment.
3. Remove both Fastons (terminal connectors) (4) from the flat blades of the lamp base.
4. Holding the lamp by the ceramic base (5), gently slide the lamp left from under the metal latch and pull outwards and right at the same time to release it from the spring clips (6).
5. Holding the new lamp by its ceramic base (5), gently inset the lamp into the lamp compartment with the right side first to fit into the spring clips. (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.

6. Slide both Fastons (4) onto the lamp ensuring the correct wires are attached to the correct Faston (black on the left and red on the right).

7. Re-insert the lamp cover (2) and tighten the 2 screws (1) labelled A and B on the lamp cover.
8. Connect the fixture to the mains.
9. Reset the 'Lamp Hours' in the fixtures menu.  
 (See page 13 'Lamp Time' for instructions on how to clear the lamp hours.)

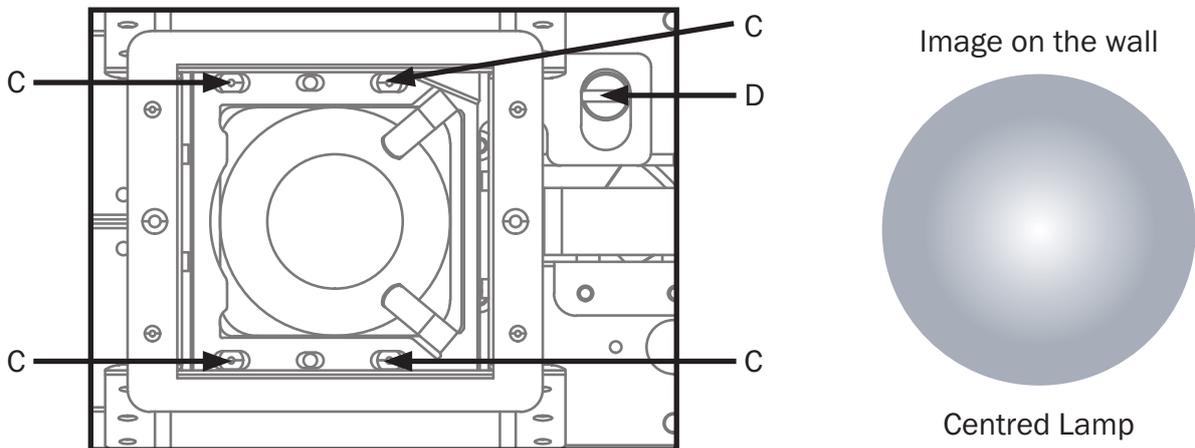


**Never operate this fixture without the lamp!**  
**Do not operate this fixture without all external covers!**

### 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 C and the adjustment screw marked D.



To adjust the lamp in the fixture:

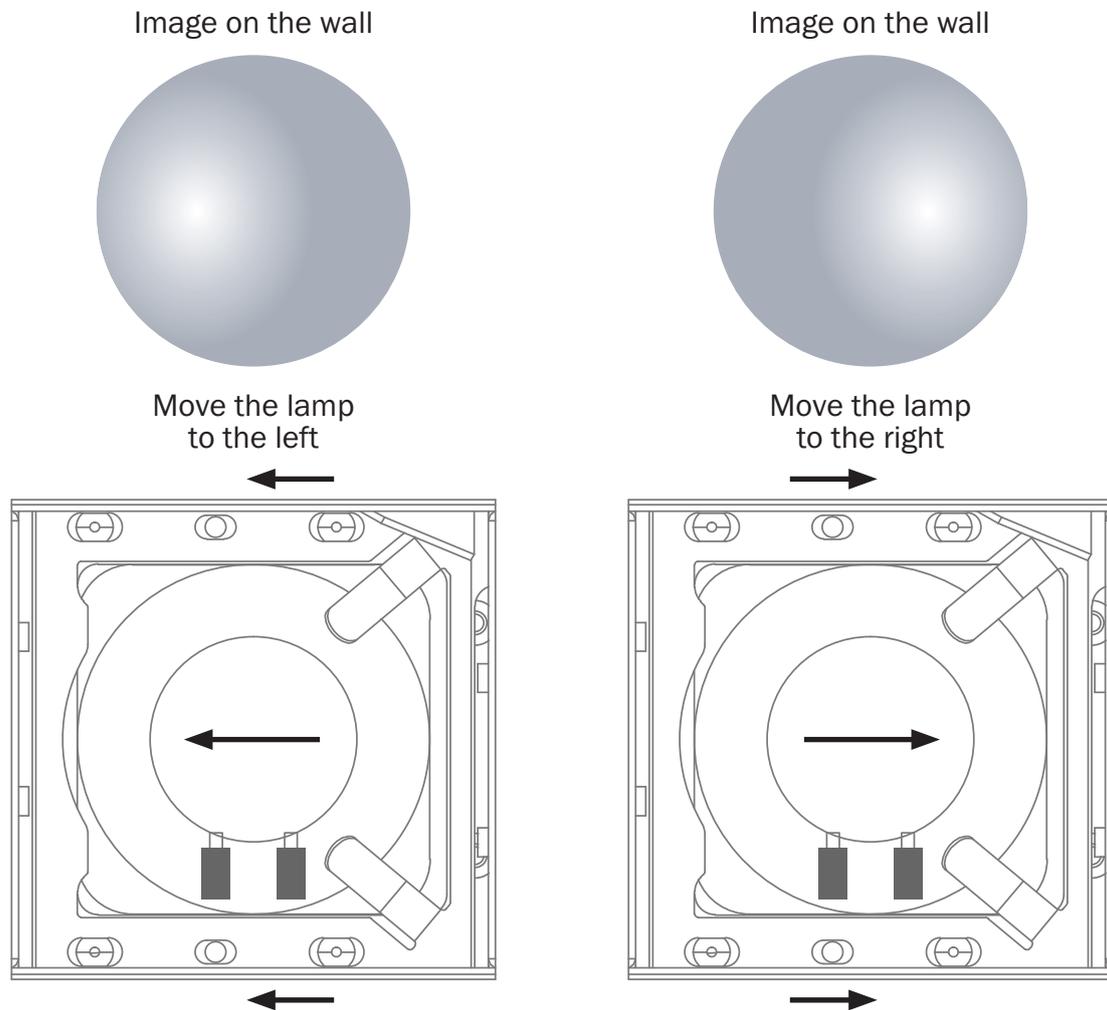
1. Connect the fixture to the mains and switch on the lamp, open the shutter (strobe) and dimmer and set the focus. Colour wheel and gobo wheel should be open and check the image on the wall.
2. Disconnect the fixture from the mains.
3. Loosen the 2 screws (1) labelled A and B on the lamp cover and remove. Then loosen the 4 screws in the top head shell (3) and remove to access the lamp compartment.
4. Loosen the 4 screws on the lamp assembly plate labelled (C).  
(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 D 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 (C).
7. Re-insert the head shell and tighten the 4 screws (3). Then re-insert the lamp cover (2) and tighten the 2 screws (1) labelled A and B 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 22.

**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.



**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.**

### Control Panel Menu:

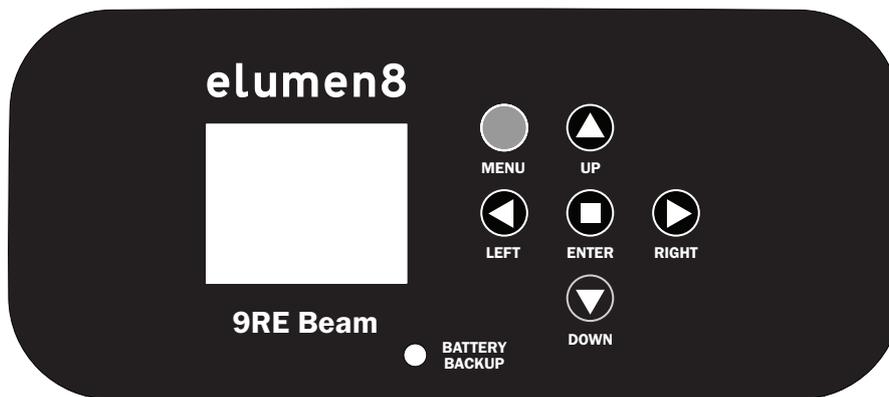
The LCD control panel situated on the front of the fixture allows the user to access the menu system to adjust the fixtures settings.

When the unit has been powered on the display will show “**Detect Software**” followed by “**Motor Reset Please Wait...**” and “**eLumen8 9RE Beam**”. The fixture will then return to its home screen.

Pressing the “**MENU**” button once 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 “**LEFT**” and “**RIGHT**” 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.

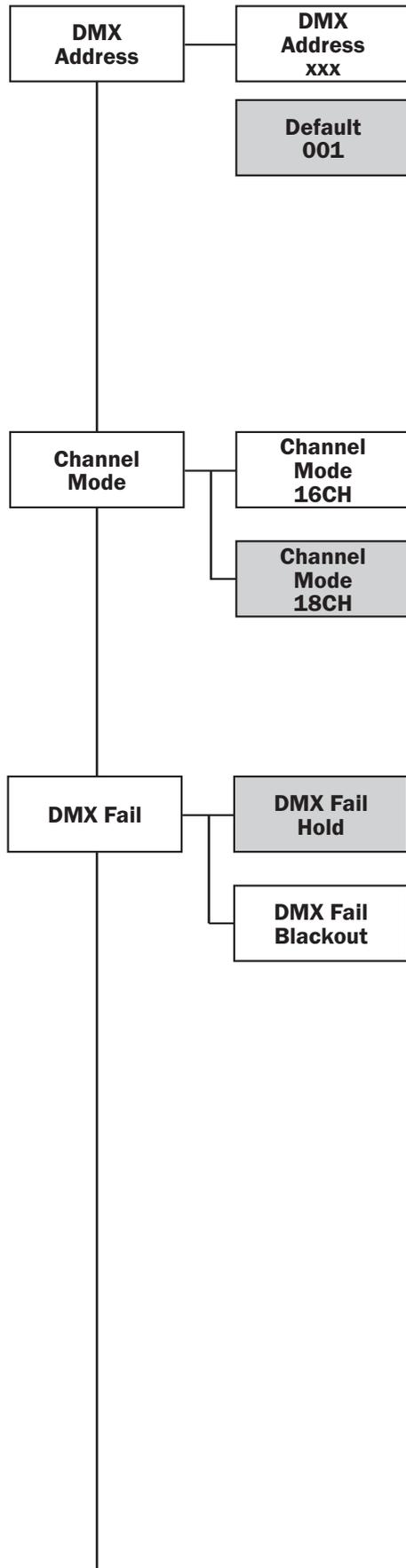
The LCD control panel can be used via the internal battery. To access this press and hold the “**DISPLAY BACKUP**” button for 5 seconds until the fixtures home screen is displayed. The LCD display will automatically shut off after 20 seconds of inactivity.



### Error Codes:

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.

Main Menu - Defaults are in grey



### DMX address:

Please note: when there is no DMX signal present the address will flash.

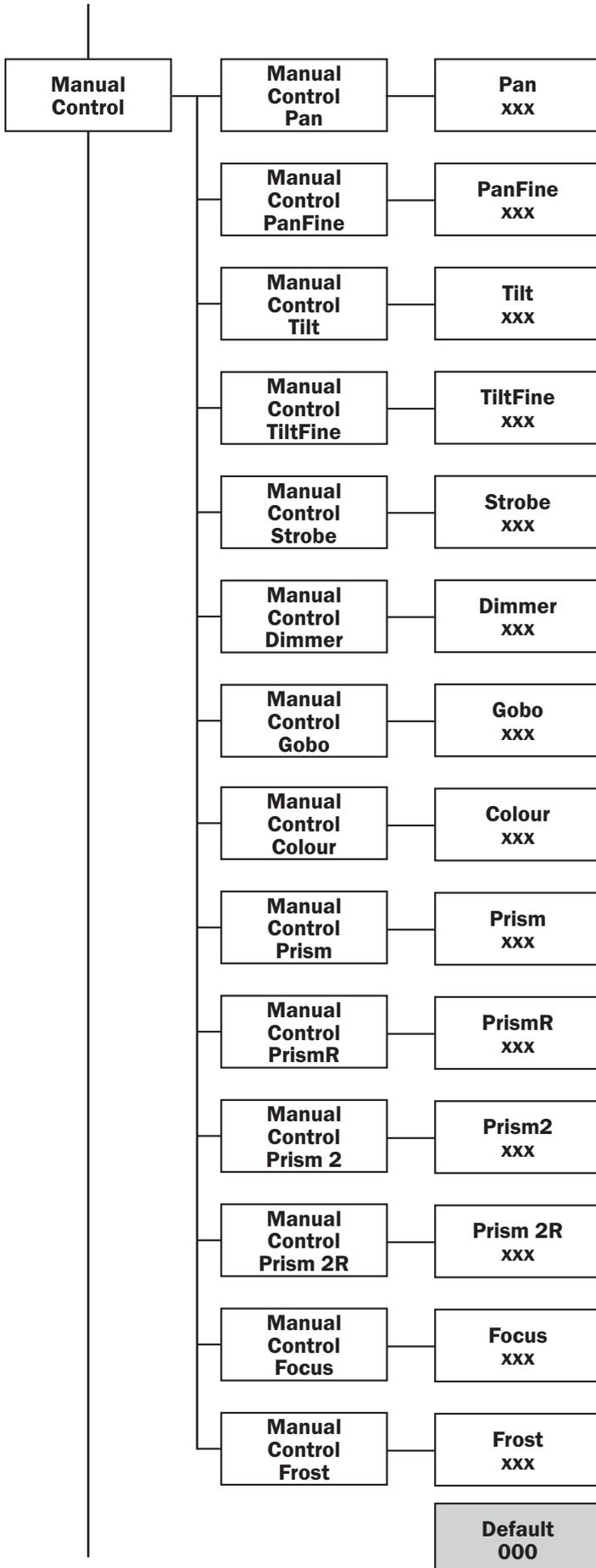
To access the DMX address mode, press the “MENU” button on the front of the unit to show “DMX Address” on the LCD display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to set the required DMX address. Press the “ENTER” button to confirm the setting.

### DMX channel mode:

To access the DMX channel mode, press the “MENU” button on the front of the unit to show “Channel Mode” on the LCD display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to set the required DMX channel. Press the “ENTER” button to confirm the setting.

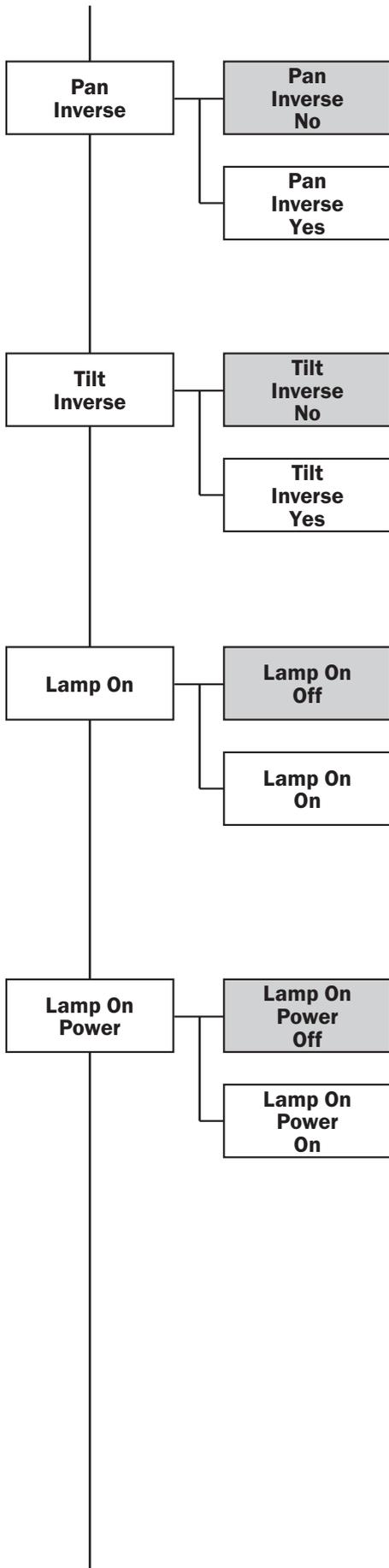
### DMX fail:

Sets what the fixture does when the DMX signal is lost. To access the DMX fail setting, press the “MENU” button on the front of the unit to show “DMX Fail” on the LCD display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between “Hold” or “Blackout”. Press the “ENTER” button to confirm the setting.



### Manual control:

To access manual control mode, press the “MENU” button on to show “Manual Control” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select the various options. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “000” - “255”. Press the “ENTER” button to confirm the setting.



### Pan inverse:

To access the pan inverse setting, press the “MENU” button on to show “Pan Inverse” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “No” and “Yes”. Press the “ENTER” button to confirm the setting.

### Tilt inverse:

To access the tilt inverse setting, press the “MENU” button on to show “Tilt Inverse” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “No” and “Yes”. Press the “ENTER” button to confirm the setting.

### Lamp On:

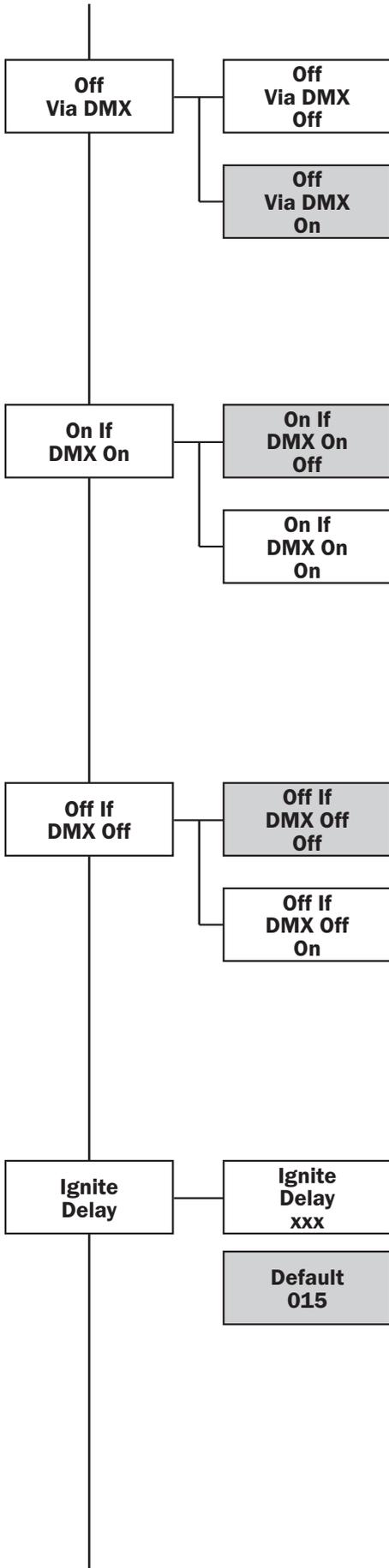
To switch the lamp on.

To access the lamp setting, press the “MENU” button on to show “Lamp On” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.

### Lamp On Power:

For the lamp to come on when the fixture is powered up.

To access the lamp on power setting, press the “MENU” button on to show “Lamp On” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.



### Off via DMX:

Sets whether lamp control is accessible via DMX. To access the off via DMX setting, press the “MENU” button on to show “Off Via DMX” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.

### On if DMX on:

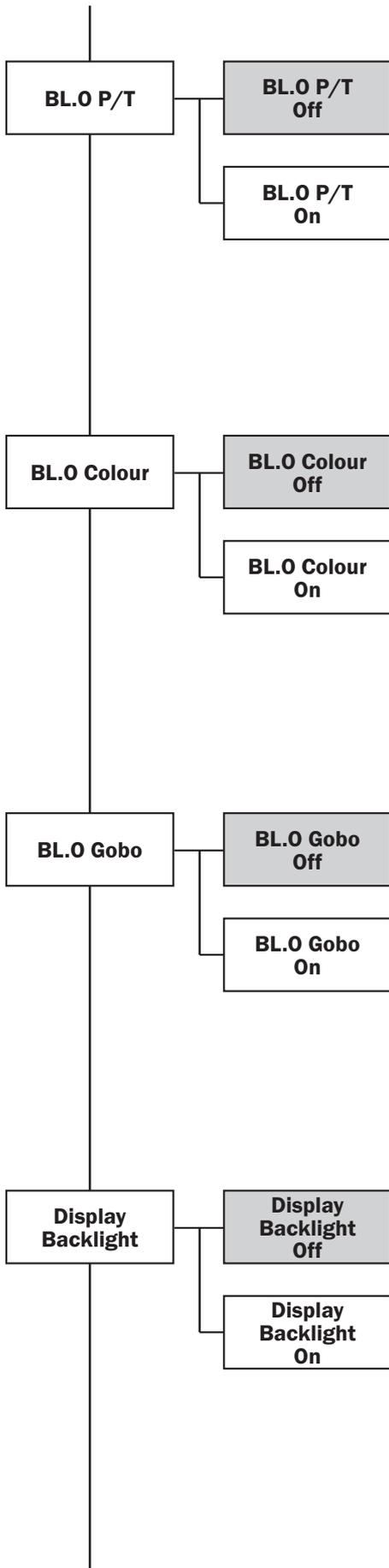
Sets whether the lamp is switched on when connected to DMX. To access the on if DMX on setting, press the “MENU” button on to show “On If DMX On” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.

### Off if DMX off:

Sets whether the lamp is switched off when disconnected from DMX. To access the off if DMX off setting, press the “MENU” button on to show “Off If DMX Off” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.

### Ignite delay:

Sets the delay time in seconds before the lamp ignites from power on. To access the ignite delay setting, press the “MENU” button on to show “Ignite Delay” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “000” - “255”. Press the “ENTER” button to confirm the setting.



### Blackout whilst pan/tilt:

Sets whether the fixture blacks out whilst panning/tilting.

To access the blackout whilst pan/tilt setting, press the “MENU” button on to show “BL.O P/T” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.

### Blackout whilst colour change:

Sets whether the fixture blacks out whilst changing colour.

To access the blackout whilst colour change setting, press the “MENU” button on to show “BL.O Colour” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.

### Blackout whilst gobo change:

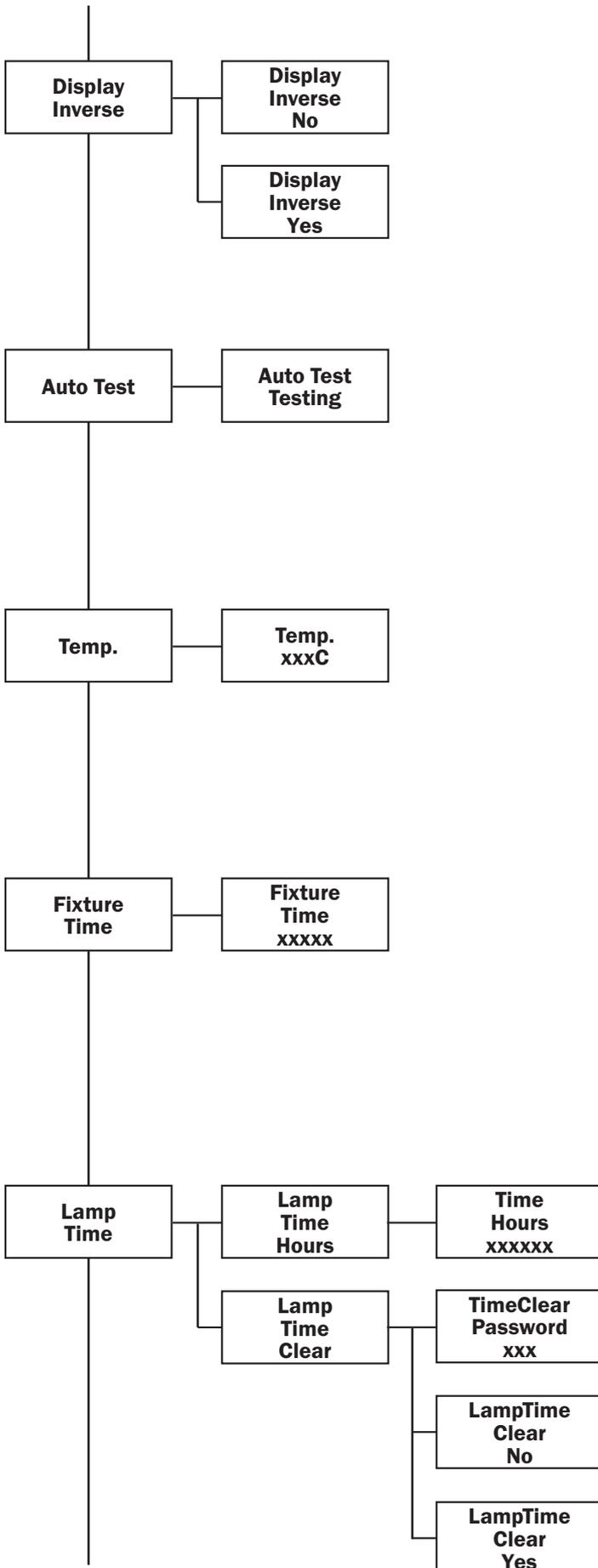
Sets whether the fixture blacks out whilst changing gobo.

To access the blackout whilst gobo change setting, press the “MENU” button on to show “BL.O Gobo” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.

### Display backlight:

Sets the display backlight.

To access the display backlight setting, press the “MENU” button on to show “Display Backlight” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “Off” and “On”. Press the “ENTER” button to confirm the setting.



### Display inverse:

To access the display inverse setting, press the “MENU” button on to show “Display Inverse” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “No” and “Yes”. Press the “ENTER” button to confirm the setting.

### Auto test:

Tests all functions and motors in the fixture. To access the auto test mode, press the “MENU” button on to show “Auto Test” on the LCD display. Press the “ENTER” button, the fixture will perform the auto test.

### Fixture temperature:

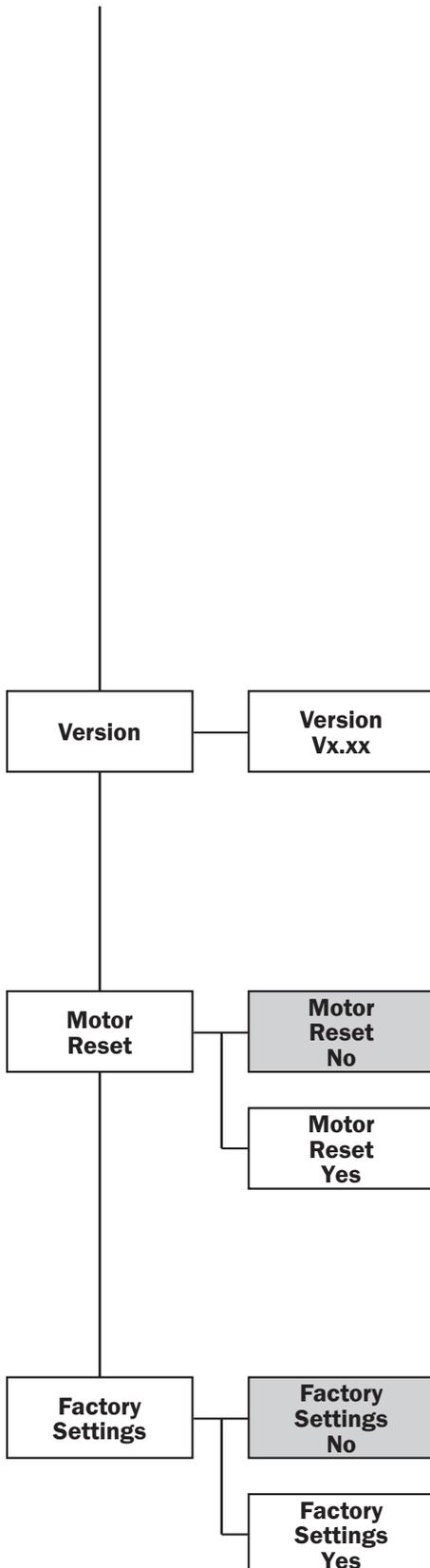
Displays the fixture temperature. To display the fixtures temperature, press the “MENU” button and use the “UP” and “DOWN” buttons to show “Temp.” on the LCD display. The unit will now display the fixtures temperature.

### Fixture Time:

Displays the fixtures total run time. To display the fixtures total run time, press the “MENU” button and use the “UP” and “DOWN” buttons to show “Fixture Time” on the LCD display. The unit will now display the fixtures run time.

### Lamp Time:

Displays/clears the lamps total usage time. To display the lamps total usage time, press the “MENU” button and use the “UP” and “DOWN” buttons to show “Lamp Time” on the LCD display. Press the “ENTER” button and use the “LEFT” and “RIGHT” buttons to select “Hours”. Now press the “ENTER” button to display the lamps usage time.



### Lamp Time (cont.):

To clear the lamps total usage time, press the “MENU” button and use the “UP” and “DOWN” buttons to show “Lamp Time” on the LCD display. Press the “ENTER” button and use the “LEFT” and “RIGHT” buttons to select “Clear”.

Press the “ENTER” button and use the “UP” and “DOWN” buttons to enter the password “088”. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “No” and “Yes”. Press the “ENTER” button to perform the lamp hours reset when yes is selected.

Please note: If the incorrect password is entered “Error” will be shown on the display.

### Software version:

Displays the fixtures software version.

To display the software version, press the “MENU” button and use the “UP” and “DOWN” buttons to show “Version” on the LCD display. The unit will now display the software version.

### Motor reset:

Resets all the fixtures motors.

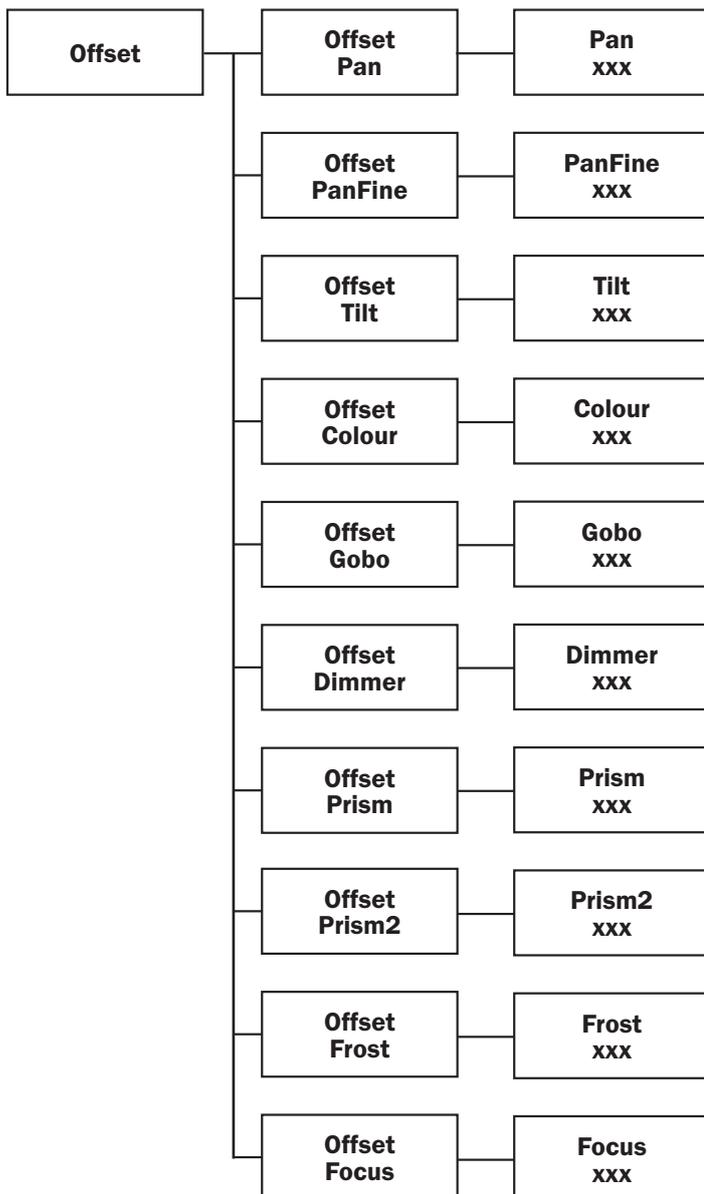
To access the motor reset setting, press the “MENU” button on to show “Motor Reset” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “No” and “Yes”. Press the “ENTER” button to perform the motor reset when yes is selected.

### Factory Settings:

Resets all the fixtures factory settings.

To access the factory setting reset, press the “MENU” button on to show “Factory Settings” on the LCD display. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “No” and “Yes”. Press the “ENTER” button to perform the factory setting reset when yes is selected.

### Offset Menu (calibration)



### Offset Menu:

Calibration settings for the fixture.

To access the units offset menu press the “MENU” button once to display “DMX Address” on the LCD display. Press and hold the “ENTER” button until the offset menu is displayed. Use the “UP” and “DOWN” buttons to select the various options. Press the “ENTER” button and use the “UP” and “DOWN” buttons to select between “-128” - “127”. Press the “ENTER” button to confirm the setting.

### 16 channel mode:

Channel	Value	Function	
CH1	000-255	Pan adjustment 0-630°	
CH2	000-255	Tilt adjustment 0-270°	
CH3	000-255	Pan/tilt speed (fast-slow)	
CH4	000-007	No function	
	008-015	Pan/Tilt Macro 1	
	016-023	Pan/Tilt Macro 2	
	024-031	Pan/Tilt Macro 3	
	032-039	Pan/Tilt Macro 4	
	040-047	Pan/Tilt Macro 5	
	048-055	Pan/Tilt Macro 6	
	056-063	Pan/Tilt Macro 7	
	064-071	Pan/Tilt Macro 8	
	072-079	Pan/Tilt Macro 9	
	080-087	Pan/Tilt Macro 10	
	088-095	Pan/Tilt Macro 11	
	096-103	Pan/Tilt Macro 12	
	104-111	Pan/Tilt Macro 13	
	112-119	Pan/Tilt Macro 14	
	120-127	Pan/Tilt Macro 15	
	128-135	Pan/Tilt Macro 16	
	136-143	Pan/Tilt Macro 17	
	144-151	Pan/Tilt Macro 18	
	152-159	Pan/Tilt Macro 19	
	160-167	Pan/Tilt Macro 20	
	168-175	Pan/Tilt Macro 21	
	176-183	Pan/Tilt Macro 22	
	184-191	Pan/Tilt Macro 23	
	192-199	Pan/Tilt Macro 24	
	200-207	Pan/Tilt Macro 25	
	208-215	Pan/Tilt Macro 26	
	CH4 (cont.)	216-223	Pan/Tilt Macro 27
		224-231	Pan/Tilt Macro 28
		232-239	Pan/Tilt Macro 29
		240-247	Pan/Tilt Macro 30
248-255		Pan/Tilt Macro 31	

Channel	Value	Function
CH5	000-255	Pan/Tilt Macro Speed (fast-slow)
CH6	000-007	Open
	008-015	Red
	016-023	Yellow
	024-031	Cyan
	032-039	Pastel Blue
	040-047	Green
	048-055	Baby Blue
	056-063	Pastel Pink
	064-071	Magenta
	072-079	Lime Green
	080-087	Pastel Green
	088-095	Pastel Yellow
	096-103	Blue
	104-111	5000K
	112-127	3200K
	128-190	Colour Wheel CW Rotation (fast-slow)
	191-255	Colour Wheel CCW Rotation (slow-fast)

### 16 channel mode cont.:

Channel	Value	Function
CH7	000-003	Open
	004-007	Static gobo 1
	008-011	Static gobo 2
	012-015	Static gobo 3
	016-019	Static gobo 4
	020-023	Static gobo 5
	024-027	Static gobo 6
	028-035	Static gobo 7
	036-039	Static gobo 8
	040-043	Static gobo 9
	044-047	Static gobo 10
	048-051	Static gobo 11
	052-055	Static gobo 12
	056-059	Static gobo 13
	060-063	Static gobo 14
	064-067	Static gobo 15
	068-071	Static gobo 16
	072-079	Static gobo 17
	080-083	Gobo 1 shake (slow-fast)
	084-087	Gobo 2 shake (slow-fast)
	088-091	Gobo 3 shake (slow-fast)
	092-095	Gobo 4 shake (slow-fast)
	096-099	Gobo 5 shake (slow-fast)
	100-103	Gobo 6 shake (slow-fast)
	104-107	Gobo 7 shake (slow-fast)
	108-111	Gobo 8 shake (slow-fast)
	112-115	Gobo 9 shake (slow-fast)
	116-119	Gobo 10 shake (slow-fast)
	120-123	Gobo 11 shake (slow-fast)
	124-127	Gobo 12 shake (slow-fast)
	128-131	Gobo 13 shake (slow-fast)
	132-135	Gobo 14 shake (slow-fast)
136-139	Gobo 15 shake (slow-fast)	
140-143	Gobo 16 shake (slow-fast)	
144-159	Gobo 17 shake (slow-fast)	
160-207	Gobo wheel scroll CW (fast-slow)	
208-255	Gobo wheel scroll CCW (slow-fast)	

Channel	Value	Function
CH8	000-007	Blackout
	008-015	Open
	016-131	Strobe (slow-fast)
	132-139	Open
	140-181	Strobe (slow open, fast close)
	182-189	Open
	190-231	Strobe (fast open, slow close)
	232-239	Open
	240-247	Random Strobe (slow-fast)
	248-255	Open
CH9	000-255	Dimmer (0-100%)
CH10	000-007	No function
	008-255	4 facet circular prism
CH11	000-127	Prism indexing
	128-191	Prism rotation CCW (fast-slow)
	192-255	Prism rotation CW (slow-fast)
CH12	000-007	No function
	008-255	16 facet circular prism
CH13	000-127	Prism indexing
	128-191	Prism rotation CCW (fast-slow)
	192-255	Prism rotation CW (slow-fast)
CH14	000-007	No function
	008-255	Frost
CH15	000-255	Focus

### 16 channel mode cont.:

Channel	Value	Function
CH16	000-017	No function
	018-034	Enable blackout whilst pan/tilt
	035-051	Disable blackout whilst pan/tilt
	052-068	Enable blackout whilst colour changing
	069-085	Disable blackout whilst colour changing
	086-102	Enable blackout whilst gobo changing
	103-119	Disable blackout whilst gobo changing
	120-136	Enable blackout whilst pan/tilt/gobo/colour change
	137-153	Disable blackout whilst pan/tilt/gobo/colour change
	154-170	No function
	171-187	Lamp On
	188-204	Lamp Off
	205-221	No function
	222-238	Motor reset (hold for 5 seconds)
239-255	No function	

### 18 channel mode:

Channel	Value	Function
CH1	000-255	Pan adjustment 0-630°
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	000-007	No function
	008-015	Pan/Tilt Macro 1
	016-023	Pan/Tilt Macro 2
	024-031	Pan/Tilt Macro 3
	032-039	Pan/Tilt Macro 4
	040-047	Pan/Tilt Macro 5
	048-055	Pan/Tilt Macro 6
	056-063	Pan/Tilt Macro 7
	064-071	Pan/Tilt Macro 8
	072-079	Pan/Tilt Macro 9
	080-087	Pan/Tilt Macro 10
	088-095	Pan/Tilt Macro 11
	096-103	Pan/Tilt Macro 12
	104-111	Pan/Tilt Macro 13
	112-119	Pan/Tilt Macro 14
	120-127	Pan/Tilt Macro 15
	128-135	Pan/Tilt Macro 16
	136-143	Pan/Tilt Macro 17
	144-151	Pan/Tilt Macro 18
	152-159	Pan/Tilt Macro 19
	160-167	Pan/Tilt Macro 20
	168-175	Pan/Tilt Macro 21
	176-183	Pan/Tilt Macro 22
	184-191	Pan/Tilt Macro 23
	192-199	Pan/Tilt Macro 24
	200-207	Pan/Tilt Macro 25
	208-215	Pan/Tilt Macro 26
	216-223	Pan/Tilt Macro 27
	224-231	Pan/Tilt Macro 28
	232-239	Pan/Tilt Macro 29
	240-247	Pan/Tilt Macro 30
248-255	Pan/Tilt Macro 31	

Channel	Value	Function
CH7	000-255	Pan/Tilt Macro Speed (fast-slow)
CH8	000-007	Open
	008-015	Red
	016-023	Yellow
	024-031	Cyan
	032-039	Pastel Blue
	040-047	Green
	048-055	Baby Blue
	056-063	Pastel Pink
	064-071	Magenta
	072-079	Lime Green
	080-087	Pastel Green
	088-095	Pastel Yellow
	096-103	Blue
	104-111	5000K
	112-127	3200K
	128-190	Colour wheel CW rotation (fast-slow)
	191-255	Colour wheel CCW rotation (slow-fast)

### 18 channel mode cont.:

Channel	Value	Function
CH9	000-003	Open
	004-007	Static gobo 1
	008-011	Static gobo 2
	012-015	Static gobo 3
	016-019	Static gobo 4
	020-023	Static gobo 5
	024-027	Static gobo 6
	028-035	Static gobo 7
	036-039	Static gobo 8
	040-043	Static gobo 9
	044-047	Static gobo 10
	048-051	Static gobo 11
	052-055	Static gobo 12
	056-059	Static gobo 13
	060-063	Static gobo 14
	064-067	Static gobo 15
	068-071	Static gobo 16
	072-079	Static gobo 17
	080-083	Gobo 1 shake (slow-fast)
	084-087	Gobo 2 shake (slow-fast)
	088-091	Gobo 3 shake (slow-fast)
	092-095	Gobo 4 shake (slow-fast)
	096-099	Gobo 5 shake (slow-fast)
	100-103	Gobo 6 shake (slow-fast)
	104-107	Gobo 7 shake (slow-fast)
	108-111	Gobo 8 shake (slow-fast)
	112-115	Gobo 9 shake (slow-fast)
	116-119	Gobo 10 shake (slow-fast)
	120-123	Gobo 11 shake (slow-fast)
	124-127	Gobo 12 shake (slow-fast)
	128-131	Gobo 13 shake (slow-fast)
	132-135	Gobo 14 shake (slow-fast)
	136-139	Gobo 15 shake (slow-fast)
140-143	Gobo 16 shake (slow-fast)	
144-159	Gobo 17 shake (slow-fast)	
160-207	Gobo wheel scroll CW (fast-slow)	
208-255	Gobo wheel scroll CCW (slow-fast)	

Channel	Value	Function
CH10	000-007	Blackout
	008-015	Open
	016-131	Strobe (slow-fast)
	132-139	Open
	140-181	Strobe (slow open, fast close)
	182-189	Open
	190-231	Strobe (fast open, slow close)
	232-239	Open
	240-247	Random Strobe (slow-fast)
	248-255	Open
CH11	000-255	Dimmer (0-100%)
CH12	000-007	No function
	008-255	4 facet circular prism
CH13	000-127	Prism indexing
	128-191	Prism rotation CCW (fast-slow)
	192-255	Prism rotation CW (slow-fast)
CH14	000-007	No function
	008-255	16 facet circular prism
CH15	000-127	Prism indexing
	128-191	Prism rotation CCW (fast-slow)
	192-255	Prism rotation CW (slow-fast)
CH16	000-007	No function
	008-255	Frost
CH17	000-255	Focus

### 18 channel mode cont.:

Channel	Value	Function
CH18	000-017	No function
	018-034	Enable blackout whilst pan/tilt
	035-051	Disable blackout whilst pan/tilt
	052-068	Enable blackout whilst colour changing
	069-085	Disable blackout whilst colour changing
	086-102	Enable blackout whilst gobo changing
	103-119	Disable blackout whilst gobo changing
	120-136	Enable blackout whilst pan/tilt/gobo/colour change
	137-153	Disable blackout whilst pan/tilt/gobo/colour change
	154-170	No function
	171-187	Lamp On
	188-204	Lamp Off
	205-221	No function
	222-238	Motor reset (hold for 5 seconds)
239-255	No function	

### Static gobos:



### 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 from 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.

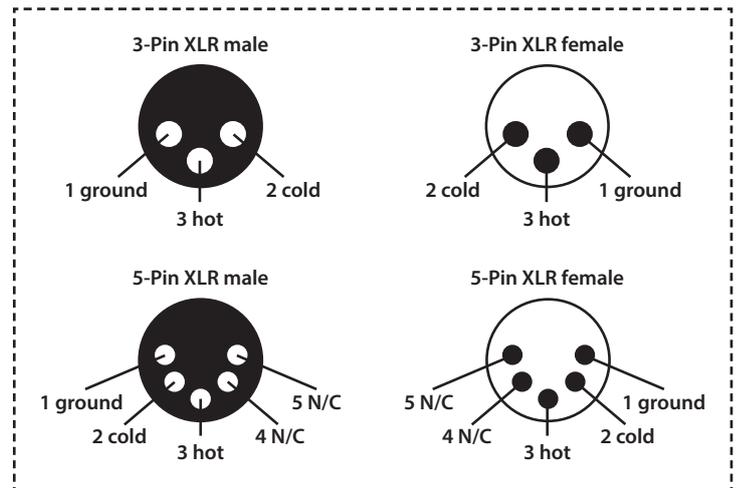
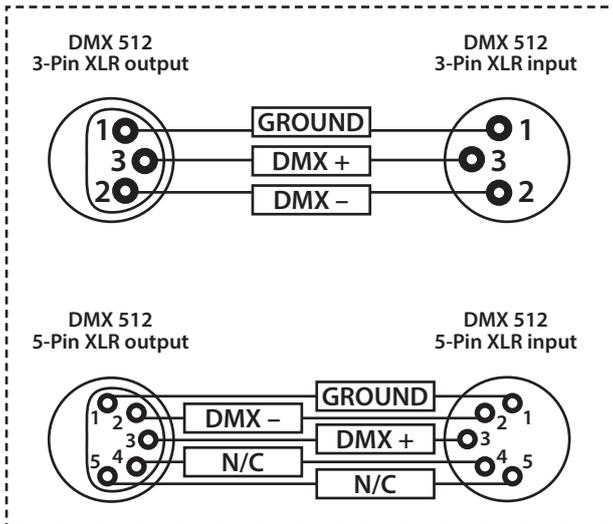
Please quote:	3-Pin:	CABL10 – 2m	CABL11 – 5m	CABL12 – 10m
	5-Pin:	CABL185 – 2m	CABL187 – 5m	CABL188 – 10m

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

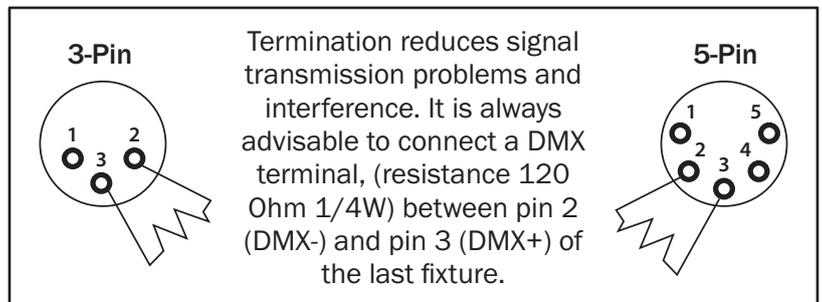


**Line termination:**

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

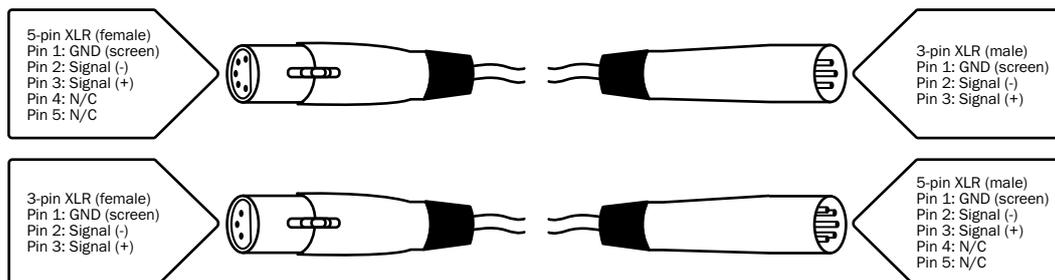
**Using a cable terminator will decrease the possibilities of erratic behaviour.**

(3-pin - Order ref: CABL90,  
5-pin - Order ref: CABL89)



**5-pin XLR DMX connectors:**

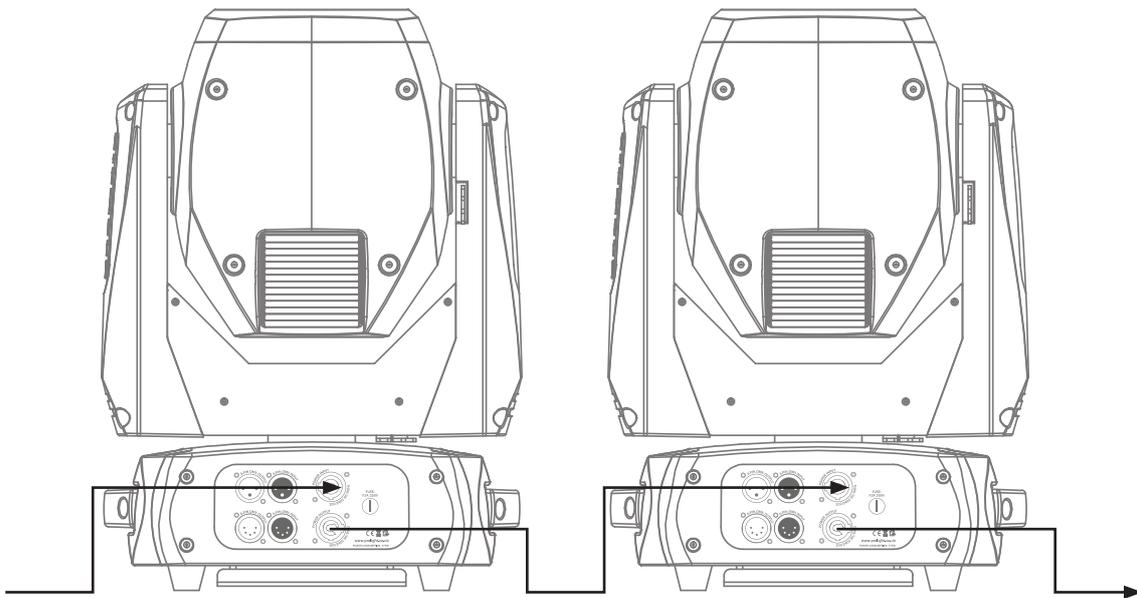
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



### 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 4 fixtures @ 240V or 2 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 9RE Beam 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.



## Optional accessories

Please contact your local retailer to purchase these accessories.



Twin 9RE Beam Flight Case  
Order code: ELUM016C



Replacement YODN MSD 260R9 Lamp  
Order code: YODN025



Replacement Omega Clamp  
Order code: CLAM21



***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.

